



# Full wwPDB NMR Structure Validation Report ⓘ

Dec 25, 2024 – 04:47 AM EST

PDB ID : 5TP5  
BMRB ID : 30195  
Title : Solution structure of the calcium deficient mutant calmodulin CaM1234  
Authors : Piazza, M.; Dieckmann, T.; Guillemette, J.G.  
Deposited on : 2016-10-19

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

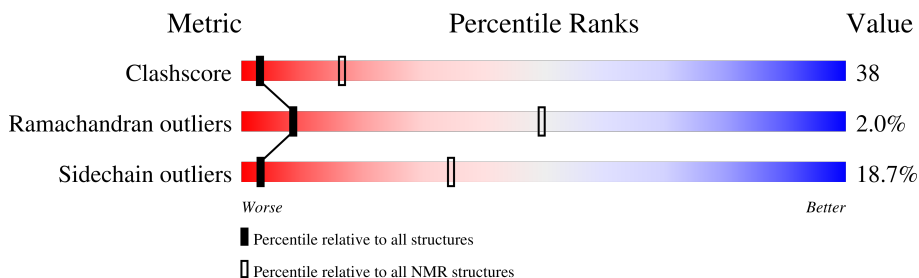
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 59%.

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	148	

## 2 Ensemble composition and analysis i

This entry contains 20 models. Model 18 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:7-A:20, A:24-A:57, A:61-A:72 (60)	0.25	17
2	A:81-A:148 (68)	0.95	18

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 4 clusters. No single-model clusters were found.

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

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2255 atoms, of which 1101 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Calmodulin.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	148	2255	710	1101	188	247	9	0

There are 4 discrepancies between the modelled and reference sequences:

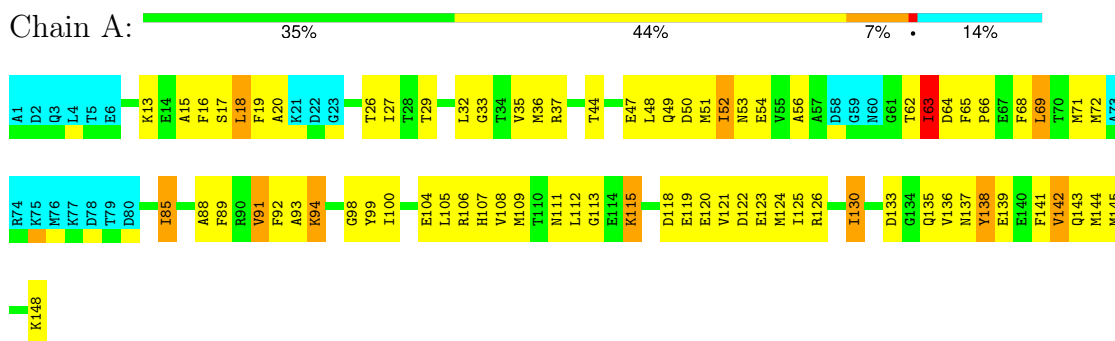
Chain	Residue	Modelled	Actual	Comment	Reference
A	20	ALA	ASP	engineered mutation	UNP P62158
A	56	ALA	ASP	engineered mutation	UNP P62158
A	93	ALA	ASP	engineered mutation	UNP P62158
A	129	ALA	ASP	engineered mutation	UNP P62158

## 4 Residue-property plots

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

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

- Molecule 1: Calmodulin

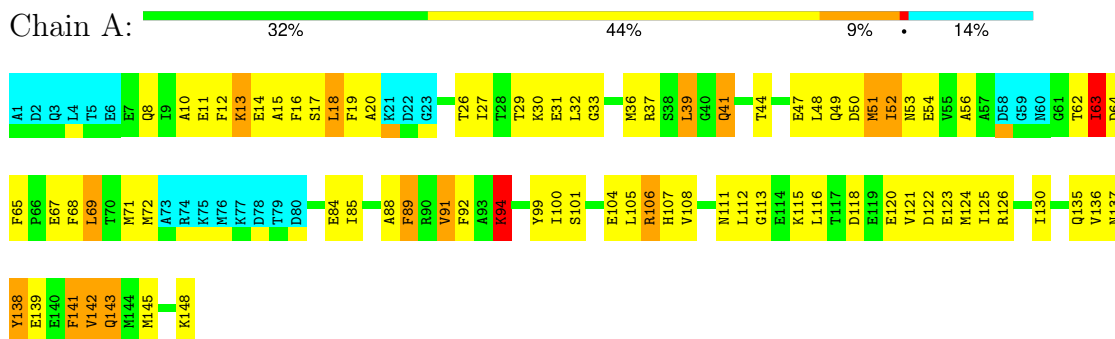


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

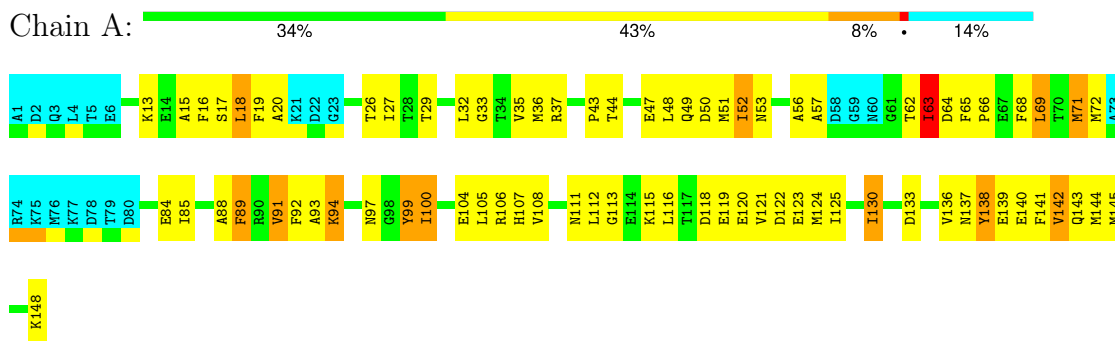
#### 4.2.1 Score per residue for model 1

- Molecule 1: Calmodulin



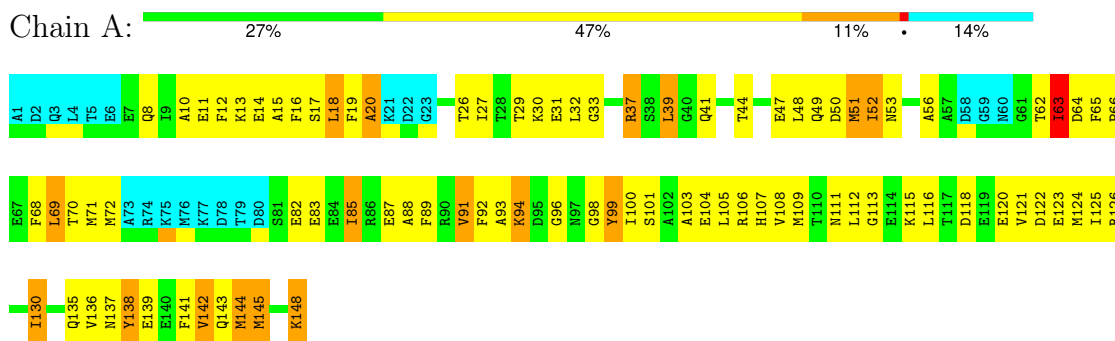
## 4.2.2 Score per residue for model 2

- Molecule 1: Calmodulin



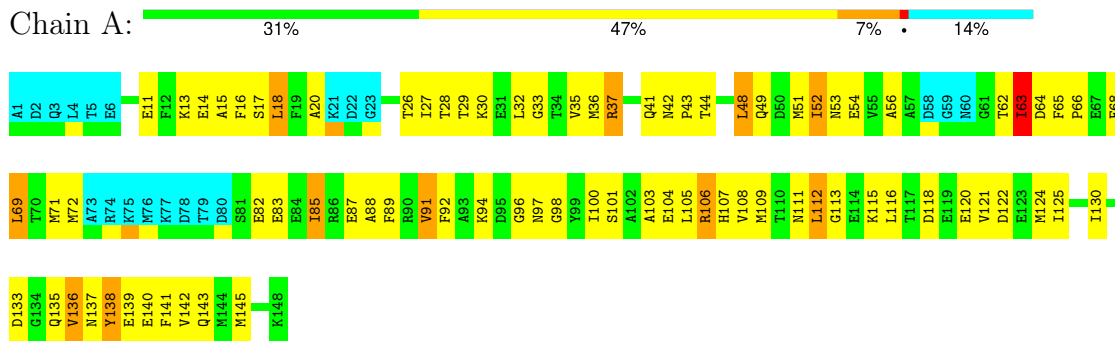
## 4.2.3 Score per residue for model 3

- Molecule 1: Calmodulin



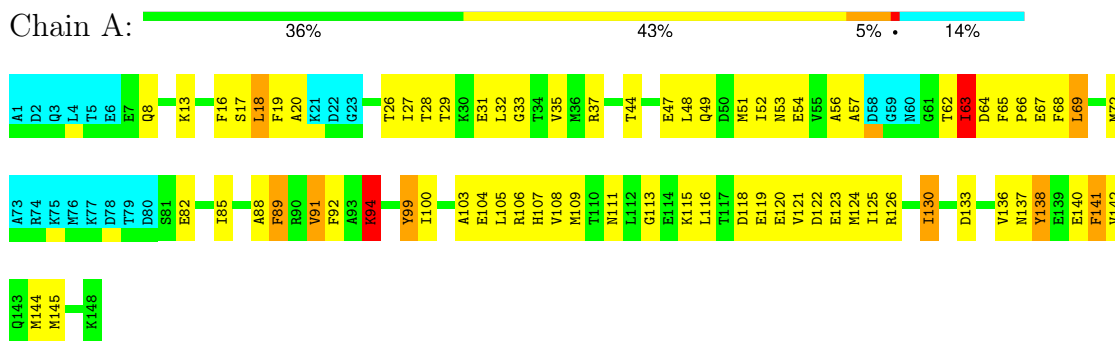
## 4.2.4 Score per residue for model 4

- Molecule 1: Calmodulin



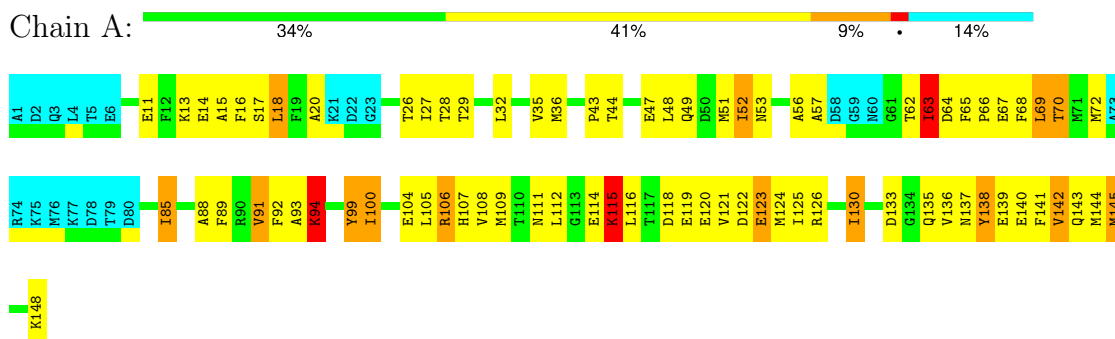
### 4.2.5 Score per residue for model 5

- Molecule 1: Calmodulin



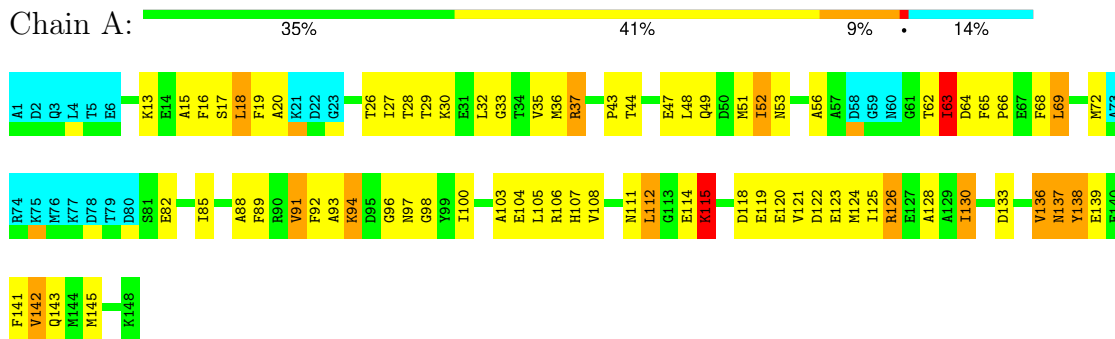
### 4.2.6 Score per residue for model 6

- Molecule 1: Calmodulin



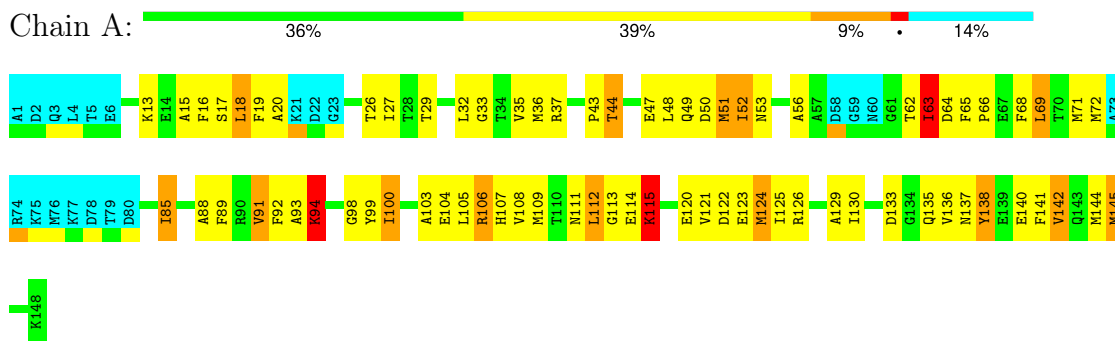
### 4.2.7 Score per residue for model 7

- Molecule 1: Calmodulin



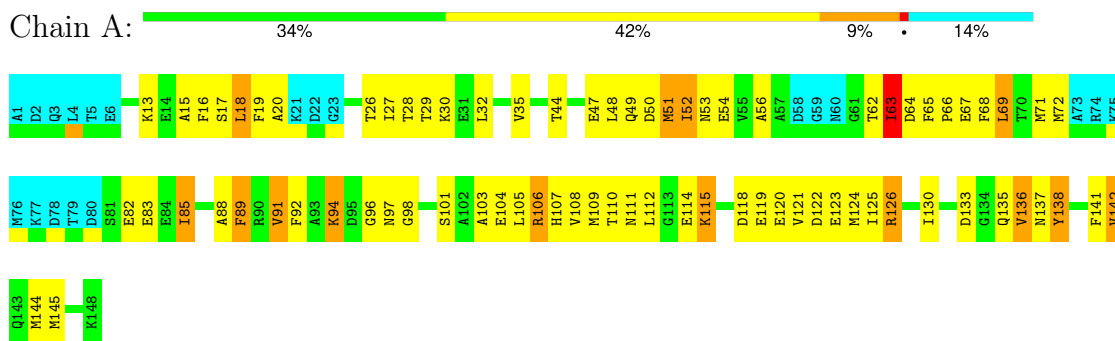
### 4.2.8 Score per residue for model 8

- Molecule 1: Calmodulin



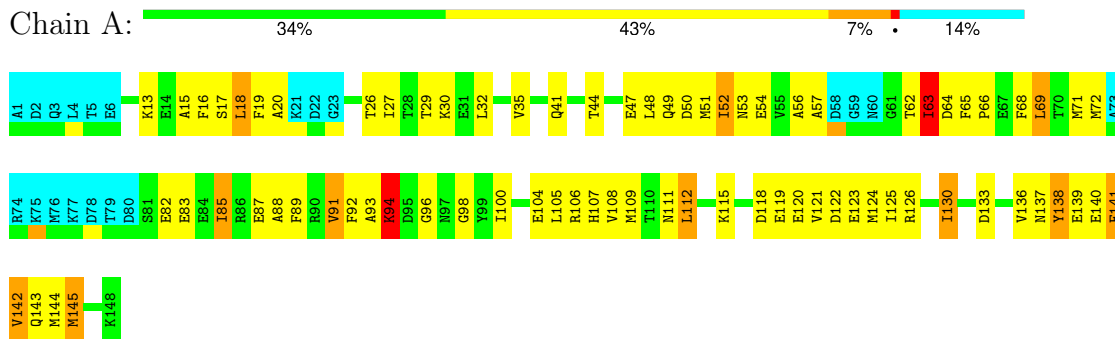
### 4.2.9 Score per residue for model 9

- Molecule 1: Calmodulin



### 4.2.10 Score per residue for model 10

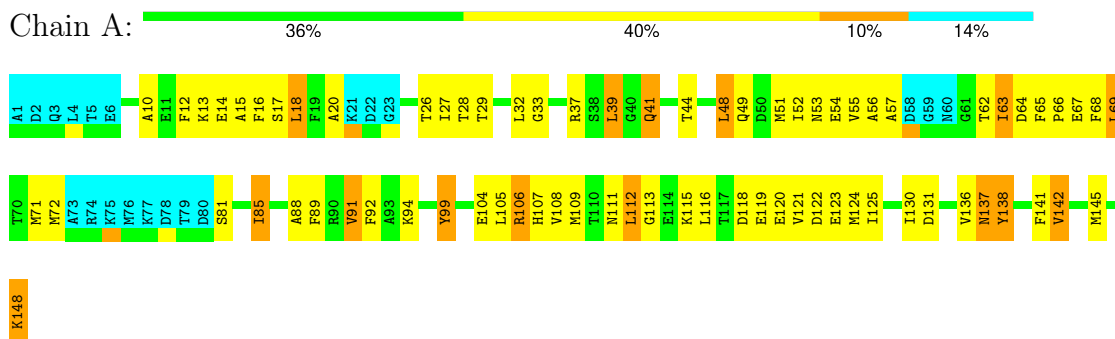
- Molecule 1: Calmodulin





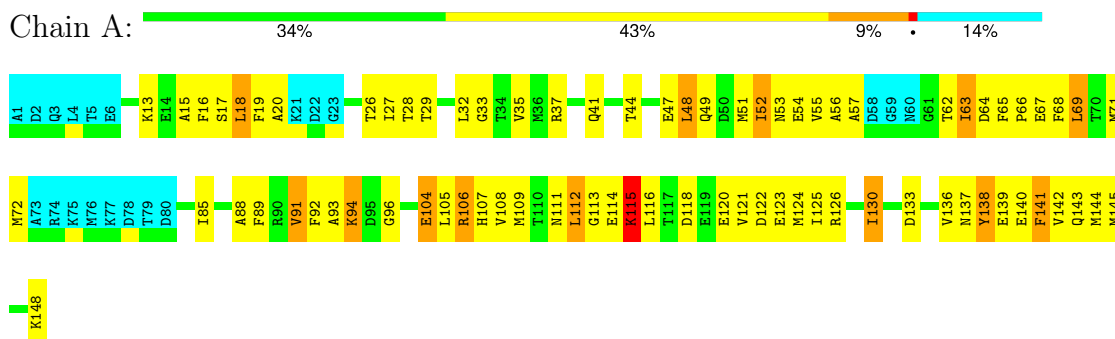
### 4.2.11 Score per residue for model 11

- Molecule 1: Calmodulin



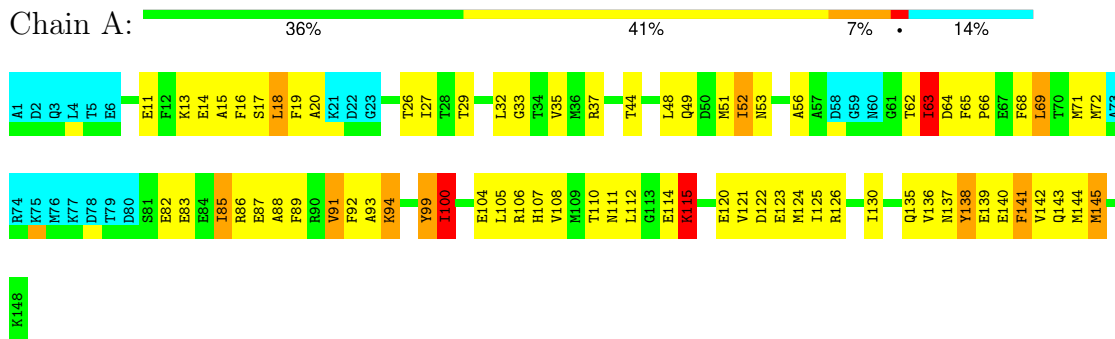
### 4.2.12 Score per residue for model 12

- Molecule 1: Calmodulin



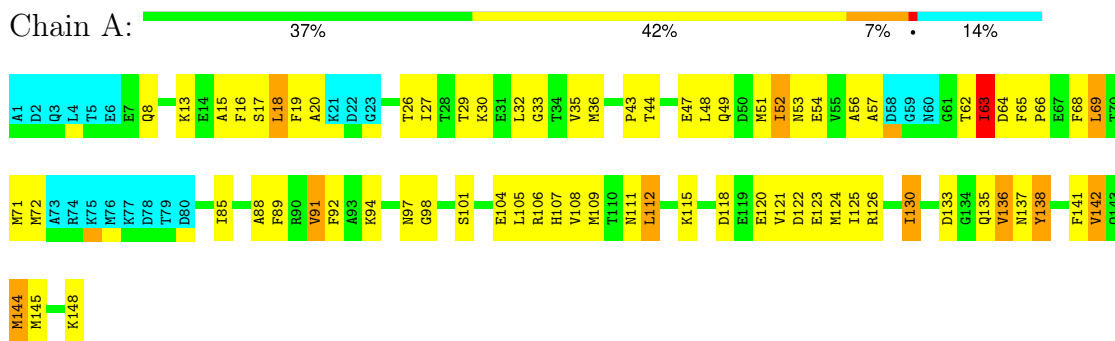
### 4.2.13 Score per residue for model 13

- Molecule 1: Calmodulin



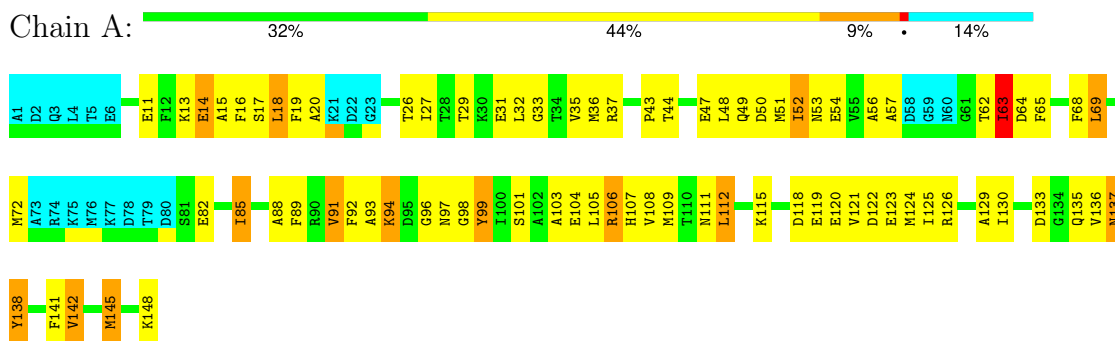
## 4.2.14 Score per residue for model 14

- Molecule 1: Calmodulin



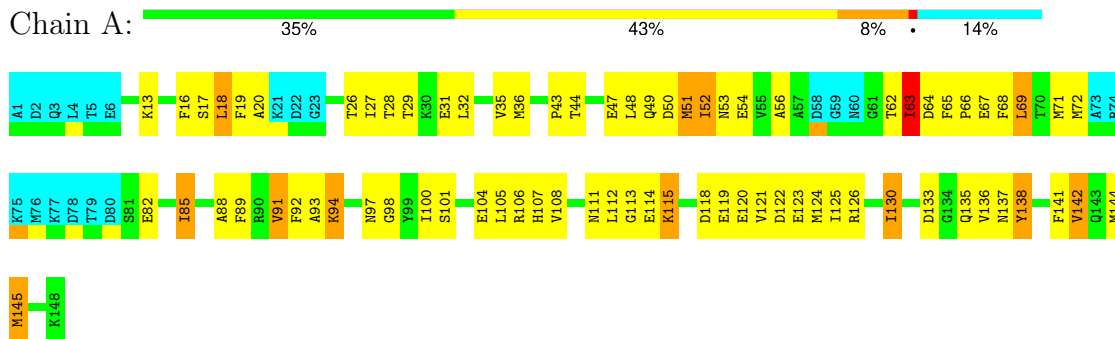
## 4.2.15 Score per residue for model 15

- Molecule 1: Calmodulin



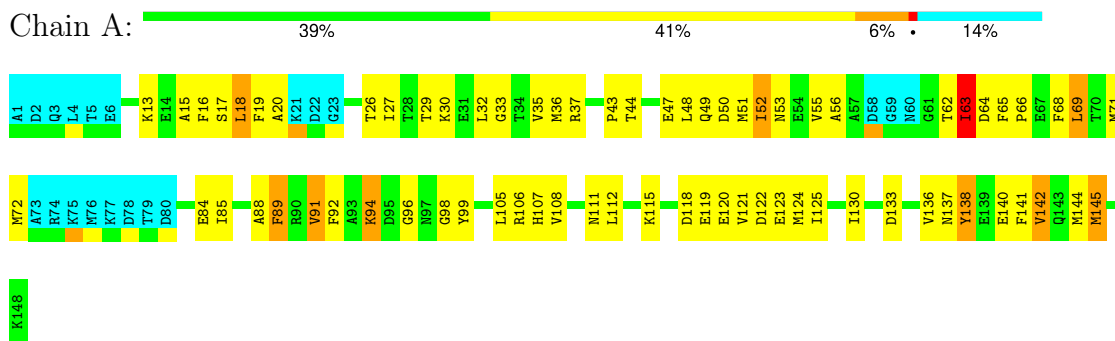
## 4.2.16 Score per residue for model 16

- Molecule 1: Calmodulin



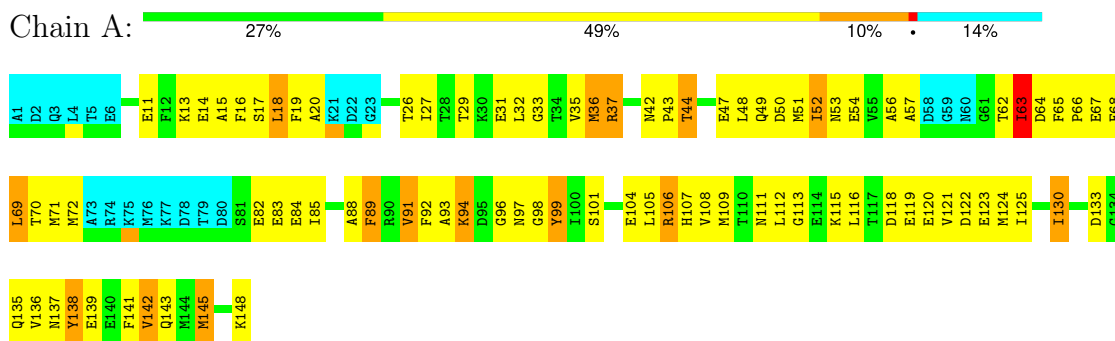
## 4.2.17 Score per residue for model 17

- Molecule 1: Calmodulin



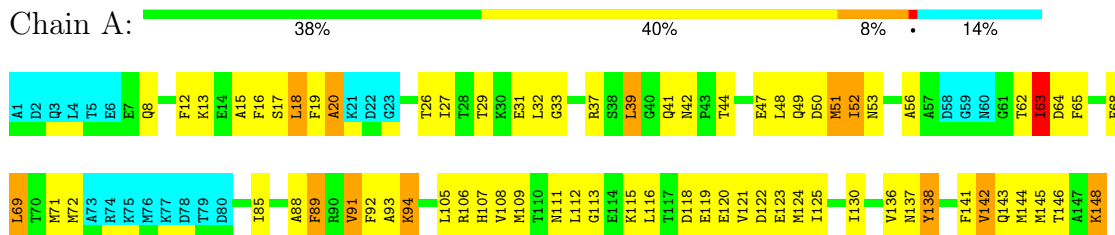
## 4.2.18 Score per residue for model 18 (medoid)

- Molecule 1: Calmodulin



## 4.2.19 Score per residue for model 19

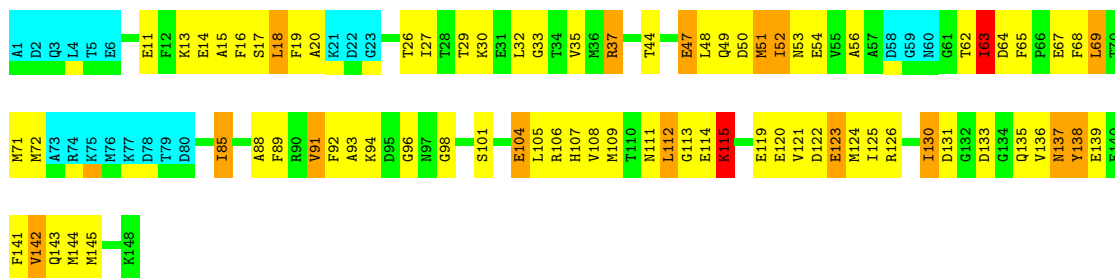
- Molecule 1: Calmodulin



## 4.2.20 Score per residue for model 20

- Molecule 1: Calmodulin





## 5 Refinement protocol and experimental data overview

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

Of the 20 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
CNS	refinement	
CNS	structure calculation	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1140
Number of shifts mapped to atoms	1140
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	59%

## 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	0.49±0.01	0±0/1014 ( 0.0± 0.0%)	0.70±0.01	1±0/1362 ( 0.1± 0.0%)
All	All	0.49	0/20280 ( 0.0%)	0.70	18/27240 ( 0.1%)

There are no bond-length outliers.

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	63	ILE	CB-CA-C	-5.66	100.28	111.60	4	18

There are no chirality outliers.

There are no planarity outliers.

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

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1002	957	956	74±5
All	All	20040	19140	19120	1472

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 38.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:88:ALA:O	1:A:91:VAL:HG23	1.06	1.49	5	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:48:LEU:O	1:A:52:ILE:HB	0.91	1.66	12	20
1:A:37:ARG:HA	1:A:41:GLN:O	0.88	1.67	19	5
1:A:138:TYR:N	1:A:138:TYR:CD2	0.88	2.42	16	13
1:A:142:VAL:O	1:A:145:MET:HG3	0.88	1.67	2	12
1:A:136:VAL:HG22	1:A:137:ASN:H	0.79	1.37	2	16
1:A:142:VAL:HA	1:A:145:MET:SD	0.78	2.19	19	2
1:A:138:TYR:CD1	1:A:138:TYR:N	0.77	2.52	12	7
1:A:32:LEU:HD23	1:A:63:ILE:HD13	0.76	1.55	12	2
1:A:27:ILE:O	1:A:63:ILE:HG12	0.75	1.81	5	18
1:A:52:ILE:O	1:A:56:ALA:N	0.69	2.24	12	20
1:A:8:GLN:O	1:A:11:GLU:HB2	0.69	1.88	1	1
1:A:32:LEU:HD23	1:A:63:ILE:CD1	0.69	2.18	11	2
1:A:85:ILE:O	1:A:89:PHE:HD2	0.68	1.71	13	15
1:A:27:ILE:O	1:A:62:THR:HB	0.68	1.89	14	20
1:A:121:VAL:HG12	1:A:125:ILE:HD11	0.67	1.67	20	19
1:A:82:GLU:O	1:A:85:ILE:HG13	0.67	1.90	5	9
1:A:85:ILE:O	1:A:89:PHE:HD1	0.67	1.73	19	5
1:A:32:LEU:O	1:A:35:VAL:HB	0.66	1.89	9	15
1:A:114:GLU:O	1:A:115:LYS:HG2	0.66	1.89	7	6
1:A:107:HIS:O	1:A:111:ASN:HB2	0.66	1.90	7	20
1:A:53:ASN:O	1:A:57:ALA:HB2	0.66	1.91	12	7
1:A:26:THR:HB	1:A:63:ILE:O	0.65	1.92	12	20
1:A:15:ALA:HA	1:A:18:LEU:HD23	0.65	1.67	1	18
1:A:49:GLN:O	1:A:53:ASN:HB2	0.65	1.91	19	20
1:A:29:THR:O	1:A:32:LEU:HG	0.65	1.92	1	20
1:A:12:PHE:CE1	1:A:39:LEU:HD11	0.64	2.27	3	3
1:A:39:LEU:HD22	1:A:39:LEU:H	0.64	1.51	3	4
1:A:109:MET:O	1:A:112:LEU:HD22	0.64	1.93	6	1
1:A:85:ILE:HG23	1:A:86:ARG:N	0.64	2.08	13	1
1:A:17:SER:HA	1:A:20:ALA:HB2	0.64	1.70	2	20
1:A:85:ILE:CG2	1:A:86:ARG:N	0.64	2.61	13	1
1:A:120:GLU:O	1:A:124:MET:CE	0.63	2.46	8	18
1:A:51:MET:HG3	1:A:52:ILE:HD12	0.63	1.69	5	1
1:A:93:ALA:HA	1:A:100:ILE:HG21	0.63	1.70	16	1
1:A:99:TYR:O	1:A:100:ILE:HB	0.62	1.91	6	2
1:A:120:GLU:O	1:A:124:MET:HE1	0.62	1.93	4	5
1:A:120:GLU:O	1:A:124:MET:HE2	0.62	1.95	8	1
1:A:122:ASP:HA	1:A:125:ILE:HD12	0.62	1.71	1	20
1:A:139:GLU:O	1:A:143:GLN:HB2	0.61	1.95	7	11
1:A:136:VAL:HG11	1:A:141:PHE:CD2	0.61	2.30	8	3
1:A:142:VAL:HA	1:A:145:MET:HE2	0.61	1.70	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:37:ARG:HE	1:A:42:ASN:HD22	0.61	1.37	18	1
1:A:136:VAL:HG11	1:A:141:PHE:CD1	0.61	2.31	11	5
1:A:143:GLN:O	1:A:146:THR:HG22	0.61	1.96	19	1
1:A:85:ILE:CG2	1:A:86:ARG:H	0.60	2.08	13	1
1:A:121:VAL:O	1:A:125:ILE:HG13	0.60	1.96	19	16
1:A:142:VAL:O	1:A:145:MET:HG2	0.60	1.96	9	3
1:A:36:MET:SD	1:A:43:PRO:HG3	0.60	2.37	6	9
1:A:124:MET:SD	1:A:145:MET:HG2	0.60	2.36	4	1
1:A:85:ILE:O	1:A:89:PHE:CD2	0.60	2.54	13	1
1:A:106:ARG:HG3	1:A:121:VAL:HG21	0.59	1.74	11	19
1:A:69:LEU:O	1:A:72:MET:HB2	0.59	1.96	15	20
1:A:33:GLY:O	1:A:37:ARG:N	0.58	2.32	12	14
1:A:92:PHE:CD2	1:A:108:VAL:HG22	0.58	2.32	9	10
1:A:98:GLY:O	1:A:138:TYR:HE1	0.58	1.82	7	1
1:A:85:ILE:HG21	1:A:145:MET:SD	0.58	2.39	1	1
1:A:92:PHE:CD1	1:A:108:VAL:HG22	0.58	2.33	6	10
1:A:98:GLY:O	1:A:138:TYR:HE2	0.58	1.81	4	4
1:A:130:ILE:HD12	1:A:136:VAL:HG13	0.58	1.76	11	1
1:A:36:MET:HG3	1:A:72:MET:SD	0.58	2.39	1	1
1:A:140:GLU:O	1:A:144:MET:HB2	0.58	1.99	12	8
1:A:47:GLU:HB3	1:A:51:MET:SD	0.58	2.39	10	8
1:A:27:ILE:HG13	1:A:63:ILE:HD12	0.57	1.75	11	2
1:A:15:ALA:HB3	1:A:35:VAL:HG13	0.57	1.76	12	1
1:A:36:MET:HG2	1:A:72:MET:SD	0.57	2.39	4	1
1:A:68:PHE:O	1:A:72:MET:HG2	0.57	1.99	16	8
1:A:93:ALA:O	1:A:94:LYS:HD3	0.57	1.99	2	1
1:A:47:GLU:O	1:A:51:MET:HG2	0.57	1.98	17	2
1:A:130:ILE:HD12	1:A:136:VAL:HA	0.57	1.76	8	1
1:A:109:MET:HA	1:A:112:LEU:HD21	0.57	1.76	12	4
1:A:65:PHE:CZ	1:A:69:LEU:HD21	0.56	2.35	1	18
1:A:136:VAL:CG1	1:A:137:ASN:N	0.56	2.68	11	3
1:A:32:LEU:HD23	1:A:63:ILE:HG13	0.56	1.77	5	18
1:A:92:PHE:CG	1:A:108:VAL:HG22	0.56	2.36	8	20
1:A:8:GLN:O	1:A:12:PHE:HD1	0.56	1.83	1	1
1:A:99:TYR:HB2	1:A:136:VAL:O	0.56	2.00	3	7
1:A:56:ALA:HB1	1:A:62:THR:O	0.55	2.01	11	10
1:A:65:PHE:CE1	1:A:69:LEU:HD21	0.55	2.37	8	9
1:A:106:ARG:HA	1:A:121:VAL:HG21	0.55	1.76	6	18
1:A:84:GLU:HB3	1:A:112:LEU:HD12	0.55	1.78	17	4
1:A:92:PHE:O	1:A:100:ILE:HG21	0.55	2.02	8	1
1:A:16:PHE:CZ	1:A:27:ILE:HG12	0.55	2.37	11	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:106:ARG:HG3	1:A:121:VAL:HG11	0.55	1.79	5	12
1:A:108:VAL:O	1:A:112:LEU:HD22	0.55	2.00	4	4
1:A:65:PHE:CE2	1:A:69:LEU:HD21	0.55	2.37	9	11
1:A:51:MET:SD	1:A:52:ILE:HD12	0.55	2.42	19	4
1:A:105:LEU:HD13	1:A:141:PHE:CD1	0.55	2.37	16	9
1:A:138:TYR:N	1:A:138:TYR:HD2	0.55	1.98	16	4
1:A:124:MET:HG3	1:A:141:PHE:CE2	0.54	2.37	19	2
1:A:32:LEU:HB2	1:A:68:PHE:CZ	0.54	2.38	19	17
1:A:136:VAL:HG22	1:A:137:ASN:N	0.53	2.18	12	5
1:A:12:PHE:CD1	1:A:39:LEU:HD11	0.53	2.39	3	3
1:A:37:ARG:HB2	1:A:42:ASN:OD1	0.53	2.03	4	1
1:A:112:LEU:HD23	1:A:113:GLY:N	0.52	2.19	11	5
1:A:51:MET:O	1:A:54:GLU:HB2	0.52	2.05	15	9
1:A:26:THR:CB	1:A:63:ILE:O	0.52	2.58	10	20
1:A:67:GLU:O	1:A:71:MET:HG2	0.52	2.04	1	4
1:A:98:GLY:O	1:A:138:TYR:CE1	0.52	2.62	8	1
1:A:47:GLU:O	1:A:51:MET:HG3	0.52	2.05	20	8
1:A:105:LEU:HD13	1:A:141:PHE:CE1	0.52	2.40	7	9
1:A:33:GLY:HA2	1:A:36:MET:SD	0.52	2.45	18	1
1:A:83:GLU:O	1:A:87:GLU:HB2	0.52	2.05	13	4
1:A:29:THR:HA	1:A:32:LEU:CD2	0.52	2.35	1	17
1:A:32:LEU:HD12	1:A:33:GLY:N	0.52	2.20	12	9
1:A:105:LEU:HD13	1:A:141:PHE:CE2	0.52	2.40	11	10
1:A:138:TYR:O	1:A:142:VAL:HG23	0.51	2.05	11	6
1:A:105:LEU:HD13	1:A:141:PHE:CD2	0.51	2.40	14	7
1:A:56:ALA:HB2	1:A:63:ILE:HG23	0.51	1.82	16	12
1:A:99:TYR:O	1:A:137:ASN:HA	0.51	2.05	6	2
1:A:66:PRO:O	1:A:69:LEU:HD12	0.51	2.06	4	14
1:A:144:MET:SD	1:A:148:LYS:HD3	0.51	2.46	2	4
1:A:104:GLU:O	1:A:108:VAL:HG23	0.51	2.05	6	18
1:A:29:THR:N	1:A:63:ILE:HD11	0.51	2.21	12	2
1:A:98:GLY:O	1:A:138:TYR:CD2	0.51	2.64	16	1
1:A:11:GLU:HA	1:A:14:GLU:OE1	0.51	2.06	6	6
1:A:98:GLY:O	1:A:138:TYR:CE2	0.51	2.64	15	3
1:A:103:ALA:HA	1:A:106:ARG:NH1	0.51	2.21	7	3
1:A:124:MET:HG3	1:A:141:PHE:CE1	0.51	2.41	18	2
1:A:100:ILE:O	1:A:135:GLN:HB2	0.50	2.05	8	1
1:A:26:THR:CA	1:A:63:ILE:O	0.50	2.60	6	19
1:A:88:ALA:HB2	1:A:112:LEU:HD11	0.50	1.83	17	2
1:A:119:GLU:O	1:A:123:GLU:HB2	0.50	2.06	20	13
1:A:142:VAL:HA	1:A:145:MET:HE3	0.50	1.83	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:27:ILE:N	1:A:63:ILE:O	0.50	2.45	9	20
1:A:100:ILE:O	1:A:136:VAL:O	0.50	2.30	1	3
1:A:26:THR:HG22	1:A:64:ASP:CA	0.49	2.37	11	20
1:A:16:PHE:CG	1:A:65:PHE:HD2	0.49	2.26	1	7
1:A:32:LEU:HD13	1:A:68:PHE:HE1	0.49	1.67	15	12
1:A:89:PHE:CE1	1:A:142:VAL:HG22	0.49	2.43	9	11
1:A:82:GLU:O	1:A:85:ILE:HG22	0.49	2.08	13	1
1:A:89:PHE:CE2	1:A:142:VAL:HG22	0.49	2.42	19	4
1:A:16:PHE:CE2	1:A:27:ILE:HG12	0.49	2.43	3	10
1:A:94:LYS:N	1:A:94:LYS:HE3	0.49	2.23	5	4
1:A:16:PHE:CD1	1:A:65:PHE:HD2	0.49	2.26	18	3
1:A:26:THR:HG22	1:A:64:ASP:HA	0.49	1.85	5	20
1:A:16:PHE:CD1	1:A:65:PHE:HD1	0.49	2.26	10	7
1:A:85:ILE:O	1:A:89:PHE:CD1	0.49	2.63	19	1
1:A:89:PHE:O	1:A:93:ALA:HB3	0.49	2.08	2	10
1:A:85:ILE:HG23	1:A:112:LEU:HD12	0.48	1.83	8	2
1:A:32:LEU:HD21	1:A:52:ILE:CD1	0.48	2.38	11	2
1:A:92:PHE:HB3	1:A:104:GLU:HB2	0.48	1.83	12	1
1:A:120:GLU:HG3	1:A:124:MET:HE3	0.48	1.85	18	4
1:A:32:LEU:HD13	1:A:68:PHE:HE2	0.48	1.68	4	6
1:A:85:ILE:HD13	1:A:142:VAL:HG12	0.48	1.85	1	1
1:A:65:PHE:N	1:A:66:PRO:HD2	0.48	2.23	6	8
1:A:114:GLU:H	1:A:115:LYS:NZ	0.48	2.07	16	2
1:A:100:ILE:O	1:A:100:ILE:HG13	0.48	2.07	10	1
1:A:37:ARG:HB2	1:A:42:ASN:ND2	0.48	2.24	19	1
1:A:50:ASP:O	1:A:53:ASN:HB3	0.48	2.08	9	12
1:A:16:PHE:CD2	1:A:65:PHE:HD2	0.48	2.26	14	5
1:A:113:GLY:HA3	1:A:116:LEU:HD12	0.48	1.85	2	5
1:A:109:MET:HE1	1:A:121:VAL:HG22	0.48	1.86	4	1
1:A:32:LEU:HD22	1:A:68:PHE:CE1	0.48	2.44	5	2
1:A:109:MET:O	1:A:116:LEU:HD13	0.48	2.09	11	1
1:A:142:VAL:HG13	1:A:145:MET:HE3	0.48	1.86	11	1
1:A:16:PHE:CE1	1:A:27:ILE:HG12	0.48	2.44	7	9
1:A:96:GLY:C	1:A:98:GLY:H	0.48	2.12	15	8
1:A:51:MET:HA	1:A:54:GLU:OE1	0.47	2.09	11	4
1:A:94:LYS:O	1:A:94:LYS:HD2	0.47	2.09	10	2
1:A:125:ILE:HG13	1:A:141:PHE:CZ	0.47	2.44	6	3
1:A:142:VAL:HA	1:A:145:MET:CE	0.47	2.39	5	2
1:A:16:PHE:CD2	1:A:65:PHE:HD1	0.47	2.28	17	4
1:A:81:SER:HB3	1:A:112:LEU:HD11	0.47	1.85	11	1
1:A:94:LYS:C	1:A:96:GLY:H	0.47	2.13	12	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:142:VAL:O	1:A:145:MET:HB2	0.47	2.10	1	4
1:A:109:MET:O	1:A:116:LEU:HD11	0.47	2.10	3	1
1:A:29:THR:HA	1:A:32:LEU:HG	0.47	1.85	5	6
1:A:51:MET:HB2	1:A:71:MET:HE2	0.47	1.86	8	1
1:A:32:LEU:HD22	1:A:68:PHE:CE2	0.47	2.45	11	1
1:A:136:VAL:CG2	1:A:137:ASN:H	0.47	2.21	12	5
1:A:109:MET:O	1:A:112:LEU:HB3	0.46	2.10	20	4
1:A:52:ILE:O	1:A:56:ALA:HB3	0.46	2.10	11	2
1:A:112:LEU:HD11	1:A:114:GLU:OE1	0.46	2.10	12	1
1:A:99:TYR:CE2	1:A:137:ASN:HB3	0.46	2.44	17	1
1:A:47:GLU:C	1:A:51:MET:HE3	0.46	2.30	8	7
1:A:19:PHE:CZ	1:A:31:GLU:HB3	0.46	2.45	1	2
1:A:120:GLU:O	1:A:124:MET:HE3	0.46	2.11	17	8
1:A:123:GLU:O	1:A:126:ARG:HD3	0.46	2.10	9	1
1:A:48:LEU:HA	1:A:51:MET:HE2	0.46	1.86	4	1
1:A:16:PHE:O	1:A:27:ILE:HG21	0.46	2.11	11	8
1:A:32:LEU:HD21	1:A:52:ILE:HD11	0.46	1.86	11	2
1:A:109:MET:CG	1:A:145:MET:SD	0.46	3.04	5	1
1:A:28:THR:HG22	1:A:62:THR:HG22	0.46	1.88	11	1
1:A:121:VAL:HG12	1:A:125:ILE:CD1	0.46	2.40	20	6
1:A:125:ILE:HG13	1:A:141:PHE:HZ	0.45	1.71	12	5
1:A:89:PHE:CE2	1:A:108:VAL:HG11	0.45	2.46	5	4
1:A:148:LYS:OXT	1:A:148:LYS:HD3	0.45	2.11	18	1
1:A:101:SER:HA	1:A:135:GLN:HB3	0.45	1.89	3	5
1:A:123:GLU:O	1:A:126:ARG:HD2	0.45	2.12	15	8
1:A:8:GLN:HA	1:A:11:GLU:OE2	0.45	2.12	3	1
1:A:68:PHE:HA	1:A:71:MET:SD	0.45	2.52	19	1
1:A:112:LEU:HD21	1:A:114:GLU:OE2	0.45	2.11	7	1
1:A:108:VAL:O	1:A:111:ASN:N	0.45	2.50	12	2
1:A:28:THR:C	1:A:63:ILE:HD11	0.45	2.32	11	2
1:A:32:LEU:HD21	1:A:52:ILE:HG12	0.45	1.88	5	1
1:A:10:ALA:O	1:A:14:GLU:HG3	0.44	2.11	1	3
1:A:26:THR:HG22	1:A:64:ASP:HB3	0.44	1.89	9	11
1:A:11:GLU:O	1:A:14:GLU:HG2	0.44	2.12	18	5
1:A:27:ILE:C	1:A:63:ILE:HD12	0.44	2.33	12	1
1:A:100:ILE:O	1:A:135:GLN:HB3	0.44	2.13	13	1
1:A:124:MET:SD	1:A:145:MET:HA	0.44	2.53	10	3
1:A:93:ALA:HB1	1:A:100:ILE:HG12	0.44	1.90	2	1
1:A:130:ILE:HD13	1:A:137:ASN:OD1	0.44	2.12	11	1
1:A:18:LEU:HD11	1:A:19:PHE:CZ	0.44	2.48	18	14
1:A:106:ARG:HD3	1:A:121:VAL:HG11	0.44	1.89	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:145:MET:O	1:A:148:LYS:HE3	0.44	2.12	11	1
1:A:13:LYS:O	1:A:17:SER:HB2	0.44	2.12	1	1
1:A:123:GLU:HA	1:A:126:ARG:CZ	0.44	2.43	1	6
1:A:106:ARG:HD3	1:A:121:VAL:CG1	0.44	2.43	6	1
1:A:27:ILE:O	1:A:63:ILE:HD12	0.44	2.12	12	1
1:A:99:TYR:O	1:A:100:ILE:HG22	0.44	2.12	13	1
1:A:109:MET:CE	1:A:121:VAL:HG22	0.44	2.43	11	4
1:A:120:GLU:HG3	1:A:124:MET:HE1	0.43	1.90	2	1
1:A:124:MET:SD	1:A:145:MET:HB3	0.43	2.53	2	1
1:A:16:PHE:CG	1:A:65:PHE:HD1	0.43	2.31	19	9
1:A:109:MET:SD	1:A:145:MET:SD	0.43	3.16	5	2
1:A:93:ALA:HB1	1:A:100:ILE:CG2	0.43	2.44	10	1
1:A:114:GLU:C	1:A:116:LEU:H	0.43	2.16	12	1
1:A:101:SER:HA	1:A:135:GLN:CB	0.43	2.44	18	5
1:A:103:ALA:HA	1:A:106:ARG:CZ	0.43	2.44	4	3
1:A:19:PHE:CE2	1:A:31:GLU:HB3	0.43	2.48	19	2
1:A:94:LYS:HE3	1:A:138:TYR:CD2	0.43	2.49	18	1
1:A:66:PRO:HB2	1:A:67:GLU:OE1	0.42	2.13	5	1
1:A:100:ILE:HD13	1:A:104:GLU:HB2	0.42	1.91	8	1
1:A:26:THR:HA	1:A:63:ILE:O	0.42	2.14	6	3
1:A:130:ILE:HG23	1:A:131:ASP:N	0.42	2.29	20	1
1:A:16:PHE:CE1	1:A:27:ILE:HG23	0.42	2.50	3	6
1:A:12:PHE:CE1	1:A:39:LEU:CD1	0.42	3.01	3	3
1:A:123:GLU:HG2	1:A:126:ARG:NH1	0.42	2.29	20	3
1:A:122:ASP:O	1:A:126:ARG:HD3	0.42	2.12	7	1
1:A:19:PHE:CE1	1:A:31:GLU:HB3	0.42	2.50	15	3
1:A:136:VAL:HG12	1:A:137:ASN:N	0.42	2.30	8	3
1:A:44:THR:O	1:A:48:LEU:HG	0.42	2.15	18	2
1:A:94:LYS:HD3	1:A:98:GLY:O	0.42	2.14	15	1
1:A:16:PHE:CE2	1:A:27:ILE:HG23	0.42	2.50	4	8
1:A:108:VAL:O	1:A:112:LEU:HD23	0.42	2.14	12	2
1:A:125:ILE:HG23	1:A:130:ILE:HD13	0.42	1.90	6	1
1:A:56:ALA:HB2	1:A:63:ILE:HA	0.42	1.91	12	1
1:A:93:ALA:HB1	1:A:100:ILE:HG13	0.42	1.91	6	1
1:A:12:PHE:HE1	1:A:39:LEU:CG	0.41	2.28	3	2
1:A:32:LEU:HD21	1:A:52:ILE:CG1	0.41	2.45	5	1
1:A:67:GLU:HA	1:A:70:THR:OG1	0.41	2.15	6	2
1:A:106:ARG:O	1:A:110:THR:OG1	0.41	2.37	9	2
1:A:109:MET:HE3	1:A:121:VAL:HG22	0.41	1.92	9	1
1:A:103:ALA:HA	1:A:106:ARG:NE	0.41	2.31	15	1
1:A:55:VAL:HG13	1:A:67:GLU:HB2	0.41	1.92	12	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:109:MET:SD	1:A:124:MET:SD	0.41	3.19	11	1
1:A:116:LEU:HD13	1:A:120:GLU:OE2	0.41	2.16	6	1
1:A:8:GLN:HG2	1:A:12:PHE:CE1	0.41	2.50	19	1
1:A:93:ALA:CB	1:A:100:ILE:HG13	0.41	2.46	6	1
1:A:11:GLU:O	1:A:14:GLU:HG3	0.41	2.16	15	1
1:A:109:MET:HG2	1:A:145:MET:SD	0.41	2.56	4	1
1:A:125:ILE:O	1:A:128:ALA:N	0.41	2.54	7	1
1:A:89:PHE:CE1	1:A:108:VAL:HG11	0.41	2.51	15	1
1:A:29:THR:HA	1:A:32:LEU:CG	0.41	2.46	9	3
1:A:27:ILE:HG13	1:A:63:ILE:CD1	0.41	2.45	11	1
1:A:109:MET:HG2	1:A:114:GLU:OE1	0.41	2.16	12	1
1:A:88:ALA:CB	1:A:112:LEU:HD21	0.41	2.45	1	2
1:A:113:GLY:HA3	1:A:116:LEU:HD13	0.41	1.93	4	1
1:A:93:ALA:O	1:A:94:LYS:HB2	0.41	2.16	8	2
1:A:55:VAL:HG11	1:A:68:PHE:N	0.41	2.31	17	1
1:A:130:ILE:HD12	1:A:136:VAL:CA	0.40	2.46	8	1
1:A:15:ALA:CB	1:A:35:VAL:HA	0.40	2.46	9	1
1:A:93:ALA:CA	1:A:100:ILE:HG21	0.40	2.46	7	1
1:A:136:VAL:CG1	1:A:137:ASN:H	0.40	2.29	15	1
1:A:27:ILE:C	1:A:63:ILE:HG12	0.40	2.36	5	1
1:A:148:LYS:HD2	1:A:148:LYS:OXT	0.40	2.16	11	1
1:A:148:LYS:HD3	1:A:148:LYS:C	0.40	2.37	18	1

## 6.3 Torsion angles [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	127/148 (86%)	111±2 (87±2%)	14±2 (11±2%)	3±1 (2±1%)	<b>8</b>	50
All	All	2540/2960 (86%)	2216 (87%)	272 (11%)	52 (2%)	<b>8</b>	50

All 11 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	130	ILE	14
1	A	94	LYS	9
1	A	89	PHE	7
1	A	115	LYS	6
1	A	100	ILE	5
1	A	136	VAL	4
1	A	20	ALA	2
1	A	129	ALA	2
1	A	96	GLY	1
1	A	131	ASP	1
1	A	113	GLY	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	106/122 (87%)	86±2 (81±2%)	20±2 (19±2%)	3	35
All	All	2120/2440 (87%)	1723 (81%)	397 (19%)	3	35

All 47 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	13	LYS	20
1	A	18	LEU	20
1	A	44	THR	20
1	A	63	ILE	20
1	A	69	LEU	20
1	A	91	VAL	20
1	A	94	LYS	20
1	A	115	LYS	20
1	A	138	TYR	20
1	A	52	ILE	18
1	A	118	ASP	17
1	A	142	VAL	16
1	A	133	ASP	15
1	A	130	ILE	13
1	A	85	ILE	11

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Mol	Chain	Res	Type	Models (Total)
1	A	112	LEU	10
1	A	30	LYS	9
1	A	106	ARG	9
1	A	99	TYR	9
1	A	145	MET	9
1	A	97	ASN	8
1	A	51	MET	7
1	A	148	LYS	7
1	A	28	THR	6
1	A	141	PHE	5
1	A	37	ARG	5
1	A	144	MET	5
1	A	39	LEU	4
1	A	41	GLN	4
1	A	137	ASN	4
1	A	48	LEU	3
1	A	126	ARG	3
1	A	70	THR	2
1	A	8	GLN	2
1	A	123	GLU	2
1	A	83	GLU	2
1	A	104	GLU	2
1	A	143	GLN	1
1	A	71	MET	1
1	A	140	GLU	1
1	A	135	GLN	1
1	A	124	MET	1
1	A	100	ILE	1
1	A	14	GLU	1
1	A	36	MET	1
1	A	43	PRO	1
1	A	47	GLU	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 59% for the well-defined parts and 59% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

Chemical shift list name: *ApoCaM1234.str*

#### 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	1140
Number of shifts mapped to atoms	1140
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

#### 7.1.2 Chemical shift referencing i

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	142	$2.59 \pm 0.07$	Should be checked
$^{13}\text{C}_\beta$	124	$2.85 \pm 0.07$	Should be checked
$^{13}\text{C}'$	0	—	None (insufficient data)
$^{15}\text{N}$	142	$0.78 \pm 0.27$	Should be applied

#### 7.1.3 Completeness of resonance assignments i

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 59%, i.e. 1004 atoms were assigned a chemical shift out of a possible 1696. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	504/645 (78%)	256/263 (97%)	124/256 (48%)	124/126 (98%)
Sidechain	500/945 (53%)	392/611 (64%)	108/304 (36%)	0/30 (0%)

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	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Aromatic	0/106 (0%)	0/52 (0%)	0/52 (0%)	0/2 (0%)
Overall	1004/1696 (59%)	648/926 (70%)	232/612 (38%)	124/158 (78%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 59%, i.e. 1140 atoms were assigned a chemical shift out of a possible 1942. 0 out of 16 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	578/747 (77%)	294/305 (96%)	142/296 (48%)	142/146 (97%)
Sidechain	562/1089 (52%)	438/700 (63%)	124/351 (35%)	0/38 (0%)
Aromatic	0/106 (0%)	0/52 (0%)	0/52 (0%)	0/2 (0%)
Overall	1140/1942 (59%)	732/1057 (69%)	266/699 (38%)	142/186 (76%)

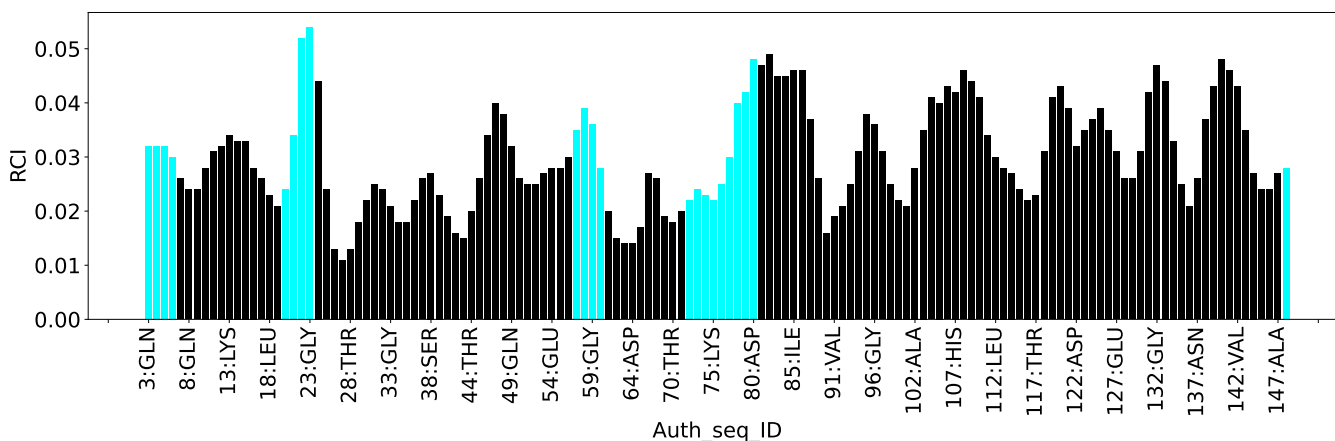
#### 7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:



## 8 NMR restraints analysis

### 8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1763
Intra-residue ( $ i-j =0$ )	968
Sequential ( $ i-j =1$ )	325
Medium range ( $ i-j >1$ and $ i-j <5$ )	246
Long range ( $ i-j \geq 5$ )	224
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	236
Number of unmapped restraints	0
Number of restraints per residue	13.5
Number of long range restraints per residue <sup>1</sup>	1.5

<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)	135.4	0.2
0.2-0.5 (Medium)	90.8	0.5
>0.5 (Large)	None	None

### 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)	28.7	4.77
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

## 9 Distance violation analysis i

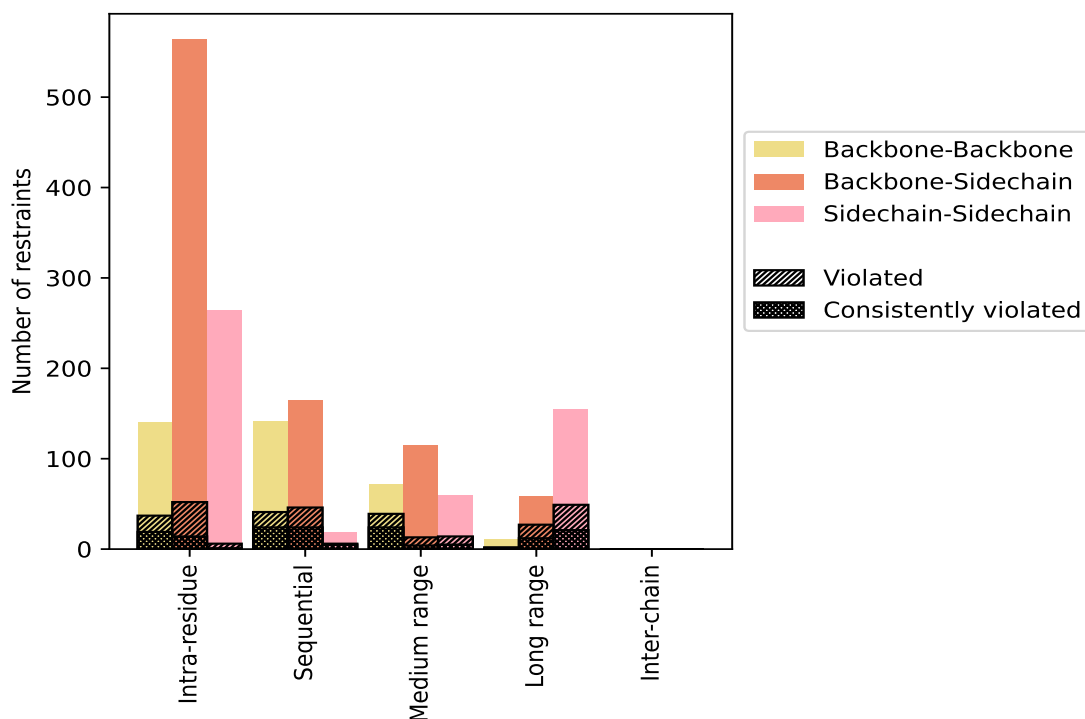
### 9.1 Summary of distance violations i

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

Restrains type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
<b>Intra-residue (<math> i-j =0</math>)</b>	<b>968</b>	<b>54.9</b>	<b>95</b>	<b>9.8</b>	<b>5.4</b>	<b>34</b>	<b>3.5</b>	<b>1.9</b>
Backbone-Backbone	140	7.9	37	26.4	2.1	19	13.6	1.1
Backbone-Sidechain	564	32.0	52	9.2	2.9	14	2.5	0.8
Sidechain-Sidechain	264	15.0	6	2.3	0.3	1	0.4	0.1
<b>Sequential (<math> i-j =1</math>)</b>	<b>325</b>	<b>18.4</b>	<b>93</b>	<b>28.6</b>	<b>5.3</b>	<b>53</b>	<b>16.3</b>	<b>3.0</b>
Backbone-Backbone	141	8.0	41	29.1	2.3	24	17.0	1.4
Backbone-Sidechain	165	9.4	46	27.9	2.6	24	14.5	1.4
Sidechain-Sidechain	19	1.1	6	31.6	0.3	5	26.3	0.3
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>246</b>	<b>14.0</b>	<b>66</b>	<b>26.8</b>	<b>3.7</b>	<b>33</b>	<b>13.4</b>	<b>1.9</b>
Backbone-Backbone	72	4.1	39	54.2	2.2	24	33.3	1.4
Backbone-Sidechain	115	6.5	13	11.3	0.7	4	3.5	0.2
Sidechain-Sidechain	59	3.3	14	23.7	0.8	5	8.5	0.3
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>224</b>	<b>12.7</b>	<b>78</b>	<b>34.8</b>	<b>4.4</b>	<b>34</b>	<b>15.2</b>	<b>1.9</b>
Backbone-Backbone	11	0.6	2	18.2	0.1	1	9.1	0.1
Backbone-Sidechain	58	3.3	27	46.6	1.5	12	20.7	0.7
Sidechain-Sidechain	155	8.8	49	31.6	2.8	21	13.5	1.2
<b>Inter-chain</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
<b>Hydrogen bond</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Disulfide bond</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total</b>	<b>1763</b>	<b>100.0</b>	<b>332</b>	<b>18.8</b>	<b>18.8</b>	<b>154</b>	<b>8.7</b>	<b>8.7</b>
Backbone-Backbone	364	20.6	119	32.7	6.7	68	18.7	3.9
Backbone-Sidechain	902	51.2	138	15.3	7.8	54	6.0	3.1
Sidechain-Sidechain	497	28.2	75	15.1	4.3	32	6.4	1.8

<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	61	76	44	49	0	230	0.21	0.49	0.09	0.18
2	57	71	48	52	0	228	0.21	0.49	0.09	0.18
3	60	72	51	54	0	237	0.2	0.49	0.09	0.18
4	56	74	50	53	0	233	0.21	0.5	0.09	0.19
5	54	76	51	54	0	235	0.21	0.49	0.09	0.18
6	61	67	50	55	0	233	0.21	0.49	0.09	0.18
7	59	72	54	56	0	241	0.21	0.5	0.09	0.19
8	63	67	49	54	0	233	0.21	0.49	0.09	0.18
9	59	76	50	54	0	239	0.2	0.49	0.09	0.18
10	56	75	47	55	0	233	0.21	0.49	0.09	0.18

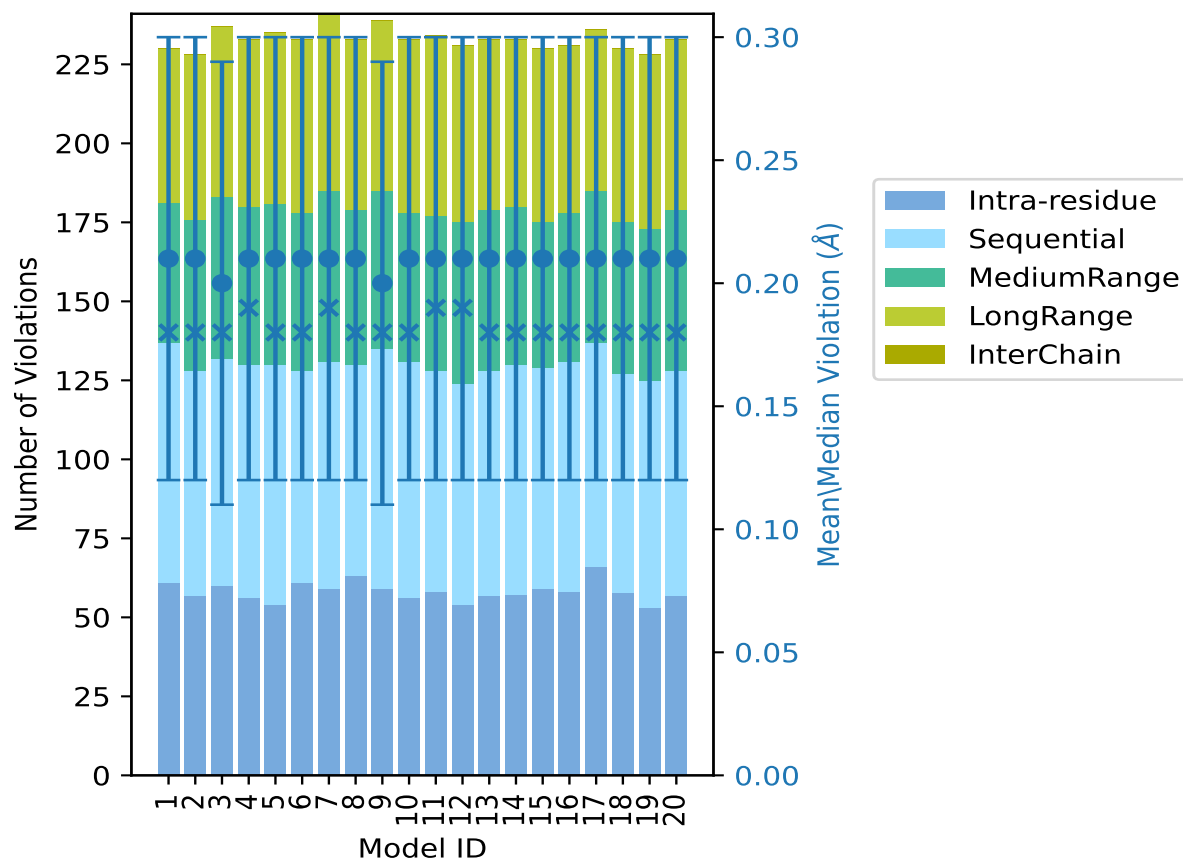
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Model ID	Number of violations					Total	Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>					
11	58	70	49	57	0	234	0.21	0.48	0.09	0.19
12	54	70	51	56	0	231	0.21	0.5	0.09	0.19
13	57	71	51	54	0	233	0.21	0.49	0.09	0.18
14	57	73	50	53	0	233	0.21	0.49	0.09	0.18
15	59	70	46	55	0	230	0.21	0.49	0.09	0.18
16	58	73	47	53	0	231	0.21	0.49	0.09	0.18
17	66	71	48	51	0	236	0.21	0.49	0.09	0.18
18	58	69	48	55	0	230	0.21	0.5	0.09	0.18
19	53	72	48	55	0	228	0.21	0.49	0.09	0.18
20	57	71	51	54	0	233	0.21	0.49	0.09	0.18

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

### 9.2.1 Bar graph : Distance Violation statistics for each model [i](#)



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

### 9.3 Distance violation statistics for the ensemble

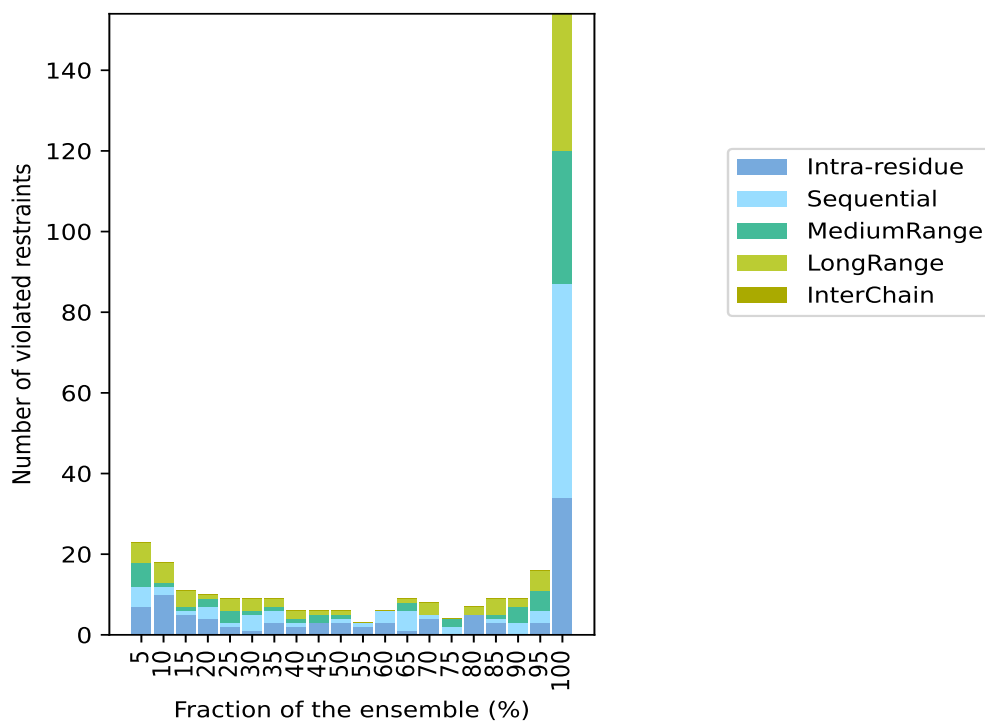
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1431(IR:873, SQ:232, MR:180, LR:146, IC:0) restraints are 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>	%
7	5	6	5	0	23	1	5.0
10	2	1	5	0	18	2	10.0
5	1	1	4	0	11	3	15.0
4	3	2	1	0	10	4	20.0
2	1	3	3	0	9	5	25.0
1	4	1	3	0	9	6	30.0
3	3	1	2	0	9	7	35.0
2	1	1	2	0	6	8	40.0
3	0	2	1	0	6	9	45.0
3	1	1	1	0	6	10	50.0
2	1	0	0	0	3	11	55.0
3	3	0	0	0	6	12	60.0
1	5	2	1	0	9	13	65.0
4	1	0	3	0	8	14	70.0
0	2	2	0	0	4	15	75.0
5	0	0	2	0	7	16	80.0
3	1	1	4	0	9	17	85.0
0	3	4	2	0	9	18	90.0
3	3	5	5	0	16	19	95.0
34	53	33	34	0	154	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



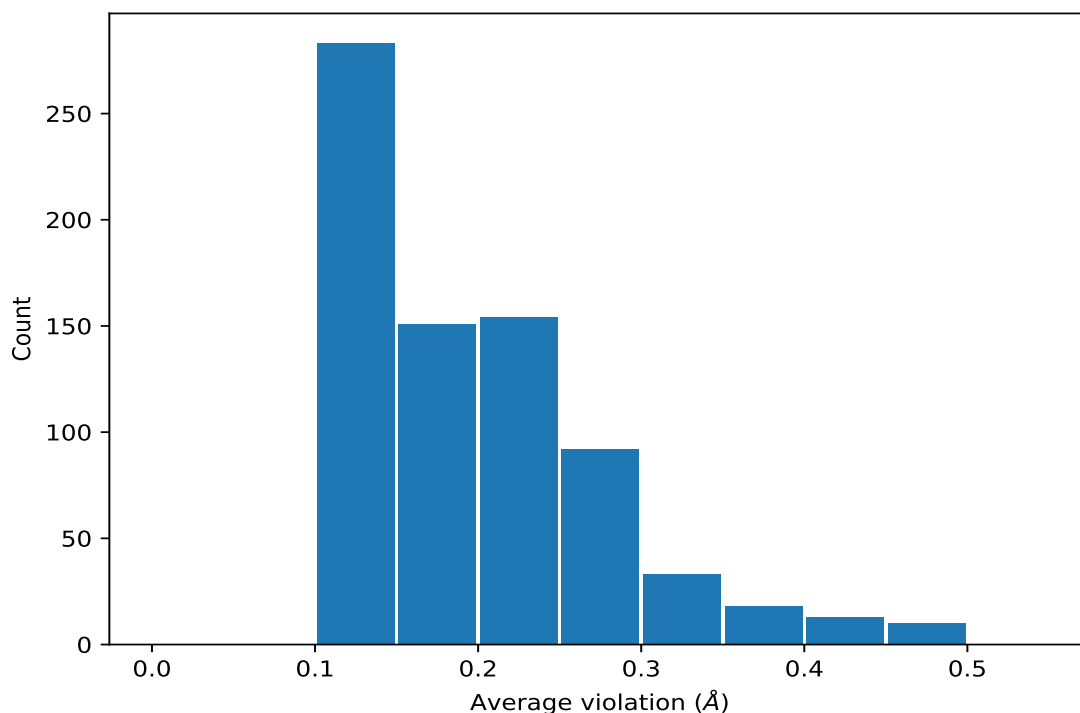
### 9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



## 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)
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	20	0.49	0.0	0.49
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	20	0.48	0.01	0.48
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	20	0.46	0.01	0.46
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	20	0.46	0.01	0.46
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	20	0.46	0.01	0.46
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	20	0.45	0.01	0.45
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	20	0.45	0.02	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	20	0.45	0.02	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	20	0.45	0.02	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	20	0.45	0.02	0.44
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	20	0.43	0.02	0.44
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	20	0.43	0.02	0.43
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	20	0.42	0.03	0.42
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	20	0.42	0.02	0.41
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	20	0.42	0.02	0.41
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	20	0.42	0.02	0.41

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	20	0.4	0.04	0.41
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	20	0.4	0.04	0.41
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	20	0.4	0.04	0.41
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	20	0.4	0.04	0.41
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	20	0.4	0.04	0.41
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	20	0.4	0.04	0.41
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	20	0.4	0.02	0.4
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	20	0.39	0.03	0.37
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	20	0.39	0.03	0.37
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	20	0.39	0.03	0.37
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	20	0.38	0.04	0.37
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	20	0.38	0.04	0.37
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	20	0.38	0.03	0.38
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	20	0.38	0.03	0.38
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	20	0.38	0.03	0.38
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	20	0.38	0.03	0.38
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	20	0.38	0.03	0.38
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	20	0.37	0.01	0.37
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	20	0.37	0.01	0.37
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	20	0.37	0.01	0.37
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	20	0.37	0.01	0.36
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	20	0.36	0.06	0.36
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	20	0.36	0.06	0.36
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	20	0.36	0.06	0.36
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	20	0.36	0.01	0.36
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	20	0.35	0.02	0.36
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	20	0.35	0.01	0.35
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	20	0.35	0.01	0.35
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	20	0.34	0.04	0.33
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	20	0.34	0.04	0.33
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	20	0.34	0.04	0.33
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	20	0.34	0.04	0.33
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	20	0.33	0.09	0.36
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	20	0.33	0.09	0.36
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	20	0.33	0.09	0.36
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	20	0.33	0.09	0.36
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	20	0.33	0.09	0.36
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	20	0.33	0.09	0.36
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	20	0.33	0.09	0.36
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	20	0.33	0.09	0.36
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	20	0.33	0.09	0.36
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	20	0.32	0.02	0.32

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	20	0.32	0.02	0.32
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	20	0.32	0.04	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	20	0.32	0.01	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	20	0.32	0.01	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	20	0.32	0.01	0.32
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	20	0.32	0.02	0.31
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	20	0.32	0.02	0.31
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	20	0.32	0.02	0.31
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	20	0.31	0.01	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	20	0.31	0.01	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	20	0.31	0.01	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	20	0.31	0.01	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	20	0.31	0.01	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	20	0.31	0.01	0.32
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	20	0.3	0.03	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	20	0.3	0.01	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	20	0.3	0.01	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	20	0.3	0.01	0.3
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	20	0.3	0.03	0.29
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	20	0.3	0.03	0.29
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	20	0.3	0.02	0.3
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	20	0.3	0.02	0.3
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	20	0.3	0.02	0.3
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	20	0.29	0.03	0.3
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	20	0.29	0.03	0.3
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	20	0.29	0.03	0.3
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	20	0.29	0.02	0.3
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	20	0.29	0.02	0.29
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	20	0.29	0.02	0.29
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	20	0.29	0.02	0.29
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	20	0.29	0.02	0.29
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	20	0.29	0.02	0.29
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	20	0.28	0.01	0.28
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	20	0.28	0.01	0.28
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	20	0.28	0.02	0.28
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	20	0.28	0.01	0.28
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	20	0.28	0.01	0.28
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	20	0.28	0.01	0.28
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	20	0.27	0.04	0.26
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	20	0.27	0.04	0.26
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	20	0.27	0.04	0.26
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	20	0.27	0.04	0.26

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	20	0.27	0.04	0.26
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	20	0.27	0.04	0.26
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	20	0.27	0.02	0.27
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	20	0.27	0.02	0.27
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	20	0.27	0.02	0.27
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	20	0.27	0.07	0.23
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	20	0.27	0.07	0.23
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	20	0.26	0.01	0.26
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	20	0.26	0.05	0.28
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	20	0.26	0.02	0.26
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	20	0.26	0.02	0.26
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	20	0.26	0.02	0.26
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	20	0.26	0.02	0.26
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	20	0.26	0.02	0.26
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	20	0.26	0.02	0.26
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	20	0.26	0.02	0.26
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	20	0.26	0.02	0.26
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	20	0.26	0.02	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	20	0.26	0.01	0.26
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	20	0.26	0.02	0.26
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	20	0.26	0.04	0.26
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	20	0.26	0.04	0.26
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	20	0.26	0.04	0.26
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	20	0.26	0.06	0.24
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	20	0.26	0.06	0.24
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	20	0.26	0.05	0.27
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	20	0.26	0.05	0.27
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	20	0.26	0.05	0.27
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	20	0.26	0.01	0.26
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	20	0.26	0.01	0.26
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	20	0.25	0.02	0.26
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	20	0.25	0.02	0.26
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	20	0.25	0.02	0.26
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	20	0.25	0.06	0.24
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	20	0.25	0.06	0.24
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	20	0.25	0.06	0.24
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	20	0.25	0.05	0.26
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	20	0.25	0.05	0.26
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	20	0.25	0.05	0.26
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	20	0.25	0.05	0.26
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	20	0.25	0.05	0.26
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	20	0.25	0.05	0.26

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	20	0.25	0.05	0.26
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	20	0.25	0.05	0.26
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	20	0.25	0.05	0.26
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	20	0.25	0.02	0.25
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	20	0.25	0.02	0.25
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	20	0.25	0.02	0.25
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	20	0.25	0.06	0.24
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	20	0.25	0.06	0.24
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	20	0.25	0.06	0.24
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	20	0.25	0.06	0.24
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	20	0.25	0.03	0.25
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	20	0.25	0.02	0.24
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	20	0.25	0.01	0.25
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	20	0.24	0.04	0.24
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	20	0.24	0.04	0.24
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	20	0.24	0.03	0.24
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	20	0.24	0.03	0.24
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	20	0.24	0.03	0.24
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	20	0.24	0.03	0.24
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	20	0.24	0.03	0.24
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	20	0.24	0.03	0.24
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	20	0.24	0.01	0.24
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	20	0.24	0.01	0.24
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	20	0.24	0.01	0.24
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	20	0.23	0.03	0.24
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	20	0.23	0.03	0.24
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	20	0.23	0.03	0.24
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	20	0.23	0.03	0.24
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	20	0.23	0.03	0.24
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	20	0.23	0.03	0.24
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	20	0.23	0.03	0.24
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	20	0.23	0.03	0.24
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	20	0.23	0.03	0.24
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	20	0.23	0.02	0.23
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	20	0.23	0.02	0.23
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	20	0.23	0.02	0.23
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	20	0.23	0.02	0.24
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	20	0.23	0.02	0.24
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	20	0.23	0.01	0.23
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	20	0.23	0.05	0.22
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	20	0.23	0.02	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	20	0.23	0.02	0.23

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	20	0.23	0.02	0.23
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	20	0.22	0.02	0.22
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	20	0.22	0.02	0.22
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	20	0.22	0.02	0.22
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	20	0.22	0.02	0.22
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	20	0.22	0.02	0.22
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	20	0.22	0.02	0.22
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	20	0.22	0.02	0.22
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	20	0.22	0.02	0.22
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	20	0.22	0.02	0.22
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	20	0.22	0.04	0.22
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	20	0.22	0.04	0.22
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	20	0.22	0.04	0.22
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	20	0.22	0.04	0.22
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	20	0.22	0.04	0.22
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	20	0.22	0.04	0.22
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	20	0.22	0.03	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	20	0.22	0.03	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	20	0.22	0.03	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	20	0.22	0.03	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	20	0.22	0.03	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	20	0.22	0.03	0.21
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	20	0.21	0.03	0.2
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	20	0.21	0.01	0.2
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	20	0.21	0.01	0.2
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	20	0.21	0.01	0.2
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	20	0.21	0.01	0.21
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	20	0.21	0.03	0.22
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	20	0.21	0.01	0.21
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	20	0.21	0.01	0.21
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	20	0.21	0.01	0.21
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	20	0.2	0.0	0.2
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	20	0.2	0.02	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	20	0.2	0.02	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	20	0.2	0.02	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	20	0.2	0.02	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	20	0.2	0.02	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	20	0.2	0.02	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	20	0.2	0.02	0.2
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	20	0.2	0.02	0.2
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	20	0.2	0.02	0.2
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	20	0.2	0.04	0.21

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	20	0.2	0.04	0.21
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	20	0.2	0.04	0.21
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	20	0.2	0.01	0.2
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	20	0.2	0.08	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	20	0.2	0.08	0.14
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	20	0.2	0.01	0.2
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	20	0.2	0.03	0.18
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	20	0.2	0.03	0.18
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	20	0.2	0.03	0.18
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	20	0.2	0.02	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	20	0.2	0.02	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	20	0.2	0.02	0.2
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	20	0.2	0.02	0.2
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	20	0.2	0.01	0.2
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	20	0.19	0.02	0.2
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	20	0.19	0.02	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	20	0.19	0.02	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	20	0.19	0.02	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	20	0.19	0.02	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	20	0.19	0.01	0.19
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	20	0.19	0.01	0.19
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	20	0.19	0.01	0.19
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	20	0.19	0.02	0.19
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	20	0.19	0.02	0.19
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	20	0.19	0.02	0.19
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	20	0.19	0.01	0.18
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	20	0.19	0.01	0.18
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	20	0.18	0.03	0.19
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	20	0.18	0.01	0.18
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	20	0.18	0.01	0.18
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	20	0.18	0.03	0.19
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	20	0.18	0.01	0.18
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	20	0.18	0.03	0.19
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	20	0.18	0.01	0.18
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	20	0.17	0.01	0.17
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	20	0.17	0.04	0.16
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	20	0.17	0.04	0.16
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	20	0.17	0.04	0.16
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	20	0.17	0.01	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	20	0.17	0.02	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	20	0.17	0.02	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	20	0.17	0.02	0.17

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	20	0.17	0.02	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	20	0.17	0.02	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	20	0.17	0.02	0.17
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	20	0.17	0.01	0.17
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	20	0.17	0.01	0.16
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	20	0.17	0.02	0.16
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	20	0.17	0.02	0.16
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	20	0.17	0.02	0.16
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	20	0.17	0.02	0.16
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	20	0.17	0.02	0.16
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	20	0.17	0.02	0.16
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	20	0.17	0.01	0.17
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	20	0.16	0.02	0.17
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	20	0.16	0.01	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	20	0.16	0.03	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	20	0.16	0.03	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	20	0.16	0.03	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	20	0.16	0.03	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	20	0.16	0.03	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	20	0.16	0.03	0.16
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	20	0.16	0.01	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	20	0.16	0.0	0.16
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	20	0.16	0.01	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	20	0.16	0.0	0.16
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	20	0.16	0.03	0.15
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	20	0.16	0.03	0.15
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	20	0.16	0.03	0.15
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	20	0.16	0.03	0.15
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	20	0.16	0.03	0.15
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	20	0.16	0.03	0.15
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	20	0.16	0.01	0.16
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	20	0.16	0.0	0.16
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	20	0.16	0.03	0.16
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	20	0.16	0.01	0.16
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	20	0.16	0.02	0.16
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	20	0.15	0.02	0.16
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	20	0.15	0.02	0.16
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	20	0.15	0.02	0.16
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	20	0.15	0.03	0.14
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	20	0.15	0.03	0.14
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	20	0.15	0.03	0.14
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	20	0.15	0.02	0.15

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	20	0.15	0.02	0.15
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	20	0.15	0.02	0.15
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	20	0.15	0.02	0.15
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	20	0.15	0.02	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	20	0.15	0.0	0.15
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	20	0.15	0.01	0.15
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	20	0.15	0.03	0.15
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	20	0.15	0.03	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	20	0.15	0.0	0.15
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	20	0.15	0.01	0.15
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	20	0.15	0.01	0.15
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	20	0.15	0.01	0.15
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	20	0.15	0.01	0.15
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	20	0.15	0.03	0.14
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	20	0.15	0.03	0.14
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	20	0.15	0.01	0.15
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	20	0.15	0.03	0.16
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	20	0.15	0.03	0.16
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	20	0.14	0.03	0.14
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	20	0.14	0.01	0.14
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	20	0.14	0.01	0.14
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	20	0.14	0.01	0.14
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	20	0.14	0.02	0.14
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	20	0.14	0.01	0.15
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	20	0.14	0.01	0.15
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	20	0.14	0.01	0.14
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	20	0.13	0.02	0.12
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	20	0.13	0.01	0.13
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	20	0.12	0.01	0.12
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	20	0.12	0.01	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	20	0.12	0.01	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	20	0.12	0.01	0.12
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	20	0.12	0.01	0.12
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	20	0.11	0.01	0.11
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	19	0.24	0.03	0.23
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	19	0.23	0.02	0.24
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	19	0.23	0.02	0.24
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	19	0.19	0.05	0.17
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	19	0.19	0.05	0.17
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	19	0.17	0.04	0.18
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	19	0.17	0.04	0.18
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	19	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)
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	19	0.17	0.05	0.17
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	19	0.17	0.05	0.17
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	19	0.17	0.05	0.17
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	19	0.17	0.05	0.17
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	19	0.17	0.05	0.17
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	19	0.17	0.05	0.17
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	19	0.17	0.05	0.16
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	19	0.17	0.05	0.16
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	19	0.17	0.05	0.16
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	19	0.17	0.05	0.16
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	19	0.17	0.05	0.16
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	19	0.17	0.05	0.16
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	19	0.17	0.01	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	19	0.17	0.01	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	19	0.17	0.01	0.17
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	19	0.17	0.02	0.17
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	19	0.17	0.02	0.17
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	19	0.17	0.02	0.17
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	19	0.17	0.02	0.17
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	19	0.16	0.03	0.17
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	19	0.16	0.03	0.15
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	19	0.16	0.03	0.15
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	19	0.16	0.03	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	19	0.15	0.03	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	19	0.15	0.03	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	19	0.15	0.03	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	19	0.15	0.03	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	19	0.15	0.03	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	19	0.15	0.03	0.15
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	19	0.15	0.02	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	19	0.14	0.01	0.15
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	19	0.14	0.02	0.14
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	19	0.14	0.02	0.12
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	19	0.13	0.01	0.14
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	18	0.22	0.04	0.22
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	18	0.18	0.06	0.15
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	18	0.18	0.06	0.15
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	18	0.18	0.06	0.15
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	18	0.18	0.06	0.15
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	18	0.17	0.03	0.18
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	18	0.17	0.03	0.18
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	18	0.17	0.03	0.18

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	18	0.17	0.03	0.18
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	18	0.17	0.03	0.18
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	18	0.17	0.03	0.18
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	18	0.15	0.02	0.15
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	18	0.14	0.01	0.14
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	18	0.14	0.01	0.14
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	18	0.12	0.01	0.12
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	18	0.12	0.01	0.12
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	18	0.12	0.01	0.12
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	18	0.12	0.01	0.12
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	18	0.12	0.01	0.12
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	17	0.21	0.02	0.22
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	17	0.21	0.02	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	17	0.21	0.02	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	17	0.21	0.02	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	17	0.21	0.02	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	17	0.21	0.02	0.22
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	17	0.19	0.01	0.19
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	17	0.18	0.03	0.19
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	17	0.18	0.03	0.19
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	17	0.18	0.03	0.19
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	17	0.15	0.04	0.14
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	17	0.15	0.04	0.14
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	17	0.15	0.04	0.14
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	17	0.15	0.04	0.14
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	17	0.14	0.02	0.14
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	17	0.14	0.02	0.14
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	17	0.14	0.02	0.14
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	17	0.14	0.02	0.14
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	17	0.13	0.02	0.13
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	17	0.13	0.02	0.13
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	17	0.12	0.01	0.12
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	17	0.12	0.01	0.12
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	17	0.12	0.01	0.12
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	17	0.12	0.01	0.12
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	17	0.12	0.01	0.12
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	17	0.12	0.01	0.12
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	17	0.12	0.02	0.11
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	17	0.12	0.02	0.11
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	16	0.2	0.01	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	16	0.2	0.01	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	16	0.2	0.01	0.19

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	16	0.2	0.01	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	16	0.2	0.01	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	16	0.2	0.01	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	16	0.2	0.01	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	16	0.2	0.01	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	16	0.2	0.01	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	16	0.19	0.03	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	16	0.19	0.03	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	16	0.19	0.03	0.19
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	16	0.19	0.01	0.18
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	16	0.17	0.04	0.17
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	16	0.17	0.04	0.17
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	16	0.16	0.02	0.16
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	16	0.14	0.03	0.15
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	16	0.14	0.03	0.15
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	16	0.14	0.03	0.15
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	16	0.12	0.01	0.12
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	15	0.16	0.01	0.16
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	15	0.14	0.02	0.13
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	15	0.14	0.02	0.13
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	15	0.13	0.01	0.13
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	15	0.13	0.01	0.13
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	15	0.12	0.02	0.13
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	14	0.21	0.04	0.21
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	14	0.21	0.04	0.21
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	14	0.21	0.04	0.21
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	14	0.17	0.02	0.16
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	14	0.16	0.05	0.14
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	14	0.16	0.05	0.14
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	14	0.16	0.05	0.14
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	14	0.16	0.05	0.14
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	14	0.16	0.05	0.14
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	14	0.16	0.05	0.14
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	14	0.15	0.01	0.16
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	14	0.13	0.01	0.14
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	14	0.13	0.01	0.14
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	14	0.13	0.01	0.14
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	14	0.12	0.01	0.11
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	14	0.12	0.01	0.11
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	14	0.12	0.01	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	14	0.12	0.02	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	14	0.12	0.02	0.11

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	14	0.11	0.0	0.11
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	14	0.11	0.0	0.11
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	13	0.21	0.03	0.23
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	13	0.21	0.03	0.23
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	13	0.15	0.03	0.14
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	13	0.15	0.03	0.14
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	13	0.15	0.04	0.14
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	13	0.15	0.04	0.14
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	13	0.15	0.04	0.14
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	13	0.15	0.04	0.14
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	13	0.15	0.04	0.14
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	13	0.15	0.04	0.14
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	13	0.15	0.04	0.14
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	13	0.15	0.04	0.14
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	13	0.15	0.04	0.14
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	13	0.15	0.02	0.15
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	13	0.15	0.03	0.15
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	13	0.15	0.03	0.15
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	13	0.15	0.03	0.15
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	13	0.14	0.01	0.15
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	13	0.14	0.01	0.15
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	13	0.14	0.01	0.15
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	13	0.13	0.01	0.12
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	13	0.13	0.01	0.12
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	13	0.11	0.01	0.11
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	13	0.11	0.01	0.11
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	13	0.11	0.01	0.11
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG2	12	0.17	0.01	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG3	12	0.17	0.01	0.17
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG11	12	0.14	0.03	0.14
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG12	12	0.14	0.03	0.14
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG13	12	0.14	0.03	0.14
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG11	12	0.14	0.03	0.14
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG12	12	0.14	0.03	0.14
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG13	12	0.14	0.03	0.14
(1,1438)	1:81:A:SER:HA	1:82:A:GLU:H	12	0.14	0.04	0.12
(1,1496)	1:47:A:GLU:HA	1:47:A:GLU:H	12	0.14	0.02	0.15
(1,1595)	1:75:A:LYS:HA	1:75:A:LYS:H	12	0.12	0.01	0.12
(1,1422)	1:97:A:ASN:HA	1:98:A:GLY:H	12	0.11	0.01	0.11
(1,1329)	1:37:A:ARG:HG2	1:37:A:ARG:H	11	0.2	0.02	0.2
(1,1329)	1:37:A:ARG:HG3	1:37:A:ARG:H	11	0.2	0.02	0.2
(1,1393)	1:51:A:MET:HE1	1:51:A:MET:H	11	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)
(1,1393)	1:51:A:MET:HE2	1:51:A:MET:H	11	0.18	0.04	0.17
(1,1393)	1:51:A:MET:HE3	1:51:A:MET:H	11	0.18	0.04	0.17
(1,1501)	1:37:A:ARG:HA	1:38:A:SER:H	11	0.11	0.01	0.11
(1,1034)	1:75:A:LYS:HD2	1:75:A:LYS:H	10	0.2	0.05	0.2
(1,1034)	1:75:A:LYS:HD3	1:75:A:LYS:H	10	0.2	0.05	0.2
(1,1736)	1:135:A:GLN:HB2	1:135:A:GLN:H	10	0.19	0.02	0.18
(1,1736)	1:135:A:GLN:HB3	1:135:A:GLN:H	10	0.19	0.02	0.18
(1,1711)	1:97:A:ASN:HB2	1:97:A:ASN:H	10	0.18	0.02	0.18
(1,1711)	1:97:A:ASN:HB3	1:97:A:ASN:H	10	0.18	0.02	0.18
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD1	10	0.14	0.03	0.13
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD2	10	0.14	0.03	0.13
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD1	10	0.14	0.03	0.13
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD2	10	0.14	0.03	0.13
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD1	10	0.14	0.03	0.13
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD2	10	0.14	0.03	0.13
(1,1442)	1:139:A:GLU:HB2	1:140:A:GLU:H	10	0.14	0.02	0.15
(1,1442)	1:139:A:GLU:HB3	1:140:A:GLU:H	10	0.14	0.02	0.15
(1,1350)	1:31:A:GLU:HA	1:34:A:THR:HA	10	0.11	0.0	0.11
(1,1626)	1:120:A:GLU:HB2	1:117:A:THR:H	9	0.14	0.04	0.12
(1,1626)	1:120:A:GLU:HB3	1:117:A:THR:H	9	0.14	0.04	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE1	9	0.13	0.02	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE2	9	0.13	0.02	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE3	9	0.13	0.02	0.12
(1,1418)	1:101:A:SER:HA	1:101:A:SER:H	9	0.13	0.02	0.13
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE1	9	0.12	0.04	0.1
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE2	9	0.12	0.04	0.1
(1,1244)	1:82:A:GLU:HA	1:85:A:ILE:H	9	0.12	0.01	0.11
(1,1533)	1:8:A:GLN:HA	1:8:A:GLN:H	9	0.11	0.01	0.11
(1,1022)	1:94:A:LYS:HE2	1:94:A:LYS:HA	8	0.26	0.04	0.28
(1,1022)	1:94:A:LYS:HE3	1:94:A:LYS:HA	8	0.26	0.04	0.28
(1,1111)	1:124:A:MET:HA	1:141:A:PHE:HZ	8	0.16	0.05	0.14
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE2	8	0.15	0.04	0.14
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE3	8	0.15	0.04	0.14
(1,1599)	1:76:A:MET:HA	1:79:A:THR:H	8	0.13	0.02	0.13
(1,83)	1:99:A:TYR:HB2	1:135:A:GLN:HA	8	0.12	0.03	0.12
(1,83)	1:99:A:TYR:HB3	1:135:A:GLN:HA	8	0.12	0.03	0.12
(1,1429)	1:82:A:GLU:HB2	1:83:A:GLU:H	8	0.12	0.01	0.12
(1,1429)	1:82:A:GLU:HB3	1:83:A:GLU:H	8	0.12	0.01	0.12
(1,1223)	1:94:A:LYS:HD2	1:94:A:LYS:HA	7	0.26	0.06	0.29
(1,1223)	1:94:A:LYS:HD3	1:94:A:LYS:HA	7	0.26	0.06	0.29
(1,1633)	1:114:A:GLU:HB2	1:115:A:LYS:H	7	0.22	0.06	0.26
(1,1633)	1:114:A:GLU:HB3	1:115:A:LYS:H	7	0.22	0.06	0.26

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG2	7	0.19	0.06	0.16
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG3	7	0.19	0.06	0.16
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG2	7	0.19	0.06	0.16
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG3	7	0.19	0.06	0.16
(1,1123)	1:112:A:LEU:HD21	1:113:A:GLY:H	7	0.16	0.04	0.17
(1,1123)	1:112:A:LEU:HD22	1:113:A:GLY:H	7	0.16	0.04	0.17
(1,1123)	1:112:A:LEU:HD23	1:113:A:GLY:H	7	0.16	0.04	0.17
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD21	7	0.15	0.05	0.14
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD22	7	0.15	0.05	0.14
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD23	7	0.15	0.05	0.14
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD21	7	0.15	0.05	0.14
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD22	7	0.15	0.05	0.14
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD23	7	0.15	0.05	0.14
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD21	7	0.15	0.05	0.14
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD22	7	0.15	0.05	0.14
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD23	7	0.15	0.05	0.14
(1,1615)	1:137:A:ASN:HB2	1:139:A:GLU:H	7	0.12	0.01	0.12
(1,1615)	1:137:A:ASN:HB3	1:139:A:GLU:H	7	0.12	0.01	0.12
(1,1752)	1:118:A:ASP:HA	1:118:A:ASP:H	7	0.11	0.01	0.11
(1,1613)	1:142:A:VAL:HG21	1:142:A:VAL:H	7	0.11	0.01	0.11
(1,1613)	1:142:A:VAL:HG22	1:142:A:VAL:H	7	0.11	0.01	0.11
(1,1613)	1:142:A:VAL:HG23	1:142:A:VAL:H	7	0.11	0.01	0.11
(1,1139)	1:54:A:GLU:HA	1:55:A:VAL:H	7	0.11	0.0	0.11
(1,1402)	1:115:A:LYS:HG2	1:115:A:LYS:H	6	0.23	0.03	0.24
(1,1402)	1:115:A:LYS:HG3	1:115:A:LYS:H	6	0.23	0.03	0.24
(1,605)	1:114:A:GLU:HA	1:115:A:LYS:HA	6	0.15	0.03	0.13
(1,1051)	1:85:A:ILE:HG21	1:82:A:GLU:HA	6	0.14	0.02	0.14
(1,1051)	1:85:A:ILE:HG22	1:82:A:GLU:HA	6	0.14	0.02	0.14
(1,1051)	1:85:A:ILE:HG23	1:82:A:GLU:HA	6	0.14	0.02	0.14
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE1	6	0.12	0.01	0.12
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE2	6	0.12	0.01	0.12
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE3	6	0.12	0.01	0.12
(1,1121)	1:115:A:LYS:HA	1:116:A:LEU:H	6	0.12	0.01	0.12
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB2	6	0.11	0.01	0.11
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB3	6	0.11	0.01	0.11
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB2	6	0.11	0.01	0.11
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB3	6	0.11	0.01	0.11
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB2	6	0.11	0.01	0.11
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB3	6	0.11	0.01	0.11
(1,1619)	1:127:A:GLU:HB2	1:128:A:ALA:H	6	0.11	0.01	0.11
(1,1619)	1:127:A:GLU:HB3	1:128:A:ALA:H	6	0.11	0.01	0.11
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG12	6	0.1	0.0	0.11

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG13	6	0.1	0.0	0.11
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG12	6	0.1	0.0	0.11
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG13	6	0.1	0.0	0.11
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG12	6	0.1	0.0	0.11
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG13	6	0.1	0.0	0.11
(1,1193)	1:18:A:LEU:HD11	1:19:A:PHE:H	6	0.1	0.01	0.1
(1,1193)	1:18:A:LEU:HD12	1:19:A:PHE:H	6	0.1	0.01	0.1
(1,1193)	1:18:A:LEU:HD13	1:19:A:PHE:H	6	0.1	0.01	0.1
(1,1193)	1:18:A:LEU:HD21	1:19:A:PHE:H	6	0.1	0.01	0.1
(1,1193)	1:18:A:LEU:HD22	1:19:A:PHE:H	6	0.1	0.01	0.1
(1,1193)	1:18:A:LEU:HD23	1:19:A:PHE:H	6	0.1	0.01	0.1
(1,1712)	1:97:A:ASN:HB2	1:99:A:TYR:HD1	5	0.16	0.04	0.17
(1,1712)	1:97:A:ASN:HB2	1:99:A:TYR:HD2	5	0.16	0.04	0.17
(1,1712)	1:97:A:ASN:HB3	1:99:A:TYR:HD1	5	0.16	0.04	0.17
(1,1712)	1:97:A:ASN:HB3	1:99:A:TYR:HD2	5	0.16	0.04	0.17
(1,1284)	1:130:A:ILE:HB	1:131:A:ASP:H	5	0.15	0.03	0.12
(1,1451)	1:131:A:ASP:HA	1:131:A:ASP:H	5	0.14	0.02	0.13
(1,1306)	1:113:A:GLY:HA2	1:115:A:LYS:H	5	0.13	0.02	0.13
(1,1306)	1:113:A:GLY:HA3	1:115:A:LYS:H	5	0.13	0.02	0.13
(1,1068)	1:75:A:LYS:HB2	1:75:A:LYS:HE2	5	0.13	0.02	0.12
(1,1068)	1:75:A:LYS:HB2	1:75:A:LYS:HE3	5	0.13	0.02	0.12
(1,1068)	1:75:A:LYS:HB3	1:75:A:LYS:HE2	5	0.13	0.02	0.12
(1,1068)	1:75:A:LYS:HB3	1:75:A:LYS:HE3	5	0.13	0.02	0.12
(1,652)	1:104:A:GLU:HB2	1:92:A:PHE:HE1	5	0.12	0.02	0.12
(1,652)	1:104:A:GLU:HB2	1:92:A:PHE:HE2	5	0.12	0.02	0.12
(1,652)	1:104:A:GLU:HB3	1:92:A:PHE:HE1	5	0.12	0.02	0.12
(1,652)	1:104:A:GLU:HB3	1:92:A:PHE:HE2	5	0.12	0.02	0.12
(1,1706)	1:99:A:TYR:HA	1:138:A:TYR:HD1	5	0.12	0.02	0.11
(1,1706)	1:99:A:TYR:HA	1:138:A:TYR:HD2	5	0.12	0.02	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG21	5	0.11	0.0	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG22	5	0.11	0.0	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG23	5	0.11	0.0	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG21	5	0.11	0.0	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG22	5	0.11	0.0	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG23	5	0.11	0.0	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG21	5	0.11	0.0	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG22	5	0.11	0.0	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG23	5	0.11	0.0	0.11
(1,1452)	1:131:A:ASP:HA	1:134:A:GLY:H	5	0.11	0.01	0.11
(1,1560)	1:94:A:LYS:HA	1:96:A:GLY:H	4	0.29	0.02	0.29
(1,1336)	1:21:A:LYS:HE2	1:21:A:LYS:HB2	4	0.22	0.02	0.22
(1,1336)	1:21:A:LYS:HE2	1:21:A:LYS:HB3	4	0.22	0.02	0.22

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1336)	1:21:A:LYS:HE3	1:21:A:LYS:HB2	4	0.22	0.02	0.22
(1,1336)	1:21:A:LYS:HE3	1:21:A:LYS:HB3	4	0.22	0.02	0.22
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD11	4	0.2	0.02	0.2
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD12	4	0.2	0.02	0.2
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD13	4	0.2	0.02	0.2
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD11	4	0.2	0.02	0.2
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD12	4	0.2	0.02	0.2
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD13	4	0.2	0.02	0.2
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD11	4	0.2	0.02	0.2
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD12	4	0.2	0.02	0.2
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD13	4	0.2	0.02	0.2
(1,1556)	1:145:A:MET:HG2	1:145:A:MET:H	4	0.15	0.04	0.14
(1,1556)	1:145:A:MET:HG3	1:145:A:MET:H	4	0.15	0.04	0.14
(1,568)	1:142:A:VAL:HA	1:145:A:MET:HA	4	0.13	0.02	0.13
(1,1037)	1:75:A:LYS:HD2	1:75:A:LYS:HA	4	0.13	0.03	0.12
(1,1037)	1:75:A:LYS:HD3	1:75:A:LYS:HA	4	0.13	0.03	0.12
(1,1651)	1:36:A:MET:HB2	1:37:A:ARG:H	4	0.13	0.02	0.13
(1,1651)	1:36:A:MET:HB3	1:37:A:ARG:H	4	0.13	0.02	0.13
(1,1724)	1:74:A:ARG:HB2	1:75:A:LYS:H	4	0.12	0.0	0.12
(1,1724)	1:74:A:ARG:HB3	1:75:A:LYS:H	4	0.12	0.0	0.12
(1,1698)	1:106:A:ARG:HG2	1:106:A:ARG:H	4	0.11	0.0	0.11
(1,1698)	1:106:A:ARG:HG3	1:106:A:ARG:H	4	0.11	0.0	0.11
(1,1108)	1:124:A:MET:HA	1:125:A:ILE:H	4	0.11	0.0	0.11
(1,1621)	1:126:A:ARG:HB2	1:127:A:GLU:H	3	0.33	0.0	0.33
(1,1621)	1:126:A:ARG:HB3	1:127:A:GLU:H	3	0.33	0.0	0.33
(1,1337)	1:21:A:LYS:HE2	1:21:A:LYS:HA	3	0.28	0.01	0.28
(1,1337)	1:21:A:LYS:HE3	1:21:A:LYS:HA	3	0.28	0.01	0.28
(1,1151)	1:39:A:LEU:HB2	1:12:A:PHE:HE1	3	0.24	0.0	0.24
(1,1151)	1:39:A:LEU:HB2	1:12:A:PHE:HE2	3	0.24	0.0	0.24
(1,1151)	1:39:A:LEU:HB3	1:12:A:PHE:HE1	3	0.24	0.0	0.24
(1,1151)	1:39:A:LEU:HB3	1:12:A:PHE:HE2	3	0.24	0.0	0.24
(1,855)	1:129:A:ALA:HB1	1:136:A:VAL:HG21	3	0.2	0.02	0.21
(1,855)	1:129:A:ALA:HB1	1:136:A:VAL:HG22	3	0.2	0.02	0.21
(1,855)	1:129:A:ALA:HB1	1:136:A:VAL:HG23	3	0.2	0.02	0.21
(1,855)	1:129:A:ALA:HB2	1:136:A:VAL:HG21	3	0.2	0.02	0.21
(1,855)	1:129:A:ALA:HB2	1:136:A:VAL:HG22	3	0.2	0.02	0.21
(1,855)	1:129:A:ALA:HB2	1:136:A:VAL:HG23	3	0.2	0.02	0.21
(1,855)	1:129:A:ALA:HB3	1:136:A:VAL:HG21	3	0.2	0.02	0.21
(1,855)	1:129:A:ALA:HB3	1:136:A:VAL:HG22	3	0.2	0.02	0.21
(1,855)	1:129:A:ALA:HB3	1:136:A:VAL:HG23	3	0.2	0.02	0.21
(1,448)	1:63:A:ILE:HD11	1:71:A:MET:HE1	3	0.2	0.06	0.24
(1,448)	1:63:A:ILE:HD11	1:71:A:MET:HE2	3	0.2	0.06	0.24

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,448)	1:63:A:ILE:HD11	1:71:A:MET:HE3	3	0.2	0.06	0.24
(1,448)	1:63:A:ILE:HD12	1:71:A:MET:HE1	3	0.2	0.06	0.24
(1,448)	1:63:A:ILE:HD12	1:71:A:MET:HE2	3	0.2	0.06	0.24
(1,448)	1:63:A:ILE:HD12	1:71:A:MET:HE3	3	0.2	0.06	0.24
(1,448)	1:63:A:ILE:HD13	1:71:A:MET:HE1	3	0.2	0.06	0.24
(1,448)	1:63:A:ILE:HD13	1:71:A:MET:HE2	3	0.2	0.06	0.24
(1,448)	1:63:A:ILE:HD13	1:71:A:MET:HE3	3	0.2	0.06	0.24
(1,1122)	1:112:A:LEU:HD21	1:112:A:LEU:H	3	0.18	0.01	0.17
(1,1122)	1:112:A:LEU:HD22	1:112:A:LEU:H	3	0.18	0.01	0.17
(1,1122)	1:112:A:LEU:HD23	1:112:A:LEU:H	3	0.18	0.01	0.17
(1,1653)	1:21:A:LYS:HD2	1:21:A:LYS:H	3	0.16	0.01	0.15
(1,1653)	1:21:A:LYS:HD3	1:21:A:LYS:H	3	0.16	0.01	0.15
(1,582)	1:130:A:ILE:HD11	1:135:A:GLN:HB2	3	0.14	0.05	0.12
(1,582)	1:130:A:ILE:HD11	1:135:A:GLN:HB3	3	0.14	0.05	0.12
(1,582)	1:130:A:ILE:HD12	1:135:A:GLN:HB2	3	0.14	0.05	0.12
(1,582)	1:130:A:ILE:HD12	1:135:A:GLN:HB3	3	0.14	0.05	0.12
(1,582)	1:130:A:ILE:HD13	1:135:A:GLN:HB2	3	0.14	0.05	0.12
(1,582)	1:130:A:ILE:HD13	1:135:A:GLN:HB3	3	0.14	0.05	0.12
(1,1559)	1:94:A:LYS:HA	1:94:A:LYS:H	3	0.14	0.03	0.13
(1,1695)	1:106:A:ARG:HD2	1:106:A:ARG:H	3	0.13	0.04	0.11
(1,1695)	1:106:A:ARG:HD3	1:106:A:ARG:H	3	0.13	0.04	0.11
(1,206)	1:94:A:LYS:HB2	1:91:A:VAL:HA	3	0.12	0.02	0.12
(1,206)	1:94:A:LYS:HB3	1:91:A:VAL:HA	3	0.12	0.02	0.12
(1,1000)	1:148:A:LYS:HD2	1:148:A:LYS:HA	2	0.25	0.03	0.25
(1,1000)	1:148:A:LYS:HD3	1:148:A:LYS:HA	2	0.25	0.03	0.25
(1,645)	1:147:A:ALA:HA	1:148:A:LYS:HA	2	0.24	0.0	0.24
(1,1283)	1:130:A:ILE:HB	1:130:A:ILE:H	2	0.2	0.02	0.2
(1,1616)	1:137:A:ASN:HB2	1:137:A:ASN:H	2	0.18	0.04	0.18
(1,1616)	1:137:A:ASN:HB3	1:137:A:ASN:H	2	0.18	0.04	0.18
(1,1222)	1:94:A:LYS:HD2	1:94:A:LYS:H	2	0.16	0.04	0.16
(1,1222)	1:94:A:LYS:HD3	1:94:A:LYS:H	2	0.16	0.04	0.16
(1,1421)	1:97:A:ASN:HA	1:97:A:ASN:H	2	0.16	0.03	0.16
(1,1219)	1:124:A:MET:HG2	1:124:A:MET:H	2	0.14	0.03	0.14
(1,1219)	1:124:A:MET:HG3	1:124:A:MET:H	2	0.14	0.03	0.14
(1,1276)	1:136:A:VAL:HG21	1:141:A:PHE:HE1	2	0.14	0.03	0.14
(1,1276)	1:136:A:VAL:HG21	1:141:A:PHE:HE2	2	0.14	0.03	0.14
(1,1276)	1:136:A:VAL:HG22	1:141:A:PHE:HE1	2	0.14	0.03	0.14
(1,1276)	1:136:A:VAL:HG22	1:141:A:PHE:HE2	2	0.14	0.03	0.14
(1,1276)	1:136:A:VAL:HG23	1:141:A:PHE:HE1	2	0.14	0.03	0.14
(1,1276)	1:136:A:VAL:HG23	1:141:A:PHE:HE2	2	0.14	0.03	0.14
(1,686)	1:144:A:MET:HE1	1:126:A:ARG:HD2	2	0.14	0.01	0.14
(1,686)	1:144:A:MET:HE1	1:126:A:ARG:HD3	2	0.14	0.01	0.14

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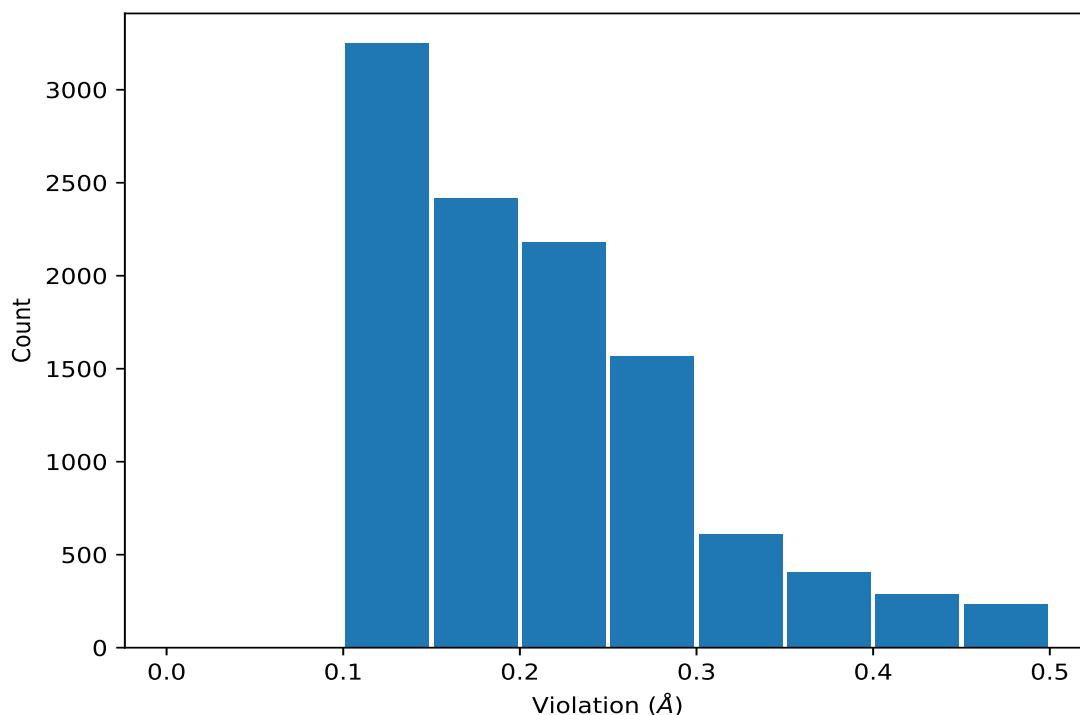
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,686)	1:144:A:MET:HE2	1:126:A:ARG:HD2	2	0.14	0.01	0.14
(1,686)	1:144:A:MET:HE2	1:126:A:ARG:HD3	2	0.14	0.01	0.14
(1,686)	1:144:A:MET:HE3	1:126:A:ARG:HD2	2	0.14	0.01	0.14
(1,686)	1:144:A:MET:HE3	1:126:A:ARG:HD3	2	0.14	0.01	0.14
(1,147)	1:145:A:MET:HE1	1:86:A:ARG:HG2	2	0.14	0.02	0.14
(1,147)	1:145:A:MET:HE1	1:86:A:ARG:HG3	2	0.14	0.02	0.14
(1,147)	1:145:A:MET:HE2	1:86:A:ARG:HG2	2	0.14	0.02	0.14
(1,147)	1:145:A:MET:HE2	1:86:A:ARG:HG3	2	0.14	0.02	0.14
(1,147)	1:145:A:MET:HE3	1:86:A:ARG:HG2	2	0.14	0.02	0.14
(1,147)	1:145:A:MET:HE3	1:86:A:ARG:HG3	2	0.14	0.02	0.14
(1,1358)	1:21:A:LYS:HB2	1:22:A:ASP:H	2	0.13	0.0	0.13
(1,1358)	1:21:A:LYS:HB3	1:22:A:ASP:H	2	0.13	0.0	0.13
(1,209)	1:105:A:LEU:HD11	1:138:A:TYR:HA	2	0.12	0.02	0.12
(1,209)	1:105:A:LEU:HD12	1:138:A:TYR:HA	2	0.12	0.02	0.12
(1,209)	1:105:A:LEU:HD13	1:138:A:TYR:HA	2	0.12	0.02	0.12
(1,1416)	1:101:A:SER:HA	1:136:A:VAL:H	2	0.12	0.02	0.12
(1,1506)	1:37:A:ARG:HA	1:37:A:ARG:HD2	2	0.12	0.01	0.12
(1,1506)	1:37:A:ARG:HA	1:37:A:ARG:HD3	2	0.12	0.01	0.12
(1,1551)	1:63:A:ILE:HB	1:63:A:ILE:HA	2	0.11	0.0	0.11
(1,1666)	1:17:A:SER:HA	1:20:A:ALA:H	2	0.11	0.0	0.11
(1,1746)	1:130:A:ILE:HA	1:130:A:ILE:H	2	0.11	0.0	0.11
(1,978)	1:62:A:THR:HG21	1:62:A:THR:H	2	0.1	0.0	0.1
(1,978)	1:62:A:THR:HG22	1:62:A:THR:H	2	0.1	0.0	0.1
(1,978)	1:62:A:THR:HG23	1:62:A:THR: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)
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	12	0.5
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	4	0.5
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	7	0.5
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	18	0.5
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	1	0.49
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	6	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	1	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	2	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	3	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	5	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	6	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	8	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	9	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	10	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	12	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	13	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	14	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	15	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	16	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	17	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	19	0.49
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	20	0.49
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	20	0.49
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	20	0.49
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	5	0.48
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	5	0.48
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	5	0.48
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	11	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	2	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	3	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	5	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	7	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	8	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	9	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	10	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	13	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	14	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	16	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	17	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	18	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	19	0.48
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	20	0.48
(1,1515)	1:34:A:THR:HA	1:35:A:VAL:H	11	0.48
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	11	0.48
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	11	0.48
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	11	0.48
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	11	0.48
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	4	0.48
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	4	0.48
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	4	0.48
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	6	0.47
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	6	0.47
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	6	0.47
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	6	0.47
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	6	0.47
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	6	0.47
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	4	0.47
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	11	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	15	0.47
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	18	0.47
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	1	0.47
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	1	0.47
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	1	0.47
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	1	0.47
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	3	0.47
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	3	0.47
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	3	0.47
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	3	0.47
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	19	0.47
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	19	0.47
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	19	0.47
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	19	0.47
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	9	0.47
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	9	0.47
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	2	0.47
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	2	0.47
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	2	0.47
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	5	0.47
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	5	0.47
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	5	0.47
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	7	0.47
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	7	0.47
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	7	0.47
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	9	0.47
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	9	0.47
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	9	0.47
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	16	0.47
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	16	0.47
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	16	0.47
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	18	0.47
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	18	0.47
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	18	0.47
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	20	0.47
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	20	0.47
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	20	0.47
(1,1545)	1:67:A:GLU:HA	1:68:A:PHE:H	12	0.46
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	2	0.46
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	4	0.46
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	6	0.46
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	7	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	10	0.46
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	7	0.46
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	9	0.46
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	1	0.46
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	1	0.46
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	1	0.46
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	3	0.46
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	3	0.46
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	3	0.46
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	10	0.46
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	10	0.46
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	10	0.46
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	12	0.46
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	12	0.46
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	12	0.46
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	13	0.46
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	13	0.46
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	13	0.46
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	14	0.46
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	14	0.46
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	14	0.46
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	17	0.46
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	17	0.46
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	17	0.46
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	19	0.46
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	19	0.46
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	19	0.46
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	1	0.45
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	1	0.45
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	1	0.45
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	1	0.45
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	1	0.45
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	1	0.45
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	8	0.45
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	8	0.45
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	8	0.45
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	8	0.45
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	8	0.45
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	8	0.45
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	13	0.45
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	13	0.45
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	12	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	12	0.45
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	12	0.45
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	5	0.45
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	5	0.45
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	5	0.45
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	6	0.45
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	6	0.45
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	6	0.45
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	13	0.45
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	13	0.45
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	13	0.45
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	1	0.45
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	3	0.45
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	5	0.45
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	8	0.45
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	9	0.45
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	12	0.45
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	13	0.45
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	14	0.45
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	15	0.45
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	16	0.45
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	17	0.45
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	19	0.45
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	20	0.45
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	11	0.45
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	14	0.45
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	5	0.45
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	5	0.45
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	5	0.45
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	14	0.45
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	14	0.45
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	14	0.45
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	7	0.45
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	7	0.45
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	7	0.45
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	7	0.45
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	10	0.45
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	10	0.45
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	10	0.45
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	10	0.45
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	12	0.45
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	12	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	12	0.45
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	12	0.45
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	13	0.45
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	13	0.45
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	13	0.45
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	13	0.45
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	16	0.45
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	16	0.45
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	16	0.45
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	16	0.45
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	18	0.45
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	18	0.45
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	18	0.45
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	18	0.45
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	5	0.45
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	6	0.45
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	15	0.45
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	16	0.45
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	6	0.45
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	6	0.45
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	6	0.45
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	8	0.45
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	8	0.45
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	8	0.45
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	11	0.45
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	11	0.45
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	11	0.45
(1,1113)	1:125:A:ILE:HD11	1:125:A:ILE:HA	15	0.45
(1,1113)	1:125:A:ILE:HD12	1:125:A:ILE:HA	15	0.45
(1,1113)	1:125:A:ILE:HD13	1:125:A:ILE:HA	15	0.45
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	8	0.45
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	8	0.45
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	8	0.45
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	8	0.45
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	8	0.45
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	8	0.45
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	8	0.45
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	8	0.45
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	8	0.45
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	20	0.45
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	20	0.45
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	20	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	20	0.45
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	20	0.45
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	20	0.45
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	20	0.45
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	20	0.45
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	20	0.45
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	18	0.44
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	18	0.44
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	18	0.44
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	18	0.44
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	18	0.44
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	18	0.44
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	16	0.44
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	16	0.44
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	16	0.44
(1,1488)	1:53:A:ASN:HA	1:54:A:GLU:H	11	0.44
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	1	0.44
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	2	0.44
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	18	0.44
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	13	0.44
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	13	0.44
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	13	0.44
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	15	0.44
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	15	0.44
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	15	0.44
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	18	0.44
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	18	0.44
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	18	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	2	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	2	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	2	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	2	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	4	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	4	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	4	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	4	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	6	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	6	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	6	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	6	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	9	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	9	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	9	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	9	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	14	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	14	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	14	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	14	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	17	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	17	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	17	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	17	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	20	0.44
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	20	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	20	0.44
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	20	0.44
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	4	0.44
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	7	0.44
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	9	0.44
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	10	0.44
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	18	0.44
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	20	0.44
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	10	0.43
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	10	0.43
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	10	0.43
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	10	0.43
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	10	0.43
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	10	0.43
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	15	0.43
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	15	0.43
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	15	0.43
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	15	0.43
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	15	0.43
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	15	0.43
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	17	0.43
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	17	0.43
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	17	0.43
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	17	0.43
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	17	0.43
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	17	0.43
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	7	0.43
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	8	0.43
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	15	0.43
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	16	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	11	0.43
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	13	0.43
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	14	0.43
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	3	0.43
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	4	0.43
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	5	0.43
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	12	0.43
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	4	0.43
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	4	0.43
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	4	0.43
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	10	0.43
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	10	0.43
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	10	0.43
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	11	0.43
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	11	0.43
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	11	0.43
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	12	0.43
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	12	0.43
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	2	0.43
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	8	0.43
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	13	0.43
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	17	0.43
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	19	0.43
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	19	0.43
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	19	0.43
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	19	0.43
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	19	0.43
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	19	0.43
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	19	0.43
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	19	0.43
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	19	0.43
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	5	0.43
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	5	0.43
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	2	0.42
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	2	0.42
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	2	0.42
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	2	0.42
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	2	0.42
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	2	0.42
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	14	0.42
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	14	0.42
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	14	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	14	0.42
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	14	0.42
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	14	0.42
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	2	0.42
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	6	0.42
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	9	0.42
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	17	0.42
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	18	0.42
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	19	0.42
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	5	0.42
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	6	0.42
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	15	0.42
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	16	0.42
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	17	0.42
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	20	0.42
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	19	0.42
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	19	0.42
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	19	0.42
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	5	0.42
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	5	0.42
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	5	0.42
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	5	0.42
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	8	0.42
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	8	0.42
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	8	0.42
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	8	0.42
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	1	0.42
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	1	0.42
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	12	0.42
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	14	0.42
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	19	0.42
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	3	0.42
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	3	0.42
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	3	0.42
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	3	0.42
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	3	0.42
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	3	0.42
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	3	0.42
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	3	0.42
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	3	0.42
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	4	0.42
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	4	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	4	0.42
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	15	0.42
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	15	0.42
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	15	0.42
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	13	0.41
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	13	0.41
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	13	0.41
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	13	0.41
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	13	0.41
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	13	0.41
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	16	0.41
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	16	0.41
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	16	0.41
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	16	0.41
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	16	0.41
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	16	0.41
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	19	0.41
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	19	0.41
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	19	0.41
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	19	0.41
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	19	0.41
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	19	0.41
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	19	0.41
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	19	0.41
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	19	0.41
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	20	0.41
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	20	0.41
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	20	0.41
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	1	0.41
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	3	0.41
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	13	0.41
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	20	0.41
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	3	0.41
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	3	0.41
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	3	0.41
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	3	0.41
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	3	0.41
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	3	0.41
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	3	0.41
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	4	0.41
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	10	0.41
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	8	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	10	0.41
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	13	0.41
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	2	0.41
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	2	0.41
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	2	0.41
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	6	0.41
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	6	0.41
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	6	0.41
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	7	0.41
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	7	0.41
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	7	0.41
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	9	0.41
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	9	0.41
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	9	0.41
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB2	15	0.41
(1,1282)	1:134:A:GLY:HA2	1:133:A:ASP:HB3	15	0.41
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB2	15	0.41
(1,1282)	1:134:A:GLY:HA3	1:133:A:ASP:HB3	15	0.41
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	7	0.41
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	7	0.41
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	14	0.41
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	14	0.41
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	11	0.41
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	1	0.41
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	1	0.41
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	7	0.41
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	7	0.41
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	8	0.41
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	8	0.41
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	17	0.41
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	17	0.41
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	6	0.4
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	6	0.4
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	6	0.4
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	5	0.4
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	10	0.4
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	19	0.4
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	19	0.4
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	19	0.4
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	1	0.4
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	1	0.4
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	1	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	1	0.4
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	9	0.4
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	9	0.4
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	9	0.4
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	9	0.4
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	16	0.4
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	16	0.4
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	16	0.4
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	16	0.4
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	1	0.4
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	3	0.4
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	6	0.4
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	7	0.4
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	17	0.4
(1,1446)	1:144:A:MET:HA	1:145:A:MET:H	19	0.4
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	1	0.4
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	1	0.4
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	1	0.4
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	12	0.4
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	12	0.4
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	12	0.4
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	2	0.4
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	2	0.4
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	5	0.4
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	5	0.4
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	11	0.4
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	11	0.4
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	3	0.4
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	6	0.4
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	12	0.4
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	6	0.4
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	6	0.4
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	8	0.4
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	8	0.4
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	8	0.4
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	10	0.4
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	10	0.4
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	13	0.4
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	13	0.4
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	15	0.4
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	15	0.4
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	16	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	16	0.4
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	16	0.4
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	6	0.39
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	10	0.39
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	10	0.39
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	10	0.39
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	4	0.39
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	18	0.39
(1,1579)	1:85:A:ILE:HD11	1:86:A:ARG:H	13	0.39
(1,1579)	1:85:A:ILE:HD12	1:86:A:ARG:H	13	0.39
(1,1579)	1:85:A:ILE:HD13	1:86:A:ARG:H	13	0.39
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	14	0.39
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	7	0.39
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	7	0.39
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	7	0.39
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	17	0.39
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	17	0.39
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	17	0.39
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	20	0.39
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	20	0.39
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	20	0.39
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	20	0.39
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	9	0.39
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	15	0.39
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	16	0.39
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	19	0.39
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	3	0.39
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	3	0.39
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	3	0.39
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	8	0.39
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	8	0.39
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	8	0.39
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	16	0.39
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	16	0.39
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	16	0.39
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	17	0.39
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	17	0.39
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	17	0.39
(1,1169)	1:33:A:GLY:HA3	1:36:A:MET:H	1	0.39
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	16	0.39
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	16	0.39
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	16	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	16	0.39
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	16	0.39
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	16	0.39
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	16	0.39
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	16	0.39
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	16	0.39
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	6	0.39
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	6	0.39
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	11	0.39
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	11	0.39
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	1	0.39
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	1	0.39
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	1	0.39
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	6	0.39
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	6	0.39
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	6	0.39
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	8	0.39
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	8	0.39
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	8	0.39
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	9	0.39
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	9	0.39
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	9	0.39
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	19	0.39
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	19	0.39
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	19	0.39
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	20	0.39
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	20	0.39
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	20	0.39
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	3	0.38
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	3	0.38
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	3	0.38
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	3	0.38
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	3	0.38
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	3	0.38
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	6	0.38
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	6	0.38
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	11	0.38
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	11	0.38
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	11	0.38
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	11	0.38
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	11	0.38
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	11	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	3	0.38
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	8	0.38
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	9	0.38
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	16	0.38
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	4	0.38
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	4	0.38
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	4	0.38
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	6	0.38
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	12	0.38
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	16	0.38
(1,1549)	1:63:A:ILE:HB	1:64:A:ASP:H	4	0.38
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	15	0.38
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	15	0.38
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	15	0.38
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	19	0.38
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	19	0.38
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	19	0.38
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	19	0.38
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	8	0.38
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	12	0.38
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	18	0.38
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	20	0.38
(1,1392)	1:56:A:ALA:HB1	1:63:A:ILE:HB	20	0.38
(1,1392)	1:56:A:ALA:HB2	1:63:A:ILE:HB	20	0.38
(1,1392)	1:56:A:ALA:HB3	1:63:A:ILE:HB	20	0.38
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	10	0.38
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	10	0.38
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	6	0.38
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	6	0.38
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	7	0.38
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	11	0.38
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	11	0.38
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	2	0.38
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	2	0.38
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	2	0.38
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	15	0.38
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	15	0.38
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	15	0.38
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	17	0.38
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	17	0.38
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	17	0.38
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	1	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	1	0.38
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	1	0.38
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	1	0.38
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	1	0.38
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	1	0.38
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	1	0.38
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	1	0.38
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	1	0.38
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	13	0.38
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	13	0.38
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	13	0.38
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	13	0.38
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	13	0.38
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	13	0.38
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	13	0.38
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	13	0.38
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	13	0.38
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	17	0.38
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	17	0.38
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	17	0.38
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	17	0.38
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	17	0.38
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	17	0.38
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	17	0.38
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	17	0.38
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	17	0.38
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	18	0.38
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	18	0.38
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	18	0.38
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	18	0.38
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	18	0.38
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	18	0.38
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	18	0.38
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	18	0.38
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	18	0.38
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	11	0.38
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	11	0.38
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	11	0.38
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	19	0.38
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	19	0.38
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	19	0.38
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	4	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	4	0.38
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	9	0.38
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	9	0.38
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	12	0.38
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	12	0.38
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	2	0.38
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	2	0.38
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	2	0.38
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	3	0.38
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	3	0.38
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	3	0.38
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	13	0.38
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	13	0.38
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	13	0.38
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	17	0.38
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	17	0.38
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	17	0.38
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	18	0.38
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	18	0.38
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	18	0.38
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	4	0.37
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	4	0.37
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	4	0.37
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	4	0.37
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	4	0.37
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	4	0.37
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	12	0.37
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	12	0.37
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	12	0.37
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	12	0.37
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	12	0.37
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	12	0.37
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	11	0.37
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	13	0.37
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	17	0.37
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	19	0.37
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	7	0.37
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	7	0.37
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	7	0.37
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	9	0.37
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	9	0.37
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	9	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	13	0.37
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	13	0.37
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	13	0.37
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	2	0.37
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	3	0.37
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	11	0.37
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	19	0.37
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	2	0.37
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	10	0.37
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	11	0.37
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	14	0.37
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	1	0.37
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	1	0.37
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	1	0.37
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	2	0.37
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	2	0.37
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	2	0.37
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	4	0.37
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	4	0.37
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	4	0.37
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	8	0.37
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	8	0.37
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	8	0.37
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	9	0.37
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	9	0.37
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	9	0.37
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	10	0.37
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	10	0.37
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	10	0.37
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	14	0.37
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	14	0.37
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	14	0.37
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	20	0.37
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	20	0.37
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	20	0.37
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	9	0.37
(1,1486)	1:53:A:ASN:HA	1:56:A:ALA:H	2	0.37
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	5	0.37
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	16	0.37
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	20	0.37
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	1	0.37
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	1	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	1	0.37
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	3	0.37
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	3	0.37
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	3	0.37
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	5	0.37
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	5	0.37
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	5	0.37
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	9	0.37
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	9	0.37
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	9	0.37
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	10	0.37
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	10	0.37
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	10	0.37
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	14	0.37
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	14	0.37
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	14	0.37
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	16	0.37
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	16	0.37
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	16	0.37
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	18	0.37
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	18	0.37
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	18	0.37
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	19	0.37
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	19	0.37
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	19	0.37
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	6	0.37
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	6	0.37
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	6	0.37
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	6	0.37
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	6	0.37
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	6	0.37
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	6	0.37
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	6	0.37
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	6	0.37
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	3	0.37
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	3	0.37
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	3	0.37
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	3	0.37
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	3	0.37
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	14	0.37
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	14	0.37
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	7	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	7	0.37
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	7	0.37
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	14	0.37
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	14	0.37
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	14	0.37
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	11	0.36
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	11	0.36
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	11	0.36
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	11	0.36
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	11	0.36
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	11	0.36
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	20	0.36
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	20	0.36
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	20	0.36
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	20	0.36
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	20	0.36
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	20	0.36
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	11	0.36
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	13	0.36
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	20	0.36
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	2	0.36
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	2	0.36
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	2	0.36
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	5	0.36
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	7	0.36
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	8	0.36
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	10	0.36
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	13	0.36
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	14	0.36
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	15	0.36
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	17	0.36
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	1	0.36
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	4	0.36
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	5	0.36
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	12	0.36
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	13	0.36
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	15	0.36
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	17	0.36
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	20	0.36
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	11	0.36
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	11	0.36
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	11	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	12	0.36
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	12	0.36
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	12	0.36
(1,1532)	1:26:A:THR:HG21	1:25:A:GLY:H	18	0.36
(1,1532)	1:26:A:THR:HG22	1:25:A:GLY:H	18	0.36
(1,1532)	1:26:A:THR:HG23	1:25:A:GLY:H	18	0.36
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	16	0.36
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	16	0.36
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	16	0.36
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	2	0.36
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	12	0.36
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	8	0.36
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	8	0.36
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	8	0.36
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	8	0.36
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	18	0.36
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	18	0.36
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	18	0.36
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	18	0.36
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	19	0.36
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	19	0.36
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	19	0.36
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	4	0.36
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	4	0.36
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	6	0.36
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	6	0.36
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	15	0.36
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	15	0.36
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	7	0.36
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	13	0.36
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	15	0.36
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	17	0.36
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	19	0.36
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	19	0.36
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	8	0.36
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	11	0.36
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	13	0.36
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	13	0.36
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	7	0.36
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	4	0.36
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	4	0.36
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	4	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	6	0.36
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	6	0.36
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	6	0.36
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	7	0.36
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	7	0.36
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	7	0.36
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	12	0.36
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	12	0.36
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	12	0.36
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	13	0.36
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	13	0.36
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	13	0.36
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	20	0.36
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	20	0.36
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	20	0.36
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	14	0.36
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	14	0.36
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	14	0.36
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	14	0.36
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	14	0.36
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	14	0.36
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	14	0.36
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	14	0.36
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	14	0.36
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	2	0.36
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	2	0.36
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	19	0.36
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	19	0.36
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	10	0.36
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	10	0.36
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	10	0.36
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	4	0.35
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	9	0.35
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	9	0.35
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	9	0.35
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	9	0.35
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	9	0.35
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	9	0.35
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	11	0.35
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	11	0.35
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	20	0.35
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	20	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	19	0.35
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	19	0.35
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	12	0.35
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	12	0.35
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	12	0.35
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	12	0.35
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	12	0.35
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	12	0.35
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	1	0.35
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	4	0.35
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	11	0.35
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	11	0.35
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	11	0.35
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	5	0.35
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	5	0.35
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	5	0.35
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	9	0.35
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	20	0.35
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	3	0.35
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	6	0.35
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	7	0.35
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	8	0.35
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	9	0.35
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	18	0.35
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	19	0.35
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	6	0.35
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	6	0.35
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	6	0.35
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	4	0.35
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	5	0.35
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	6	0.35
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	8	0.35
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	10	0.35
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	13	0.35
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	14	0.35
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	18	0.35
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	19	0.35
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	20	0.35
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	3	0.35
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	3	0.35
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	8	0.35
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	8	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	16	0.35
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	16	0.35
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	11	0.35
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	11	0.35
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	11	0.35
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	11	0.35
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	2	0.35
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	6	0.35
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	8	0.35
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	9	0.35
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	14	0.35
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	19	0.35
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	20	0.35
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	20	0.35
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	20	0.35
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	8	0.35
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	8	0.35
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	20	0.35
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	20	0.35
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	11	0.35
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	11	0.35
(1,1093)	1:121:A:VAL:HG11	1:121:A:VAL:H	11	0.35
(1,1093)	1:121:A:VAL:HG12	1:121:A:VAL:H	11	0.35
(1,1093)	1:121:A:VAL:HG13	1:121:A:VAL:H	11	0.35
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	18	0.35
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	18	0.35
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	20	0.35
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	20	0.35
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	7	0.34
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	7	0.34
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	7	0.34
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	7	0.34
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	7	0.34
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	7	0.34
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	8	0.34
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	8	0.34
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	13	0.34
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	13	0.34
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	14	0.34
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	2	0.34
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	14	0.34
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	15	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	1	0.34
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	1	0.34
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	1	0.34
(1,1600)	1:76:A:MET:HA	1:78:A:ASP:H	1	0.34
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	1	0.34
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	3	0.34
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	7	0.34
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	11	0.34
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	15	0.34
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	16	0.34
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	17	0.34
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	3	0.34
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	4	0.34
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	4	0.34
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	4	0.34
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	4	0.34
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	13	0.34
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	13	0.34
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	2	0.34
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	2	0.34
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	2	0.34
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	2	0.34
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	5	0.34
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	5	0.34
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	5	0.34
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	3	0.34
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	4	0.34
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	10	0.34
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	12	0.34
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	18	0.34
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	7	0.34
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	7	0.34
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	7	0.34
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	7	0.34
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	7	0.34
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	7	0.34
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	8	0.34
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	8	0.34
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	13	0.34
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	15	0.34
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	15	0.34
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	15	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	15	0.34
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	15	0.34
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	15	0.34
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	15	0.34
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	15	0.34
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	15	0.34
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	5	0.34
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	5	0.34
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	5	0.34
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	12	0.34
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	12	0.34
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	12	0.34
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE1	5	0.33
(1,1750)	1:125:A:ILE:HG21	1:141:A:PHE:HE2	5	0.33
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE1	5	0.33
(1,1750)	1:125:A:ILE:HG22	1:141:A:PHE:HE2	5	0.33
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE1	5	0.33
(1,1750)	1:125:A:ILE:HG23	1:141:A:PHE:HE2	5	0.33
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	1	0.33
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	1	0.33
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	1	0.33
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	2	0.33
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	2	0.33
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	2	0.33
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	16	0.33
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	16	0.33
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	16	0.33
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	9	0.33
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	5	0.33
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	18	0.33
(1,1621)	1:126:A:ARG:HB2	1:127:A:GLU:H	5	0.33
(1,1621)	1:126:A:ARG:HB3	1:127:A:GLU:H	5	0.33
(1,1621)	1:126:A:ARG:HB2	1:127:A:GLU:H	9	0.33
(1,1621)	1:126:A:ARG:HB3	1:127:A:GLU:H	9	0.33
(1,1552)	1:63:A:ILE:HB	1:27:A:ILE:H	16	0.33
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	5	0.33
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	5	0.33
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	3	0.33
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	3	0.33
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	3	0.33
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	5	0.33
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	5	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	5	0.33
(1,1518)	1:26:A:THR:HB	1:64:A:ASP:HA	1	0.33
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	5	0.33
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	5	0.33
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	5	0.33
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	5	0.33
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	10	0.33
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	10	0.33
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	10	0.33
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	10	0.33
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	13	0.33
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	13	0.33
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	13	0.33
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	13	0.33
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	14	0.33
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	14	0.33
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	14	0.33
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	14	0.33
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	17	0.33
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	17	0.33
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	17	0.33
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	17	0.33
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	7	0.33
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	17	0.33
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	17	0.33
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	18	0.33
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	18	0.33
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB2	19	0.33
(1,1236)	1:87:A:GLU:HA	1:86:A:ARG:HB3	19	0.33
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	11	0.33
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	5	0.33
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	5	0.33
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	5	0.33
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	5	0.33
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	5	0.33
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	5	0.33
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	10	0.33
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	10	0.33
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	11	0.33
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	11	0.33
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	12	0.33
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	12	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	16	0.33
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	16	0.33
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	8	0.33
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	8	0.33
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	20	0.33
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	20	0.33
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	9	0.33
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	9	0.33
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	9	0.33
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	10	0.33
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	10	0.33
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	10	0.33
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	18	0.33
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	18	0.33
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	18	0.33
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	9	0.32
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	15	0.32
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	18	0.32
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	10	0.32
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	10	0.32
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	10	0.32
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	13	0.32
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	13	0.32
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	13	0.32
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	18	0.32
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	18	0.32
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	18	0.32
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	20	0.32
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	20	0.32
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	20	0.32
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	3	0.32
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	8	0.32
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	12	0.32
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	12	0.32
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	12	0.32
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	12	0.32
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	12	0.32
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	12	0.32
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	10	0.32
(1,1621)	1:126:A:ARG:HB2	1:127:A:GLU:H	7	0.32
(1,1621)	1:126:A:ARG:HB3	1:127:A:GLU:H	7	0.32
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	8	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	8	0.32
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	8	0.32
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	15	0.32
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	6	0.32
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	6	0.32
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	6	0.32
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	6	0.32
(1,1560)	1:94:A:LYS:HA	1:96:A:GLY:H	9	0.32
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	4	0.32
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	4	0.32
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	4	0.32
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	7	0.32
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	7	0.32
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	7	0.32
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	11	0.32
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	11	0.32
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	11	0.32
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	13	0.32
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	13	0.32
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	13	0.32
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	19	0.32
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	19	0.32
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	19	0.32
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	15	0.32
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	15	0.32
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	15	0.32
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	15	0.32
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	14	0.32
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	18	0.32
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG2	11	0.32
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG3	11	0.32
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG2	11	0.32
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG3	11	0.32
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	16	0.32
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	16	0.32
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	16	0.32
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	16	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	2	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	2	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	2	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	3	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	3	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	3	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	6	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	6	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	6	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	11	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	11	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	11	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	13	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	13	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	13	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	16	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	16	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	16	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	17	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	17	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	17	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	19	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	19	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	19	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	20	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	20	0.32
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	20	0.32
(1,1178)	1:18:A:LEU:HA	1:20:A:ALA:H	1	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	2	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	2	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	2	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	2	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	2	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	2	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	6	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	6	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	6	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	6	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	6	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	6	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	8	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	8	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	8	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	8	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	8	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	8	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	12	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	12	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	12	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	12	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	12	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	12	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	14	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	14	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	14	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	14	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	14	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	14	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	15	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	15	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	15	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	15	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	15	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	15	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	16	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	16	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	16	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	16	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	16	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	16	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	17	0.32
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	17	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	17	0.32
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	17	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	17	0.32
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	17	0.32
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	1	0.32
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	1	0.32
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	7	0.32
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	7	0.32
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	14	0.32
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	14	0.32
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	15	0.32
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	15	0.32
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	17	0.32
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	17	0.32
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	18	0.32
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	18	0.32
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	9	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	13	0.32
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	13	0.32
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	13	0.32
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	13	0.32
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	13	0.32
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	13	0.32
(1,1034)	1:75:A:LYS:HD2	1:75:A:LYS:H	4	0.32
(1,1034)	1:75:A:LYS:HD3	1:75:A:LYS:H	4	0.32
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	15	0.31
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	15	0.31
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	15	0.31
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	10	0.31
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	16	0.31
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	12	0.31
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	12	0.31
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	12	0.31
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	17	0.31
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	17	0.31
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	17	0.31
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	19	0.31
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	19	0.31
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	19	0.31
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	6	0.31
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	15	0.31
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	16	0.31
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	7	0.31
(1,1629)	1:108:A:VAL:HA	1:111:A:ASN:H	12	0.31
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	3	0.31
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	3	0.31
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	3	0.31
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	17	0.31
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	17	0.31
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	17	0.31
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	9	0.31
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	9	0.31
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	9	0.31
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	19	0.31
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	19	0.31
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	19	0.31
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	5	0.31
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	11	0.31
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	16	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	4	0.31
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	4	0.31
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	4	0.31
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	4	0.31
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	4	0.31
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	4	0.31
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	4	0.31
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	4	0.31
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	4	0.31
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	8	0.31
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	8	0.31
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	15	0.31
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	15	0.31
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	19	0.31
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	19	0.31
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	1	0.31
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	1	0.31
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	1	0.31
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	10	0.31
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	10	0.31
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	10	0.31
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	15	0.31
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	15	0.31
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	15	0.31
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	17	0.31
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	17	0.31
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	17	0.31
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	20	0.31
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	20	0.31
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	20	0.31
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	10	0.31
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	14	0.31
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	6	0.31
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	6	0.31
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	6	0.31
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	6	0.31
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	1	0.31
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	1	0.31
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	1	0.31
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	9	0.31
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	9	0.31
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	17	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	17	0.31
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	4	0.31
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	4	0.31
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	4	0.31
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	4	0.31
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	8	0.31
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	8	0.31
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	8	0.31
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	8	0.31
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	12	0.31
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	12	0.31
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	12	0.31
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	12	0.31
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	19	0.31
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	19	0.31
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	19	0.31
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	19	0.31
(1,1223)	1:94:A:LYS:HD2	1:94:A:LYS:HA	10	0.31
(1,1223)	1:94:A:LYS:HD3	1:94:A:LYS:HA	10	0.31
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	4	0.31
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	4	0.31
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	5	0.31
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	5	0.31
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	6	0.31
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	6	0.31
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	16	0.31
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	16	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	1	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	1	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	1	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	4	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	4	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	4	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	7	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	7	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	7	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	8	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	8	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	8	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	9	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	9	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	9	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	10	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	10	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	10	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	12	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	12	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	12	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	14	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	14	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	14	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	15	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	15	0.31
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	15	0.31
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	1	0.31
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	1	0.31
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	1	0.31
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	1	0.31
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	1	0.31
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	1	0.31
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	4	0.31
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	4	0.31
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	4	0.31
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	4	0.31
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	4	0.31
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	4	0.31
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	11	0.31
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	11	0.31
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	11	0.31
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	11	0.31
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	11	0.31
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	11	0.31
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	13	0.31
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	13	0.31
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	13	0.31
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	13	0.31
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	13	0.31
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	13	0.31
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	19	0.31
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	19	0.31
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	19	0.31
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	19	0.31
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	19	0.31
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	19	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	2	0.31
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	2	0.31
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	3	0.31
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	3	0.31
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	4	0.31
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	4	0.31
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	5	0.31
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	10	0.31
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	15	0.31
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	19	0.31
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	7	0.31
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	7	0.31
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	6	0.31
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	6	0.31
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	13	0.31
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	13	0.31
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	6	0.31
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	6	0.31
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	6	0.31
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	12	0.31
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	12	0.31
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	12	0.31
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	12	0.31
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	12	0.31
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	12	0.31
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	12	0.31
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	12	0.31
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	12	0.31
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	8	0.31
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	8	0.31
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	8	0.31
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	8	0.31
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	8	0.31
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	8	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	5	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	5	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	5	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	6	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	6	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	6	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	7	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	7	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	7	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	14	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	14	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	14	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	16	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	16	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	16	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	20	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	20	0.31
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	20	0.31
(1,385)	1:15:A:ALA:HB1	1:68:A:PHE:HZ	11	0.31
(1,385)	1:15:A:ALA:HB2	1:68:A:PHE:HZ	11	0.31
(1,385)	1:15:A:ALA:HB3	1:68:A:PHE:HZ	11	0.31
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	8	0.3
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	8	0.3
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	8	0.3
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	1	0.3
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	6	0.3
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	11	0.3
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	14	0.3
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	19	0.3
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	3	0.3
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	3	0.3
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	3	0.3
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	4	0.3
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	4	0.3
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	4	0.3
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	1	0.3
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	1	0.3
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	4	0.3
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	4	0.3
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	9	0.3
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	9	0.3
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	18	0.3
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	18	0.3
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	9	0.3
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	9	0.3
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	1	0.3
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	1	0.3
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	5	0.3
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	5	0.3
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	12	0.3
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	20	0.3
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	11	0.3
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	11	0.3
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	11	0.3
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	11	0.3
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	11	0.3
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	11	0.3
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	14	0.3
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	14	0.3
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	14	0.3
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	15	0.3
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	15	0.3
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	15	0.3
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	3	0.3
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	8	0.3
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	9	0.3
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	19	0.3
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	20	0.3
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	3	0.3
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	3	0.3
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	3	0.3
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	3	0.3
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	3	0.3
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	3	0.3
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	3	0.3
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	3	0.3
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	3	0.3
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	11	0.3
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	11	0.3
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	11	0.3
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	11	0.3
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	11	0.3
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	11	0.3
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	11	0.3
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	11	0.3
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	11	0.3
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	2	0.3
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	2	0.3
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	4	0.3
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	4	0.3
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	6	0.3
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	7	0.3
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	7	0.3
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	9	0.3
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	9	0.3
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	10	0.3
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	10	0.3
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	12	0.3
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	12	0.3
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	13	0.3
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	13	0.3
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	14	0.3
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	14	0.3
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	17	0.3
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	17	0.3
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	20	0.3
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	20	0.3
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	17	0.3
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	8	0.3
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	8	0.3
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	8	0.3
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	9	0.3
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	9	0.3
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	9	0.3
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	12	0.3
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	12	0.3
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	12	0.3
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	14	0.3
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	14	0.3
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	14	0.3
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	18	0.3
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	18	0.3
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	18	0.3
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	18	0.3
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	2	0.3
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	2	0.3
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	2	0.3
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	2	0.3
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	7	0.3
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	7	0.3
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	7	0.3
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	7	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	11	0.3
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	11	0.3
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	11	0.3
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	11	0.3
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	15	0.3
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	15	0.3
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	15	0.3
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	2	0.3
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	2	0.3
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	2	0.3
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	6	0.3
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	4	0.3
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	7	0.3
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	12	0.3
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	5	0.3
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	5	0.3
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	6	0.3
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	6	0.3
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	12	0.3
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	12	0.3
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	1	0.3
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	1	0.3
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	1	0.3
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	1	0.3
(1,1223)	1:94:A:LYS:HD2	1:94:A:LYS:HA	5	0.3
(1,1223)	1:94:A:LYS:HD3	1:94:A:LYS:HA	5	0.3
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	13	0.3
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	13	0.3
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	14	0.3
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	14	0.3
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	20	0.3
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	20	0.3
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG21	18	0.3
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG22	18	0.3
(1,1188)	1:28:A:THR:HA	1:29:A:THR:HG23	18	0.3
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	9	0.3
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	9	0.3
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	9	0.3
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	9	0.3
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	9	0.3
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	9	0.3
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	20	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	20	0.3
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	20	0.3
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	20	0.3
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	20	0.3
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	20	0.3
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	9	0.3
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	9	0.3
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	13	0.3
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	13	0.3
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	14	0.3
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	18	0.3
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	12	0.3
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	12	0.3
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	11	0.3
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	11	0.3
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	11	0.3
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	11	0.3
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	11	0.3
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	11	0.3
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE1	16	0.3
(1,839)	1:138:A:TYR:HA	1:138:A:TYR:HE2	16	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	2	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	2	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	2	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	3	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	3	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	3	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	8	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	8	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	8	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	12	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	12	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	12	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	13	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	13	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	13	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	15	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	15	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	15	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	17	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	17	0.3
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	17	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	1	0.29
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	1	0.29
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	1	0.29
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	13	0.29
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	13	0.29
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	13	0.29
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	16	0.29
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	16	0.29
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	16	0.29
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	17	0.29
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	17	0.29
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	17	0.29
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	19	0.29
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	19	0.29
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	19	0.29
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	3	0.29
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	13	0.29
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	17	0.29
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	20	0.29
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	14	0.29
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	14	0.29
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	14	0.29
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	2	0.29
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	2	0.29
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	5	0.29
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	5	0.29
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	10	0.29
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	10	0.29
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	15	0.29
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	15	0.29
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	17	0.29
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	17	0.29
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	1	0.29
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	1	0.29
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	4	0.29
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	4	0.29
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	7	0.29
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	18	0.29
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	2	0.29
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	2	0.29
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	4	0.29
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	4	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	5	0.29
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	10	0.29
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	16	0.29
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	16	0.29
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	16	0.29
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	16	0.29
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	16	0.29
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	16	0.29
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	16	0.29
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	16	0.29
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	16	0.29
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	20	0.29
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	20	0.29
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	20	0.29
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	2	0.29
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	7	0.29
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	12	0.29
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	12	0.29
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	12	0.29
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	12	0.29
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	7	0.29
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	7	0.29
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	7	0.29
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	7	0.29
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	7	0.29
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	7	0.29
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	7	0.29
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	7	0.29
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	7	0.29
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	14	0.29
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	14	0.29
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	14	0.29
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	14	0.29
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	14	0.29
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	14	0.29
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	14	0.29
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	14	0.29
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	14	0.29
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	16	0.29
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	16	0.29
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	16	0.29
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	16	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	16	0.29
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	16	0.29
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	16	0.29
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	16	0.29
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	16	0.29
(1,1560)	1:94:A:LYS:HA	1:96:A:GLY:H	7	0.29
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	16	0.29
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	16	0.29
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	1	0.29
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	1	0.29
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	1	0.29
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	1	0.29
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	5	0.29
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	7	0.29
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	9	0.29
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	10	0.29
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	11	0.29
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	16	0.29
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	19	0.29
(1,1527)	1:26:A:THR:HG21	1:64:A:ASP:H	2	0.29
(1,1527)	1:26:A:THR:HG22	1:64:A:ASP:H	2	0.29
(1,1527)	1:26:A:THR:HG23	1:64:A:ASP:H	2	0.29
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	4	0.29
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	4	0.29
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	11	0.29
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	12	0.29
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	2	0.29
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	2	0.29
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	2	0.29
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	5	0.29
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	5	0.29
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	5	0.29
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	11	0.29
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	11	0.29
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	11	0.29
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	12	0.29
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	12	0.29
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	12	0.29
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	14	0.29
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	14	0.29
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	14	0.29
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	17	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	17	0.29
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	17	0.29
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	18	0.29
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	18	0.29
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	18	0.29
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	17	0.29
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	17	0.29
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	17	0.29
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	3	0.29
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	15	0.29
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	12	0.29
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	12	0.29
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	12	0.29
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	12	0.29
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	12	0.29
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	12	0.29
(1,1337)	1:21:A:LYS:HE2	1:21:A:LYS:HA	7	0.29
(1,1337)	1:21:A:LYS:HE3	1:21:A:LYS:HA	7	0.29
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	10	0.29
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	10	0.29
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	10	0.29
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	10	0.29
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	10	0.29
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	10	0.29
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	10	0.29
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	10	0.29
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	10	0.29
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	13	0.29
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	13	0.29
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	13	0.29
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	13	0.29
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	13	0.29
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	13	0.29
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	13	0.29
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	13	0.29
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	13	0.29
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	14	0.29
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	14	0.29
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	14	0.29
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	14	0.29
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	14	0.29
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	14	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	14	0.29
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	14	0.29
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	14	0.29
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	1	0.29
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	1	0.29
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	2	0.29
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	2	0.29
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	4	0.29
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	4	0.29
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	10	0.29
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	10	0.29
(1,1223)	1:94:A:LYS:HD2	1:94:A:LYS:HA	6	0.29
(1,1223)	1:94:A:LYS:HD3	1:94:A:LYS:HA	6	0.29
(1,1223)	1:94:A:LYS:HD2	1:94:A:LYS:HA	17	0.29
(1,1223)	1:94:A:LYS:HD3	1:94:A:LYS:HA	17	0.29
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	1	0.29
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	1	0.29
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	3	0.29
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	3	0.29
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	7	0.29
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	7	0.29
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	9	0.29
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	9	0.29
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	10	0.29
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	10	0.29
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	15	0.29
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	15	0.29
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	17	0.29
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	17	0.29
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	18	0.29
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	18	0.29
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	19	0.29
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	19	0.29
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	2	0.29
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	2	0.29
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	5	0.29
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	5	0.29
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	6	0.29
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	6	0.29
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	10	0.29
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	10	0.29
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	11	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	11	0.29
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	13	0.29
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	13	0.29
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	16	0.29
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	16	0.29
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	18	0.29
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	18	0.29
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	3	0.29
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	3	0.29
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	3	0.29
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	3	0.29
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	3	0.29
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	3	0.29
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	10	0.29
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	10	0.29
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	10	0.29
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	10	0.29
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	10	0.29
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	10	0.29
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE1	18	0.29
(1,1159)	1:35:A:VAL:HG21	1:65:A:PHE:HE2	18	0.29
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE1	18	0.29
(1,1159)	1:35:A:VAL:HG22	1:65:A:PHE:HE2	18	0.29
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE1	18	0.29
(1,1159)	1:35:A:VAL:HG23	1:65:A:PHE:HE2	18	0.29
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	1	0.29
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	2	0.29
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	3	0.29
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	4	0.29
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	16	0.29
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	17	0.29
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	20	0.29
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	20	0.29
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	20	0.29
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	20	0.29
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	20	0.29
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	20	0.29
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	8	0.29
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	13	0.29
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	2	0.29
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	2	0.29
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	2	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	2	0.29
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	2	0.29
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	2	0.29
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	2	0.29
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	2	0.29
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	2	0.29
(1,1022)	1:94:A:LYS:HE2	1:94:A:LYS:HA	5	0.29
(1,1022)	1:94:A:LYS:HE3	1:94:A:LYS:HA	5	0.29
(1,1022)	1:94:A:LYS:HE2	1:94:A:LYS:HA	6	0.29
(1,1022)	1:94:A:LYS:HE3	1:94:A:LYS:HA	6	0.29
(1,1022)	1:94:A:LYS:HE2	1:94:A:LYS:HA	10	0.29
(1,1022)	1:94:A:LYS:HE3	1:94:A:LYS:HA	10	0.29
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	11	0.29
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	11	0.29
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	11	0.29
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	1	0.29
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	1	0.29
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	1	0.29
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	19	0.29
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	19	0.29
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	19	0.29
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	1	0.29
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	2	0.28
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	5	0.28
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	8	0.28
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	9	0.28
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	9	0.28
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	9	0.28
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	7	0.28
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	7	0.28
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	12	0.28
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	12	0.28
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	14	0.28
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	14	0.28
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	16	0.28
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	16	0.28
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	19	0.28
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	19	0.28
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	3	0.28
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	3	0.28
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	20	0.28
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	20	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	13	0.28
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	17	0.28
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	17	0.28
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	7	0.28
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	19	0.28
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	4	0.28
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	4	0.28
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	4	0.28
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	4	0.28
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	4	0.28
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	4	0.28
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	12	0.28
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	1	0.28
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	1	0.28
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	1	0.28
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	8	0.28
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	8	0.28
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	8	0.28
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	8	0.28
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	8	0.28
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	8	0.28
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	9	0.28
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	9	0.28
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	9	0.28
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	9	0.28
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	9	0.28
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	9	0.28
(1,1633)	1:114:A:GLU:HB2	1:115:A:LYS:H	6	0.28
(1,1633)	1:114:A:GLU:HB3	1:115:A:LYS:H	6	0.28
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	1	0.28
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	1	0.28
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	1	0.28
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	2	0.28
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	2	0.28
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	2	0.28
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	4	0.28
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	4	0.28
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	4	0.28
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	7	0.28
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	7	0.28
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	7	0.28
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	12	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	12	0.28
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	12	0.28
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	13	0.28
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	13	0.28
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	13	0.28
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	6	0.28
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	6	0.28
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	12	0.28
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	13	0.28
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	14	0.28
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	17	0.28
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	15	0.28
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	15	0.28
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	15	0.28
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	8	0.28
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	8	0.28
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	8	0.28
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	8	0.28
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	8	0.28
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	8	0.28
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	8	0.28
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	8	0.28
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	8	0.28
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	12	0.28
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	12	0.28
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	12	0.28
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	12	0.28
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	12	0.28
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	12	0.28
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	12	0.28
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	12	0.28
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	12	0.28
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	15	0.28
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	15	0.28
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	15	0.28
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	15	0.28
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	15	0.28
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	15	0.28
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	15	0.28
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	15	0.28
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	15	0.28
(1,1560)	1:94:A:LYS:HA	1:96:A:GLY:H	4	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	18	0.28
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	18	0.28
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	1	0.28
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	4	0.28
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	14	0.28
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	18	0.28
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	1	0.28
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	11	0.28
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	19	0.28
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	1	0.28
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	7	0.28
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	13	0.28
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB2	12	0.28
(1,1494)	1:50:A:ASP:HB2	1:53:A:ASN:HB3	12	0.28
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB2	12	0.28
(1,1494)	1:50:A:ASP:HB3	1:53:A:ASN:HB3	12	0.28
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	4	0.28
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	4	0.28
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	4	0.28
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	7	0.28
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	7	0.28
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	7	0.28
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	8	0.28
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	8	0.28
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	8	0.28
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	10	0.28
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	10	0.28
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	10	0.28
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	16	0.28
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	16	0.28
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	16	0.28
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	20	0.28
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	20	0.28
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	20	0.28
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	6	0.28
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	6	0.28
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	6	0.28
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	8	0.28
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	8	0.28
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	8	0.28
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	9	0.28
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	9	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	9	0.28
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	10	0.28
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	10	0.28
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	10	0.28
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	16	0.28
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	16	0.28
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	16	0.28
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	7	0.28
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	7	0.28
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	7	0.28
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	10	0.28
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	10	0.28
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	10	0.28
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	12	0.28
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	12	0.28
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	12	0.28
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	15	0.28
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	15	0.28
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	15	0.28
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	5	0.28
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	9	0.28
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	1	0.28
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	10	0.28
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	11	0.28
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	16	0.28
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	17	0.28
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	19	0.28
(1,1393)	1:51:A:MET:HE1	1:51:A:MET:H	17	0.28
(1,1393)	1:51:A:MET:HE2	1:51:A:MET:H	17	0.28
(1,1393)	1:51:A:MET:HE3	1:51:A:MET:H	17	0.28
(1,1337)	1:21:A:LYS:HE2	1:21:A:LYS:HA	15	0.28
(1,1337)	1:21:A:LYS:HE3	1:21:A:LYS:HA	15	0.28
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	4	0.28
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	4	0.28
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	4	0.28
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	4	0.28
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	4	0.28
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	4	0.28
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	4	0.28
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	4	0.28
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	4	0.28
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	6	0.28
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	6	0.28
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	6	0.28
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	6	0.28
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	6	0.28
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	6	0.28
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	6	0.28
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	6	0.28
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	12	0.28
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	12	0.28
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	12	0.28
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	12	0.28
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	12	0.28
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	12	0.28
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	12	0.28
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	12	0.28
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	12	0.28
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	3	0.28
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	3	0.28
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	7	0.28
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	7	0.28
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	14	0.28
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	14	0.28
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	15	0.28
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	15	0.28
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	16	0.28
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	16	0.28
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	18	0.28
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	18	0.28
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	19	0.28
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	19	0.28
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	6	0.28
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	6	0.28
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	6	0.28
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	6	0.28
(1,1223)	1:94:A:LYS:HD2	1:94:A:LYS:HA	1	0.28
(1,1223)	1:94:A:LYS:HD3	1:94:A:LYS:HA	1	0.28
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	2	0.28
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	2	0.28
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	8	0.28
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	8	0.28
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	1	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	1	0.28
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	3	0.28
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	3	0.28
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	4	0.28
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	4	0.28
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	12	0.28
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	12	0.28
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	15	0.28
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	15	0.28
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	17	0.28
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	17	0.28
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB2	5	0.28
(1,1136)	1:106:A:ARG:HA	1:105:A:LEU:HB3	5	0.28
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	11	0.28
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	11	0.28
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	12	0.28
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	12	0.28
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	11	0.28
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	11	0.28
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	11	0.28
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	11	0.28
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	11	0.28
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	11	0.28
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	11	0.28
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	11	0.28
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	11	0.28
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	11	0.28
(1,1022)	1:94:A:LYS:HE2	1:94:A:LYS:HA	1	0.28
(1,1022)	1:94:A:LYS:HE3	1:94:A:LYS:HA	1	0.28
(1,1022)	1:94:A:LYS:HE2	1:94:A:LYS:HA	17	0.28
(1,1022)	1:94:A:LYS:HE3	1:94:A:LYS:HA	17	0.28
(1,1000)	1:148:A:LYS:HD2	1:148:A:LYS:HA	11	0.28
(1,1000)	1:148:A:LYS:HD3	1:148:A:LYS:HA	11	0.28
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	4	0.28
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	4	0.28
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	4	0.28
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG21	11	0.28
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG22	11	0.28
(1,661)	1:36:A:MET:HA	1:35:A:VAL:HG23	11	0.28
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	9	0.28
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	3	0.27
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	3	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	3	0.27
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	4	0.27
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	4	0.27
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	4	0.27
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	14	0.27
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	14	0.27
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	14	0.27
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	12	0.27
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	5	0.27
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	5	0.27
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	5	0.27
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	6	0.27
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	6	0.27
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	6	0.27
(1,1744)	1:118:A:ASP:HB2	1:117:A:THR:HB	3	0.27
(1,1744)	1:118:A:ASP:HB3	1:117:A:THR:HB	3	0.27
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	4	0.27
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	4	0.27
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	1	0.27
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	14	0.27
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	14	0.27
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	15	0.27
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	15	0.27
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	16	0.27
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	16	0.27
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	1	0.27
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	2	0.27
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	17	0.27
(1,1715)	1:85:A:ILE:HA	1:87:A:GLU:H	18	0.27
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	5	0.27
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	5	0.27
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	5	0.27
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	5	0.27
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	5	0.27
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	5	0.27
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	6	0.27
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	6	0.27
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	6	0.27
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	6	0.27
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	6	0.27
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	6	0.27
(1,1633)	1:114:A:GLU:HB2	1:115:A:LYS:H	8	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1633)	1:114:A:GLU:HB3	1:115:A:LYS:H	8	0.27
(1,1633)	1:114:A:GLU:HB2	1:115:A:LYS:H	13	0.27
(1,1633)	1:114:A:GLU:HB3	1:115:A:LYS:H	13	0.27
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	6	0.27
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	10	0.27
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	2	0.27
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	2	0.27
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	2	0.27
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	9	0.27
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	9	0.27
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	9	0.27
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	19	0.27
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	19	0.27
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	19	0.27
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	9	0.27
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	9	0.27
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	9	0.27
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	9	0.27
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	9	0.27
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	9	0.27
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	9	0.27
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	9	0.27
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	9	0.27
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	11	0.27
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	11	0.27
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	2	0.27
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	3	0.27
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	6	0.27
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	8	0.27
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	15	0.27
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	15	0.27
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	16	0.27
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	17	0.27
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	5	0.27
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	9	0.27
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	16	0.27
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	19	0.27
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	3	0.27
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	3	0.27
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	3	0.27
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	13	0.27
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	13	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	13	0.27
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	1	0.27
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	1	0.27
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	1	0.27
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	3	0.27
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	3	0.27
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	3	0.27
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	5	0.27
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	5	0.27
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	5	0.27
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	14	0.27
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	14	0.27
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	14	0.27
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	15	0.27
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	15	0.27
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	15	0.27
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	18	0.27
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	18	0.27
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	18	0.27
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	20	0.27
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	20	0.27
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	20	0.27
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	14	0.27
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	14	0.27
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	14	0.27
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	20	0.27
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	4	0.27
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	14	0.27
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	2	0.27
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	6	0.27
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	8	0.27
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	9	0.27
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	18	0.27
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	18	0.27
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	18	0.27
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	18	0.27
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	18	0.27
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	18	0.27
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	18	0.27
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	18	0.27
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	18	0.27
(1,1337)	1:21:A:LYS:HE2	1:21:A:LYS:HA	17	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1337)	1:21:A:LYS:HE3	1:21:A:LYS:HA	17	0.27
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	2	0.27
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	2	0.27
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	2	0.27
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	2	0.27
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	2	0.27
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	2	0.27
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	2	0.27
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	2	0.27
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	2	0.27
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	11	0.27
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	11	0.27
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	11	0.27
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	11	0.27
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	11	0.27
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	11	0.27
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	11	0.27
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	11	0.27
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	11	0.27
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	15	0.27
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	15	0.27
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	15	0.27
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	15	0.27
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	15	0.27
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	15	0.27
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	15	0.27
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	15	0.27
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	15	0.27
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	18	0.27
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	18	0.27
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	18	0.27
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	18	0.27
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	18	0.27
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	18	0.27
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	18	0.27
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	18	0.27
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	18	0.27
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	13	0.27
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	13	0.27
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	20	0.27
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	20	0.27
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	7	0.27
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	8	0.27
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	8	0.27
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	9	0.27
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	9	0.27
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	14	0.27
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	14	0.27
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	19	0.27
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	19	0.27
(1,1201)	1:4:A:LEU:HB2	1:3:A:GLN:HA	20	0.27
(1,1201)	1:4:A:LEU:HB3	1:3:A:GLN:HA	20	0.27
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	1	0.27
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	6	0.27
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	13	0.27
(1,1130)	1:106:A:ARG:HA	1:110:A:THR:H	9	0.27
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	3	0.27
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	3	0.27
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	8	0.27
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	8	0.27
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	8	0.27
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	8	0.27
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	8	0.27
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	8	0.27
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	8	0.27
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	8	0.27
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	8	0.27
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	5	0.27
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	1	0.27
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	1	0.27
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	1	0.27
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	1	0.27
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	17	0.27
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	2	0.27
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	4	0.27
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	7	0.27
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	8	0.27
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	10	0.27
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	14	0.27
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	18	0.27
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	20	0.27
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	7	0.26
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	7	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	7	0.26
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	20	0.26
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	20	0.26
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	20	0.26
(1,1751)	1:118:A:ASP:HA	1:121:A:VAL:H	7	0.26
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	7	0.26
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	7	0.26
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	7	0.26
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	16	0.26
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	16	0.26
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	8	0.26
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	8	0.26
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	7	0.26
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	7	0.26
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	15	0.26
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	15	0.26
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	5	0.26
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	5	0.26
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	1	0.26
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	1	0.26
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	1	0.26
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	1	0.26
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	1	0.26
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	1	0.26
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	3	0.26
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	3	0.26
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	3	0.26
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	3	0.26
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	3	0.26
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	3	0.26
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	20	0.26
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	20	0.26
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	20	0.26
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	20	0.26
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	20	0.26
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	20	0.26
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	5	0.26
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	5	0.26
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	5	0.26
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	5	0.26
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	5	0.26
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	5	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	8	0.26
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	8	0.26
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	8	0.26
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	8	0.26
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	8	0.26
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	8	0.26
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	20	0.26
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	20	0.26
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	20	0.26
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	20	0.26
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	20	0.26
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	20	0.26
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	1	0.26
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	1	0.26
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	3	0.26
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	3	0.26
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	4	0.26
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	4	0.26
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	5	0.26
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	5	0.26
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	9	0.26
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	9	0.26
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	11	0.26
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	11	0.26
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	13	0.26
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	13	0.26
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	14	0.26
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	14	0.26
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	16	0.26
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	16	0.26
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	19	0.26
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	19	0.26
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	20	0.26
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	20	0.26
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	3	0.26
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	3	0.26
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	3	0.26
(1,1633)	1:114:A:GLU:HB2	1:115:A:LYS:H	20	0.26
(1,1633)	1:114:A:GLU:HB3	1:115:A:LYS:H	20	0.26
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	10	0.26
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	10	0.26
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	10	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	17	0.26
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	17	0.26
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	17	0.26
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	2	0.26
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	2	0.26
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	20	0.26
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	4	0.26
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	10	0.26
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	10	0.26
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	10	0.26
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	10	0.26
(1,1580)	1:85:A:ILE:HD11	1:85:A:ILE:HB	13	0.26
(1,1580)	1:85:A:ILE:HD12	1:85:A:ILE:HB	13	0.26
(1,1580)	1:85:A:ILE:HD13	1:85:A:ILE:HB	13	0.26
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	6	0.26
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	3	0.26
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	3	0.26
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	3	0.26
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	6	0.26
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	6	0.26
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	6	0.26
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	8	0.26
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	8	0.26
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	8	0.26
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	10	0.26
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	10	0.26
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	10	0.26
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	13	0.26
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	13	0.26
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	13	0.26
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	14	0.26
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	14	0.26
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	14	0.26
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	16	0.26
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	16	0.26
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	16	0.26
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	17	0.26
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	17	0.26
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	17	0.26
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	18	0.26
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	18	0.26
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	18	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	20	0.26
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	20	0.26
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	20	0.26
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	10	0.26
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	10	0.26
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	10	0.26
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	10	0.26
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	10	0.26
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	10	0.26
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	10	0.26
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	10	0.26
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	10	0.26
(1,1560)	1:94:A:LYS:HA	1:96:A:GLY:H	12	0.26
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	3	0.26
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	3	0.26
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	12	0.26
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	13	0.26
(1,1535)	1:8:A:GLN:HA	1:11:A:GLU:H	20	0.26
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	2	0.26
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	6	0.26
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	8	0.26
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	12	0.26
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	13	0.26
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	6	0.26
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	6	0.26
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	6	0.26
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	4	0.26
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	4	0.26
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	4	0.26
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	7	0.26
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	7	0.26
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	7	0.26
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	4	0.26
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	4	0.26
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	4	0.26
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	13	0.26
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	13	0.26
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	13	0.26
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	16	0.26
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	16	0.26
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	16	0.26
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	9	0.26
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	15	0.26
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	19	0.26
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	1	0.26
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	2	0.26
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	3	0.26
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	19	0.26
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	5	0.26
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	13	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	1	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	1	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	1	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	1	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	1	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	1	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	1	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	1	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	1	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	3	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	3	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	3	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	3	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	3	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	3	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	3	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	3	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	3	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	8	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	8	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	8	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	8	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	8	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	8	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	8	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	8	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	8	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	15	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	15	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	15	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	15	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	15	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	15	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	15	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	15	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	15	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	19	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	19	0.26
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	19	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	19	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	19	0.26
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	19	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	19	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	19	0.26
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	19	0.26
(1,1402)	1:115:A:LYS:HG2	1:115:A:LYS:H	6	0.26
(1,1402)	1:115:A:LYS:HG3	1:115:A:LYS:H	6	0.26
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	20	0.26
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	20	0.26
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	20	0.26
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	20	0.26
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	20	0.26
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	20	0.26
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	20	0.26
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	20	0.26
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	20	0.26
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	5	0.26
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	5	0.26
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	5	0.26
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	5	0.26
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	5	0.26
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	5	0.26
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	5	0.26
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	5	0.26
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	5	0.26
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	7	0.26
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	7	0.26
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	7	0.26
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	7	0.26
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	7	0.26
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	7	0.26
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	7	0.26
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	7	0.26
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	7	0.26
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	17	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	17	0.26
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	17	0.26
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	17	0.26
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	17	0.26
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	17	0.26
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	17	0.26
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	17	0.26
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	17	0.26
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	8	0.26
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	8	0.26
(1,1279)	1:134:A:GLY:HA2	1:133:A:ASP:H	11	0.26
(1,1279)	1:134:A:GLY:HA3	1:133:A:ASP:H	11	0.26
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	11	0.26
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	11	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	2	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	3	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	5	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	7	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	10	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	11	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	12	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	14	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	15	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	17	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	18	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	19	0.26
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	20	0.26
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	1	0.26
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	1	0.26
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	15	0.26
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	15	0.26
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	13	0.26
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	13	0.26
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	13	0.26
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	20	0.26
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	20	0.26
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	20	0.26
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	6	0.26
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	6	0.26
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	6	0.26
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	6	0.26
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	6	0.26
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	2	0.26
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	18	0.26
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	18	0.26
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	18	0.26
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	15	0.26
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	9	0.26
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	9	0.26
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	9	0.26
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	18	0.26
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	18	0.26
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	18	0.26
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	15	0.26
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	17	0.26
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	12	0.25
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	12	0.25
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	12	0.25
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	18	0.25
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	18	0.25
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	18	0.25
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	5	0.25
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	5	0.25
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	6	0.25
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	6	0.25
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	9	0.25
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	9	0.25
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	11	0.25
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	11	0.25
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	8	0.25
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	8	0.25
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	3	0.25
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	3	0.25
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	3	0.25
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	3	0.25
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	3	0.25
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	3	0.25
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	18	0.25
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	18	0.25
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	18	0.25
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	18	0.25
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	18	0.25
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	18	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	2	0.25
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	4	0.25
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	4	0.25
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	4	0.25
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	11	0.25
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	11	0.25
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	11	0.25
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	6	0.25
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	6	0.25
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	13	0.25
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	13	0.25
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	16	0.25
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	16	0.25
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	1	0.25
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	1	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	2	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	2	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	2	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	2	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	2	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	2	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	7	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	7	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	7	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	7	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	7	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	7	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	10	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	10	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	10	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	10	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	10	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	10	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	13	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	13	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	13	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	13	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	13	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	13	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	14	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	14	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	14	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	14	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	14	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	14	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	17	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	17	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	17	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	17	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	17	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	17	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	18	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	18	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	18	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	18	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	18	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	18	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	19	0.25
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	19	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	19	0.25
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	19	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	19	0.25
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	19	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	1	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	1	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	1	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	1	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	1	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	1	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	3	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	3	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	3	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	3	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	3	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	3	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	9	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	9	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	9	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	9	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	9	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	9	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	16	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	16	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	16	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	16	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	16	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	16	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	19	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	19	0.25
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	19	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	19	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	19	0.25
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	19	0.25
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	2	0.25
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	2	0.25
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	6	0.25
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	6	0.25
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	7	0.25
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	7	0.25
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	8	0.25
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	8	0.25
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	10	0.25
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	10	0.25
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	12	0.25
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	12	0.25
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	17	0.25
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	17	0.25
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	18	0.25
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	18	0.25
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	10	0.25
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	10	0.25
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	10	0.25
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	16	0.25
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	16	0.25
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	16	0.25
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	3	0.25
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	3	0.25
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	3	0.25
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	4	0.25
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	4	0.25
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	4	0.25
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	8	0.25
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	9	0.25
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	10	0.25
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	11	0.25
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	12	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	15	0.25
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	16	0.25
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	17	0.25
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	19	0.25
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE2	15	0.25
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE3	15	0.25
(1,1596)	1:75:A:LYS:HA	1:78:A:ASP:H	18	0.25
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	1	0.25
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	1	0.25
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	1	0.25
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	4	0.25
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	4	0.25
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	4	0.25
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	7	0.25
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	7	0.25
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	7	0.25
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	20	0.25
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	20	0.25
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	20	0.25
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	20	0.25
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	20	0.25
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	20	0.25
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	20	0.25
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	20	0.25
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	20	0.25
(1,1540)	1:9:A:ILE:HG12	1:9:A:ILE:H	1	0.25
(1,1540)	1:9:A:ILE:HG13	1:9:A:ILE:H	1	0.25
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	3	0.25
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	5	0.25
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	14	0.25
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	20	0.25
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	20	0.25
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	14	0.25
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	14	0.25
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	14	0.25
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	14	0.25
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	14	0.25
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	14	0.25
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	19	0.25
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	19	0.25
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	19	0.25
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	3	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	3	0.25
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	3	0.25
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	17	0.25
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	17	0.25
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	17	0.25
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	19	0.25
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	19	0.25
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	19	0.25
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	11	0.25
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	16	0.25
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	17	0.25
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	10	0.25
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	16	0.25
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	17	0.25
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	4	0.25
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	2	0.25
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	5	0.25
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	10	0.25
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	20	0.25
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	20	0.25
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	20	0.25
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	20	0.25
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	20	0.25
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	20	0.25
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	20	0.25
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	20	0.25
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	20	0.25
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	11	0.25
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	11	0.25
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	11	0.25
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	11	0.25
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	11	0.25
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	11	0.25
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	12	0.25
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	12	0.25
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	12	0.25
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	12	0.25
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	12	0.25
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	12	0.25
(1,1402)	1:115:A:LYS:HG2	1:115:A:LYS:H	13	0.25
(1,1402)	1:115:A:LYS:HG3	1:115:A:LYS:H	13	0.25
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	1	0.25
(1,1223)	1:94:A:LYS:HD2	1:94:A:LYS:HA	11	0.25
(1,1223)	1:94:A:LYS:HD3	1:94:A:LYS:HA	11	0.25
(1,1205)	1:64:A:ASP:HB2	1:26:A:THR:HA	12	0.25
(1,1205)	1:64:A:ASP:HB3	1:26:A:THR:HA	12	0.25
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	4	0.25
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	8	0.25
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	9	0.25
(1,1180)	1:18:A:LEU:HA	1:18:A:LEU:HG	16	0.25
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	11	0.25
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	11	0.25
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	11	0.25
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	4	0.25
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	4	0.25
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	18	0.25
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	18	0.25
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	20	0.25
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	20	0.25
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	11	0.25
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	11	0.25
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	11	0.25
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	12	0.25
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	12	0.25
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	12	0.25
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	12	0.25
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	12	0.25
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	12	0.25
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	13	0.25
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	16	0.25
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	11	0.25
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	11	0.25
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	11	0.25
(1,1022)	1:94:A:LYS:HE2	1:94:A:LYS:HA	11	0.25
(1,1022)	1:94:A:LYS:HE3	1:94:A:LYS:HA	11	0.25
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	20	0.25
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	20	0.25
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	20	0.25
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	10	0.25
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	10	0.25
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	10	0.25
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	16	0.25
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	16	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	16	0.25
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	4	0.25
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	4	0.25
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	4	0.25
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD21	8	0.25
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD22	8	0.25
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD23	8	0.25
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD21	8	0.25
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD22	8	0.25
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD23	8	0.25
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD21	8	0.25
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD22	8	0.25
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD23	8	0.25
(1,448)	1:63:A:ILE:HD11	1:71:A:MET:HE1	11	0.25
(1,448)	1:63:A:ILE:HD11	1:71:A:MET:HE2	11	0.25
(1,448)	1:63:A:ILE:HD11	1:71:A:MET:HE3	11	0.25
(1,448)	1:63:A:ILE:HD12	1:71:A:MET:HE1	11	0.25
(1,448)	1:63:A:ILE:HD12	1:71:A:MET:HE2	11	0.25
(1,448)	1:63:A:ILE:HD12	1:71:A:MET:HE3	11	0.25
(1,448)	1:63:A:ILE:HD13	1:71:A:MET:HE1	11	0.25
(1,448)	1:63:A:ILE:HD13	1:71:A:MET:HE2	11	0.25
(1,448)	1:63:A:ILE:HD13	1:71:A:MET:HE3	11	0.25
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	3	0.25
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	5	0.25
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	6	0.25
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	12	0.25
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	13	0.25
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	16	0.25
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	19	0.25
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	9	0.24
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	9	0.24
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	9	0.24
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	11	0.24
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	11	0.24
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	11	0.24
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	11	0.24
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	11	0.24
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	11	0.24
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	15	0.24
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	15	0.24
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	15	0.24
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	8	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	8	0.24
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	10	0.24
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	10	0.24
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	12	0.24
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	12	0.24
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	15	0.24
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	15	0.24
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	17	0.24
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	17	0.24
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	7	0.24
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	7	0.24
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	17	0.24
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	17	0.24
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	5	0.24
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	12	0.24
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	12	0.24
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	20	0.24
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	20	0.24
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	20	0.24
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	20	0.24
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	20	0.24
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	20	0.24
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	9	0.24
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	15	0.24
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	18	0.24
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	19	0.24
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	3	0.24
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	3	0.24
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	3	0.24
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	5	0.24
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	5	0.24
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	5	0.24
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	15	0.24
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	15	0.24
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	15	0.24
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	19	0.24
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	19	0.24
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	19	0.24
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	3	0.24
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	3	0.24
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	7	0.24
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	7	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	9	0.24
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	9	0.24
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	10	0.24
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	10	0.24
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	11	0.24
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	11	0.24
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	12	0.24
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	12	0.24
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	14	0.24
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	14	0.24
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	15	0.24
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	15	0.24
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	17	0.24
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	17	0.24
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	18	0.24
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	18	0.24
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	19	0.24
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	19	0.24
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	20	0.24
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	20	0.24
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	3	0.24
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	3	0.24
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	11	0.24
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	11	0.24
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	4	0.24
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	4	0.24
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	4	0.24
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	4	0.24
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	4	0.24
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	4	0.24
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	13	0.24
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	13	0.24
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	13	0.24
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	13	0.24
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	13	0.24
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	13	0.24
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	17	0.24
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	17	0.24
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	17	0.24
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	17	0.24
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	17	0.24
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	17	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1637)	1:53:A:ASN:HB2	1:54:A:GLU:H	15	0.24
(1,1637)	1:53:A:ASN:HB3	1:54:A:GLU:H	15	0.24
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	16	0.24
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	16	0.24
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	16	0.24
(1,1612)	1:142:A:VAL:HG21	1:143:A:GLN:H	18	0.24
(1,1612)	1:142:A:VAL:HG22	1:143:A:GLN:H	18	0.24
(1,1612)	1:142:A:VAL:HG23	1:143:A:GLN:H	18	0.24
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	1	0.24
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	2	0.24
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	3	0.24
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	5	0.24
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	6	0.24
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	7	0.24
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	13	0.24
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	14	0.24
(1,1603)	1:76:A:MET:HA	1:77:A:LYS:H	18	0.24
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	5	0.24
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	6	0.24
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	6	0.24
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	6	0.24
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	6	0.24
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	6	0.24
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	6	0.24
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	6	0.24
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	6	0.24
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	6	0.24
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	6	0.24
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	6	0.24
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	6	0.24
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	13	0.24
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	13	0.24
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	13	0.24
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	7	0.24
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	9	0.24
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	10	0.24
(1,1475)	1:108:A:VAL:HG11	1:89:A:PHE:H	9	0.24
(1,1475)	1:108:A:VAL:HG12	1:89:A:PHE:H	9	0.24
(1,1475)	1:108:A:VAL:HG13	1:89:A:PHE:H	9	0.24
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	4	0.24
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	4	0.24
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	4	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	4	0.24
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	4	0.24
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	4	0.24
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	18	0.24
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	18	0.24
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	18	0.24
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	18	0.24
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	18	0.24
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	18	0.24
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	12	0.24
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	12	0.24
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	12	0.24
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	13	0.24
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	13	0.24
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	13	0.24
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	2	0.24
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	2	0.24
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	2	0.24
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	5	0.24
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	5	0.24
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	5	0.24
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	8	0.24
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	8	0.24
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	8	0.24
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	18	0.24
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	18	0.24
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	18	0.24
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	1	0.24
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	3	0.24
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	5	0.24
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	13	0.24
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	14	0.24
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	18	0.24
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	12	0.24
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	13	0.24
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	18	0.24
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	20	0.24
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	19	0.24
(1,1426)	1:91:A:VAL:HB	1:91:A:VAL:H	20	0.24
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	1	0.24
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	3	0.24
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	8	0.24
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	11	0.24
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	13	0.24
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	14	0.24
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	16	0.24
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	18	0.24
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	7	0.24
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	7	0.24
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	7	0.24
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	7	0.24
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	7	0.24
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	7	0.24
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	7	0.24
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	7	0.24
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	7	0.24
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	9	0.24
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	9	0.24
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	9	0.24
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	9	0.24
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	9	0.24
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	9	0.24
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	9	0.24
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	9	0.24
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	9	0.24
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	16	0.24
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	16	0.24
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	16	0.24
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	16	0.24
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	16	0.24
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	16	0.24
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	16	0.24
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	16	0.24
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	16	0.24
(1,1402)	1:115:A:LYS:HG2	1:115:A:LYS:H	8	0.24
(1,1402)	1:115:A:LYS:HG3	1:115:A:LYS:H	8	0.24
(1,1402)	1:115:A:LYS:HG2	1:115:A:LYS:H	20	0.24
(1,1402)	1:115:A:LYS:HG3	1:115:A:LYS:H	20	0.24
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	3	0.24
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	3	0.24
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	3	0.24
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	3	0.24
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	3	0.24
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	3	0.24
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	3	0.24
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	3	0.24
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	8	0.24
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	8	0.24
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	8	0.24
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	8	0.24
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	8	0.24
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	8	0.24
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	8	0.24
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	8	0.24
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	8	0.24
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	16	0.24
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	16	0.24
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	16	0.24
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	16	0.24
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	16	0.24
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	16	0.24
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	16	0.24
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	16	0.24
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	16	0.24
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	20	0.24
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	20	0.24
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	20	0.24
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	20	0.24
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	20	0.24
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	20	0.24
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	20	0.24
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	20	0.24
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	20	0.24
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	8	0.24
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	8	0.24
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	8	0.24
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG2	5	0.24
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG3	5	0.24
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG2	5	0.24
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG3	5	0.24
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	1	0.24
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	13	0.24
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	13	0.24
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	13	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	13	0.24
(1,1151)	1:39:A:LEU:HB2	1:12:A:PHE:HE1	3	0.24
(1,1151)	1:39:A:LEU:HB2	1:12:A:PHE:HE2	3	0.24
(1,1151)	1:39:A:LEU:HB3	1:12:A:PHE:HE1	3	0.24
(1,1151)	1:39:A:LEU:HB3	1:12:A:PHE:HE2	3	0.24
(1,1151)	1:39:A:LEU:HB2	1:12:A:PHE:HE1	11	0.24
(1,1151)	1:39:A:LEU:HB2	1:12:A:PHE:HE2	11	0.24
(1,1151)	1:39:A:LEU:HB3	1:12:A:PHE:HE1	11	0.24
(1,1151)	1:39:A:LEU:HB3	1:12:A:PHE:HE2	11	0.24
(1,1151)	1:39:A:LEU:HB2	1:12:A:PHE:HE1	19	0.24
(1,1151)	1:39:A:LEU:HB2	1:12:A:PHE:HE2	19	0.24
(1,1151)	1:39:A:LEU:HB3	1:12:A:PHE:HE1	19	0.24
(1,1151)	1:39:A:LEU:HB3	1:12:A:PHE:HE2	19	0.24
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	7	0.24
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	7	0.24
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	9	0.24
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	9	0.24
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	16	0.24
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	16	0.24
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	9	0.24
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	9	0.24
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	7	0.24
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	7	0.24
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	7	0.24
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	2	0.24
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	2	0.24
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	3	0.24
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	3	0.24
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	18	0.24
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	18	0.24
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	7	0.24
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	7	0.24
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	7	0.24
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	7	0.24
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	7	0.24
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	7	0.24
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	7	0.24
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	7	0.24
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	10	0.24
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	12	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	2	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	2	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	2	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	5	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	5	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	5	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	8	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	8	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	8	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	10	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	10	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	10	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	16	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	16	0.24
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	16	0.24
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	3	0.24
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	12	0.24
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	20	0.24
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	5	0.24
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	5	0.24
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	5	0.24
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	5	0.24
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	5	0.24
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	5	0.24
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	12	0.24
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	5	0.24
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	5	0.24
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	5	0.24
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	7	0.24
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	7	0.24
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	7	0.24
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	14	0.24
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	14	0.24
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	14	0.24
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	15	0.24
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	15	0.24
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	15	0.24
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	4	0.24
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	4	0.24
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	4	0.24
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	4	0.24
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	4	0.24
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	4	0.24
(1,645)	1:147:A:ALA:HA	1:148:A:LYS:HA	7	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,645)	1:147:A:ALA:HA	1:148:A:LYS:HA	17	0.24
(1,448)	1:63:A:ILE:HD11	1:71:A:MET:HE1	12	0.24
(1,448)	1:63:A:ILE:HD11	1:71:A:MET:HE2	12	0.24
(1,448)	1:63:A:ILE:HD11	1:71:A:MET:HE3	12	0.24
(1,448)	1:63:A:ILE:HD12	1:71:A:MET:HE1	12	0.24
(1,448)	1:63:A:ILE:HD12	1:71:A:MET:HE2	12	0.24
(1,448)	1:63:A:ILE:HD12	1:71:A:MET:HE3	12	0.24
(1,448)	1:63:A:ILE:HD13	1:71:A:MET:HE1	12	0.24
(1,448)	1:63:A:ILE:HD13	1:71:A:MET:HE2	12	0.24
(1,448)	1:63:A:ILE:HD13	1:71:A:MET:HE3	12	0.24
(1,399)	1:15:A:ALA:HA	1:18:A:LEU:HA	11	0.24
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	4	0.23
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	4	0.23
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	4	0.23
(1,1748)	1:125:A:ILE:HG21	1:126:A:ARG:H	8	0.23
(1,1748)	1:125:A:ILE:HG22	1:126:A:ARG:H	8	0.23
(1,1748)	1:125:A:ILE:HG23	1:126:A:ARG:H	8	0.23
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	8	0.23
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	10	0.23
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	15	0.23
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	18	0.23
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	1	0.23
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	1	0.23
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	2	0.23
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	2	0.23
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	14	0.23
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	14	0.23
(1,1736)	1:135:A:GLN:HB2	1:135:A:GLN:H	2	0.23
(1,1736)	1:135:A:GLN:HB3	1:135:A:GLN:H	2	0.23
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	9	0.23
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	14	0.23
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	17	0.23
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	13	0.23
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	13	0.23
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	13	0.23
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	13	0.23
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	13	0.23
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	13	0.23
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	18	0.23
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	18	0.23
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	16	0.23
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	16	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	16	0.23
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	16	0.23
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	16	0.23
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	16	0.23
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	8	0.23
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	8	0.23
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	8	0.23
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	9	0.23
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	9	0.23
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	9	0.23
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	14	0.23
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	14	0.23
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	14	0.23
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	18	0.23
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	18	0.23
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	18	0.23
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	1	0.23
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	1	0.23
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	2	0.23
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	2	0.23
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	4	0.23
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	4	0.23
(1,1670)	1:18:A:LEU:HB2	1:19:A:PHE:H	8	0.23
(1,1670)	1:18:A:LEU:HB3	1:19:A:PHE:H	8	0.23
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	19	0.23
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	19	0.23
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD1	15	0.23
(1,1656)	1:32:A:LEU:HD11	1:68:A:PHE:HD2	15	0.23
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD1	15	0.23
(1,1656)	1:32:A:LEU:HD12	1:68:A:PHE:HD2	15	0.23
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD1	15	0.23
(1,1656)	1:32:A:LEU:HD13	1:68:A:PHE:HD2	15	0.23
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	18	0.23
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	18	0.23
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	2	0.23
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	2	0.23
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	2	0.23
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	2	0.23
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	2	0.23
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	2	0.23
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	7	0.23
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	7	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	7	0.23
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	7	0.23
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	7	0.23
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	7	0.23
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	4	0.23
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	4	0.23
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	4	0.23
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	9	0.23
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	9	0.23
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	9	0.23
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	14	0.23
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	14	0.23
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	14	0.23
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	4	0.23
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	4	0.23
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	4	0.23
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	9	0.23
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	9	0.23
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	9	0.23
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	14	0.23
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	14	0.23
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	14	0.23
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	15	0.23
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	15	0.23
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	15	0.23
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	1	0.23
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	6	0.23
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	6	0.23
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	6	0.23
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	9	0.23
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	9	0.23
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	2	0.23
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	18	0.23
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	18	0.23
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	18	0.23
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	18	0.23
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	18	0.23
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	18	0.23
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	18	0.23
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	18	0.23
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	18	0.23
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	1	0.23
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	1	0.23
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	1	0.23
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	3	0.23
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	3	0.23
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	3	0.23
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	3	0.23
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	5	0.23
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	5	0.23
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	5	0.23
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	16	0.23
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	16	0.23
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	16	0.23
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	12	0.23
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	12	0.23
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	12	0.23
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	11	0.23
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	11	0.23
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	11	0.23
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	11	0.23
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	1	0.23
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	1	0.23
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	1	0.23
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	1	0.23
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	1	0.23
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	1	0.23
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	3	0.23
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	3	0.23
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	3	0.23
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	3	0.23
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	3	0.23
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	3	0.23
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	9	0.23
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	9	0.23
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	9	0.23
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	9	0.23
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	9	0.23
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	9	0.23
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	11	0.23
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	11	0.23
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	11	0.23
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	11	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	11	0.23
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	11	0.23
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	17	0.23
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	17	0.23
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	17	0.23
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	17	0.23
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	17	0.23
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	17	0.23
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	19	0.23
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	19	0.23
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	19	0.23
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	19	0.23
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	19	0.23
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	19	0.23
(1,1470)	1:108:A:VAL:HG11	1:89:A:PHE:HZ	11	0.23
(1,1470)	1:108:A:VAL:HG12	1:89:A:PHE:HZ	11	0.23
(1,1470)	1:108:A:VAL:HG13	1:89:A:PHE:HZ	11	0.23
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	1	0.23
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	1	0.23
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	1	0.23
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	6	0.23
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	6	0.23
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	6	0.23
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	9	0.23
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	9	0.23
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	9	0.23
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	11	0.23
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	11	0.23
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	11	0.23
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	4	0.23
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	7	0.23
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	12	0.23
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	7	0.23
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	9	0.23
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	17	0.23
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	19	0.23
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	20	0.23
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	11	0.23
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	11	0.23
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	11	0.23
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	11	0.23
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	11	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	11	0.23
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	11	0.23
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	11	0.23
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	11	0.23
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	12	0.23
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	12	0.23
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	12	0.23
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	12	0.23
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	12	0.23
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	12	0.23
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	12	0.23
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	12	0.23
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	12	0.23
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	17	0.23
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	17	0.23
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	17	0.23
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	17	0.23
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	17	0.23
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	17	0.23
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	17	0.23
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	17	0.23
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	17	0.23
(1,1336)	1:21:A:LYS:HE2	1:21:A:LYS:HB2	6	0.23
(1,1336)	1:21:A:LYS:HE2	1:21:A:LYS:HB3	6	0.23
(1,1336)	1:21:A:LYS:HE3	1:21:A:LYS:HB2	6	0.23
(1,1336)	1:21:A:LYS:HE3	1:21:A:LYS:HB3	6	0.23
(1,1336)	1:21:A:LYS:HE2	1:21:A:LYS:HB2	13	0.23
(1,1336)	1:21:A:LYS:HE2	1:21:A:LYS:HB3	13	0.23
(1,1336)	1:21:A:LYS:HE3	1:21:A:LYS:HB2	13	0.23
(1,1336)	1:21:A:LYS:HE3	1:21:A:LYS:HB3	13	0.23
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	1	0.23
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	1	0.23
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	1	0.23
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	1	0.23
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	1	0.23
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	1	0.23
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	1	0.23
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	1	0.23
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	1	0.23
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	9	0.23
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	9	0.23
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	9	0.23
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	9	0.23
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	9	0.23
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	9	0.23
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	9	0.23
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	9	0.23
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	11	0.23
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	11	0.23
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	11	0.23
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	12	0.23
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	12	0.23
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	12	0.23
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	17	0.23
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	17	0.23
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	17	0.23
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	3	0.23
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	5	0.23
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	7	0.23
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	8	0.23
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	9	0.23
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	12	0.23
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	14	0.23
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	15	0.23
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	16	0.23
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	17	0.23
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	18	0.23
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	19	0.23
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	20	0.23
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	5	0.23
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	5	0.23
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	5	0.23
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	5	0.23
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	14	0.23
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	14	0.23
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	15	0.23
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	15	0.23
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	16	0.23
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	16	0.23
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	1	0.23
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	1	0.23
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	5	0.23
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	17	0.23
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	17	0.23
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	19	0.23
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	19	0.23
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	12	0.23
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	12	0.23
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	4	0.23
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	4	0.23
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	4	0.23
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	4	0.23
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	4	0.23
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	4	0.23
(1,1111)	1:124:A:MET:HA	1:141:A:PHE:HZ	20	0.23
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	1	0.23
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	4	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	13	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	13	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	13	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	14	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	14	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	14	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	15	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	15	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	15	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	17	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	17	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	17	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	19	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	19	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	19	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	20	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	20	0.23
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	20	0.23
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	4	0.23
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	4	0.23
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	4	0.23
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	9	0.23
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	9	0.23
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	9	0.23
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	5	0.23
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	10	0.23
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	19	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1034)	1:75:A:LYS:HD2	1:75:A:LYS:H	11	0.23
(1,1034)	1:75:A:LYS:HD3	1:75:A:LYS:H	11	0.23
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	9	0.23
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	9	0.23
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	9	0.23
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	9	0.23
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	9	0.23
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	9	0.23
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	4	0.23
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	4	0.23
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	4	0.23
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	6	0.23
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	6	0.23
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	6	0.23
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	12	0.23
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	12	0.23
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	12	0.23
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	15	0.23
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	15	0.23
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	15	0.23
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	20	0.23
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	20	0.23
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	20	0.23
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	15	0.23
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	15	0.23
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	15	0.23
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	15	0.23
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	15	0.23
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	15	0.23
(1,855)	1:129:A:ALA:HB1	1:136:A:VAL:HG21	11	0.23
(1,855)	1:129:A:ALA:HB1	1:136:A:VAL:HG22	11	0.23
(1,855)	1:129:A:ALA:HB1	1:136:A:VAL:HG23	11	0.23
(1,855)	1:129:A:ALA:HB2	1:136:A:VAL:HG21	11	0.23
(1,855)	1:129:A:ALA:HB2	1:136:A:VAL:HG22	11	0.23
(1,855)	1:129:A:ALA:HB2	1:136:A:VAL:HG23	11	0.23
(1,855)	1:129:A:ALA:HB3	1:136:A:VAL:HG21	11	0.23
(1,855)	1:129:A:ALA:HB3	1:136:A:VAL:HG22	11	0.23
(1,855)	1:129:A:ALA:HB3	1:136:A:VAL:HG23	11	0.23
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	5	0.23
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	5	0.23
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	5	0.23
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	5	0.23
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	5	0.23
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	6	0.23
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	6	0.23
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	6	0.23
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	6	0.23
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	6	0.23
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	6	0.23
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	10	0.23
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	10	0.23
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	10	0.23
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	10	0.23
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	10	0.23
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	10	0.23
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	13	0.23
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	13	0.23
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	13	0.23
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	13	0.23
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	13	0.23
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	13	0.23
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	13	0.22
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	13	0.22
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	13	0.22
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	15	0.22
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	15	0.22
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	15	0.22
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	1	0.22
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	2	0.22
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	3	0.22
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	5	0.22
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	6	0.22
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	11	0.22
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	12	0.22
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	17	0.22
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	19	0.22
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	20	0.22
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	7	0.22
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	7	0.22
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	13	0.22
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	13	0.22
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	2	0.22
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	6	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	6	0.22
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	18	0.22
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	18	0.22
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	19	0.22
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	19	0.22
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	2	0.22
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	3	0.22
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	16	0.22
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	10	0.22
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	10	0.22
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	14	0.22
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	14	0.22
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	20	0.22
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	20	0.22
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	13	0.22
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	13	0.22
(1,1711)	1:97:A:ASN:HB2	1:97:A:ASN:H	7	0.22
(1,1711)	1:97:A:ASN:HB3	1:97:A:ASN:H	7	0.22
(1,1711)	1:97:A:ASN:HB2	1:97:A:ASN:H	9	0.22
(1,1711)	1:97:A:ASN:HB3	1:97:A:ASN:H	9	0.22
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE1	16	0.22
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE2	16	0.22
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	9	0.22
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	9	0.22
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	9	0.22
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	9	0.22
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	9	0.22
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	9	0.22
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	10	0.22
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	10	0.22
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	10	0.22
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	10	0.22
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	10	0.22
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	10	0.22
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	14	0.22
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	14	0.22
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	14	0.22
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	14	0.22
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	14	0.22
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	14	0.22
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	15	0.22
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	15	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	15	0.22
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	15	0.22
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	15	0.22
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	15	0.22
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	11	0.22
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	11	0.22
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	11	0.22
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	11	0.22
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	11	0.22
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	11	0.22
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	20	0.22
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	2	0.22
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	2	0.22
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	2	0.22
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	6	0.22
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	6	0.22
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	6	0.22
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	7	0.22
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	7	0.22
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	7	0.22
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	10	0.22
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	10	0.22
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	10	0.22
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	16	0.22
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	16	0.22
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	16	0.22
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	17	0.22
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	17	0.22
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	17	0.22
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	20	0.22
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	20	0.22
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	20	0.22
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	12	0.22
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	12	0.22
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	4	0.22
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	4	0.22
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	14	0.22
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	14	0.22
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	14	0.22
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	14	0.22
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	14	0.22
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	14	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	7	0.22
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	7	0.22
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	7	0.22
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	15	0.22
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	15	0.22
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	15	0.22
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	19	0.22
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	19	0.22
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	19	0.22
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	1	0.22
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	1	0.22
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	1	0.22
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	2	0.22
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	2	0.22
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	2	0.22
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	5	0.22
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	5	0.22
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	5	0.22
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	7	0.22
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	7	0.22
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	7	0.22
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	10	0.22
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	10	0.22
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	10	0.22
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	17	0.22
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	17	0.22
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	17	0.22
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	18	0.22
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	18	0.22
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	18	0.22
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	19	0.22
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	19	0.22
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	19	0.22
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	2	0.22
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	5	0.22
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	17	0.22
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	18	0.22
(1,1616)	1:137:A:ASN:HB2	1:137:A:ASN:H	17	0.22
(1,1616)	1:137:A:ASN:HB3	1:137:A:ASN:H	17	0.22
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	14	0.22
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	14	0.22
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	14	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	20	0.22
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	20	0.22
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	2	0.22
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	2	0.22
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	2	0.22
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	2	0.22
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	10	0.22
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	12	0.22
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	6	0.22
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	5	0.22
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	5	0.22
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	5	0.22
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	12	0.22
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	12	0.22
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	12	0.22
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	13	0.22
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	13	0.22
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	13	0.22
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	13	0.22
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	13	0.22
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	13	0.22
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	13	0.22
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	13	0.22
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	13	0.22
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	5	0.22
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	5	0.22
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	5	0.22
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	5	0.22
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	5	0.22
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	5	0.22
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	11	0.22
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	12	0.22
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	3	0.22
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	3	0.22
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	3	0.22
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	19	0.22
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	19	0.22
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	19	0.22
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	2	0.22
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	2	0.22
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	2	0.22
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	5	0.22
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	5	0.22
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	11	0.22
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	11	0.22
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	11	0.22
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	13	0.22
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	13	0.22
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	13	0.22
(1,1514)	1:34:A:THR:HA	1:37:A:ARG:H	18	0.22
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	2	0.22
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	2	0.22
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	2	0.22
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	2	0.22
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	2	0.22
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	2	0.22
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	7	0.22
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	7	0.22
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	7	0.22
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	7	0.22
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	7	0.22
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	7	0.22
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	13	0.22
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	13	0.22
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	13	0.22
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	13	0.22
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	13	0.22
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	13	0.22
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	16	0.22
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	16	0.22
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	16	0.22
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	16	0.22
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	16	0.22
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	16	0.22
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	2	0.22
(1,1467)	1:119:A:GLU:HA	1:122:A:ASP:H	10	0.22
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	14	0.22
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	16	0.22
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	4	0.22
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	15	0.22
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	2	0.22
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	2	0.22
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	2	0.22
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	2	0.22
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	2	0.22
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	2	0.22
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	2	0.22
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	2	0.22
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	10	0.22
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	10	0.22
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	10	0.22
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	10	0.22
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	10	0.22
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	10	0.22
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	10	0.22
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	10	0.22
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	10	0.22
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	4	0.22
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	4	0.22
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	4	0.22
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	4	0.22
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	4	0.22
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	4	0.22
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	7	0.22
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	7	0.22
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	7	0.22
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	7	0.22
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	7	0.22
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	7	0.22
(1,1329)	1:37:A:ARG:HG2	1:37:A:ARG:H	15	0.22
(1,1329)	1:37:A:ARG:HG3	1:37:A:ARG:H	15	0.22
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG21	19	0.22
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG22	19	0.22
(1,1326)	1:48:A:LEU:HD21	1:29:A:THR:HG23	19	0.22
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG21	19	0.22
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG22	19	0.22
(1,1326)	1:48:A:LEU:HD22	1:29:A:THR:HG23	19	0.22
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG21	19	0.22
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG22	19	0.22
(1,1326)	1:48:A:LEU:HD23	1:29:A:THR:HG23	19	0.22
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	2	0.22
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	4	0.22
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	6	0.22
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	13	0.22
(1,1283)	1:130:A:ILE:HB	1:130:A:ILE:H	9	0.22
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	11	0.22
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	11	0.22
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	11	0.22
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	11	0.22
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	11	0.22
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	8	0.22
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	8	0.22
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	19	0.22
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	19	0.22
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	4	0.22
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	4	0.22
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	10	0.22
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	10	0.22
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	12	0.22
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	12	0.22
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	12	0.22
(1,1123)	1:112:A:LEU:HD21	1:113:A:GLY:H	12	0.22
(1,1123)	1:112:A:LEU:HD22	1:113:A:GLY:H	12	0.22
(1,1123)	1:112:A:LEU:HD23	1:113:A:GLY:H	12	0.22
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	5	0.22
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	5	0.22
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	5	0.22
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	5	0.22
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	5	0.22
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	5	0.22
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	13	0.22
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	13	0.22
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	13	0.22
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	13	0.22
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	13	0.22
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	13	0.22
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	14	0.22
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	14	0.22
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	14	0.22
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	14	0.22
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	14	0.22
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	14	0.22
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	19	0.22
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	19	0.22
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	19	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	19	0.22
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	19	0.22
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	19	0.22
(1,1111)	1:124:A:MET:HA	1:141:A:PHE:HZ	18	0.22
(1,1111)	1:124:A:MET:HA	1:141:A:PHE:HZ	19	0.22
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	8	0.22
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	17	0.22
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	4	0.22
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	4	0.22
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	4	0.22
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	9	0.22
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	9	0.22
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	9	0.22
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	9	0.22
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	9	0.22
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	9	0.22
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	9	0.22
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	9	0.22
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	9	0.22
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	9	0.22
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	9	0.22
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	9	0.22
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	9	0.22
(1,1034)	1:75:A:LYS:HD2	1:75:A:LYS:H	5	0.22
(1,1034)	1:75:A:LYS:HD3	1:75:A:LYS:H	5	0.22
(1,1034)	1:75:A:LYS:HD2	1:75:A:LYS:H	12	0.22
(1,1034)	1:75:A:LYS:HD3	1:75:A:LYS:H	12	0.22
(1,1000)	1:148:A:LYS:HD2	1:148:A:LYS:HA	18	0.22
(1,1000)	1:148:A:LYS:HD3	1:148:A:LYS:HA	18	0.22
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	6	0.22
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	2	0.22
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	2	0.22
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	2	0.22
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	8	0.22
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	8	0.22
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	8	0.22
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	13	0.22
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	13	0.22
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	13	0.22
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	1	0.22
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	1	0.22
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	1	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	11	0.22
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	11	0.22
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	11	0.22
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	2	0.22
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	2	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	2	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	2	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	2	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	2	0.22
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	3	0.22
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	3	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	3	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	3	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	3	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	3	0.22
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	9	0.22
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	9	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	9	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	9	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	9	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	9	0.22
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	14	0.22
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	14	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	14	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	14	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	14	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	14	0.22
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	16	0.22
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	16	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	16	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	16	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	16	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	16	0.22
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	20	0.22
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	20	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	20	0.22
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	20	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	20	0.22
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	20	0.22
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	9	0.22
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	9	0.22
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	9	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	9	0.22
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	9	0.22
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	9	0.22
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	9	0.22
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	9	0.22
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	9	0.22
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	10	0.22
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	10	0.22
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	10	0.22
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	10	0.22
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	10	0.22
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	10	0.22
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	10	0.22
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	10	0.22
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	10	0.22
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	18	0.22
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	18	0.22
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	18	0.22
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	18	0.22
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	18	0.22
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	18	0.22
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	18	0.22
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	18	0.22
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	18	0.22
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD11	7	0.22
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD12	7	0.22
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD13	7	0.22
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD11	7	0.22
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD12	7	0.22
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD13	7	0.22
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD11	7	0.22
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD12	7	0.22
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD13	7	0.22
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD11	18	0.22
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD12	18	0.22
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD13	18	0.22
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD11	18	0.22
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD12	18	0.22
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD13	18	0.22
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD11	18	0.22
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD12	18	0.22
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD13	18	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	6	0.21
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	6	0.21
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	6	0.21
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	13	0.21
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	13	0.21
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	13	0.21
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	13	0.21
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	13	0.21
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	13	0.21
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	8	0.21
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	8	0.21
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	8	0.21
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	7	0.21
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	13	0.21
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	3	0.21
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	3	0.21
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	10	0.21
(1,1736)	1:135:A:GLN:HB2	1:135:A:GLN:H	17	0.21
(1,1736)	1:135:A:GLN:HB3	1:135:A:GLN:H	17	0.21
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	13	0.21
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	13	0.21
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	4	0.21
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	10	0.21
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	9	0.21
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	9	0.21
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	9	0.21
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	9	0.21
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	9	0.21
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	9	0.21
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	11	0.21
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	11	0.21
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	12	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	1	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	1	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	1	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	1	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	1	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	1	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	6	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	6	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	6	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	6	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	6	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	7	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	7	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	7	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	7	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	7	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	7	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	8	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	8	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	8	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	8	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	8	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	8	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	11	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	11	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	11	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	11	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	11	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	11	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	13	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	13	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	13	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	13	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	13	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	13	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	17	0.21
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	17	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	17	0.21
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	17	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	17	0.21
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	17	0.21
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	19	0.21
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	19	0.21
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	19	0.21
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	19	0.21
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	19	0.21
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	19	0.21
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	1	0.21
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	3	0.21
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	8	0.21
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	16	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	17	0.21
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	20	0.21
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	3	0.21
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	1	0.21
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	4	0.21
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	5	0.21
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	6	0.21
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	7	0.21
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	8	0.21
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	11	0.21
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	13	0.21
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	16	0.21
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	12	0.21
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	12	0.21
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	12	0.21
(1,1675)	1:9:A:ILE:HG21	1:10:A:ALA:H	13	0.21
(1,1675)	1:9:A:ILE:HG22	1:10:A:ALA:H	13	0.21
(1,1675)	1:9:A:ILE:HG23	1:10:A:ALA:H	13	0.21
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	4	0.21
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	4	0.21
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	10	0.21
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	10	0.21
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	1	0.21
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	3	0.21
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	8	0.21
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	11	0.21
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	15	0.21
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	17	0.21
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	19	0.21
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	10	0.21
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	10	0.21
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	10	0.21
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	10	0.21
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	18	0.21
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	18	0.21
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	18	0.21
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	18	0.21
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	4	0.21
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	4	0.21
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	4	0.21
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	4	0.21
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	4	0.21
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	6	0.21
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	6	0.21
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	6	0.21
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	6	0.21
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	6	0.21
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	6	0.21
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	1	0.21
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	1	0.21
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	1	0.21
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	5	0.21
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	5	0.21
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	5	0.21
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	12	0.21
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	12	0.21
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	12	0.21
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	17	0.21
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	17	0.21
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	17	0.21
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	11	0.21
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	11	0.21
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	11	0.21
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	12	0.21
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	12	0.21
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	12	0.21
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	6	0.21
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	8	0.21
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	10	0.21
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	14	0.21
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	15	0.21
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	16	0.21
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	19	0.21
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	6	0.21
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	6	0.21
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	6	0.21
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	6	0.21
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	11	0.21
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	11	0.21
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	11	0.21
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	18	0.21
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	18	0.21
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	18	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	11	0.21
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	11	0.21
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	16	0.21
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	16	0.21
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	8	0.21
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	8	0.21
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	17	0.21
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	18	0.21
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	19	0.21
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	20	0.21
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	19	0.21
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	19	0.21
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	19	0.21
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	19	0.21
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	19	0.21
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	19	0.21
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	19	0.21
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	19	0.21
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	19	0.21
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	19	0.21
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	1	0.21
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	1	0.21
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	1	0.21
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	1	0.21
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	1	0.21
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	1	0.21
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	11	0.21
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	11	0.21
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	11	0.21
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	11	0.21
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	18	0.21
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	18	0.21
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	18	0.21
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	18	0.21
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	19	0.21
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	19	0.21
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	19	0.21
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	19	0.21
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	4	0.21
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	4	0.21
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	4	0.21
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	10	0.21
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	10	0.21
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	11	0.21
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	11	0.21
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	11	0.21
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	14	0.21
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	14	0.21
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	14	0.21
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	6	0.21
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	6	0.21
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	6	0.21
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	7	0.21
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	7	0.21
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	7	0.21
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	8	0.21
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	8	0.21
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	8	0.21
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	14	0.21
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	14	0.21
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	14	0.21
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	15	0.21
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	15	0.21
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	15	0.21
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	17	0.21
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	17	0.21
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	17	0.21
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	12	0.21
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	12	0.21
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	6	0.21
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	10	0.21
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	10	0.21
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	10	0.21
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	10	0.21
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	10	0.21
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	10	0.21
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	15	0.21
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	15	0.21
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	15	0.21
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	15	0.21
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	15	0.21
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	15	0.21
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1438)	1:81:A:SER:HA	1:82:A:GLU:H	3	0.21
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	6	0.21
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	7	0.21
(1,1424)	1:95:A:ASP:HA	1:96:A:GLY:H	12	0.21
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	7	0.21
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	7	0.21
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	7	0.21
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	7	0.21
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	7	0.21
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	7	0.21
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	14	0.21
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	14	0.21
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	14	0.21
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	14	0.21
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	14	0.21
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	14	0.21
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	15	0.21
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	15	0.21
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	15	0.21
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	15	0.21
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	15	0.21
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	15	0.21
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	18	0.21
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	18	0.21
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	18	0.21
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	18	0.21
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	18	0.21
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	18	0.21
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	20	0.21
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	20	0.21
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	20	0.21
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	20	0.21
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	20	0.21
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	20	0.21
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	12	0.21
(1,1329)	1:37:A:ARG:HG2	1:37:A:ARG:H	2	0.21
(1,1329)	1:37:A:ARG:HG3	1:37:A:ARG:H	2	0.21
(1,1329)	1:37:A:ARG:HG2	1:37:A:ARG:H	6	0.21
(1,1329)	1:37:A:ARG:HG3	1:37:A:ARG:H	6	0.21
(1,1329)	1:37:A:ARG:HG2	1:37:A:ARG:H	17	0.21
(1,1329)	1:37:A:ARG:HG3	1:37:A:ARG:H	17	0.21
(1,1296)	1:121:A:VAL:HA	1:122:A:ASP:H	11	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	4	0.21
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	4	0.21
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	12	0.21
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	12	0.21
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	12	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	1	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	1	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	1	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	13	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	13	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	13	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	15	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	15	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	15	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	16	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	16	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	16	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	20	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	20	0.21
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	20	0.21
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	3	0.21
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	3	0.21
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	5	0.21
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	5	0.21
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	13	0.21
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	13	0.21
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	17	0.21
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	17	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	1	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	1	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	2	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	2	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	5	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	5	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	14	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	14	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	17	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	17	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	18	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	18	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG2	19	0.21
(1,1127)	1:116:A:LEU:HA	1:115:A:LYS:HG3	19	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	10	0.21
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	10	0.21
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	10	0.21
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	16	0.21
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	16	0.21
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	16	0.21
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	3	0.21
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	3	0.21
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	15	0.21
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	15	0.21
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	15	0.21
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	15	0.21
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	15	0.21
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	15	0.21
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	3	0.21
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	14	0.21
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	3	0.21
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	3	0.21
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	3	0.21
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	15	0.21
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	15	0.21
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	15	0.21
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	4	0.21
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	7	0.21
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	14	0.21
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	18	0.21
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	19	0.21
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	19	0.21
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	19	0.21
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	19	0.21
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	19	0.21
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	19	0.21
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	7	0.21
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	7	0.21
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	7	0.21
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	7	0.21
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	7	0.21
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	7	0.21
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	7	0.21
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	7	0.21
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	7	0.21
(1,1034)	1:75:A:LYS:HD2	1:75:A:LYS:H	19	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1034)	1:75:A:LYS:HD3	1:75:A:LYS:H	19	0.21
(1,1022)	1:94:A:LYS:HE2	1:94:A:LYS:HA	2	0.21
(1,1022)	1:94:A:LYS:HE3	1:94:A:LYS:HA	2	0.21
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	11	0.21
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	11	0.21
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	11	0.21
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	11	0.21
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	11	0.21
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	11	0.21
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	13	0.21
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	13	0.21
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	13	0.21
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	13	0.21
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	13	0.21
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	13	0.21
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	1	0.21
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	1	0.21
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	1	0.21
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	2	0.21
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	7	0.21
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	4	0.21
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	10	0.21
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	15	0.21
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	16	0.21
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	17	0.21
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	17	0.21
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	17	0.21
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	3	0.21
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	3	0.21
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	3	0.21
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	19	0.21
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	19	0.21
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	19	0.21
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	6	0.21
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	6	0.21
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	6	0.21
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	13	0.21
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	13	0.21
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	13	0.21
(1,855)	1:129:A:ALA:HB1	1:136:A:VAL:HG21	8	0.21
(1,855)	1:129:A:ALA:HB1	1:136:A:VAL:HG22	8	0.21
(1,855)	1:129:A:ALA:HB1	1:136:A:VAL:HG23	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,855)	1:129:A:ALA:HB2	1:136:A:VAL:HG21	8	0.21
(1,855)	1:129:A:ALA:HB2	1:136:A:VAL:HG22	8	0.21
(1,855)	1:129:A:ALA:HB2	1:136:A:VAL:HG23	8	0.21
(1,855)	1:129:A:ALA:HB3	1:136:A:VAL:HG21	8	0.21
(1,855)	1:129:A:ALA:HB3	1:136:A:VAL:HG22	8	0.21
(1,855)	1:129:A:ALA:HB3	1:136:A:VAL:HG23	8	0.21
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	3	0.21
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	3	0.21
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	3	0.21
(1,582)	1:130:A:ILE:HD11	1:135:A:GLN:HB2	6	0.21
(1,582)	1:130:A:ILE:HD11	1:135:A:GLN:HB3	6	0.21
(1,582)	1:130:A:ILE:HD12	1:135:A:GLN:HB2	6	0.21
(1,582)	1:130:A:ILE:HD12	1:135:A:GLN:HB3	6	0.21
(1,582)	1:130:A:ILE:HD13	1:135:A:GLN:HB2	6	0.21
(1,582)	1:130:A:ILE:HD13	1:135:A:GLN:HB3	6	0.21
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	4	0.21
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	4	0.21
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	4	0.21
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	4	0.21
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	4	0.21
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	4	0.21
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	18	0.21
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	18	0.21
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	18	0.21
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	18	0.21
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	18	0.21
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	18	0.21
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	4	0.21
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	4	0.21
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	4	0.21
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	4	0.21
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	4	0.21
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	4	0.21
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	4	0.21
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	4	0.21
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	4	0.21
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	1	0.2
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	1	0.2
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	1	0.2
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	1	0.2
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	1	0.2
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	12	0.2
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	12	0.2
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	12	0.2
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	12	0.2
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	12	0.2
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	12	0.2
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	17	0.2
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	17	0.2
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	17	0.2
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	17	0.2
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	17	0.2
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	17	0.2
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	14	0.2
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	14	0.2
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	14	0.2
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	16	0.2
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	16	0.2
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	16	0.2
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	18	0.2
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	18	0.2
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	18	0.2
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	18	0.2
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	18	0.2
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	20	0.2
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	20	0.2
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	6	0.2
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	8	0.2
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	15	0.2
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	16	0.2
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	17	0.2
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	18	0.2
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	5	0.2
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	5	0.2
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	10	0.2
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	10	0.2
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	15	0.2
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	1	0.2
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	11	0.2
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	15	0.2
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	20	0.2
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	4	0.2
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	4	0.2
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	4	0.2
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	4	0.2
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	4	0.2
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	3	0.2
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	3	0.2
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	5	0.2
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	6	0.2
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	8	0.2
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	9	0.2
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	10	0.2
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	11	0.2
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	12	0.2
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	1	0.2
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	5	0.2
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	7	0.2
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	8	0.2
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	11	0.2
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	13	0.2
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	14	0.2
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	15	0.2
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	4	0.2
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	6	0.2
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	7	0.2
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	9	0.2
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	10	0.2
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	13	0.2
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	14	0.2
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	18	0.2
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	19	0.2
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	1	0.2
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	4	0.2
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	6	0.2
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	8	0.2
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	11	0.2
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	13	0.2
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	16	0.2
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	17	0.2
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	2	0.2
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	3	0.2
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	9	0.2
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	12	0.2
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	14	0.2
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	15	0.2
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	17	0.2
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	18	0.2
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	19	0.2
(1,1681)	1:63:A:ILE:HA	1:63:A:ILE:H	20	0.2
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	7	0.2
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	14	0.2
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	15	0.2
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	20	0.2
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	1	0.2
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	2	0.2
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	2	0.2
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	8	0.2
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	8	0.2
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	18	0.2
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	18	0.2
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	20	0.2
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	20	0.2
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	2	0.2
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	4	0.2
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	6	0.2
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	7	0.2
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	9	0.2
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	10	0.2
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	12	0.2
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	13	0.2
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	14	0.2
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	18	0.2
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	20	0.2
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	4	0.2
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	10	0.2
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	14	0.2
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	15	0.2
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	18	0.2
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	10	0.2
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	10	0.2
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	10	0.2
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	10	0.2
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	10	0.2
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	15	0.2
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	15	0.2
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	15	0.2
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	15	0.2
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	15	0.2
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	15	0.2
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD11	18	0.2
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD12	18	0.2
(1,1644)	1:48:A:LEU:HB2	1:32:A:LEU:HD13	18	0.2
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD11	18	0.2
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD12	18	0.2
(1,1644)	1:48:A:LEU:HB3	1:32:A:LEU:HD13	18	0.2
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	2	0.2
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	2	0.2
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	2	0.2
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	18	0.2
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	18	0.2
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	18	0.2
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	6	0.2
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	6	0.2
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	6	0.2
(1,1633)	1:114:A:GLU:HB2	1:115:A:LYS:H	12	0.2
(1,1633)	1:114:A:GLU:HB3	1:115:A:LYS:H	12	0.2
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	3	0.2
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	4	0.2
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	7	0.2
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	9	0.2
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	11	0.2
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	12	0.2
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	13	0.2
(1,1627)	1:108:A:VAL:HA	1:109:A:MET:H	20	0.2
(1,1626)	1:120:A:GLU:HB2	1:117:A:THR:H	7	0.2
(1,1626)	1:120:A:GLU:HB3	1:117:A:THR:H	7	0.2
(1,1626)	1:120:A:GLU:HB2	1:117:A:THR:H	12	0.2
(1,1626)	1:120:A:GLU:HB3	1:117:A:THR:H	12	0.2
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD1	6	0.2
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD2	6	0.2
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD1	6	0.2
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD2	6	0.2
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD1	6	0.2
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD2	6	0.2
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	3	0.2
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	3	0.2
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	15	0.2
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	15	0.2
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	15	0.2
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	7	0.2
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	7	0.2
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	7	0.2
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	7	0.2
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	13	0.2
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	13	0.2
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	13	0.2
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	13	0.2
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	7	0.2
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	8	0.2
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	16	0.2
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	1	0.2
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	2	0.2
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	10	0.2
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	17	0.2
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	18	0.2
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	20	0.2
(1,1570)	1:32:A:LEU:HD21	1:68:A:PHE:HZ	11	0.2
(1,1570)	1:32:A:LEU:HD22	1:68:A:PHE:HZ	11	0.2
(1,1570)	1:32:A:LEU:HD23	1:68:A:PHE:HZ	11	0.2
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	17	0.2
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	17	0.2
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	17	0.2
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	17	0.2
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	17	0.2
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	17	0.2
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	17	0.2
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	17	0.2
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	17	0.2
(1,1556)	1:145:A:MET:HG2	1:145:A:MET:H	11	0.2
(1,1556)	1:145:A:MET:HG3	1:145:A:MET:H	11	0.2
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	4	0.2
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	4	0.2
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	4	0.2
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	4	0.2
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	1	0.2
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	1	0.2
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	2	0.2
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	2	0.2
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	2	0.2
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	8	0.2
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	8	0.2
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	8	0.2
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	9	0.2
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	9	0.2
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	9	0.2
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	12	0.2
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	12	0.2
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	12	0.2
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	15	0.2
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	15	0.2
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	15	0.2
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	17	0.2
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	17	0.2
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	17	0.2
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	18	0.2
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	18	0.2
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	18	0.2
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	20	0.2
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	20	0.2
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	20	0.2
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	3	0.2
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	3	0.2
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	3	0.2
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	9	0.2
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	9	0.2
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	9	0.2
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	10	0.2
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	10	0.2
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	10	0.2
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	16	0.2
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	16	0.2
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	16	0.2
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	18	0.2
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	18	0.2
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	18	0.2
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	19	0.2
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	19	0.2
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	20	0.2
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	20	0.2
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	20	0.2
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	15	0.2
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	8	0.2
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	8	0.2
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	8	0.2
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	8	0.2
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	8	0.2
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	8	0.2
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	12	0.2
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	12	0.2
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	12	0.2
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	12	0.2
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	12	0.2
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	12	0.2
(1,1468)	1:108:A:VAL:HG11	1:109:A:MET:H	20	0.2
(1,1468)	1:108:A:VAL:HG12	1:109:A:MET:H	20	0.2
(1,1468)	1:108:A:VAL:HG13	1:109:A:MET:H	20	0.2
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	6	0.2
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	12	0.2
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	1	0.2
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	6	0.2
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	8	0.2
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	2	0.2
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	13	0.2
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	15	0.2
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	18	0.2
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	19	0.2
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	4	0.2
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	4	0.2
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	4	0.2
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	4	0.2
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	4	0.2
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	4	0.2
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	4	0.2
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	4	0.2
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	4	0.2
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	13	0.2
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	13	0.2
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	13	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	13	0.2
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	13	0.2
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	13	0.2
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	13	0.2
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	13	0.2
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	13	0.2
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	14	0.2
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	14	0.2
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	14	0.2
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	14	0.2
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	14	0.2
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	14	0.2
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	14	0.2
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	14	0.2
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	14	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	3	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	3	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	3	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	3	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	3	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	3	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	5	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	5	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	5	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	5	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	5	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	5	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	8	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	8	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	8	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	8	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	8	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	8	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	9	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	9	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	9	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	9	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	9	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	9	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	13	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	13	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	13	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	13	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	13	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	13	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	16	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	16	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	16	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	16	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	16	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	16	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	19	0.2
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	19	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	19	0.2
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	19	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	19	0.2
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	19	0.2
(1,1336)	1:21:A:LYS:HE2	1:21:A:LYS:HB2	5	0.2
(1,1336)	1:21:A:LYS:HE2	1:21:A:LYS:HB3	5	0.2
(1,1336)	1:21:A:LYS:HE3	1:21:A:LYS:HB2	5	0.2
(1,1336)	1:21:A:LYS:HE3	1:21:A:LYS:HB3	5	0.2
(1,1336)	1:21:A:LYS:HE2	1:21:A:LYS:HB2	16	0.2
(1,1336)	1:21:A:LYS:HE2	1:21:A:LYS:HB3	16	0.2
(1,1336)	1:21:A:LYS:HE3	1:21:A:LYS:HB2	16	0.2
(1,1336)	1:21:A:LYS:HE3	1:21:A:LYS:HB3	16	0.2
(1,1329)	1:37:A:ARG:HG2	1:37:A:ARG:H	1	0.2
(1,1329)	1:37:A:ARG:HG3	1:37:A:ARG:H	1	0.2
(1,1329)	1:37:A:ARG:HG2	1:37:A:ARG:H	8	0.2
(1,1329)	1:37:A:ARG:HG3	1:37:A:ARG:H	8	0.2
(1,1329)	1:37:A:ARG:HG2	1:37:A:ARG:H	11	0.2
(1,1329)	1:37:A:ARG:HG3	1:37:A:ARG:H	11	0.2
(1,1329)	1:37:A:ARG:HG2	1:37:A:ARG:H	19	0.2
(1,1329)	1:37:A:ARG:HG3	1:37:A:ARG:H	19	0.2
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	3	0.2
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	3	0.2
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	3	0.2
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	16	0.2
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	16	0.2
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	16	0.2
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	20	0.2
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	20	0.2
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	20	0.2
(1,1284)	1:130:A:ILE:HB	1:131:A:ASP:H	5	0.2
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	10	0.2
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	10	0.2
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	10	0.2
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	9	0.2
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	9	0.2
(1,1222)	1:94:A:LYS:HD2	1:94:A:LYS:H	2	0.2
(1,1222)	1:94:A:LYS:HD3	1:94:A:LYS:H	2	0.2
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	10	0.2
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	14	0.2
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	5	0.2
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	5	0.2
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	3	0.2
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	3	0.2
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	3	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	3	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	3	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	3	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	4	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	4	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	4	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	6	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	6	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	6	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	7	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	7	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	7	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	8	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	8	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	8	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	10	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	10	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	10	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	14	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	14	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	14	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	17	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	17	0.2
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	17	0.2
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	2	0.2
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	2	0.2
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD2	10	0.2
(1,1133)	1:106:A:ARG:HA	1:106:A:ARG:HD3	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	9	0.2
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	9	0.2
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	16	0.2
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	16	0.2
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	2	0.2
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	2	0.2
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	2	0.2
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	2	0.2
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	2	0.2
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	2	0.2
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	6	0.2
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	18	0.2
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	11	0.2
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	11	0.2
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	11	0.2
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	7	0.2
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	7	0.2
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	7	0.2
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	2	0.2
(1,1081)	1:136:A:VAL:HB	1:137:A:ASN:H	16	0.2
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	12	0.2
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	12	0.2
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	12	0.2
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	12	0.2
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	12	0.2
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	12	0.2
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	4	0.2
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	4	0.2
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	4	0.2
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	4	0.2
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	4	0.2
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	4	0.2
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	4	0.2
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	4	0.2
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	4	0.2
(1,1034)	1:75:A:LYS:HD2	1:75:A:LYS:H	16	0.2
(1,1034)	1:75:A:LYS:HD3	1:75:A:LYS:H	16	0.2
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	18	0.2
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	18	0.2
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	18	0.2
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	4	0.2
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	11	0.2
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	13	0.2
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	14	0.2
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	17	0.2
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	18	0.2
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	2	0.2
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	5	0.2
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	7	0.2
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	8	0.2
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	9	0.2
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	13	0.2
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	14	0.2
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	17	0.2
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	19	0.2
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	20	0.2
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	17	0.2
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	17	0.2
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	17	0.2
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	11	0.2
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	11	0.2
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	11	0.2
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	11	0.2
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	11	0.2
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	11	0.2
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	10	0.2
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	10	0.2
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	10	0.2
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	10	0.2
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	10	0.2
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	10	0.2
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	18	0.2
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	18	0.2
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	18	0.2
(1,605)	1:114:A:GLU:HA	1:115:A:LYS:HA	7	0.2
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	17	0.2
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	17	0.2
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	17	0.2
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	17	0.2
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	17	0.2
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	17	0.2
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	7	0.2
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	7	0.2
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	7	0.2
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	7	0.2
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	7	0.2
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	7	0.2
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	7	0.2
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	7	0.2
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	14	0.2
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	14	0.2
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	14	0.2
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	14	0.2
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	14	0.2
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	14	0.2
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	14	0.2
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	14	0.2
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	14	0.2
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	20	0.2
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	20	0.2
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	20	0.2
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	20	0.2
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	20	0.2
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	20	0.2
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	20	0.2
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	20	0.2
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	20	0.2
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	2	0.19
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	2	0.19
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	2	0.19
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	4	0.19
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	4	0.19
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	4	0.19
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	4	0.19
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	4	0.19
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	4	0.19
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	6	0.19
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	6	0.19
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	6	0.19
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	6	0.19
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	6	0.19
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	6	0.19
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	8	0.19
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	8	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	8	0.19
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	8	0.19
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	8	0.19
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	8	0.19
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	3	0.19
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	3	0.19
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	3	0.19
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	7	0.19
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	7	0.19
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	7	0.19
(1,1756)	1:106:A:ARG:HB2	1:106:A:ARG:H	6	0.19
(1,1756)	1:106:A:ARG:HB3	1:106:A:ARG:H	6	0.19
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	14	0.19
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	16	0.19
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	11	0.19
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	11	0.19
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	5	0.19
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	12	0.19
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	13	0.19
(1,1736)	1:135:A:GLN:HB2	1:135:A:GLN:H	8	0.19
(1,1736)	1:135:A:GLN:HB3	1:135:A:GLN:H	8	0.19
(1,1736)	1:135:A:GLN:HB2	1:135:A:GLN:H	10	0.19
(1,1736)	1:135:A:GLN:HB3	1:135:A:GLN:H	10	0.19
(1,1736)	1:135:A:GLN:HB2	1:135:A:GLN:H	18	0.19
(1,1736)	1:135:A:GLN:HB3	1:135:A:GLN:H	18	0.19
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	6	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	2	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	3	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	4	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	5	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	6	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	8	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	9	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	10	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	12	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	14	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	16	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	17	0.19
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	19	0.19
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	3	0.19
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	4	0.19
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	14	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	15	0.19
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	16	0.19
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	20	0.19
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	4	0.19
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	4	0.19
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	5	0.19
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	5	0.19
(1,1712)	1:97:A:ASN:HB2	1:99:A:TYR:HD1	4	0.19
(1,1712)	1:97:A:ASN:HB2	1:99:A:TYR:HD2	4	0.19
(1,1712)	1:97:A:ASN:HB3	1:99:A:TYR:HD1	4	0.19
(1,1712)	1:97:A:ASN:HB3	1:99:A:TYR:HD2	4	0.19
(1,1712)	1:97:A:ASN:HB2	1:99:A:TYR:HD1	9	0.19
(1,1712)	1:97:A:ASN:HB2	1:99:A:TYR:HD2	9	0.19
(1,1712)	1:97:A:ASN:HB3	1:99:A:TYR:HD1	9	0.19
(1,1712)	1:97:A:ASN:HB3	1:99:A:TYR:HD2	9	0.19
(1,1711)	1:97:A:ASN:HB2	1:97:A:ASN:H	14	0.19
(1,1711)	1:97:A:ASN:HB3	1:97:A:ASN:H	14	0.19
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	3	0.19
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	4	0.19
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	9	0.19
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	18	0.19
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	15	0.19
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	7	0.19
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	4	0.19
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	12	0.19
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	17	0.19
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	18	0.19
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	7	0.19
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	7	0.19
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	9	0.19
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	9	0.19
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	14	0.19
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	14	0.19
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	15	0.19
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	15	0.19
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	17	0.19
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	17	0.19
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	16	0.19
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	4	0.19
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	4	0.19
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	4	0.19
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	9	0.19
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	9	0.19
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	9	0.19
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	9	0.19
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	2	0.19
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	5	0.19
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	6	0.19
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	7	0.19
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	8	0.19
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	9	0.19
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	13	0.19
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	16	0.19
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	17	0.19
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	20	0.19
(1,1633)	1:114:A:GLU:HB2	1:115:A:LYS:H	7	0.19
(1,1633)	1:114:A:GLU:HB3	1:115:A:LYS:H	7	0.19
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	16	0.19
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	16	0.19
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	16	0.19
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	7	0.19
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	7	0.19
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	5	0.19
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	6	0.19
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	18	0.19
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	4	0.19
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	6	0.19
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	16	0.19
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	5	0.19
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	5	0.19
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	5	0.19
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	5	0.19
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	5	0.19
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	7	0.19
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	15	0.19
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	19	0.19
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	20	0.19
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	1	0.19
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	3	0.19
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	9	0.19
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	11	0.19
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	14	0.19
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	15	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	3	0.19
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	5	0.19
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	12	0.19
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	14	0.19
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	16	0.19
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	1	0.19
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	1	0.19
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	1	0.19
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	1	0.19
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	1	0.19
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	1	0.19
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	1	0.19
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	1	0.19
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	1	0.19
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	2	0.19
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	2	0.19
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	2	0.19
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	2	0.19
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	2	0.19
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	2	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	9	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	9	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	9	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	9	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	10	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	10	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	10	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	10	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	13	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	13	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	13	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	13	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	14	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	14	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	14	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	14	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	15	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	15	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	15	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	15	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	17	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	17	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	17	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	20	0.19
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	20	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	20	0.19
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	20	0.19
(1,1531)	1:26:A:THR:HG21	1:27:A:ILE:H	7	0.19
(1,1531)	1:26:A:THR:HG22	1:27:A:ILE:H	7	0.19
(1,1531)	1:26:A:THR:HG23	1:27:A:ILE:H	7	0.19
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	1	0.19
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	1	0.19
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	1	0.19
(1,1528)	1:26:A:THR:HG21	1:16:A:PHE:HZ	4	0.19
(1,1528)	1:26:A:THR:HG22	1:16:A:PHE:HZ	4	0.19
(1,1528)	1:26:A:THR:HG23	1:16:A:PHE:HZ	4	0.19
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	5	0.19
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	5	0.19
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	1	0.19
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	1	0.19
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	19	0.19
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	19	0.19
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	8	0.19
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	17	0.19
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	20	0.19
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	3	0.19
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	7	0.19
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	14	0.19
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	16	0.19
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	5	0.19
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	5	0.19
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	5	0.19
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	5	0.19
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	5	0.19
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	5	0.19
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	6	0.19
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	6	0.19
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	6	0.19
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	6	0.19
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	6	0.19
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	6	0.19
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE1	20	0.19
(1,1472)	1:108:A:VAL:HG11	1:92:A:PHE:HE2	20	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE1	20	0.19
(1,1472)	1:108:A:VAL:HG12	1:92:A:PHE:HE2	20	0.19
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE1	20	0.19
(1,1472)	1:108:A:VAL:HG13	1:92:A:PHE:HE2	20	0.19
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	8	0.19
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	11	0.19
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	5	0.19
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	7	0.19
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	9	0.19
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	14	0.19
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	2	0.19
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	3	0.19
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	5	0.19
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	13	0.19
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	14	0.19
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	15	0.19
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	16	0.19
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	18	0.19
(1,1438)	1:81:A:SER:HA	1:82:A:GLU:H	5	0.19
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	4	0.19
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	8	0.19
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	10	0.19
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	12	0.19
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	17	0.19
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	20	0.19
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	11	0.19
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	16	0.19
(1,1421)	1:97:A:ASN:HA	1:97:A:ASN:H	12	0.19
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	6	0.19
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	6	0.19
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	6	0.19
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	6	0.19
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	6	0.19
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	6	0.19
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	6	0.19
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	6	0.19
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	6	0.19
(1,1402)	1:115:A:LYS:HG2	1:115:A:LYS:H	7	0.19
(1,1402)	1:115:A:LYS:HG3	1:115:A:LYS:H	7	0.19
(1,1402)	1:115:A:LYS:HG2	1:115:A:LYS:H	12	0.19
(1,1402)	1:115:A:LYS:HG3	1:115:A:LYS:H	12	0.19
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	3	0.19
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	3	0.19
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	3	0.19
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	3	0.19
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	3	0.19
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	3	0.19
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	3	0.19
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	3	0.19
(1,1329)	1:37:A:ARG:HG2	1:37:A:ARG:H	3	0.19
(1,1329)	1:37:A:ARG:HG3	1:37:A:ARG:H	3	0.19
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	1	0.19
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	1	0.19
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	1	0.19
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	9	0.19
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	9	0.19
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	9	0.19
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE1	17	0.19
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE2	17	0.19
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE3	17	0.19
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG2	2	0.19
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG3	2	0.19
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	3	0.19
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	3	0.19
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	3	0.19
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	3	0.19
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	14	0.19
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	14	0.19
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	14	0.19
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	14	0.19
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	17	0.19
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	17	0.19
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	17	0.19
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	17	0.19
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	20	0.19
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	20	0.19
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	20	0.19
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	20	0.19
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	5	0.19
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	5	0.19
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	7	0.19
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	7	0.19
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	14	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	14	0.19
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	5	0.19
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	1	0.19
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	1	0.19
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	3	0.19
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	3	0.19
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	6	0.19
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	6	0.19
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	9	0.19
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	9	0.19
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	10	0.19
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	10	0.19
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	12	0.19
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	12	0.19
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	16	0.19
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	16	0.19
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	18	0.19
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	18	0.19
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	3	0.19
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	3	0.19
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	3	0.19
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	19	0.19
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	19	0.19
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	19	0.19
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	6	0.19
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	6	0.19
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	3	0.19
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	3	0.19
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	3	0.19
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	9	0.19
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	9	0.19
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	9	0.19
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	15	0.19
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	15	0.19
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	15	0.19
(1,1123)	1:112:A:LEU:HD21	1:113:A:GLY:H	14	0.19
(1,1123)	1:112:A:LEU:HD22	1:113:A:GLY:H	14	0.19
(1,1123)	1:112:A:LEU:HD23	1:113:A:GLY:H	14	0.19
(1,1122)	1:112:A:LEU:HD21	1:112:A:LEU:H	9	0.19
(1,1122)	1:112:A:LEU:HD22	1:112:A:LEU:H	9	0.19
(1,1122)	1:112:A:LEU:HD23	1:112:A:LEU:H	9	0.19
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	1	0.19
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	1	0.19
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	1	0.19
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	1	0.19
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	1	0.19
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	10	0.19
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	10	0.19
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	10	0.19
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	10	0.19
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	10	0.19
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	10	0.19
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	16	0.19
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	16	0.19
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	16	0.19
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	16	0.19
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	16	0.19
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	16	0.19
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	7	0.19
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	7	0.19
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	7	0.19
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	12	0.19
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	12	0.19
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	12	0.19
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	3	0.19
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	3	0.19
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	3	0.19
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	8	0.19
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	8	0.19
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	8	0.19
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	12	0.19
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	12	0.19
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	12	0.19
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	20	0.19
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	20	0.19
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	20	0.19
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	7	0.19
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	20	0.19
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	20	0.19
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	20	0.19
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	20	0.19
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	20	0.19
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	20	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	10	0.19
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	10	0.19
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	10	0.19
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	15	0.19
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	15	0.19
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	15	0.19
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	5	0.19
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	5	0.19
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	5	0.19
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	5	0.19
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	5	0.19
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	5	0.19
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	5	0.19
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	5	0.19
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	5	0.19
(1,1037)	1:75:A:LYS:HD2	1:75:A:LYS:HA	6	0.19
(1,1037)	1:75:A:LYS:HD3	1:75:A:LYS:HA	6	0.19
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	12	0.19
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	12	0.19
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	12	0.19
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	12	0.19
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	12	0.19
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	12	0.19
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	16	0.19
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	16	0.19
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	16	0.19
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	16	0.19
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	16	0.19
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	16	0.19
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	19	0.19
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	19	0.19
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	19	0.19
(1,999)	1:148:A:LYS:HD2	1:148:A:LYS:H	18	0.19
(1,999)	1:148:A:LYS:HD3	1:148:A:LYS:H	18	0.19
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	8	0.19
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	9	0.19
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	10	0.19
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	15	0.19
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	19	0.19
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	12	0.19
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	10	0.19
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	10	0.19
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	11	0.19
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	11	0.19
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	11	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	7	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	7	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	7	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	12	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	12	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	12	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	16	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	16	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	16	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	20	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	20	0.19
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	20	0.19
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	20	0.19
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	20	0.19
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	20	0.19
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	20	0.19
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	20	0.19
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	20	0.19
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	15	0.19
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	15	0.19
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	15	0.19
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	15	0.19
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	15	0.19
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	15	0.19
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	19	0.19
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	19	0.19
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	19	0.19
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	19	0.19
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	19	0.19
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	19	0.19
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	4	0.19
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	4	0.19
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	4	0.19
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	7	0.19
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	7	0.19
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	7	0.19
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	10	0.19
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	10	0.19
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	14	0.19
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	14	0.19
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	14	0.19
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	16	0.19
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	16	0.19
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	16	0.19
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	19	0.19
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	19	0.19
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	19	0.19
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	20	0.19
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	20	0.19
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	20	0.19
(1,605)	1:114:A:GLU:HA	1:115:A:LYS:HA	12	0.19
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD21	15	0.19
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD22	15	0.19
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD23	15	0.19
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD21	15	0.19
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD22	15	0.19
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD23	15	0.19
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD21	15	0.19
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD22	15	0.19
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD23	15	0.19
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	7	0.19
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	7	0.19
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	7	0.19
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	7	0.19
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	7	0.19
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	7	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	8	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	8	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	8	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	8	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	8	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	8	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	8	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	8	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	8	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	13	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	13	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	13	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	13	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	13	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	13	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	13	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	13	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	13	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	15	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	15	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	15	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	15	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	15	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	15	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	15	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	15	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	15	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	16	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	16	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	16	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	16	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	16	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	16	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	16	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	16	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	16	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	17	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	17	0.19
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	17	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	17	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	17	0.19
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	17	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	17	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	17	0.19
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	17	0.19
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD11	8	0.19
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD12	8	0.19
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD13	8	0.19
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD11	8	0.19
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD12	8	0.19
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD13	8	0.19
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD11	8	0.19
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD12	8	0.19
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD13	8	0.19
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	10	0.18
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	10	0.18
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	2	0.18
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	2	0.18
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	2	0.18
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	2	0.18
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	2	0.18
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	2	0.18
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	10	0.18
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	10	0.18
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	10	0.18
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	10	0.18
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	10	0.18
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	10	0.18
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD1	19	0.18
(1,1738)	1:141:A:PHE:HA	1:141:A:PHE:HD2	19	0.18
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	7	0.18
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	14	0.18
(1,1736)	1:135:A:GLN:HB2	1:135:A:GLN:H	7	0.18
(1,1736)	1:135:A:GLN:HB3	1:135:A:GLN:H	7	0.18
(1,1736)	1:135:A:GLN:HB2	1:135:A:GLN:H	16	0.18
(1,1736)	1:135:A:GLN:HB3	1:135:A:GLN:H	16	0.18
(1,1736)	1:135:A:GLN:HB2	1:135:A:GLN:H	19	0.18
(1,1736)	1:135:A:GLN:HB3	1:135:A:GLN:H	19	0.18
(1,1736)	1:135:A:GLN:HB2	1:135:A:GLN:H	20	0.18
(1,1736)	1:135:A:GLN:HB3	1:135:A:GLN:H	20	0.18
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	2	0.18
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	2	0.18
(1,1735)	1:135:A:GLN:HB2	1:102:A:ALA:H	12	0.18
(1,1735)	1:135:A:GLN:HB3	1:102:A:ALA:H	12	0.18
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	1	0.18
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	7	0.18
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	13	0.18
(1,1728)	1:79:A:THR:HA	1:79:A:THR:H	18	0.18
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	6	0.18
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	6	0.18
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	9	0.18
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	9	0.18
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE1	16	0.18
(1,1717)	1:85:A:ILE:HA	1:89:A:PHE:HE2	16	0.18
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	2	0.18
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	17	0.18
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	18	0.18
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	19	0.18
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	15	0.18
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	15	0.18
(1,1711)	1:97:A:ASN:HB2	1:97:A:ASN:H	15	0.18
(1,1711)	1:97:A:ASN:HB3	1:97:A:ASN:H	15	0.18
(1,1711)	1:97:A:ASN:HB2	1:97:A:ASN:H	17	0.18
(1,1711)	1:97:A:ASN:HB3	1:97:A:ASN:H	17	0.18
(1,1711)	1:97:A:ASN:HB2	1:97:A:ASN:H	18	0.18
(1,1711)	1:97:A:ASN:HB3	1:97:A:ASN:H	18	0.18
(1,1711)	1:97:A:ASN:HB2	1:97:A:ASN:H	20	0.18
(1,1711)	1:97:A:ASN:HB3	1:97:A:ASN:H	20	0.18
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	2	0.18
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	2	0.18
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	2	0.18
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	2	0.18
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	2	0.18
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	2	0.18
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	12	0.18
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	12	0.18
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	12	0.18
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	12	0.18
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	12	0.18
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	12	0.18
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	19	0.18
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	19	0.18
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	19	0.18
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	19	0.18
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	19	0.18
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	19	0.18
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	3	0.18
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	3	0.18
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	3	0.18
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	3	0.18
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	3	0.18
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	3	0.18
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	8	0.18
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	8	0.18
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	8	0.18
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	8	0.18
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	8	0.18
(1,1695)	1:106:A:ARG:HD2	1:106:A:ARG:H	6	0.18
(1,1695)	1:106:A:ARG:HD3	1:106:A:ARG:H	6	0.18
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	2	0.18
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	5	0.18
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	11	0.18
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	1	0.18
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	2	0.18
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	5	0.18
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	6	0.18
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	10	0.18
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	11	0.18
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	16	0.18
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	2	0.18
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	5	0.18
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	9	0.18
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	12	0.18
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	13	0.18
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	20	0.18
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	6	0.18
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	6	0.18
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	13	0.18
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	13	0.18
(1,1667)	1:17:A:SER:HA	1:19:A:PHE:H	5	0.18
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	12	0.18
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	12	0.18
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	12	0.18
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	12	0.18
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	13	0.18
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	13	0.18
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	13	0.18
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	13	0.18
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	14	0.18
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	14	0.18
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	14	0.18
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	14	0.18
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	20	0.18
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	20	0.18
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	20	0.18
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	20	0.18
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	14	0.18
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	8	0.18
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	8	0.18
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	8	0.18
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	13	0.18
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	13	0.18
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	13	0.18
(1,1634)	1:117:A:THR:HG21	1:118:A:ASP:H	20	0.18
(1,1634)	1:117:A:THR:HG22	1:118:A:ASP:H	20	0.18
(1,1634)	1:117:A:THR:HG23	1:118:A:ASP:H	20	0.18
(1,1610)	1:142:A:VAL:HG21	1:89:A:PHE:HZ	8	0.18
(1,1610)	1:142:A:VAL:HG22	1:89:A:PHE:HZ	8	0.18
(1,1610)	1:142:A:VAL:HG23	1:89:A:PHE:HZ	8	0.18
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	8	0.18
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	12	0.18
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	13	0.18
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	15	0.18
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	20	0.18
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	7	0.18
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	14	0.18
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	18	0.18
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	3	0.18
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	3	0.18
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	3	0.18
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	3	0.18
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	2	0.18
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	3	0.18
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	4	0.18
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	6	0.18
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	8	0.18
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	9	0.18
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	10	0.18
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	12	0.18
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	13	0.18
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	16	0.18
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	18	0.18
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	13	0.18
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	7	0.18
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	8	0.18
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	9	0.18
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	13	0.18
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	2	0.18
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	2	0.18
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	2	0.18
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	2	0.18
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	2	0.18
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	2	0.18
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	2	0.18
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	2	0.18
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	4	0.18
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	4	0.18
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	4	0.18
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	4	0.18
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	4	0.18
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	4	0.18
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	12	0.18
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	12	0.18
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	12	0.18
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	12	0.18
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	12	0.18
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	12	0.18
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	17	0.18
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	17	0.18
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	17	0.18
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	17	0.18
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	17	0.18
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	17	0.18
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	18	0.18
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	18	0.18
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	18	0.18
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	18	0.18
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	18	0.18
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	18	0.18
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	19	0.18
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	19	0.18
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	19	0.18
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	19	0.18
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	19	0.18
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	19	0.18
(1,1559)	1:94:A:LYS:HA	1:94:A:LYS:H	2	0.18
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	11	0.18
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	1	0.18
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	7	0.18
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	2	0.18
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	2	0.18
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	2	0.18
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	2	0.18
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	5	0.18
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	5	0.18
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	5	0.18
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	5	0.18
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	6	0.18
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	6	0.18
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	6	0.18
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	6	0.18
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	7	0.18
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	7	0.18
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	7	0.18
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	7	0.18
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	12	0.18
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	12	0.18
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	12	0.18
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	12	0.18
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	16	0.18
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	16	0.18
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	16	0.18
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	16	0.18
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	3	0.18
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	3	0.18
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	4	0.18
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	4	0.18
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	5	0.18
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	5	0.18
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	6	0.18
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	6	0.18
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	9	0.18
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	9	0.18
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	10	0.18
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	10	0.18
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	13	0.18
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	13	0.18
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	14	0.18
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	14	0.18
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	15	0.18
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	16	0.18
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	16	0.18
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	18	0.18
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	18	0.18
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	2	0.18
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	17	0.18
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	1	0.18
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	3	0.18
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	9	0.18
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	16	0.18
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	19	0.18
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	1	0.18
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	2	0.18
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	4	0.18
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	5	0.18
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	6	0.18
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	9	0.18
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	10	0.18
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	11	0.18
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	12	0.18
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	15	0.18
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	17	0.18
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	18	0.18
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	19	0.18
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	4	0.18
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	7	0.18
(1,1462)	1:125:A:ILE:HA	1:128:A:ALA:H	15	0.18
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	8	0.18
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	16	0.18
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	18	0.18
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	20	0.18
(1,1451)	1:131:A:ASP:HA	1:131:A:ASP:H	15	0.18
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	2	0.18
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	3	0.18
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	18	0.18
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	9	0.18
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	20	0.18
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	20	0.18
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	2	0.18
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	3	0.18
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	8	0.18
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	18	0.18
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	19	0.18
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	1	0.18
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	1	0.18
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	1	0.18
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	1	0.18
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	1	0.18
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	1	0.18
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	10	0.18
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	10	0.18
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	10	0.18
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	10	0.18
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	10	0.18
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	10	0.18
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	17	0.18
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	17	0.18
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	17	0.18
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	17	0.18
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	17	0.18
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	17	0.18
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	5	0.18
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	5	0.18
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	5	0.18
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	5	0.18
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	5	0.18
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	5	0.18
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	4	0.18
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	4	0.18
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	4	0.18
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	6	0.18
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	6	0.18
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	6	0.18
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	17	0.18
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	17	0.18
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	17	0.18
(1,1393)	1:51:A:MET:HE1	1:51:A:MET:H	3	0.18
(1,1393)	1:51:A:MET:HE2	1:51:A:MET:H	3	0.18
(1,1393)	1:51:A:MET:HE3	1:51:A:MET:H	3	0.18
(1,1393)	1:51:A:MET:HE1	1:51:A:MET:H	16	0.18
(1,1393)	1:51:A:MET:HE2	1:51:A:MET:H	16	0.18
(1,1393)	1:51:A:MET:HE3	1:51:A:MET:H	16	0.18
(1,1393)	1:51:A:MET:HE1	1:51:A:MET:H	20	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1393)	1:51:A:MET:HE2	1:51:A:MET:H	20	0.18
(1,1393)	1:51:A:MET:HE3	1:51:A:MET:H	20	0.18
(1,1329)	1:37:A:ARG:HG2	1:37:A:ARG:H	4	0.18
(1,1329)	1:37:A:ARG:HG3	1:37:A:ARG:H	4	0.18
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	10	0.18
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	10	0.18
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	10	0.18
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	14	0.18
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	14	0.18
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	14	0.18
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	15	0.18
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	15	0.18
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	15	0.18
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	4	0.18
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	4	0.18
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	4	0.18
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	19	0.18
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	19	0.18
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	19	0.18
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	7	0.18
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	18	0.18
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG2	4	0.18
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG3	4	0.18
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG2	4	0.18
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG3	4	0.18
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG11	4	0.18
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG12	4	0.18
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG13	4	0.18
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG11	4	0.18
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG12	4	0.18
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG13	4	0.18
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG11	11	0.18
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG12	11	0.18
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG13	11	0.18
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG11	11	0.18
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG12	11	0.18
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG13	11	0.18
(1,1284)	1:130:A:ILE:HB	1:131:A:ASP:H	20	0.18
(1,1283)	1:130:A:ILE:HB	1:130:A:ILE:H	17	0.18
(1,1276)	1:136:A:VAL:HG21	1:141:A:PHE:HE1	12	0.18
(1,1276)	1:136:A:VAL:HG21	1:141:A:PHE:HE2	12	0.18
(1,1276)	1:136:A:VAL:HG22	1:141:A:PHE:HE1	12	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1276)	1:136:A:VAL:HG22	1:141:A:PHE:HE2	12	0.18
(1,1276)	1:136:A:VAL:HG23	1:141:A:PHE:HE1	12	0.18
(1,1276)	1:136:A:VAL:HG23	1:141:A:PHE:HE2	12	0.18
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG2	15	0.18
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG3	15	0.18
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	15	0.18
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	15	0.18
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	15	0.18
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	15	0.18
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	3	0.18
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	3	0.18
(1,1219)	1:124:A:MET:HG2	1:124:A:MET:H	8	0.18
(1,1219)	1:124:A:MET:HG3	1:124:A:MET:H	8	0.18
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	2	0.18
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	2	0.18
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	7	0.18
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	7	0.18
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	8	0.18
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	8	0.18
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	13	0.18
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	13	0.18
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	14	0.18
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	14	0.18
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	19	0.18
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	19	0.18
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	20	0.18
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	20	0.18
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	1	0.18
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	1	0.18
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	1	0.18
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	14	0.18
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	14	0.18
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	14	0.18
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	19	0.18
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	19	0.18
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	19	0.18
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	20	0.18
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	20	0.18
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	20	0.18
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	1	0.18
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	1	0.18
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	5	0.18
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	5	0.18
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	5	0.18
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	9	0.18
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	9	0.18
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	9	0.18
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	3	0.18
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	3	0.18
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	3	0.18
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	3	0.18
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	3	0.18
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	3	0.18
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	2	0.18
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	2	0.18
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	2	0.18
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	13	0.18
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	13	0.18
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	13	0.18
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	14	0.18
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	14	0.18
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	14	0.18
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	16	0.18
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	16	0.18
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	16	0.18
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	18	0.18
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	18	0.18
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	18	0.18
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	3	0.18
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	5	0.18
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	8	0.18
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	12	0.18
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	13	0.18
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	15	0.18
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	17	0.18
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	13	0.18
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	18	0.18
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	4	0.18
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	4	0.18
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	4	0.18
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	4	0.18
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	4	0.18
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	17	0.18
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	17	0.18
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	17	0.18
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	17	0.18
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	17	0.18
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	17	0.18
(1,1034)	1:75:A:LYS:HD2	1:75:A:LYS:H	9	0.18
(1,1034)	1:75:A:LYS:HD3	1:75:A:LYS:H	9	0.18
(1,1022)	1:94:A:LYS:HE2	1:94:A:LYS:HA	9	0.18
(1,1022)	1:94:A:LYS:HE3	1:94:A:LYS:HA	9	0.18
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	7	0.18
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	7	0.18
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	7	0.18
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	7	0.18
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	7	0.18
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	7	0.18
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	9	0.18
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	9	0.18
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	9	0.18
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	16	0.18
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	3	0.18
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	11	0.18
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	11	0.18
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	18	0.18
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	18	0.18
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	18	0.18
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	2	0.18
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	2	0.18
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	2	0.18
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	1	0.18
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	1	0.18
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	1	0.18
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	1	0.18
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	1	0.18
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	1	0.18
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	10	0.18
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	10	0.18
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	10	0.18
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	10	0.18
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	10	0.18
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	10	0.18
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	14	0.18
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	14	0.18
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	14	0.18
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	14	0.18
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	14	0.18
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	9	0.18
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	9	0.18
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	9	0.18
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	9	0.18
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	9	0.18
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	9	0.18
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	9	0.18
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	9	0.18
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	9	0.18
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	12	0.18
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	12	0.18
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	12	0.18
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	13	0.18
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	13	0.18
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	13	0.18
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	2	0.18
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	2	0.18
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	2	0.18
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	2	0.18
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	2	0.18
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	2	0.18
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	2	0.18
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	2	0.18
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	2	0.18
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	5	0.18
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	5	0.18
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	5	0.18
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	5	0.18
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	5	0.18
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	5	0.18
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	5	0.18
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	5	0.18
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	5	0.18
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	6	0.18
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	6	0.18
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	6	0.18
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	6	0.18
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	6	0.18
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	6	0.18
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	6	0.18
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	6	0.18
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD11	15	0.18
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD12	15	0.18
(1,127)	1:55:A:VAL:HG11	1:63:A:ILE:HD13	15	0.18
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD11	15	0.18
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD12	15	0.18
(1,127)	1:55:A:VAL:HG12	1:63:A:ILE:HD13	15	0.18
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD11	15	0.18
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD12	15	0.18
(1,127)	1:55:A:VAL:HG13	1:63:A:ILE:HD13	15	0.18
(1,83)	1:99:A:TYR:HB2	1:135:A:GLN:HA	13	0.18
(1,83)	1:99:A:TYR:HB3	1:135:A:GLN:HA	13	0.18
(1,1760)	1:105:A:LEU:HD21	1:105:A:LEU:H	5	0.17
(1,1760)	1:105:A:LEU:HD22	1:105:A:LEU:H	5	0.17
(1,1760)	1:105:A:LEU:HD23	1:105:A:LEU:H	5	0.17
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	5	0.17
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	5	0.17
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	5	0.17
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	5	0.17
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	5	0.17
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	5	0.17
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	15	0.17
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	15	0.17
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	15	0.17
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	15	0.17
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	15	0.17
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	15	0.17
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	16	0.17
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	16	0.17
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	16	0.17
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	16	0.17
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	16	0.17
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	16	0.17
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	1	0.17
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	1	0.17
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	1	0.17
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	17	0.17
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	17	0.17
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	2	0.17
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	4	0.17
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	5	0.17
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	9	0.17
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	13	0.17
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	1	0.17
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	2	0.17
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	6	0.17
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	10	0.17
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	12	0.17
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	13	0.17
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	3	0.17
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	20	0.17
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	5	0.17
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	5	0.17
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	5	0.17
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	5	0.17
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	5	0.17
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	5	0.17
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	6	0.17
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	6	0.17
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	6	0.17
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	6	0.17
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	6	0.17
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	6	0.17
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	1	0.17
(1,1714)	1:85:A:ILE:HA	1:86:A:ARG:H	13	0.17
(1,1712)	1:97:A:ASN:HB2	1:99:A:TYR:HD1	7	0.17
(1,1712)	1:97:A:ASN:HB2	1:99:A:TYR:HD2	7	0.17
(1,1712)	1:97:A:ASN:HB3	1:99:A:TYR:HD1	7	0.17
(1,1712)	1:97:A:ASN:HB3	1:99:A:TYR:HD2	7	0.17
(1,1711)	1:97:A:ASN:HB2	1:97:A:ASN:H	3	0.17
(1,1711)	1:97:A:ASN:HB3	1:97:A:ASN:H	3	0.17
(1,1711)	1:97:A:ASN:HB2	1:97:A:ASN:H	10	0.17
(1,1711)	1:97:A:ASN:HB3	1:97:A:ASN:H	10	0.17
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	10	0.17
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	12	0.17
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	12	0.17
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	12	0.17
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	12	0.17
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	12	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	12	0.17
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	16	0.17
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	16	0.17
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	16	0.17
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	16	0.17
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	16	0.17
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	16	0.17
(1,1692)	1:57:A:ALA:HA	1:57:A:ALA:H	12	0.17
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	5	0.17
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	10	0.17
(1,1691)	1:57:A:ALA:HA	1:59:A:GLY:H	14	0.17
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	4	0.17
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	6	0.17
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	7	0.17
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	8	0.17
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	14	0.17
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	17	0.17
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	18	0.17
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	19	0.17
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	5	0.17
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	5	0.17
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD1	16	0.17
(1,1668)	1:17:A:SER:HA	1:16:A:PHE:HD2	16	0.17
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	2	0.17
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	15	0.17
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	20	0.17
(1,1653)	1:21:A:LYS:HD2	1:21:A:LYS:H	17	0.17
(1,1653)	1:21:A:LYS:HD3	1:21:A:LYS:H	17	0.17
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	3	0.17
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	3	0.17
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	3	0.17
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	3	0.17
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	5	0.17
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	5	0.17
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	5	0.17
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	5	0.17
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	7	0.17
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	7	0.17
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	7	0.17
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	7	0.17
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	5	0.17
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	7	0.17
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	7	0.17
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	10	0.17
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	10	0.17
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	16	0.17
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	16	0.17
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	11	0.17
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	11	0.17
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	11	0.17
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	2	0.17
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	2	0.17
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	2	0.17
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	2	0.17
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	5	0.17
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	5	0.17
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	5	0.17
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	5	0.17
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	7	0.17
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	7	0.17
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	7	0.17
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	7	0.17
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	8	0.17
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	8	0.17
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	10	0.17
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	10	0.17
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	12	0.17
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	12	0.17
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	19	0.17
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	19	0.17
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	14	0.17
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	14	0.17
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	15	0.17
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	15	0.17
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	16	0.17
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	16	0.17
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	1	0.17
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	2	0.17
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	10	0.17
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	11	0.17
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	16	0.17
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	17	0.17
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	1	0.17
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	2	0.17
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	5	0.17
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	8	0.17
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	12	0.17
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	15	0.17
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	11	0.17
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	14	0.17
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	4	0.17
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	15	0.17
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	10	0.17
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	10	0.17
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	10	0.17
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	10	0.17
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	10	0.17
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	10	0.17
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	15	0.17
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	15	0.17
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	15	0.17
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	15	0.17
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	15	0.17
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	15	0.17
(1,1556)	1:145:A:MET:HG2	1:145:A:MET:H	4	0.17
(1,1556)	1:145:A:MET:HG3	1:145:A:MET:H	4	0.17
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	12	0.17
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	10	0.17
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	16	0.17
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	18	0.17
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD1	8	0.17
(1,1537)	1:11:A:GLU:HB2	1:12:A:PHE:HD2	8	0.17
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD1	8	0.17
(1,1537)	1:11:A:GLU:HB3	1:12:A:PHE:HD2	8	0.17
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	17	0.17
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	4	0.17
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	12	0.17
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	13	0.17
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	13	0.17
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	2	0.17
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	2	0.17
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	7	0.17
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	7	0.17
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	8	0.17
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	12	0.17
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	12	0.17
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	17	0.17
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	17	0.17
(1,1508)	1:27:A:ILE:HG12	1:28:A:THR:H	20	0.17
(1,1508)	1:27:A:ILE:HG13	1:28:A:THR:H	20	0.17
(1,1504)	1:37:A:ARG:HA	1:42:A:ASN:HA	8	0.17
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	11	0.17
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	12	0.17
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	14	0.17
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	12	0.17
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	1	0.17
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	3	0.17
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	17	0.17
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	1	0.17
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	2	0.17
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	3	0.17
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	4	0.17
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	6	0.17
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	10	0.17
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	12	0.17
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	13	0.17
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	14	0.17
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	15	0.17
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	17	0.17
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	19	0.17
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	7	0.17
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	10	0.17
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	13	0.17
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	16	0.17
(1,1442)	1:139:A:GLU:HB2	1:140:A:GLU:H	5	0.17
(1,1442)	1:139:A:GLU:HB3	1:140:A:GLU:H	5	0.17
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	11	0.17
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	12	0.17
(1,1438)	1:81:A:SER:HA	1:82:A:GLU:H	18	0.17
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	7	0.17
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	9	0.17
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	13	0.17
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	18	0.17
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	3	0.17
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	9	0.17
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	5	0.17
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	6	0.17
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	9	0.17
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	13	0.17
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	15	0.17
(1,1418)	1:101:A:SER:HA	1:101:A:SER:H	13	0.17
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG21	5	0.17
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG22	5	0.17
(1,1409)	1:63:A:ILE:HG21	1:29:A:THR:HG23	5	0.17
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG21	5	0.17
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG22	5	0.17
(1,1409)	1:63:A:ILE:HG22	1:29:A:THR:HG23	5	0.17
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG21	5	0.17
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG22	5	0.17
(1,1409)	1:63:A:ILE:HG23	1:29:A:THR:HG23	5	0.17
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	2	0.17
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	2	0.17
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	2	0.17
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	2	0.17
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	2	0.17
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	2	0.17
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE1	6	0.17
(1,1406)	1:63:A:ILE:HG21	1:68:A:PHE:HE2	6	0.17
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE1	6	0.17
(1,1406)	1:63:A:ILE:HG22	1:68:A:PHE:HE2	6	0.17
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE1	6	0.17
(1,1406)	1:63:A:ILE:HG23	1:68:A:PHE:HE2	6	0.17
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	11	0.17
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	11	0.17
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	11	0.17
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	11	0.17
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	11	0.17
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	11	0.17
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	11	0.17
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	11	0.17
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	11	0.17
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	11	0.17
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	11	0.17
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	11	0.17
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	11	0.17
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	11	0.17
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	13	0.17
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	13	0.17
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	13	0.17
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	13	0.17
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	13	0.17
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	13	0.17
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	1	0.17
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	1	0.17
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	1	0.17
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	18	0.17
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	18	0.17
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	18	0.17
(1,1393)	1:51:A:MET:HE1	1:51:A:MET:H	1	0.17
(1,1393)	1:51:A:MET:HE2	1:51:A:MET:H	1	0.17
(1,1393)	1:51:A:MET:HE3	1:51:A:MET:H	1	0.17
(1,1393)	1:51:A:MET:HE1	1:51:A:MET:H	4	0.17
(1,1393)	1:51:A:MET:HE2	1:51:A:MET:H	4	0.17
(1,1393)	1:51:A:MET:HE3	1:51:A:MET:H	4	0.17
(1,1393)	1:51:A:MET:HE1	1:51:A:MET:H	19	0.17
(1,1393)	1:51:A:MET:HE2	1:51:A:MET:H	19	0.17
(1,1393)	1:51:A:MET:HE3	1:51:A:MET:H	19	0.17
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	2	0.17
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	2	0.17
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	2	0.17
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	19	0.17
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	19	0.17
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	19	0.17
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	9	0.17
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	11	0.17
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	18	0.17
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	2	0.17
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	2	0.17
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	2	0.17
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	4	0.17
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	4	0.17
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	4	0.17
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	6	0.17
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	6	0.17
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	6	0.17
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	7	0.17
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	7	0.17
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	13	0.17
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	13	0.17
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	13	0.17
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	18	0.17
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	18	0.17
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	18	0.17
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	2	0.17
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	15	0.17
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG11	5	0.17
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG12	5	0.17
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG13	5	0.17
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG11	5	0.17
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG12	5	0.17
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG13	5	0.17
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG11	12	0.17
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG12	12	0.17
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG13	12	0.17
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG11	12	0.17
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG12	12	0.17
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG13	12	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG2	3	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG3	3	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG2	6	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG3	6	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG2	7	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG3	7	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG2	10	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG3	10	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG2	14	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG3	14	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG2	16	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG3	16	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG2	18	0.17
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG3	18	0.17
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	19	0.17
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	7	0.17
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	7	0.17
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	7	0.17
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	7	0.17
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	9	0.17
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	9	0.17
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	9	0.17
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	10	0.17
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	10	0.17
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	17	0.17
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	17	0.17
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	6	0.17
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	4	0.17
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	4	0.17
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	15	0.17
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	15	0.17
(1,1174)	1:32:A:LEU:HB2	1:33:A:GLY:H	17	0.17
(1,1174)	1:32:A:LEU:HB3	1:33:A:GLY:H	17	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	2	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	2	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	2	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	4	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	4	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	4	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	8	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	8	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	8	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	9	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	9	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	9	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	10	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	10	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	10	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	11	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	11	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	11	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	12	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	12	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	12	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	16	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	16	0.17
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	16	0.17
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	2	0.17
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	2	0.17
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	2	0.17
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	12	0.17
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	12	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	12	0.17
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	18	0.17
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	18	0.17
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	18	0.17
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB1	19	0.17
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB2	19	0.17
(1,1140)	1:54:A:GLU:HA	1:57:A:ALA:HB3	19	0.17
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	2	0.17
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	2	0.17
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	4	0.17
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	4	0.17
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	14	0.17
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	14	0.17
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	14	0.17
(1,1123)	1:112:A:LEU:HD21	1:113:A:GLY:H	10	0.17
(1,1123)	1:112:A:LEU:HD22	1:113:A:GLY:H	10	0.17
(1,1123)	1:112:A:LEU:HD23	1:113:A:GLY:H	10	0.17
(1,1123)	1:112:A:LEU:HD21	1:113:A:GLY:H	15	0.17
(1,1123)	1:112:A:LEU:HD22	1:113:A:GLY:H	15	0.17
(1,1123)	1:112:A:LEU:HD23	1:113:A:GLY:H	15	0.17
(1,1122)	1:112:A:LEU:HD21	1:112:A:LEU:H	3	0.17
(1,1122)	1:112:A:LEU:HD22	1:112:A:LEU:H	3	0.17
(1,1122)	1:112:A:LEU:HD23	1:112:A:LEU:H	3	0.17
(1,1122)	1:112:A:LEU:HD21	1:112:A:LEU:H	16	0.17
(1,1122)	1:112:A:LEU:HD22	1:112:A:LEU:H	16	0.17
(1,1122)	1:112:A:LEU:HD23	1:112:A:LEU:H	16	0.17
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	4	0.17
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	4	0.17
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	10	0.17
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	10	0.17
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	15	0.17
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	15	0.17
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	5	0.17
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	5	0.17
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	5	0.17
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	17	0.17
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	17	0.17
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	17	0.17
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	19	0.17
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	19	0.17
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	19	0.17
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	6	0.17
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	7	0.17
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	10	0.17
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	16	0.17
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	18	0.17
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	2	0.17
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	2	0.17
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	2	0.17
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	2	0.17
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	2	0.17
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	2	0.17
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	11	0.17
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	11	0.17
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	11	0.17
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	11	0.17
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	11	0.17
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	11	0.17
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	14	0.17
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	14	0.17
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	14	0.17
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	14	0.17
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	14	0.17
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	14	0.17
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	15	0.17
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	15	0.17
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	15	0.17
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	15	0.17
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	15	0.17
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	15	0.17
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	17	0.17
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	17	0.17
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	17	0.17
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD21	10	0.17
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD22	10	0.17
(1,1047)	1:93:A:ALA:HB1	1:105:A:LEU:HD23	10	0.17
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD21	10	0.17
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD22	10	0.17
(1,1047)	1:93:A:ALA:HB2	1:105:A:LEU:HD23	10	0.17
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD21	10	0.17
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD22	10	0.17
(1,1047)	1:93:A:ALA:HB3	1:105:A:LEU:HD23	10	0.17
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	8	0.17
(1,1034)	1:75:A:LYS:HD2	1:75:A:LYS:H	1	0.17
(1,1034)	1:75:A:LYS:HD3	1:75:A:LYS:H	1	0.17
(1,1034)	1:75:A:LYS:HD2	1:75:A:LYS:H	8	0.17
(1,1034)	1:75:A:LYS:HD3	1:75:A:LYS:H	8	0.17
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	6	0.17
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	6	0.17
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	6	0.17
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	7	0.17
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	7	0.17
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	7	0.17
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	15	0.17
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	15	0.17
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	15	0.17
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	3	0.17
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	1	0.17
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	6	0.17
(1,984)	1:69:A:LEU:HA	1:70:A:THR:H	18	0.17
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	6	0.17
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	1	0.17
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	7	0.17
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	8	0.17
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	9	0.17
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	10	0.17
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	14	0.17
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	16	0.17
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	17	0.17
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	18	0.17
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	19	0.17
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	9	0.17
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	9	0.17
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	9	0.17
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	14	0.17
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	14	0.17
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	14	0.17
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	8	0.17
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	8	0.17
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	8	0.17
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	14	0.17
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	14	0.17
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	14	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	4	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	4	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	4	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	4	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	4	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	9	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	9	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	9	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	9	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	9	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	9	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	13	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	13	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	13	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	13	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	13	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	13	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	16	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	16	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	16	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	16	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	16	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	16	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	17	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	17	0.17
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	17	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	17	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	17	0.17
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	17	0.17
(1,855)	1:129:A:ALA:HB1	1:136:A:VAL:HG21	15	0.17
(1,855)	1:129:A:ALA:HB1	1:136:A:VAL:HG22	15	0.17
(1,855)	1:129:A:ALA:HB1	1:136:A:VAL:HG23	15	0.17
(1,855)	1:129:A:ALA:HB2	1:136:A:VAL:HG21	15	0.17
(1,855)	1:129:A:ALA:HB2	1:136:A:VAL:HG22	15	0.17
(1,855)	1:129:A:ALA:HB2	1:136:A:VAL:HG23	15	0.17
(1,855)	1:129:A:ALA:HB3	1:136:A:VAL:HG21	15	0.17
(1,855)	1:129:A:ALA:HB3	1:136:A:VAL:HG22	15	0.17
(1,855)	1:129:A:ALA:HB3	1:136:A:VAL:HG23	15	0.17
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	3	0.17
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	3	0.17
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	3	0.17
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	3	0.17
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	3	0.17
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	7	0.17
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	7	0.17
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	7	0.17
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	7	0.17
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	7	0.17
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	7	0.17
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	16	0.17
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	16	0.17
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	16	0.17
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	16	0.17
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	16	0.17
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	16	0.17
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	2	0.17
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	2	0.17
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	2	0.17
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	5	0.17
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	5	0.17
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	5	0.17
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	6	0.17
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	6	0.17
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	6	0.17
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	8	0.17
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	8	0.17
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	8	0.17
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	15	0.17
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	15	0.17
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	15	0.17
(1,718)	1:9:A:ILE:HD11	1:12:A:PHE:H	17	0.17
(1,718)	1:9:A:ILE:HD12	1:12:A:PHE:H	17	0.17
(1,718)	1:9:A:ILE:HD13	1:12:A:PHE:H	17	0.17
(1,599)	1:105:A:LEU:HG	1:136:A:VAL:HG11	6	0.17
(1,599)	1:105:A:LEU:HG	1:136:A:VAL:HG12	6	0.17
(1,599)	1:105:A:LEU:HG	1:136:A:VAL:HG13	6	0.17
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	8	0.17
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	8	0.17
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	8	0.17
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	8	0.17
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	8	0.17
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	8	0.17
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	19	0.17
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	19	0.17
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	19	0.17
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	19	0.17
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	19	0.17
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD21	12	0.17
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD22	12	0.17
(1,387)	1:15:A:ALA:HB1	1:39:A:LEU:HD23	12	0.17
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD21	12	0.17
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD22	12	0.17
(1,387)	1:15:A:ALA:HB2	1:39:A:LEU:HD23	12	0.17
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD21	12	0.17
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD22	12	0.17
(1,387)	1:15:A:ALA:HB3	1:39:A:LEU:HD23	12	0.17
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	9	0.16
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	9	0.16
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	9	0.16
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	9	0.16
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	9	0.16
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	9	0.16
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	12	0.16
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	12	0.16
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	12	0.16
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	1	0.16
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	3	0.16
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	7	0.16
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	8	0.16
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	10	0.16
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	11	0.16
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	12	0.16
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	14	0.16
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	15	0.16
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	16	0.16
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	17	0.16
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	18	0.16
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	10	0.16
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	3	0.16
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	7	0.16
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	14	0.16
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	18	0.16
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	19	0.16
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	7	0.16
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	9	0.16
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	16	0.16
(1,1736)	1:135:A:GLN:HB2	1:135:A:GLN:H	14	0.16
(1,1736)	1:135:A:GLN:HB3	1:135:A:GLN:H	14	0.16
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	3	0.16
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	3	0.16
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	3	0.16
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	3	0.16
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	3	0.16
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	3	0.16
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	8	0.16
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	8	0.16
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	8	0.16
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	8	0.16
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	8	0.16
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	8	0.16
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	20	0.16
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	20	0.16
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	20	0.16
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	20	0.16
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	20	0.16
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	20	0.16
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	8	0.16
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	8	0.16
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	9	0.16
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	9	0.16
(1,1711)	1:97:A:ASN:HB2	1:97:A:ASN:H	5	0.16
(1,1711)	1:97:A:ASN:HB3	1:97:A:ASN:H	5	0.16
(1,1706)	1:99:A:TYR:HA	1:138:A:TYR:HD1	7	0.16
(1,1706)	1:99:A:TYR:HA	1:138:A:TYR:HD2	7	0.16
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD1	5	0.16
(1,1703)	1:71:A:MET:HE1	1:68:A:PHE:HD2	5	0.16
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD1	5	0.16
(1,1703)	1:71:A:MET:HE2	1:68:A:PHE:HD2	5	0.16
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD1	5	0.16
(1,1703)	1:71:A:MET:HE3	1:68:A:PHE:HD2	5	0.16
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	18	0.16
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	18	0.16
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	18	0.16
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	18	0.16
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	18	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	18	0.16
(1,1679)	1:3:A:GLN:HA	1:3:A:GLN:H	13	0.16
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	10	0.16
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	15	0.16
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	16	0.16
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	1	0.16
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	4	0.16
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	7	0.16
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	8	0.16
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	9	0.16
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	10	0.16
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	11	0.16
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	12	0.16
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	14	0.16
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	17	0.16
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	18	0.16
(1,1651)	1:36:A:MET:HB2	1:37:A:ARG:H	19	0.16
(1,1651)	1:36:A:MET:HB3	1:37:A:ARG:H	19	0.16
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	15	0.16
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	15	0.16
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	15	0.16
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	15	0.16
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	16	0.16
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	16	0.16
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	16	0.16
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	16	0.16
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	17	0.16
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	17	0.16
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	17	0.16
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	17	0.16
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	13	0.16
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	13	0.16
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	19	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	1	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	2	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	3	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	4	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	5	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	6	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	7	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	8	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	10	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	11	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	12	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	13	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	14	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	15	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	16	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	17	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	18	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	19	0.16
(1,1628)	1:108:A:VAL:HA	1:108:A:VAL:H	20	0.16
(1,1626)	1:120:A:GLU:HB2	1:117:A:THR:H	6	0.16
(1,1626)	1:120:A:GLU:HB3	1:117:A:THR:H	6	0.16
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	9	0.16
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	9	0.16
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	9	0.16
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	9	0.16
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	10	0.16
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	10	0.16
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	10	0.16
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	10	0.16
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	16	0.16
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	16	0.16
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	16	0.16
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	16	0.16
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	19	0.16
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	19	0.16
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	19	0.16
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	19	0.16
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD1	10	0.16
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD2	10	0.16
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD1	10	0.16
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD2	10	0.16
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD1	10	0.16
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD2	10	0.16
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD1	12	0.16
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD2	12	0.16
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD1	12	0.16
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD2	12	0.16
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD1	12	0.16
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD2	12	0.16
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	13	0.16
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	14	0.16
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	14	0.16
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	15	0.16
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	15	0.16
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	1	0.16
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	1	0.16
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	2	0.16
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	2	0.16
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	4	0.16
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	4	0.16
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	11	0.16
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	11	0.16
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	18	0.16
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	18	0.16
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	20	0.16
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	20	0.16
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	3	0.16
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	4	0.16
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	7	0.16
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	9	0.16
(1,1607)	1:136:A:VAL:HA	1:136:A:VAL:H	14	0.16
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	1	0.16
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE2	19	0.16
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE3	19	0.16
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	9	0.16
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	10	0.16
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	11	0.16
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	13	0.16
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	19	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	1	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	2	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	3	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	4	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	5	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	6	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	7	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	8	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	9	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	10	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	11	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	13	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	15	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	16	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	17	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	19	0.16
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	20	0.16
(1,1572)	1:105:A:LEU:HA	1:106:A:ARG:H	11	0.16
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	6	0.16
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	6	0.16
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	6	0.16
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	6	0.16
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	6	0.16
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	6	0.16
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	7	0.16
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	7	0.16
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	7	0.16
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	7	0.16
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	7	0.16
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	7	0.16
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	9	0.16
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	9	0.16
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	9	0.16
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	9	0.16
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	9	0.16
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	9	0.16
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	14	0.16
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	14	0.16
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	14	0.16
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	14	0.16
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	14	0.16
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	14	0.16
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	3	0.16
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	19	0.16
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	1	0.16
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	2	0.16
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	5	0.16
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	7	0.16
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	8	0.16
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	9	0.16
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	10	0.16
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	11	0.16
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	14	0.16
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	15	0.16
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	17	0.16
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	20	0.16
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	5	0.16
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	9	0.16
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	14	0.16
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	15	0.16
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	17	0.16
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	20	0.16
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	2	0.16
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	2	0.16
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	2	0.16
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	2	0.16
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	6	0.16
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	6	0.16
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	6	0.16
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	6	0.16
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	8	0.16
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	8	0.16
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	8	0.16
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	8	0.16
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	17	0.16
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	17	0.16
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	17	0.16
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	17	0.16
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	2	0.16
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	4	0.16
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	5	0.16
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	6	0.16
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	8	0.16
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	9	0.16
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	10	0.16
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	12	0.16
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	13	0.16
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	15	0.16
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	16	0.16
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	8	0.16
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	9	0.16
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	15	0.16
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	16	0.16
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	15	0.16
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	19	0.16
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	6	0.16
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	6	0.16
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	2	0.16
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	4	0.16
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	5	0.16
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	6	0.16
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	7	0.16
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	10	0.16
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	13	0.16
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	14	0.16
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	15	0.16
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	6	0.16
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	10	0.16
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	18	0.16
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	8	0.16
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	13	0.16
(1,1483)	1:117:A:THR:HA	1:117:A:THR:H	20	0.16
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	10	0.16
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	14	0.16
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	15	0.16
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	19	0.16
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	2	0.16
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	5	0.16
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	9	0.16
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	16	0.16
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	19	0.16
(1,1461)	1:125:A:ILE:HA	1:126:A:ARG:H	11	0.16
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	15	0.16
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	17	0.16
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	3	0.16
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	6	0.16
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	8	0.16
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	10	0.16
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	12	0.16
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	13	0.16
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	17	0.16
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	19	0.16
(1,1442)	1:139:A:GLU:HB2	1:140:A:GLU:H	6	0.16
(1,1442)	1:139:A:GLU:HB3	1:140:A:GLU:H	6	0.16
(1,1442)	1:139:A:GLU:HB2	1:140:A:GLU:H	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1442)	1:139:A:GLU:HB3	1:140:A:GLU:H	10	0.16
(1,1442)	1:139:A:GLU:HB2	1:140:A:GLU:H	19	0.16
(1,1442)	1:139:A:GLU:HB3	1:140:A:GLU:H	19	0.16
(1,1441)	1:148:A:LYS:HA	1:148:A:LYS:H	19	0.16
(1,1438)	1:81:A:SER:HA	1:82:A:GLU:H	9	0.16
(1,1438)	1:81:A:SER:HA	1:82:A:GLU:H	15	0.16
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	1	0.16
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	3	0.16
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	5	0.16
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	6	0.16
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	14	0.16
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	15	0.16
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	19	0.16
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	20	0.16
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	1	0.16
(1,1433)	1:73:A:ALA:HA	1:76:A:MET:H	11	0.16
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	1	0.16
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	2	0.16
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	3	0.16
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	8	0.16
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	10	0.16
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	11	0.16
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	15	0.16
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	16	0.16
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	17	0.16
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	19	0.16
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	20	0.16
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	19	0.16
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	19	0.16
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	19	0.16
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	19	0.16
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	19	0.16
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	19	0.16
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	19	0.16
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	19	0.16
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	19	0.16
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	10	0.16
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	10	0.16
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	10	0.16
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	10	0.16
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	10	0.16
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	11	0.16
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	11	0.16
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	11	0.16
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	11	0.16
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	11	0.16
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	11	0.16
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	2	0.16
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	2	0.16
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	2	0.16
(1,1393)	1:51:A:MET:HE1	1:51:A:MET:H	5	0.16
(1,1393)	1:51:A:MET:HE2	1:51:A:MET:H	5	0.16
(1,1393)	1:51:A:MET:HE3	1:51:A:MET:H	5	0.16
(1,1393)	1:51:A:MET:HE1	1:51:A:MET:H	8	0.16
(1,1393)	1:51:A:MET:HE2	1:51:A:MET:H	8	0.16
(1,1393)	1:51:A:MET:HE3	1:51:A:MET:H	8	0.16
(1,1393)	1:51:A:MET:HE1	1:51:A:MET:H	9	0.16
(1,1393)	1:51:A:MET:HE2	1:51:A:MET:H	9	0.16
(1,1393)	1:51:A:MET:HE3	1:51:A:MET:H	9	0.16
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	9	0.16
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	9	0.16
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	9	0.16
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	12	0.16
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	12	0.16
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	12	0.16
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	15	0.16
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	15	0.16
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	15	0.16
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	18	0.16
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	18	0.16
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	18	0.16
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	11	0.16
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	11	0.16
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	2	0.16
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	4	0.16
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	8	0.16
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	10	0.16
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	20	0.16
(1,1329)	1:37:A:ARG:HG2	1:37:A:ARG:H	14	0.16
(1,1329)	1:37:A:ARG:HG3	1:37:A:ARG:H	14	0.16
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	12	0.16
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	12	0.16
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	17	0.16
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	17	0.16
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	17	0.16
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	2	0.16
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	2	0.16
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	2	0.16
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	10	0.16
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	10	0.16
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	10	0.16
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	6	0.16
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	12	0.16
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG2	1	0.16
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG3	1	0.16
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG2	1	0.16
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG3	1	0.16
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG2	20	0.16
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG3	20	0.16
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG2	20	0.16
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG3	20	0.16
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG11	19	0.16
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG12	19	0.16
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG13	19	0.16
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG11	19	0.16
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG12	19	0.16
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG13	19	0.16
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG2	8	0.16
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG3	8	0.16
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	4	0.16
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	5	0.16
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	19	0.16
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	1	0.16
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB2	18	0.16
(1,1233)	1:96:A:GLY:HA2	1:97:A:ASN:HB3	18	0.16
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB2	18	0.16
(1,1233)	1:96:A:GLY:HA3	1:97:A:ASN:HB3	18	0.16
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	19	0.16
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	19	0.16
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	20	0.16
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	20	0.16
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	3	0.16
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	4	0.16
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	7	0.16
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	13	0.16
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	16	0.16
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	17	0.16
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	20	0.16
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	4	0.16
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	11	0.16
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	16	0.16
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	15	0.16
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	15	0.16
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	15	0.16
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	17	0.16
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	17	0.16
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	17	0.16
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	18	0.16
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	18	0.16
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	18	0.16
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	9	0.16
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	9	0.16
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	6	0.16
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	6	0.16
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	6	0.16
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB2	14	0.16
(1,1118)	1:115:A:LYS:HA	1:116:A:LEU:HB3	14	0.16
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	13	0.16
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	13	0.16
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	13	0.16
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	17	0.16
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	17	0.16
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	17	0.16
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	19	0.16
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	19	0.16
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	19	0.16
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	15	0.16
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	19	0.16
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	20	0.16
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG21	6	0.16
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG22	6	0.16
(1,1105)	1:122:A:ASP:HA	1:125:A:ILE:HG23	6	0.16
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	1	0.16
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	1	0.16
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1098)	1:121:A:VAL:HG11	1:122:A:ASP:H	10	0.16
(1,1098)	1:121:A:VAL:HG12	1:122:A:ASP:H	10	0.16
(1,1098)	1:121:A:VAL:HG13	1:122:A:ASP:H	10	0.16
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	4	0.16
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	14	0.16
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	5	0.16
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	10	0.16
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	16	0.16
(1,1068)	1:75:A:LYS:HB2	1:75:A:LYS:HE2	18	0.16
(1,1068)	1:75:A:LYS:HB2	1:75:A:LYS:HE3	18	0.16
(1,1068)	1:75:A:LYS:HB3	1:75:A:LYS:HE2	18	0.16
(1,1068)	1:75:A:LYS:HB3	1:75:A:LYS:HE3	18	0.16
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	1	0.16
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	1	0.16
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	1	0.16
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	1	0.16
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	1	0.16
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	1	0.16
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	2	0.16
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	2	0.16
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	2	0.16
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	19	0.16
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	19	0.16
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	19	0.16
(1,1051)	1:85:A:ILE:HG21	1:82:A:GLU:HA	4	0.16
(1,1051)	1:85:A:ILE:HG22	1:82:A:GLU:HA	4	0.16
(1,1051)	1:85:A:ILE:HG23	1:82:A:GLU:HA	4	0.16
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	12	0.16
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	12	0.16
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	5	0.16
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	5	0.16
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	5	0.16
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	5	0.16
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	5	0.16
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	5	0.16
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	6	0.16
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	6	0.16
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	6	0.16
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	6	0.16
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	6	0.16
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	6	0.16
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	10	0.16
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	10	0.16
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	10	0.16
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	10	0.16
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	10	0.16
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	15	0.16
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	15	0.16
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	15	0.16
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	15	0.16
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	15	0.16
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	15	0.16
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	4	0.16
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	4	0.16
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	4	0.16
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	8	0.16
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	8	0.16
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	8	0.16
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	12	0.16
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	12	0.16
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	12	0.16
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	13	0.16
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	13	0.16
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	13	0.16
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	14	0.16
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	14	0.16
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	14	0.16
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	1	0.16
(1,997)	1:55:A:VAL:HA	1:57:A:ALA:H	20	0.16
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	18	0.16
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	18	0.16
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	4	0.16
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	4	0.16
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	11	0.16
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	13	0.16
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	15	0.16
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	18	0.16
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	19	0.16
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	20	0.16
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	2	0.16
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	3	0.16
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	4	0.16
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	6	0.16
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	12	0.16
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	13	0.16
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	15	0.16
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	20	0.16
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	4	0.16
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	4	0.16
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	18	0.16
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	18	0.16
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	18	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	2	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	2	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	2	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	2	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	2	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	2	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	3	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	3	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	3	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	3	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	3	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	3	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	6	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	6	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	6	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	6	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	6	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	6	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	7	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	7	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	7	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	7	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	7	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	7	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	8	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	8	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	8	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	8	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	8	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	8	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	12	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	12	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	12	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	12	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	12	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	18	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	18	0.16
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	18	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	18	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	18	0.16
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	18	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	5	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	5	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	5	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	5	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	5	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	5	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	13	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	13	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	13	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	13	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	13	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	13	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	14	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	14	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	14	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	14	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	14	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	14	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	20	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	20	0.16
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	20	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	20	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	20	0.16
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	20	0.16
(1,568)	1:142:A:VAL:HA	1:145:A:MET:HA	11	0.16
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB2	15	0.16
(1,447)	1:63:A:ILE:HD11	1:68:A:PHE:HB3	15	0.16
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB2	15	0.16
(1,447)	1:63:A:ILE:HD12	1:68:A:PHE:HB3	15	0.16
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB2	15	0.16
(1,447)	1:63:A:ILE:HD13	1:68:A:PHE:HB3	15	0.16
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	1	0.16
(1,147)	1:145:A:MET:HE1	1:86:A:ARG:HG2	20	0.16
(1,147)	1:145:A:MET:HE1	1:86:A:ARG:HG3	20	0.16
(1,147)	1:145:A:MET:HE2	1:86:A:ARG:HG2	20	0.16
(1,147)	1:145:A:MET:HE2	1:86:A:ARG:HG3	20	0.16
(1,147)	1:145:A:MET:HE3	1:86:A:ARG:HG2	20	0.16
(1,147)	1:145:A:MET:HE3	1:86:A:ARG:HG3	20	0.16
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	14	0.15
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	14	0.15
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	14	0.15
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	14	0.15
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	14	0.15
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	14	0.15
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	18	0.15
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	18	0.15
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	18	0.15
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	18	0.15
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	18	0.15
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	18	0.15
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	2	0.15
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	2	0.15
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	2	0.15
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	10	0.15
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	10	0.15
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	10	0.15
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	6	0.15
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	19	0.15
(1,1755)	1:107:A:HIS:HA	1:107:A:HIS:H	20	0.15
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	6	0.15
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	18	0.15
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	4	0.15
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	16	0.15
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	17	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	1	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	2	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	3	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	5	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	6	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	8	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	10	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	11	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	13	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	14	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	15	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	17	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	18	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	19	0.15
(1,1739)	1:141:A:PHE:HA	1:141:A:PHE:H	20	0.15
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	8	0.15
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	12	0.15
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	7	0.15
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	7	0.15
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	7	0.15
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	7	0.15
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	7	0.15
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	7	0.15
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	15	0.15
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	15	0.15
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	15	0.15
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	15	0.15
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	15	0.15
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	15	0.15
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	16	0.15
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	16	0.15
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	16	0.15
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	16	0.15
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	16	0.15
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	16	0.15
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	17	0.15
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	17	0.15
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	17	0.15
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	17	0.15
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	17	0.15
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	17	0.15
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	18	0.15
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	18	0.15
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	18	0.15
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	18	0.15
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	18	0.15
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	18	0.15
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	2	0.15
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	20	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	1	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	1	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	1	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	1	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	1	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	5	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	5	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	5	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	5	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	5	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	5	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	7	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	7	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	7	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	7	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	7	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	7	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	17	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	17	0.15
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	17	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	17	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	17	0.15
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	17	0.15
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	6	0.15
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	6	0.15
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	6	0.15
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	7	0.15
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	7	0.15
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	7	0.15
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	8	0.15
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	8	0.15
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	8	0.15
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	11	0.15
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	11	0.15
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	11	0.15
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	13	0.15
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	13	0.15
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	13	0.15
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	17	0.15
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	17	0.15
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	17	0.15
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	20	0.15
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	20	0.15
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	1	0.15
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	4	0.15
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	8	0.15
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	19	0.15
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	20	0.15
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	3	0.15
(1,1653)	1:21:A:LYS:HD2	1:21:A:LYS:H	7	0.15
(1,1653)	1:21:A:LYS:HD3	1:21:A:LYS:H	7	0.15
(1,1653)	1:21:A:LYS:HD2	1:21:A:LYS:H	15	0.15
(1,1653)	1:21:A:LYS:HD3	1:21:A:LYS:H	15	0.15
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	3	0.15
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	3	0.15
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	20	0.15
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	20	0.15
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	3	0.15
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	6	0.15
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	6	0.15
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	6	0.15
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	1	0.15
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	1	0.15
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	1	0.15
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	1	0.15
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	12	0.15
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	12	0.15
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	12	0.15
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	12	0.15
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	14	0.15
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	14	0.15
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	14	0.15
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	14	0.15
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	15	0.15
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	15	0.15
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	15	0.15
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	15	0.15
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	20	0.15
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	20	0.15
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	20	0.15
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	20	0.15
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD1	16	0.15
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD2	16	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD1	16	0.15
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD2	16	0.15
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD1	16	0.15
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD2	16	0.15
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	17	0.15
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	17	0.15
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	17	0.15
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	17	0.15
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	2	0.15
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	3	0.15
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	5	0.15
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	7	0.15
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	8	0.15
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	9	0.15
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	11	0.15
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	13	0.15
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	14	0.15
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	15	0.15
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	17	0.15
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	18	0.15
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	20	0.15
(1,1599)	1:76:A:MET:HA	1:79:A:THR:H	3	0.15
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	17	0.15
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	8	0.15
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	8	0.15
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	8	0.15
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	8	0.15
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	14	0.15
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	14	0.15
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	14	0.15
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	14	0.15
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	14	0.15
(1,1578)	1:91:A:VAL:HA	1:91:A:VAL:H	18	0.15
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB1	5	0.15
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB2	5	0.15
(1,1564)	1:91:A:VAL:HG21	1:88:A:ALA:HB3	5	0.15
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB1	5	0.15
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB2	5	0.15
(1,1564)	1:91:A:VAL:HG22	1:88:A:ALA:HB3	5	0.15
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB1	5	0.15
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB2	5	0.15
(1,1564)	1:91:A:VAL:HG23	1:88:A:ALA:HB3	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	11	0.15
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	11	0.15
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	11	0.15
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	11	0.15
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	11	0.15
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	11	0.15
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	13	0.15
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	13	0.15
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	13	0.15
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	13	0.15
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	13	0.15
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	13	0.15
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	20	0.15
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	20	0.15
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	20	0.15
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	20	0.15
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	20	0.15
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	20	0.15
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	2	0.15
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	8	0.15
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	17	0.15
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	4	0.15
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	18	0.15
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	3	0.15
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	4	0.15
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	6	0.15
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	13	0.15
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	16	0.15
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	18	0.15
(1,1546)	1:64:A:ASP:HA	1:64:A:ASP:H	19	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	1	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	2	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	3	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	4	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	5	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	6	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	7	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	8	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	9	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	10	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	11	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	13	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	14	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	15	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	16	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	17	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	18	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	19	0.15
(1,1544)	1:67:A:GLU:HA	1:67:A:GLU:H	20	0.15
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	1	0.15
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	2	0.15
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	4	0.15
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	12	0.15
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	13	0.15
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	5	0.15
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	5	0.15
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	5	0.15
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	5	0.15
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	12	0.15
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	12	0.15
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	12	0.15
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	12	0.15
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	13	0.15
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	13	0.15
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	13	0.15
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	13	0.15
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	3	0.15
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	7	0.15
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	11	0.15
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	14	0.15
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	18	0.15
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	19	0.15
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	20	0.15
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	1	0.15
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	2	0.15
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	5	0.15
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	14	0.15
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	17	0.15
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	18	0.15
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	20	0.15
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	2	0.15
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	9	0.15
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	14	0.15
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	18	0.15
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	16	0.15
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	16	0.15
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	19	0.15
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	19	0.15
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	9	0.15
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	14	0.15
(1,1501)	1:37:A:ARG:HA	1:38:A:SER:H	14	0.15
(1,1497)	1:47:A:GLU:HA	1:48:A:LEU:H	18	0.15
(1,1496)	1:47:A:GLU:HA	1:47:A:GLU:H	3	0.15
(1,1496)	1:47:A:GLU:HA	1:47:A:GLU:H	8	0.15
(1,1496)	1:47:A:GLU:HA	1:47:A:GLU:H	9	0.15
(1,1496)	1:47:A:GLU:HA	1:47:A:GLU:H	14	0.15
(1,1496)	1:47:A:GLU:HA	1:47:A:GLU:H	16	0.15
(1,1496)	1:47:A:GLU:HA	1:47:A:GLU:H	19	0.15
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	2	0.15
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	7	0.15
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	11	0.15
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	12	0.15
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	15	0.15
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	1	0.15
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	2	0.15
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	3	0.15
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	16	0.15
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	17	0.15
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	18	0.15
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	11	0.15
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	18	0.15
(1,1451)	1:131:A:ASP:HA	1:131:A:ASP:H	6	0.15
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	4	0.15
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	5	0.15
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	6	0.15
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	8	0.15
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	2	0.15
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	4	0.15
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	5	0.15
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	7	0.15
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	14	0.15
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	15	0.15
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	16	0.15
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	18	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1442)	1:139:A:GLU:HB2	1:140:A:GLU:H	1	0.15
(1,1442)	1:139:A:GLU:HB3	1:140:A:GLU:H	1	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	2	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	3	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	4	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	5	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	7	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	8	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	9	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	11	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	12	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	13	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	15	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	17	0.15
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	18	0.15
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	10	0.15
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	16	0.15
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	17	0.15
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	4	0.15
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	7	0.15
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	12	0.15
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	5	0.15
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	6	0.15
(1,1418)	1:101:A:SER:HA	1:101:A:SER:H	8	0.15
(1,1416)	1:101:A:SER:HA	1:136:A:VAL:H	13	0.15
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	14	0.15
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	14	0.15
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	14	0.15
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	14	0.15
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	14	0.15
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	14	0.15
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	14	0.15
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	14	0.15
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	14	0.15
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	18	0.15
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	18	0.15
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	18	0.15
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	18	0.15
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	18	0.15
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	18	0.15
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	18	0.15
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	18	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	18	0.15
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	9	0.15
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	9	0.15
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	9	0.15
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	9	0.15
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	9	0.15
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	9	0.15
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	10	0.15
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	10	0.15
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	10	0.15
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	15	0.15
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	15	0.15
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	15	0.15
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	16	0.15
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	16	0.15
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	16	0.15
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	5	0.15
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	5	0.15
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	5	0.15
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	6	0.15
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	6	0.15
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	6	0.15
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	10	0.15
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	10	0.15
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	10	0.15
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	17	0.15
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	17	0.15
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	17	0.15
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	7	0.15
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	14	0.15
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	15	0.15
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	16	0.15
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	17	0.15
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	5	0.15
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	5	0.15
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	5	0.15
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	11	0.15
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	11	0.15
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	11	0.15
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	6	0.15
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	6	0.15
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	10	0.15
(1,1306)	1:113:A:GLY:HA2	1:115:A:LYS:H	8	0.15
(1,1306)	1:113:A:GLY:HA3	1:115:A:LYS:H	8	0.15
(1,1306)	1:113:A:GLY:HA2	1:115:A:LYS:H	20	0.15
(1,1306)	1:113:A:GLY:HA3	1:115:A:LYS:H	20	0.15
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG2	9	0.15
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG3	9	0.15
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG2	9	0.15
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG3	9	0.15
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG2	17	0.15
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG3	17	0.15
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	1	0.15
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	8	0.15
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	9	0.15
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	11	0.15
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	16	0.15
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	2	0.15
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	4	0.15
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	7	0.15
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	10	0.15
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	18	0.15
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	1	0.15
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	8	0.15
(1,1213)	1:60:A:ASN:HA	1:61:A:GLY:H	11	0.15
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	5	0.15
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	7	0.15
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	9	0.15
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	6	0.15
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	6	0.15
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	6	0.15
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	7	0.15
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	7	0.15
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	7	0.15
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	5	0.15
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	5	0.15
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	5	0.15
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	16	0.15
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	16	0.15
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	16	0.15
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	5	0.15
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	5	0.15
(1,1123)	1:112:A:LEU:HD21	1:113:A:GLY:H	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1123)	1:112:A:LEU:HD22	1:113:A:GLY:H	5	0.15
(1,1123)	1:112:A:LEU:HD23	1:113:A:GLY:H	5	0.15
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	9	0.15
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	9	0.15
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	17	0.15
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	17	0.15
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	17	0.15
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	17	0.15
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	17	0.15
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	17	0.15
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	18	0.15
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	18	0.15
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	18	0.15
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	18	0.15
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	18	0.15
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	18	0.15
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	1	0.15
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	1	0.15
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	1	0.15
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	5	0.15
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	5	0.15
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	5	0.15
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	10	0.15
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	10	0.15
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	10	0.15
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	16	0.15
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	16	0.15
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	16	0.15
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	18	0.15
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	18	0.15
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	18	0.15
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	2	0.15
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	11	0.15
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	19	0.15
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	2	0.15
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	3	0.15
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	4	0.15
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	6	0.15
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	14	0.15
(1,1068)	1:75:A:LYS:HB2	1:75:A:LYS:HE2	7	0.15
(1,1068)	1:75:A:LYS:HB2	1:75:A:LYS:HE3	7	0.15
(1,1068)	1:75:A:LYS:HB3	1:75:A:LYS:HE2	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1068)	1:75:A:LYS:HB3	1:75:A:LYS:HE3	7	0.15
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	9	0.15
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	9	0.15
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	9	0.15
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	9	0.15
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	9	0.15
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	9	0.15
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	10	0.15
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	10	0.15
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	10	0.15
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	10	0.15
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	10	0.15
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	10	0.15
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	1	0.15
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	1	0.15
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	1	0.15
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	4	0.15
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	4	0.15
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	4	0.15
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	14	0.15
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	14	0.15
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	14	0.15
(1,1051)	1:85:A:ILE:HG21	1:82:A:GLU:HA	16	0.15
(1,1051)	1:85:A:ILE:HG22	1:82:A:GLU:HA	16	0.15
(1,1051)	1:85:A:ILE:HG23	1:82:A:GLU:HA	16	0.15
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	7	0.15
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	7	0.15
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	17	0.15
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	17	0.15
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	17	0.15
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	17	0.15
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	17	0.15
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	17	0.15
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	20	0.15
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	20	0.15
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	20	0.15
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	20	0.15
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	20	0.15
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	20	0.15
(1,1018)	1:124:A:MET:HE1	1:121:A:VAL:HA	8	0.15
(1,1018)	1:124:A:MET:HE2	1:121:A:VAL:HA	8	0.15
(1,1018)	1:124:A:MET:HE3	1:121:A:VAL:HA	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	5	0.15
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	5	0.15
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	5	0.15
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	10	0.15
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	10	0.15
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	10	0.15
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	3	0.15
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	3	0.15
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	6	0.15
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	6	0.15
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	10	0.15
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	10	0.15
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	14	0.15
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	14	0.15
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	15	0.15
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	15	0.15
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	3	0.15
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	4	0.15
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	1	0.15
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	1	0.15
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	2	0.15
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	2	0.15
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	8	0.15
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	8	0.15
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	9	0.15
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	9	0.15
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	10	0.15
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	10	0.15
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	11	0.15
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	11	0.15
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	12	0.15
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	12	0.15
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	14	0.15
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	14	0.15
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	18	0.15
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	18	0.15
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	20	0.15
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	20	0.15
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	1	0.15
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	19	0.15
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	5	0.15
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	5	0.15
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	7	0.15
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	7	0.15
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	7	0.15
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	13	0.15
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	13	0.15
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	13	0.15
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	16	0.15
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	16	0.15
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	16	0.15
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	20	0.15
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	20	0.15
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	20	0.15
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	5	0.15
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	5	0.15
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	5	0.15
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	9	0.15
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	9	0.15
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	9	0.15
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	5	0.15
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	5	0.15
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	5	0.15
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	5	0.15
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	5	0.15
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	5	0.15
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	8	0.15
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	8	0.15
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	8	0.15
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	8	0.15
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	8	0.15
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	8	0.15
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	17	0.15
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	17	0.15
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	17	0.15
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	17	0.15
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	17	0.15
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	17	0.15
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	18	0.15
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	18	0.15
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	18	0.15
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	18	0.15
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	18	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	18	0.15
(1,686)	1:144:A:MET:HE1	1:126:A:ARG:HD2	7	0.15
(1,686)	1:144:A:MET:HE1	1:126:A:ARG:HD3	7	0.15
(1,686)	1:144:A:MET:HE2	1:126:A:ARG:HD2	7	0.15
(1,686)	1:144:A:MET:HE2	1:126:A:ARG:HD3	7	0.15
(1,686)	1:144:A:MET:HE3	1:126:A:ARG:HD2	7	0.15
(1,686)	1:144:A:MET:HE3	1:126:A:ARG:HD3	7	0.15
(1,652)	1:104:A:GLU:HB2	1:92:A:PHE:HE1	6	0.15
(1,652)	1:104:A:GLU:HB2	1:92:A:PHE:HE2	6	0.15
(1,652)	1:104:A:GLU:HB3	1:92:A:PHE:HE1	6	0.15
(1,652)	1:104:A:GLU:HB3	1:92:A:PHE:HE2	6	0.15
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	19	0.15
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	19	0.15
(1,209)	1:105:A:LEU:HD11	1:138:A:TYR:HA	6	0.15
(1,209)	1:105:A:LEU:HD12	1:138:A:TYR:HA	6	0.15
(1,209)	1:105:A:LEU:HD13	1:138:A:TYR:HA	6	0.15
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	3	0.14
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	3	0.14
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	3	0.14
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	3	0.14
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	3	0.14
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	3	0.14
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	2	0.14
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	2	0.14
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	4	0.14
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	4	0.14
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	5	0.14
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	5	0.14
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	7	0.14
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	7	0.14
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	1	0.14
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	2	0.14
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	3	0.14
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	5	0.14
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	7	0.14
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	8	0.14
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	11	0.14
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	14	0.14
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	15	0.14
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	16	0.14
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	17	0.14
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	20	0.14
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	4	0.14
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	11	0.14
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	2	0.14
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	2	0.14
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	2	0.14
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	2	0.14
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	2	0.14
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	2	0.14
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	10	0.14
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	10	0.14
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	10	0.14
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	10	0.14
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	10	0.14
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	10	0.14
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	11	0.14
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	11	0.14
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	11	0.14
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	11	0.14
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	11	0.14
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	11	0.14
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	12	0.14
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	12	0.14
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	12	0.14
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	12	0.14
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	12	0.14
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	12	0.14
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	14	0.14
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	14	0.14
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	14	0.14
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	14	0.14
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	14	0.14
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	14	0.14
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	11	0.14
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	11	0.14
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	6	0.14
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	16	0.14
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	19	0.14
(1,1706)	1:99:A:TYR:HA	1:138:A:TYR:HD1	15	0.14
(1,1706)	1:99:A:TYR:HA	1:138:A:TYR:HD2	15	0.14
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	9	0.14
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	9	0.14
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	9	0.14
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	9	0.14
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	9	0.14
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	20	0.14
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	20	0.14
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	20	0.14
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	20	0.14
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	20	0.14
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	20	0.14
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	1	0.14
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	1	0.14
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	1	0.14
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	3	0.14
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	3	0.14
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	3	0.14
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	4	0.14
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	4	0.14
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	4	0.14
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	16	0.14
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	16	0.14
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	16	0.14
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	7	0.14
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	9	0.14
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	11	0.14
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	16	0.14
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	17	0.14
(1,1673)	1:7:A:GLU:HA	1:10:A:ALA:H	11	0.14
(1,1651)	1:36:A:MET:HB2	1:37:A:ARG:H	11	0.14
(1,1651)	1:36:A:MET:HB3	1:37:A:ARG:H	11	0.14
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	6	0.14
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	6	0.14
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	6	0.14
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	6	0.14
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	8	0.14
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	8	0.14
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	8	0.14
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	8	0.14
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	19	0.14
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	19	0.14
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	19	0.14
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	9	0.14
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	9	0.14
(1,1626)	1:120:A:GLU:HB2	1:117:A:THR:H	3	0.14
(1,1626)	1:120:A:GLU:HB3	1:117:A:THR:H	3	0.14
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	3	0.14
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	3	0.14
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	3	0.14
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	3	0.14
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	4	0.14
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	4	0.14
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	4	0.14
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	4	0.14
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	11	0.14
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	11	0.14
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	11	0.14
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	11	0.14
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	13	0.14
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	13	0.14
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	13	0.14
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	13	0.14
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	18	0.14
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	18	0.14
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	18	0.14
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	18	0.14
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	9	0.14
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	9	0.14
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	19	0.14
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	19	0.14
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	4	0.14
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	6	0.14
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	10	0.14
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	12	0.14
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	16	0.14
(1,1601)	1:76:A:MET:HA	1:76:A:MET:H	19	0.14
(1,1599)	1:76:A:MET:HA	1:79:A:THR:H	1	0.14
(1,1599)	1:76:A:MET:HA	1:79:A:THR:H	5	0.14
(1,1599)	1:76:A:MET:HA	1:79:A:THR:H	14	0.14
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE2	1	0.14
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE3	1	0.14
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE2	8	0.14
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE3	8	0.14
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE2	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE3	16	0.14
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	3	0.14
(1,1597)	1:75:A:LYS:HA	1:76:A:MET:H	20	0.14
(1,1595)	1:75:A:LYS:HA	1:75:A:LYS:H	3	0.14
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	11	0.14
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	11	0.14
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	11	0.14
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	11	0.14
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	16	0.14
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	16	0.14
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	16	0.14
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	16	0.14
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	1	0.14
(1,1577)	1:91:A:VAL:HA	1:92:A:PHE:H	17	0.14
(1,1573)	1:105:A:LEU:HA	1:108:A:VAL:H	4	0.14
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	14	0.14
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	14	0.14
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	14	0.14
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	18	0.14
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	18	0.14
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	18	0.14
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	3	0.14
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	3	0.14
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	3	0.14
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	3	0.14
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	3	0.14
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	3	0.14
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	8	0.14
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	8	0.14
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	8	0.14
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	8	0.14
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	8	0.14
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	8	0.14
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD1	16	0.14
(1,1561)	1:91:A:VAL:HG21	1:92:A:PHE:HD2	16	0.14
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD1	16	0.14
(1,1561)	1:91:A:VAL:HG22	1:92:A:PHE:HD2	16	0.14
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD1	16	0.14
(1,1561)	1:91:A:VAL:HG23	1:92:A:PHE:HD2	16	0.14
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	1	0.14
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	10	0.14
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	14	0.14
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	15	0.14
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	18	0.14
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	20	0.14
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	2	0.14
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	10	0.14
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	14	0.14
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	15	0.14
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	20	0.14
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	3	0.14
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	11	0.14
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	20	0.14
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	20	0.14
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	20	0.14
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	20	0.14
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	3	0.14
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	7	0.14
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	10	0.14
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	11	0.14
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	12	0.14
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	13	0.14
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	5	0.14
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	13	0.14
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	20	0.14
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	4	0.14
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	4	0.14
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	9	0.14
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	9	0.14
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	10	0.14
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	10	0.14
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	14	0.14
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	14	0.14
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	17	0.14
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	17	0.14
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	5	0.14
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	10	0.14
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	12	0.14
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	13	0.14
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	16	0.14
(1,1496)	1:47:A:GLU:HA	1:47:A:GLU:H	1	0.14
(1,1496)	1:47:A:GLU:HA	1:47:A:GLU:H	18	0.14
(1,1496)	1:47:A:GLU:HA	1:47:A:GLU:H	20	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	3	0.14
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	5	0.14
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	9	0.14
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	16	0.14
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	5	0.14
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	9	0.14
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	4	0.14
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	15	0.14
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	1	0.14
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	11	0.14
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	20	0.14
(1,1442)	1:139:A:GLU:HB2	1:140:A:GLU:H	20	0.14
(1,1442)	1:139:A:GLU:HB3	1:140:A:GLU:H	20	0.14
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	10	0.14
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	16	0.14
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	2	0.14
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	8	0.14
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	11	0.14
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	12	0.14
(1,1429)	1:82:A:GLU:HB2	1:83:A:GLU:H	9	0.14
(1,1429)	1:82:A:GLU:HB3	1:83:A:GLU:H	9	0.14
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	14	0.14
(1,1428)	1:91:A:VAL:HB	1:91:A:VAL:HA	18	0.14
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	4	0.14
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	10	0.14
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	13	0.14
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	17	0.14
(1,1422)	1:97:A:ASN:HA	1:98:A:GLY:H	2	0.14
(1,1418)	1:101:A:SER:HA	1:101:A:SER:H	1	0.14
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	8	0.14
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	8	0.14
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	8	0.14
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	8	0.14
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	8	0.14
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	8	0.14
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	8	0.14
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	8	0.14
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	8	0.14
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	2	0.14
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	2	0.14
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	2	0.14
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	2	0.14
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	2	0.14
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	19	0.14
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	19	0.14
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	19	0.14
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	19	0.14
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	19	0.14
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	19	0.14
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	13	0.14
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	13	0.14
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	13	0.14
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	1	0.14
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	1	0.14
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	1	0.14
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	3	0.14
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	3	0.14
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	3	0.14
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	4	0.14
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	4	0.14
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	4	0.14
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	7	0.14
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	7	0.14
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	7	0.14
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	8	0.14
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	8	0.14
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	8	0.14
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	11	0.14
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	11	0.14
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	11	0.14
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	13	0.14
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	13	0.14
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	13	0.14
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	14	0.14
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	14	0.14
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	14	0.14
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	16	0.14
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	16	0.14
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	16	0.14
(1,1390)	1:56:A:ALA:HB1	1:57:A:ALA:H	20	0.14
(1,1390)	1:56:A:ALA:HB2	1:57:A:ALA:H	20	0.14
(1,1390)	1:56:A:ALA:HB3	1:57:A:ALA:H	20	0.14
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	6	0.14
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	13	0.14
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	1	0.14
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	1	0.14
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	1	0.14
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	8	0.14
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	8	0.14
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	8	0.14
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	20	0.14
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	20	0.14
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	20	0.14
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	13	0.14
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE1	4	0.14
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE2	4	0.14
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE3	4	0.14
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	10	0.14
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	14	0.14
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	18	0.14
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG11	1	0.14
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG12	1	0.14
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG13	1	0.14
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG11	1	0.14
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG12	1	0.14
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG13	1	0.14
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	12	0.14
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	15	0.14
(1,1244)	1:82:A:GLU:HA	1:85:A:ILE:H	14	0.14
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	13	0.14
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	17	0.14
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	18	0.14
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	3	0.14
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	5	0.14
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	12	0.14
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	14	0.14
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	15	0.14
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	17	0.14
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	6	0.14
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	6	0.14
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	16	0.14
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	16	0.14
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	12	0.14
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD11	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD12	13	0.14
(1,1163)	1:29:A:THR:HA	1:52:A:ILE:HD13	13	0.14
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	4	0.14
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	4	0.14
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	4	0.14
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	6	0.14
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	6	0.14
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	6	0.14
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	7	0.14
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	7	0.14
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	7	0.14
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	9	0.14
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	9	0.14
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	9	0.14
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	13	0.14
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	13	0.14
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	13	0.14
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	14	0.14
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	14	0.14
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	14	0.14
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	18	0.14
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	18	0.14
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	18	0.14
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	3	0.14
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	3	0.14
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	16	0.14
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	16	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	1	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	1	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	2	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	2	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	4	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	4	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	5	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	5	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	10	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	10	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	14	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	14	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	15	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	15	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	16	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	17	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	17	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	18	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	18	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE2	19	0.14
(1,1117)	1:115:A:LYS:HA	1:115:A:LYS:HE3	19	0.14
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	2	0.14
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	2	0.14
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	2	0.14
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	3	0.14
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	3	0.14
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	3	0.14
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	12	0.14
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	12	0.14
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	12	0.14
(1,1111)	1:124:A:MET:HA	1:141:A:PHE:HZ	11	0.14
(1,1111)	1:124:A:MET:HA	1:141:A:PHE:HZ	16	0.14
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	4	0.14
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	20	0.14
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	17	0.14
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	18	0.14
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	18	0.14
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	18	0.14
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	18	0.14
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	18	0.14
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	18	0.14
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	18	0.14
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	18	0.14
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	18	0.14
(1,1051)	1:85:A:ILE:HG21	1:82:A:GLU:HA	3	0.14
(1,1051)	1:85:A:ILE:HG22	1:82:A:GLU:HA	3	0.14
(1,1051)	1:85:A:ILE:HG23	1:82:A:GLU:HA	3	0.14
(1,1051)	1:85:A:ILE:HG21	1:82:A:GLU:HA	20	0.14
(1,1051)	1:85:A:ILE:HG22	1:82:A:GLU:HA	20	0.14
(1,1051)	1:85:A:ILE:HG23	1:82:A:GLU:HA	20	0.14
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	5	0.14
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	5	0.14
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	11	0.14
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	11	0.14
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	16	0.14
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	20	0.14
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	20	0.14
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	1	0.14
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	1	0.14
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	1	0.14
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	1	0.14
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	1	0.14
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	1	0.14
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	4	0.14
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	4	0.14
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	4	0.14
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	4	0.14
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	4	0.14
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	4	0.14
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	3	0.14
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	3	0.14
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	3	0.14
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	16	0.14
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	16	0.14
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	16	0.14
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	6	0.14
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	2	0.14
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	2	0.14
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	7	0.14
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	7	0.14
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	9	0.14
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	9	0.14
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	15	0.14
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	15	0.14
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	16	0.14
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	16	0.14
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	17	0.14
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	17	0.14
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	20	0.14
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	20	0.14
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	10	0.14
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	10	0.14
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	1	0.14
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	1	0.14
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	1	0.14
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	2	0.14
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	2	0.14
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	3	0.14
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	3	0.14
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	3	0.14
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	8	0.14
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	8	0.14
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	8	0.14
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	13	0.14
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	13	0.14
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	13	0.14
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	15	0.14
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	15	0.14
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	15	0.14
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	17	0.14
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	17	0.14
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	17	0.14
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	20	0.14
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	20	0.14
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	20	0.14
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	7	0.14
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	9	0.14
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	10	0.14
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	11	0.14
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	14	0.14
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	19	0.14
(1,964)	1:10:A:ALA:HA	1:11:A:GLU:H	1	0.14
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	9	0.14
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	2	0.14
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	3	0.14
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	4	0.14
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	6	0.14
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	8	0.14
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	10	0.14
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	15	0.14
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	16	0.14
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	17	0.14
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	20	0.14
(1,914)	1:39:A:LEU:HD11	1:12:A:PHE:HZ	1	0.14
(1,914)	1:39:A:LEU:HD12	1:12:A:PHE:HZ	1	0.14
(1,914)	1:39:A:LEU:HD13	1:12:A:PHE:HZ	1	0.14
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	2	0.14
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	2	0.14
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	4	0.14
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	4	0.14
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	4	0.14
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	8	0.14
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	8	0.14
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	8	0.14
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	17	0.14
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	17	0.14
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	17	0.14
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD11	10	0.14
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD12	10	0.14
(1,896)	1:39:A:LEU:HA	1:39:A:LEU:HD13	10	0.14
(1,879)	1:112:A:LEU:HB2	1:109:A:MET:HG2	12	0.14
(1,879)	1:112:A:LEU:HB2	1:109:A:MET:HG3	12	0.14
(1,879)	1:112:A:LEU:HB3	1:109:A:MET:HG2	12	0.14
(1,879)	1:112:A:LEU:HB3	1:109:A:MET:HG3	12	0.14
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE1	12	0.14
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE2	12	0.14
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE3	12	0.14
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	2	0.14
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	2	0.14
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	2	0.14
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	2	0.14
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	2	0.14
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	2	0.14
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	6	0.14
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	6	0.14
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	6	0.14
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	6	0.14
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	6	0.14
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	6	0.14
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	11	0.14
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	11	0.14
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	11	0.14
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	11	0.14
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	11	0.14
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	11	0.14
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	1	0.14
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	1	0.14
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	2	0.14
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	5	0.14
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	5	0.14
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	17	0.14
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	17	0.14
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	18	0.14
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	18	0.14
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	19	0.14
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	19	0.14
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD21	5	0.14
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD22	5	0.14
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD23	5	0.14
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD21	5	0.14
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD22	5	0.14
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD23	5	0.14
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD21	5	0.14
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD22	5	0.14
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD23	5	0.14
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD21	20	0.14
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD22	20	0.14
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD23	20	0.14
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD21	20	0.14
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD22	20	0.14
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD23	20	0.14
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD21	20	0.14
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD22	20	0.14
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD23	20	0.14
(1,568)	1:142:A:VAL:HA	1:145:A:MET:HA	20	0.14
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	3	0.14
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	3	0.14
(1,206)	1:94:A:LYS:HB2	1:91:A:VAL:HA	7	0.14
(1,206)	1:94:A:LYS:HB3	1:91:A:VAL:HA	7	0.14
(1,83)	1:99:A:TYR:HB2	1:135:A:GLN:HA	3	0.14
(1,83)	1:99:A:TYR:HB3	1:135:A:GLN:HA	3	0.14
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	5	0.13
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	5	0.13
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	5	0.13
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	19	0.13
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	19	0.13
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	19	0.13
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	9	0.13
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	9	0.13
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	10	0.13
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	14	0.13
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	14	0.13
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	18	0.13
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	18	0.13
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	4	0.13
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	9	0.13
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	12	0.13
(1,1753)	1:118:A:ASP:HA	1:119:A:GLU:H	13	0.13
(1,1752)	1:118:A:ASP:HA	1:118:A:ASP:H	6	0.13
(1,1752)	1:118:A:ASP:HA	1:118:A:ASP:H	11	0.13
(1,1747)	1:130:A:ILE:HA	1:131:A:ASP:H	9	0.13
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	9	0.13
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	19	0.13
(1,1729)	1:79:A:THR:HA	1:80:A:ASP:H	20	0.13
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	10	0.13
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	15	0.13
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	7	0.13
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	7	0.13
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	10	0.13
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	10	0.13
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	17	0.13
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	17	0.13
(1,1712)	1:97:A:ASN:HB2	1:99:A:TYR:HD1	2	0.13
(1,1712)	1:97:A:ASN:HB2	1:99:A:TYR:HD2	2	0.13
(1,1712)	1:97:A:ASN:HB3	1:99:A:TYR:HD1	2	0.13
(1,1712)	1:97:A:ASN:HB3	1:99:A:TYR:HD2	2	0.13
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE1	4	0.13
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE2	4	0.13
(1,1707)	1:99:A:TYR:HA	1:99:A:TYR:H	17	0.13
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	4	0.13
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	4	0.13
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	4	0.13
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	4	0.13
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	4	0.13
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	4	0.13
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	6	0.13
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	6	0.13
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	6	0.13
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	6	0.13
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	6	0.13
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	14	0.13
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	14	0.13
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	14	0.13
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	14	0.13
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	14	0.13
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	14	0.13
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	3	0.13
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	5	0.13
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	6	0.13
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	2	0.13
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	2	0.13
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	2	0.13
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	2	0.13
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD1	11	0.13
(1,1650)	1:36:A:MET:HB2	1:12:A:PHE:HD2	11	0.13
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD1	11	0.13
(1,1650)	1:36:A:MET:HB3	1:12:A:PHE:HD2	11	0.13
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	6	0.13
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	6	0.13
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	11	0.13
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	11	0.13
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	12	0.13
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	12	0.13
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	15	0.13
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	15	0.13
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	17	0.13
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	17	0.13
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	1	0.13
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	11	0.13
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	8	0.13
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	8	0.13
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	12	0.13
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	12	0.13
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	13	0.13
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	13	0.13
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	13	0.13
(1,1619)	1:127:A:GLU:HB2	1:128:A:ALA:H	4	0.13
(1,1619)	1:127:A:GLU:HB3	1:128:A:ALA:H	4	0.13
(1,1619)	1:127:A:GLU:HB2	1:128:A:ALA:H	16	0.13
(1,1619)	1:127:A:GLU:HB3	1:128:A:ALA:H	16	0.13
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	17	0.13
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	17	0.13
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	17	0.13
(1,1616)	1:137:A:ASN:HB2	1:137:A:ASN:H	8	0.13
(1,1616)	1:137:A:ASN:HB3	1:137:A:ASN:H	8	0.13
(1,1615)	1:137:A:ASN:HB2	1:139:A:GLU:H	18	0.13
(1,1615)	1:137:A:ASN:HB3	1:139:A:GLU:H	18	0.13
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD1	3	0.13
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD2	3	0.13
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD1	3	0.13
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD2	3	0.13
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD1	3	0.13
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD2	3	0.13
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD1	8	0.13
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD2	8	0.13
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD1	8	0.13
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD2	8	0.13
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD1	8	0.13
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD2	8	0.13
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	18	0.13
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	18	0.13
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	13	0.13
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	13	0.13
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE2	5	0.13
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE3	5	0.13
(1,1595)	1:75:A:LYS:HA	1:75:A:LYS:H	10	0.13
(1,1595)	1:75:A:LYS:HA	1:75:A:LYS:H	18	0.13
(1,1595)	1:75:A:LYS:HA	1:75:A:LYS:H	20	0.13
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	4	0.13
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	4	0.13
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	4	0.13
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	4	0.13
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	9	0.13
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	9	0.13
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	9	0.13
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	9	0.13
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	15	0.13
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	15	0.13
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	15	0.13
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	15	0.13
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	19	0.13
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	19	0.13
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	19	0.13
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	20	0.13
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	20	0.13
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	20	0.13
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	20	0.13
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	4	0.13
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	4	0.13
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	4	0.13
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	7	0.13
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	7	0.13
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	7	0.13
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	12	0.13
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	12	0.13
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	12	0.13
(1,1559)	1:94:A:LYS:HA	1:94:A:LYS:H	7	0.13
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	3	0.13
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	6	0.13
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	7	0.13
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	19	0.13
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	7	0.13
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	8	0.13
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	9	0.13
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	17	0.13
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	6	0.13
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	10	0.13
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	10	0.13
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	10	0.13
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	10	0.13
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	14	0.13
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	14	0.13
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	14	0.13
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	14	0.13
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	15	0.13
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	15	0.13
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	15	0.13
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	15	0.13
(1,1521)	1:18:A:LEU:HG	1:18:A:LEU:H	6	0.13
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	1	0.13
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	3	0.13
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	8	0.13
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	11	0.13
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	17	0.13
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	2	0.13
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	2	0.13
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	3	0.13
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	3	0.13
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	7	0.13
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	7	0.13
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	8	0.13
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	8	0.13
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	15	0.13
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	15	0.13
(1,1506)	1:37:A:ARG:HA	1:37:A:ARG:HD2	3	0.13
(1,1506)	1:37:A:ARG:HA	1:37:A:ARG:HD3	3	0.13
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	20	0.13
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	1	0.13
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	11	0.13
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	12	0.13
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	19	0.13
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	1	0.13
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	13	0.13
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	20	0.13
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	5	0.13
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	11	0.13
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	12	0.13
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	13	0.13
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	13	0.13
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	14	0.13
(1,1451)	1:131:A:ASP:HA	1:131:A:ASP:H	8	0.13
(1,1438)	1:81:A:SER:HA	1:82:A:GLU:H	14	0.13
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	14	0.13
(1,1435)	1:73:A:ALA:HA	1:73:A:ALA:H	1	0.13
(1,1429)	1:82:A:GLU:HB2	1:83:A:GLU:H	1	0.13
(1,1429)	1:82:A:GLU:HB3	1:83:A:GLU:H	1	0.13
(1,1429)	1:82:A:GLU:HB2	1:83:A:GLU:H	5	0.13
(1,1429)	1:82:A:GLU:HB3	1:83:A:GLU:H	5	0.13
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	1	0.13
(1,1421)	1:97:A:ASN:HA	1:97:A:ASN:H	6	0.13
(1,1418)	1:101:A:SER:HA	1:101:A:SER:H	11	0.13
(1,1418)	1:101:A:SER:HA	1:101:A:SER:H	18	0.13
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	6	0.13
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	6	0.13
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	6	0.13
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	6	0.13
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	6	0.13
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	6	0.13
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	6	0.13
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	6	0.13
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	7	0.13
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	7	0.13
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	7	0.13
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	7	0.13
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	7	0.13
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	7	0.13
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	7	0.13
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	7	0.13
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	7	0.13
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	16	0.13
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	16	0.13
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	16	0.13
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	16	0.13
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	16	0.13
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	16	0.13
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	16	0.13
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	16	0.13
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	16	0.13
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	4	0.13
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	4	0.13
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	4	0.13
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	4	0.13
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	4	0.13
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	4	0.13
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB2	11	0.13
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB3	11	0.13
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB2	11	0.13
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB3	11	0.13
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB2	11	0.13
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB3	11	0.13
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	6	0.13
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	6	0.13
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	6	0.13
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	6	0.13
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	6	0.13
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	7	0.13
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	7	0.13
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	7	0.13
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	7	0.13
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	7	0.13
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	7	0.13
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	10	0.13
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	10	0.13
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	10	0.13
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	10	0.13
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	10	0.13
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	10	0.13
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	13	0.13
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	13	0.13
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	13	0.13
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	13	0.13
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	13	0.13
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	13	0.13
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	16	0.13
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	16	0.13
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	16	0.13
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	16	0.13
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	16	0.13
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	16	0.13
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	20	0.13
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	20	0.13
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	20	0.13
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	20	0.13
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	20	0.13
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	20	0.13
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	3	0.13
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	3	0.13
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	3	0.13
(1,1393)	1:51:A:MET:HE1	1:51:A:MET:H	13	0.13
(1,1393)	1:51:A:MET:HE2	1:51:A:MET:H	13	0.13
(1,1393)	1:51:A:MET:HE3	1:51:A:MET:H	13	0.13
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	3	0.13
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	3	0.13
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	12	0.13
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	12	0.13
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	1	0.13
(1,1358)	1:21:A:LYS:HB2	1:22:A:ASP:H	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1358)	1:21:A:LYS:HB3	1:22:A:ASP:H	3	0.13
(1,1358)	1:21:A:LYS:HB2	1:22:A:ASP:H	19	0.13
(1,1358)	1:21:A:LYS:HB3	1:22:A:ASP:H	19	0.13
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	19	0.13
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	19	0.13
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	19	0.13
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	13	0.13
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	13	0.13
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	13	0.13
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	11	0.13
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	14	0.13
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	2	0.13
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	5	0.13
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	6	0.13
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	7	0.13
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	13	0.13
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	15	0.13
(1,1306)	1:113:A:GLY:HA2	1:115:A:LYS:H	6	0.13
(1,1306)	1:113:A:GLY:HA3	1:115:A:LYS:H	6	0.13
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG11	9	0.13
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG12	9	0.13
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG13	9	0.13
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG11	9	0.13
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG12	9	0.13
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG13	9	0.13
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG11	15	0.13
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG12	15	0.13
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG13	15	0.13
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG11	15	0.13
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG12	15	0.13
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG13	15	0.13
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG2	13	0.13
(1,1267)	1:145:A:MET:HA	1:145:A:MET:HG3	13	0.13
(1,1265)	1:145:A:MET:HA	1:148:A:LYS:H	11	0.13
(1,1244)	1:82:A:GLU:HA	1:85:A:ILE:H	12	0.13
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	3	0.13
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	4	0.13
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	7	0.13
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	12	0.13
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	19	0.13
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	18	0.13
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1223)	1:94:A:LYS:HD2	1:94:A:LYS:HA	7	0.13
(1,1223)	1:94:A:LYS:HD3	1:94:A:LYS:HA	7	0.13
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	2	0.13
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	2	0.13
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	2	0.13
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	10	0.13
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	10	0.13
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	10	0.13
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	17	0.13
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	17	0.13
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	17	0.13
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	20	0.13
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	20	0.13
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	20	0.13
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	17	0.13
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	17	0.13
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	18	0.13
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	18	0.13
(1,1124)	1:112:A:LEU:HD21	1:112:A:LEU:HA	4	0.13
(1,1124)	1:112:A:LEU:HD22	1:112:A:LEU:HA	4	0.13
(1,1124)	1:112:A:LEU:HD23	1:112:A:LEU:HA	4	0.13
(1,1121)	1:115:A:LYS:HA	1:116:A:LEU:H	9	0.13
(1,1121)	1:115:A:LYS:HA	1:116:A:LEU:H	16	0.13
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG2	9	0.13
(1,1114)	1:125:A:ILE:HD11	1:106:A:ARG:HG3	9	0.13
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG2	9	0.13
(1,1114)	1:125:A:ILE:HD12	1:106:A:ARG:HG3	9	0.13
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG2	9	0.13
(1,1114)	1:125:A:ILE:HD13	1:106:A:ARG:HG3	9	0.13
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	4	0.13
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	4	0.13
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	4	0.13
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	9	0.13
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	9	0.13
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	9	0.13
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	14	0.13
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	14	0.13
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	14	0.13
(1,1106)	1:124:A:MET:HA	1:127:A:GLU:H	11	0.13
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	1	0.13
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	2	0.13
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	10	0.13
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	11	0.13
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	13	0.13
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	14	0.13
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	18	0.13
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	12	0.13
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	6	0.13
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	6	0.13
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	6	0.13
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	6	0.13
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	6	0.13
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	6	0.13
(1,1054)	1:85:A:ILE:HG21	1:85:A:ILE:HD11	13	0.13
(1,1054)	1:85:A:ILE:HG21	1:85:A:ILE:HD12	13	0.13
(1,1054)	1:85:A:ILE:HG21	1:85:A:ILE:HD13	13	0.13
(1,1054)	1:85:A:ILE:HG22	1:85:A:ILE:HD11	13	0.13
(1,1054)	1:85:A:ILE:HG22	1:85:A:ILE:HD12	13	0.13
(1,1054)	1:85:A:ILE:HG22	1:85:A:ILE:HD13	13	0.13
(1,1054)	1:85:A:ILE:HG23	1:85:A:ILE:HD11	13	0.13
(1,1054)	1:85:A:ILE:HG23	1:85:A:ILE:HD12	13	0.13
(1,1054)	1:85:A:ILE:HG23	1:85:A:ILE:HD13	13	0.13
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	5	0.13
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	5	0.13
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	5	0.13
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	1	0.13
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	1	0.13
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	2	0.13
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	2	0.13
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	9	0.13
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	9	0.13
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	15	0.13
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	15	0.13
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	17	0.13
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	17	0.13
(1,1034)	1:75:A:LYS:HD2	1:75:A:LYS:H	15	0.13
(1,1034)	1:75:A:LYS:HD3	1:75:A:LYS:H	15	0.13
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	18	0.13
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	18	0.13
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	18	0.13
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	18	0.13
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	18	0.13
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	2	0.13
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	2	0.13
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	2	0.13
(1,1015)	1:124:A:MET:HE1	1:124:A:MET:HA	17	0.13
(1,1015)	1:124:A:MET:HE2	1:124:A:MET:HA	17	0.13
(1,1015)	1:124:A:MET:HE3	1:124:A:MET:HA	17	0.13
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	2	0.13
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	5	0.13
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	10	0.13
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	14	0.13
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	17	0.13
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	19	0.13
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	1	0.13
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	1	0.13
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	4	0.13
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	4	0.13
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	8	0.13
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	8	0.13
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	13	0.13
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	13	0.13
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	19	0.13
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	19	0.13
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	6	0.13
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	6	0.13
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	9	0.13
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	9	0.13
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	16	0.13
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	16	0.13
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	18	0.13
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	18	0.13
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	10	0.13
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	10	0.13
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	10	0.13
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	14	0.13
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	14	0.13
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	14	0.13
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	18	0.13
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	18	0.13
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	18	0.13
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	19	0.13
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	19	0.13
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	2	0.13
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	3	0.13
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	5	0.13
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	8	0.13
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	12	0.13
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	16	0.13
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	17	0.13
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	18	0.13
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	7	0.13
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	10	0.13
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	14	0.13
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	16	0.13
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	7	0.13
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	7	0.13
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	15	0.13
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	15	0.13
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	17	0.13
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	17	0.13
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	7	0.13
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	9	0.13
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	13	0.13
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	14	0.13
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	18	0.13
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	6	0.13
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	6	0.13
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	6	0.13
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE1	19	0.13
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE2	19	0.13
(1,895)	1:54:A:GLU:HB2	1:71:A:MET:HE3	19	0.13
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE1	19	0.13
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE2	19	0.13
(1,895)	1:54:A:GLU:HB3	1:71:A:MET:HE3	19	0.13
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE1	3	0.13
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE2	3	0.13
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE3	3	0.13
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	12	0.13
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	12	0.13
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	12	0.13
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	12	0.13
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	12	0.13
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	12	0.13
(1,686)	1:144:A:MET:HE1	1:126:A:ARG:HD2	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,686)	1:144:A:MET:HE1	1:126:A:ARG:HD3	9	0.13
(1,686)	1:144:A:MET:HE2	1:126:A:ARG:HD2	9	0.13
(1,686)	1:144:A:MET:HE2	1:126:A:ARG:HD3	9	0.13
(1,686)	1:144:A:MET:HE3	1:126:A:ARG:HD2	9	0.13
(1,686)	1:144:A:MET:HE3	1:126:A:ARG:HD3	9	0.13
(1,652)	1:104:A:GLU:HB2	1:92:A:PHE:HE1	5	0.13
(1,652)	1:104:A:GLU:HB2	1:92:A:PHE:HE2	5	0.13
(1,652)	1:104:A:GLU:HB3	1:92:A:PHE:HE1	5	0.13
(1,652)	1:104:A:GLU:HB3	1:92:A:PHE:HE2	5	0.13
(1,639)	1:46:A:ALA:HB1	1:50:A:ASP:HB2	5	0.13
(1,639)	1:46:A:ALA:HB1	1:50:A:ASP:HB3	5	0.13
(1,639)	1:46:A:ALA:HB2	1:50:A:ASP:HB2	5	0.13
(1,639)	1:46:A:ALA:HB2	1:50:A:ASP:HB3	5	0.13
(1,639)	1:46:A:ALA:HB3	1:50:A:ASP:HB2	5	0.13
(1,639)	1:46:A:ALA:HB3	1:50:A:ASP:HB3	5	0.13
(1,605)	1:114:A:GLU:HA	1:115:A:LYS:HA	6	0.13
(1,605)	1:114:A:GLU:HA	1:115:A:LYS:HA	8	0.13
(1,605)	1:114:A:GLU:HA	1:115:A:LYS:HA	13	0.13
(1,605)	1:114:A:GLU:HA	1:115:A:LYS:HA	20	0.13
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD21	6	0.13
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD22	6	0.13
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD23	6	0.13
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD21	6	0.13
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD22	6	0.13
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD23	6	0.13
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD21	6	0.13
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD22	6	0.13
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD23	6	0.13
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	9	0.13
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	9	0.13
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	16	0.13
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	16	0.13
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	18	0.13
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	18	0.13
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	19	0.13
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	19	0.13
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	20	0.13
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	20	0.13
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	4	0.13
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	4	0.13
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	11	0.13
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	16	0.13
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	16	0.13
(1,83)	1:99:A:TYR:HB2	1:135:A:GLN:HA	11	0.13
(1,83)	1:99:A:TYR:HB3	1:135:A:GLN:HA	11	0.13
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	7	0.12
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	7	0.12
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	7	0.12
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	7	0.12
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	7	0.12
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	7	0.12
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	1	0.12
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	1	0.12
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	3	0.12
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	3	0.12
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	11	0.12
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	11	0.12
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	12	0.12
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	12	0.12
(1,1741)	1:141:A:PHE:HA	1:142:A:VAL:H	4	0.12
(1,1724)	1:74:A:ARG:HB2	1:75:A:LYS:H	6	0.12
(1,1724)	1:74:A:ARG:HB3	1:75:A:LYS:H	6	0.12
(1,1724)	1:74:A:ARG:HB2	1:75:A:LYS:H	14	0.12
(1,1724)	1:74:A:ARG:HB3	1:75:A:LYS:H	14	0.12
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	1	0.12
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	1	0.12
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	1	0.12
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	1	0.12
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	1	0.12
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	1	0.12
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD1	19	0.12
(1,1722)	1:88:A:ALA:HB1	1:89:A:PHE:HD2	19	0.12
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD1	19	0.12
(1,1722)	1:88:A:ALA:HB2	1:89:A:PHE:HD2	19	0.12
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD1	19	0.12
(1,1722)	1:88:A:ALA:HB3	1:89:A:PHE:HD2	19	0.12
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	3	0.12
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	4	0.12
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	14	0.12
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	19	0.12
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	19	0.12
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE1	18	0.12
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE2	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	15	0.12
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	15	0.12
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	15	0.12
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	15	0.12
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	15	0.12
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	15	0.12
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	10	0.12
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	10	0.12
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	10	0.12
(1,1683)	1:57:A:ALA:HB1	1:58:A:ASP:H	14	0.12
(1,1683)	1:57:A:ALA:HB2	1:58:A:ASP:H	14	0.12
(1,1683)	1:57:A:ALA:HB3	1:58:A:ASP:H	14	0.12
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	2	0.12
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	12	0.12
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	14	0.12
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	15	0.12
(1,1651)	1:36:A:MET:HB2	1:37:A:ARG:H	1	0.12
(1,1651)	1:36:A:MET:HB3	1:37:A:ARG:H	1	0.12
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	1	0.12
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	1	0.12
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	19	0.12
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	19	0.12
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	11	0.12
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	11	0.12
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	19	0.12
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	19	0.12
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	8	0.12
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	8	0.12
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	8	0.12
(1,1635)	1:117:A:THR:HG21	1:117:A:THR:H	20	0.12
(1,1635)	1:117:A:THR:HG22	1:117:A:THR:H	20	0.12
(1,1635)	1:117:A:THR:HG23	1:117:A:THR:H	20	0.12
(1,1626)	1:120:A:GLU:HB2	1:117:A:THR:H	11	0.12
(1,1626)	1:120:A:GLU:HB3	1:117:A:THR:H	11	0.12
(1,1626)	1:120:A:GLU:HB2	1:117:A:THR:H	13	0.12
(1,1626)	1:120:A:GLU:HB3	1:117:A:THR:H	13	0.12
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE1	8	0.12
(1,1617)	1:137:A:ASN:HB2	1:138:A:TYR:HE2	8	0.12
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE1	8	0.12
(1,1617)	1:137:A:ASN:HB3	1:138:A:TYR:HE2	8	0.12
(1,1615)	1:137:A:ASN:HB2	1:139:A:GLU:H	2	0.12
(1,1615)	1:137:A:ASN:HB3	1:139:A:GLU:H	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1615)	1:137:A:ASN:HB2	1:139:A:GLU:H	3	0.12
(1,1615)	1:137:A:ASN:HB3	1:139:A:GLU:H	3	0.12
(1,1615)	1:137:A:ASN:HB2	1:139:A:GLU:H	4	0.12
(1,1615)	1:137:A:ASN:HB3	1:139:A:GLU:H	4	0.12
(1,1615)	1:137:A:ASN:HB2	1:139:A:GLU:H	14	0.12
(1,1615)	1:137:A:ASN:HB3	1:139:A:GLU:H	14	0.12
(1,1613)	1:142:A:VAL:HG21	1:142:A:VAL:H	7	0.12
(1,1613)	1:142:A:VAL:HG22	1:142:A:VAL:H	7	0.12
(1,1613)	1:142:A:VAL:HG23	1:142:A:VAL:H	7	0.12
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD1	2	0.12
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD2	2	0.12
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD1	2	0.12
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD2	2	0.12
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD1	2	0.12
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD2	2	0.12
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD1	15	0.12
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD2	15	0.12
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD1	15	0.12
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD2	15	0.12
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD1	15	0.12
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD2	15	0.12
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD1	18	0.12
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD2	18	0.12
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD1	18	0.12
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD2	18	0.12
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD1	18	0.12
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD2	18	0.12
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	1	0.12
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	1	0.12
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	3	0.12
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	3	0.12
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	7	0.12
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	7	0.12
(1,1599)	1:76:A:MET:HA	1:79:A:THR:H	7	0.12
(1,1599)	1:76:A:MET:HA	1:79:A:THR:H	15	0.12
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE2	9	0.12
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE3	9	0.12
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE2	12	0.12
(1,1598)	1:75:A:LYS:HA	1:75:A:LYS:HE3	12	0.12
(1,1595)	1:75:A:LYS:HA	1:75:A:LYS:H	2	0.12
(1,1595)	1:75:A:LYS:HA	1:75:A:LYS:H	13	0.12
(1,1595)	1:75:A:LYS:HA	1:75:A:LYS:H	14	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1595)	1:75:A:LYS:HA	1:75:A:LYS:H	17	0.12
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	4	0.12
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	5	0.12
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	9	0.12
(1,1555)	1:62:A:THR:HB	1:27:A:ILE:H	16	0.12
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	4	0.12
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	4	0.12
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	4	0.12
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	4	0.12
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	7	0.12
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	7	0.12
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	7	0.12
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	7	0.12
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	9	0.12
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	9	0.12
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	9	0.12
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	9	0.12
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	16	0.12
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	16	0.12
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	16	0.12
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	16	0.12
(1,1534)	1:8:A:GLN:HA	1:9:A:ILE:H	1	0.12
(1,1533)	1:8:A:GLN:HA	1:8:A:GLN:H	1	0.12
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	4	0.12
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	6	0.12
(1,1516)	1:26:A:THR:HB	1:63:A:ILE:H	7	0.12
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	18	0.12
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	18	0.12
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	20	0.12
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	20	0.12
(1,1506)	1:37:A:ARG:HA	1:37:A:ARG:HD2	14	0.12
(1,1506)	1:37:A:ARG:HA	1:37:A:ARG:HD3	14	0.12
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	2	0.12
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	8	0.12
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	17	0.12
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	20	0.12
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	4	0.12
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	8	0.12
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	17	0.12
(1,1495)	1:47:A:GLU:HA	1:50:A:ASP:H	19	0.12
(1,1490)	1:53:A:ASN:HA	1:57:A:ALA:HB1	12	0.12
(1,1490)	1:53:A:ASN:HA	1:57:A:ALA:HB2	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1490)	1:53:A:ASN:HA	1:57:A:ALA:HB3	12	0.12
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	2	0.12
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	3	0.12
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	4	0.12
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	6	0.12
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	7	0.12
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	10	0.12
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	14	0.12
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	17	0.12
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	19	0.12
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	20	0.12
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	20	0.12
(1,1478)	1:112:A:LEU:HA	1:112:A:LEU:H	10	0.12
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	8	0.12
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	13	0.12
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	20	0.12
(1,1452)	1:131:A:ASP:HA	1:134:A:GLY:H	10	0.12
(1,1451)	1:131:A:ASP:HA	1:131:A:ASP:H	9	0.12
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	1	0.12
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	11	0.12
(1,1444)	1:144:A:MET:HA	1:144:A:MET:H	9	0.12
(1,1442)	1:139:A:GLU:HB2	1:140:A:GLU:H	12	0.12
(1,1442)	1:139:A:GLU:HB3	1:140:A:GLU:H	12	0.12
(1,1442)	1:139:A:GLU:HB2	1:140:A:GLU:H	13	0.12
(1,1442)	1:139:A:GLU:HB3	1:140:A:GLU:H	13	0.12
(1,1438)	1:81:A:SER:HA	1:82:A:GLU:H	10	0.12
(1,1438)	1:81:A:SER:HA	1:82:A:GLU:H	19	0.12
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	6	0.12
(1,1429)	1:82:A:GLU:HB2	1:83:A:GLU:H	16	0.12
(1,1429)	1:82:A:GLU:HB3	1:83:A:GLU:H	16	0.12
(1,1429)	1:82:A:GLU:HB2	1:83:A:GLU:H	20	0.12
(1,1429)	1:82:A:GLU:HB3	1:83:A:GLU:H	20	0.12
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	7	0.12
(1,1422)	1:97:A:ASN:HA	1:98:A:GLY:H	1	0.12
(1,1422)	1:97:A:ASN:HA	1:98:A:GLY:H	14	0.12
(1,1422)	1:97:A:ASN:HA	1:98:A:GLY:H	18	0.12
(1,1418)	1:101:A:SER:HA	1:101:A:SER:H	17	0.12
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	9	0.12
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	9	0.12
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	9	0.12
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	9	0.12
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	9	0.12
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	9	0.12
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	9	0.12
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	9	0.12
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	1	0.12
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	1	0.12
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	1	0.12
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	1	0.12
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	1	0.12
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	1	0.12
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	3	0.12
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	3	0.12
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	3	0.12
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	3	0.12
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	3	0.12
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	3	0.12
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	9	0.12
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	9	0.12
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	9	0.12
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	9	0.12
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	9	0.12
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	9	0.12
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	20	0.12
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	20	0.12
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	20	0.12
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	20	0.12
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	20	0.12
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	20	0.12
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	5	0.12
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	5	0.12
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	5	0.12
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	5	0.12
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	5	0.12
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	5	0.12
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	14	0.12
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	14	0.12
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	14	0.12
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	14	0.12
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	14	0.12
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	14	0.12
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	15	0.12
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	15	0.12
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	15	0.12
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	15	0.12
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	15	0.12
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	7	0.12
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	7	0.12
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	7	0.12
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	8	0.12
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	8	0.12
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	8	0.12
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	16	0.12
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	16	0.12
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	3	0.12
(1,1382)	1:65:A:PHE:HA	1:16:A:PHE:HZ	19	0.12
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	3	0.12
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	3	0.12
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	3	0.12
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	16	0.12
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	16	0.12
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	16	0.12
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	7	0.12
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	7	0.12
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	7	0.12
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	18	0.12
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	18	0.12
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	18	0.12
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	4	0.12
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	5	0.12
(1,1312)	1:51:A:MET:HA	1:54:A:GLU:H	17	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE1	1	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE2	1	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE3	1	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE1	3	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE2	3	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE3	3	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE1	8	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE2	8	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE3	8	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE1	16	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE2	16	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE3	16	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE1	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE2	19	0.12
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE3	19	0.12
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	4	0.12
(1,1306)	1:113:A:GLY:HA2	1:115:A:LYS:H	13	0.12
(1,1306)	1:113:A:GLY:HA3	1:115:A:LYS:H	13	0.12
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG2	12	0.12
(1,1301)	1:109:A:MET:HG2	1:145:A:MET:HG3	12	0.12
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG2	12	0.12
(1,1301)	1:109:A:MET:HG3	1:145:A:MET:HG3	12	0.12
(1,1284)	1:130:A:ILE:HB	1:131:A:ASP:H	1	0.12
(1,1284)	1:130:A:ILE:HB	1:131:A:ASP:H	8	0.12
(1,1284)	1:130:A:ILE:HB	1:131:A:ASP:H	19	0.12
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	3	0.12
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	17	0.12
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	20	0.12
(1,1244)	1:82:A:GLU:HA	1:85:A:ILE:H	6	0.12
(1,1244)	1:82:A:GLU:HA	1:85:A:ILE:H	19	0.12
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	1	0.12
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	2	0.12
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	5	0.12
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	6	0.12
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	8	0.12
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	9	0.12
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	10	0.12
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	14	0.12
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	15	0.12
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	6	0.12
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	8	0.12
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	11	0.12
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	16	0.12
(1,1222)	1:94:A:LYS:HD2	1:94:A:LYS:H	9	0.12
(1,1222)	1:94:A:LYS:HD3	1:94:A:LYS:H	9	0.12
(1,1193)	1:18:A:LEU:HD11	1:19:A:PHE:H	1	0.12
(1,1193)	1:18:A:LEU:HD12	1:19:A:PHE:H	1	0.12
(1,1193)	1:18:A:LEU:HD13	1:19:A:PHE:H	1	0.12
(1,1193)	1:18:A:LEU:HD21	1:19:A:PHE:H	1	0.12
(1,1193)	1:18:A:LEU:HD22	1:19:A:PHE:H	1	0.12
(1,1193)	1:18:A:LEU:HD23	1:19:A:PHE:H	1	0.12
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	1	0.12
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	3	0.12
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	8	0.12
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	15	0.12
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	17	0.12
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	18	0.12
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	19	0.12
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	20	0.12
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	8	0.12
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	8	0.12
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	8	0.12
(1,1157)	1:35:A:VAL:HG21	1:27:A:ILE:HB	15	0.12
(1,1157)	1:35:A:VAL:HG22	1:27:A:ILE:HB	15	0.12
(1,1157)	1:35:A:VAL:HG23	1:27:A:ILE:HB	15	0.12
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	1	0.12
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	1	0.12
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	7	0.12
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	7	0.12
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	10	0.12
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	10	0.12
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	14	0.12
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	14	0.12
(1,1131)	1:106:A:ARG:HA	1:107:A:HIS:H	6	0.12
(1,1121)	1:115:A:LYS:HA	1:116:A:LEU:H	15	0.12
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	20	0.12
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	20	0.12
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	20	0.12
(1,1111)	1:124:A:MET:HA	1:141:A:PHE:HZ	2	0.12
(1,1111)	1:124:A:MET:HA	1:141:A:PHE:HZ	17	0.12
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	3	0.12
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	5	0.12
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	6	0.12
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	7	0.12
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	9	0.12
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	12	0.12
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	15	0.12
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	16	0.12
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	17	0.12
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	19	0.12
(1,1101)	1:122:A:ASP:HA	1:123:A:GLU:H	20	0.12
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	8	0.12
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	15	0.12
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	19	0.12
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	20	0.12
(1,1068)	1:75:A:LYS:HB2	1:75:A:LYS:HE2	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1068)	1:75:A:LYS:HB2	1:75:A:LYS:HE3	20	0.12
(1,1068)	1:75:A:LYS:HB3	1:75:A:LYS:HE2	20	0.12
(1,1068)	1:75:A:LYS:HB3	1:75:A:LYS:HE3	20	0.12
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	3	0.12
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	3	0.12
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	3	0.12
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	3	0.12
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	3	0.12
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	3	0.12
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	8	0.12
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	8	0.12
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	8	0.12
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	8	0.12
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	8	0.12
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	8	0.12
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	13	0.12
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	13	0.12
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	13	0.12
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	6	0.12
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	6	0.12
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	10	0.12
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	10	0.12
(1,1037)	1:75:A:LYS:HD2	1:75:A:LYS:HA	7	0.12
(1,1037)	1:75:A:LYS:HD3	1:75:A:LYS:HA	7	0.12
(1,1037)	1:75:A:LYS:HD2	1:75:A:LYS:HA	17	0.12
(1,1037)	1:75:A:LYS:HD3	1:75:A:LYS:HA	17	0.12
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	14	0.12
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	14	0.12
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	14	0.12
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	14	0.12
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	14	0.12
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	14	0.12
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	19	0.12
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	19	0.12
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	19	0.12
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	19	0.12
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	19	0.12
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	19	0.12
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	1	0.12
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	3	0.12
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	4	0.12
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	12	0.12
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	13	0.12
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	16	0.12
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	20	0.12
(1,989)	1:63:A:ILE:HG12	1:29:A:THR:HA	5	0.12
(1,989)	1:63:A:ILE:HG13	1:29:A:THR:HA	5	0.12
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	19	0.12
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	19	0.12
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG21	7	0.12
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG22	7	0.12
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG23	7	0.12
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG21	7	0.12
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG22	7	0.12
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG23	7	0.12
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG21	7	0.12
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG22	7	0.12
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG23	7	0.12
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	2	0.12
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	5	0.12
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	7	0.12
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	8	0.12
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	9	0.12
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	14	0.12
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	16	0.12
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	17	0.12
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	4	0.12
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	13	0.12
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	20	0.12
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	2	0.12
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	5	0.12
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	8	0.12
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	12	0.12
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	17	0.12
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	19	0.12
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	3	0.12
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	3	0.12
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	5	0.12
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	5	0.12
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	6	0.12
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	6	0.12
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	13	0.12
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	16	0.12
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	16	0.12
(1,944)	1:19:A:PHE:HB2	1:20:A:ALA:H	19	0.12
(1,944)	1:19:A:PHE:HB3	1:20:A:ALA:H	19	0.12
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	5	0.12
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	11	0.12
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	12	0.12
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	12	0.12
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	12	0.12
(1,910)	1:39:A:LEU:HD11	1:12:A:PHE:HA	15	0.12
(1,910)	1:39:A:LEU:HD12	1:12:A:PHE:HA	15	0.12
(1,910)	1:39:A:LEU:HD13	1:12:A:PHE:HA	15	0.12
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE1	18	0.12
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE2	18	0.12
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE3	18	0.12
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD11	1	0.12
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD12	1	0.12
(1,825)	1:72:A:MET:HB2	1:69:A:LEU:HD13	1	0.12
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD11	1	0.12
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD12	1	0.12
(1,825)	1:72:A:MET:HB3	1:69:A:LEU:HD13	1	0.12
(1,780)	1:75:A:LYS:HG2	1:75:A:LYS:H	4	0.12
(1,780)	1:75:A:LYS:HG3	1:75:A:LYS:H	4	0.12
(1,652)	1:104:A:GLU:HB2	1:92:A:PHE:HE1	2	0.12
(1,652)	1:104:A:GLU:HB2	1:92:A:PHE:HE2	2	0.12
(1,652)	1:104:A:GLU:HB3	1:92:A:PHE:HE1	2	0.12
(1,652)	1:104:A:GLU:HB3	1:92:A:PHE:HE2	2	0.12
(1,652)	1:104:A:GLU:HB2	1:92:A:PHE:HE1	10	0.12
(1,652)	1:104:A:GLU:HB2	1:92:A:PHE:HE2	10	0.12
(1,652)	1:104:A:GLU:HB3	1:92:A:PHE:HE1	10	0.12
(1,652)	1:104:A:GLU:HB3	1:92:A:PHE:HE2	10	0.12
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	4	0.12
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	4	0.12
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	11	0.12
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	11	0.12
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	16	0.12
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	16	0.12
(1,582)	1:130:A:ILE:HD11	1:135:A:GLN:HB2	11	0.12
(1,582)	1:130:A:ILE:HD11	1:135:A:GLN:HB3	11	0.12
(1,582)	1:130:A:ILE:HD12	1:135:A:GLN:HB2	11	0.12
(1,582)	1:130:A:ILE:HD12	1:135:A:GLN:HB3	11	0.12
(1,582)	1:130:A:ILE:HD13	1:135:A:GLN:HB2	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,582)	1:130:A:ILE:HD13	1:135:A:GLN:HB3	11	0.12
(1,568)	1:142:A:VAL:HA	1:145:A:MET:HA	7	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	1	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	1	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	2	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	2	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	3	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	3	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	4	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	4	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	5	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	5	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	7	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	7	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	8	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	8	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	10	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	10	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	11	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	11	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	13	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	13	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	14	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	14	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	15	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	15	0.12
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	17	0.12
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	17	0.12
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	5	0.12
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	5	0.12
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	6	0.12
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	6	0.12
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	9	0.12
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	9	0.12
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	12	0.12
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	12	0.12
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	13	0.12
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	13	0.12
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	15	0.12
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	15	0.12
(1,206)	1:94:A:LYS:HB2	1:91:A:VAL:HA	4	0.12
(1,206)	1:94:A:LYS:HB3	1:91:A:VAL:HA	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,83)	1:99:A:TYR:HB2	1:135:A:GLN:HA	5	0.12
(1,83)	1:99:A:TYR:HB3	1:135:A:GLN:HA	5	0.12
(1,83)	1:99:A:TYR:HB2	1:135:A:GLN:HA	8	0.12
(1,83)	1:99:A:TYR:HB3	1:135:A:GLN:HA	8	0.12
(1,1758)	1:105:A:LEU:HD21	1:89:A:PHE:HZ	11	0.11
(1,1758)	1:105:A:LEU:HD22	1:89:A:PHE:HZ	11	0.11
(1,1758)	1:105:A:LEU:HD23	1:89:A:PHE:HZ	11	0.11
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	13	0.11
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	13	0.11
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	16	0.11
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	16	0.11
(1,1757)	1:106:A:ARG:HB2	1:107:A:HIS:H	17	0.11
(1,1757)	1:106:A:ARG:HB3	1:107:A:HIS:H	17	0.11
(1,1752)	1:118:A:ASP:HA	1:118:A:ASP:H	8	0.11
(1,1752)	1:118:A:ASP:HA	1:118:A:ASP:H	13	0.11
(1,1752)	1:118:A:ASP:HA	1:118:A:ASP:H	20	0.11
(1,1746)	1:130:A:ILE:HA	1:130:A:ILE:H	8	0.11
(1,1746)	1:130:A:ILE:HA	1:130:A:ILE:H	11	0.11
(1,1737)	1:141:A:PHE:HA	1:144:A:MET:H	9	0.11
(1,1724)	1:74:A:ARG:HB2	1:75:A:LYS:H	2	0.11
(1,1724)	1:74:A:ARG:HB3	1:75:A:LYS:H	2	0.11
(1,1724)	1:74:A:ARG:HB2	1:75:A:LYS:H	13	0.11
(1,1724)	1:74:A:ARG:HB3	1:75:A:LYS:H	13	0.11
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	8	0.11
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	11	0.11
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	12	0.11
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	13	0.11
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	16	0.11
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	14	0.11
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	14	0.11
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE1	8	0.11
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE2	8	0.11
(1,1706)	1:99:A:TYR:HA	1:138:A:TYR:HD1	6	0.11
(1,1706)	1:99:A:TYR:HA	1:138:A:TYR:HD2	6	0.11
(1,1706)	1:99:A:TYR:HA	1:138:A:TYR:HD1	12	0.11
(1,1706)	1:99:A:TYR:HA	1:138:A:TYR:HD2	12	0.11
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	2	0.11
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	2	0.11
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	2	0.11
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	2	0.11
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	2	0.11
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE1	13	0.11
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE2	13	0.11
(1,1701)	1:75:A:LYS:HE2	1:71:A:MET:HE3	13	0.11
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE1	13	0.11
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE2	13	0.11
(1,1701)	1:75:A:LYS:HE3	1:71:A:MET:HE3	13	0.11
(1,1698)	1:106:A:ARG:HG2	1:106:A:ARG:H	2	0.11
(1,1698)	1:106:A:ARG:HG3	1:106:A:ARG:H	2	0.11
(1,1698)	1:106:A:ARG:HG2	1:106:A:ARG:H	6	0.11
(1,1698)	1:106:A:ARG:HG3	1:106:A:ARG:H	6	0.11
(1,1698)	1:106:A:ARG:HG2	1:106:A:ARG:H	10	0.11
(1,1698)	1:106:A:ARG:HG3	1:106:A:ARG:H	10	0.11
(1,1695)	1:106:A:ARG:HD2	1:106:A:ARG:H	11	0.11
(1,1695)	1:106:A:ARG:HD3	1:106:A:ARG:H	11	0.11
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	10	0.11
(1,1674)	1:7:A:GLU:HA	1:7:A:GLU:H	18	0.11
(1,1666)	1:17:A:SER:HA	1:20:A:ALA:H	3	0.11
(1,1666)	1:17:A:SER:HA	1:20:A:ALA:H	19	0.11
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	6	0.11
(1,1655)	1:32:A:LEU:HD11	1:68:A:PHE:HZ	5	0.11
(1,1655)	1:32:A:LEU:HD12	1:68:A:PHE:HZ	5	0.11
(1,1655)	1:32:A:LEU:HD13	1:68:A:PHE:HZ	5	0.11
(1,1651)	1:36:A:MET:HB2	1:37:A:ARG:H	3	0.11
(1,1651)	1:36:A:MET:HB3	1:37:A:ARG:H	3	0.11
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	2	0.11
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	2	0.11
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB2	8	0.11
(1,1646)	1:42:A:ASN:HA	1:36:A:MET:HB3	8	0.11
(1,1645)	1:42:A:ASN:HA	1:42:A:ASN:H	12	0.11
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	1	0.11
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	1	0.11
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	3	0.11
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	3	0.11
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	9	0.11
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	9	0.11
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	16	0.11
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	16	0.11
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	20	0.11
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	20	0.11
(1,1626)	1:120:A:GLU:HB2	1:117:A:THR:H	8	0.11
(1,1626)	1:120:A:GLU:HB3	1:117:A:THR:H	8	0.11
(1,1626)	1:120:A:GLU:HB2	1:117:A:THR:H	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1626)	1:120:A:GLU:HB3	1:117:A:THR:H	20	0.11
(1,1619)	1:127:A:GLU:HB2	1:128:A:ALA:H	2	0.11
(1,1619)	1:127:A:GLU:HB3	1:128:A:ALA:H	2	0.11
(1,1615)	1:137:A:ASN:HB2	1:139:A:GLU:H	9	0.11
(1,1615)	1:137:A:ASN:HB3	1:139:A:GLU:H	9	0.11
(1,1615)	1:137:A:ASN:HB2	1:139:A:GLU:H	16	0.11
(1,1615)	1:137:A:ASN:HB3	1:139:A:GLU:H	16	0.11
(1,1613)	1:142:A:VAL:HG21	1:142:A:VAL:H	1	0.11
(1,1613)	1:142:A:VAL:HG22	1:142:A:VAL:H	1	0.11
(1,1613)	1:142:A:VAL:HG23	1:142:A:VAL:H	1	0.11
(1,1613)	1:142:A:VAL:HG21	1:142:A:VAL:H	13	0.11
(1,1613)	1:142:A:VAL:HG22	1:142:A:VAL:H	13	0.11
(1,1613)	1:142:A:VAL:HG23	1:142:A:VAL:H	13	0.11
(1,1613)	1:142:A:VAL:HG21	1:142:A:VAL:H	19	0.11
(1,1613)	1:142:A:VAL:HG22	1:142:A:VAL:H	19	0.11
(1,1613)	1:142:A:VAL:HG23	1:142:A:VAL:H	19	0.11
(1,1613)	1:142:A:VAL:HG21	1:142:A:VAL:H	20	0.11
(1,1613)	1:142:A:VAL:HG22	1:142:A:VAL:H	20	0.11
(1,1613)	1:142:A:VAL:HG23	1:142:A:VAL:H	20	0.11
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD1	14	0.11
(1,1611)	1:142:A:VAL:HG21	1:89:A:PHE:HD2	14	0.11
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD1	14	0.11
(1,1611)	1:142:A:VAL:HG22	1:89:A:PHE:HD2	14	0.11
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD1	14	0.11
(1,1611)	1:142:A:VAL:HG23	1:89:A:PHE:HD2	14	0.11
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD1	3	0.11
(1,1609)	1:136:A:VAL:HA	1:99:A:TYR:HD2	3	0.11
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	5	0.11
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	5	0.11
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	10	0.11
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	10	0.11
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	12	0.11
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	12	0.11
(1,1595)	1:75:A:LYS:HA	1:75:A:LYS:H	6	0.11
(1,1595)	1:75:A:LYS:HA	1:75:A:LYS:H	7	0.11
(1,1595)	1:75:A:LYS:HA	1:75:A:LYS:H	11	0.11
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE1	18	0.11
(1,1587)	1:92:A:PHE:HB2	1:89:A:PHE:HE2	18	0.11
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE1	18	0.11
(1,1587)	1:92:A:PHE:HB3	1:89:A:PHE:HE2	18	0.11
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	1	0.11
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	1	0.11
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	3	0.11
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	3	0.11
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	3	0.11
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	11	0.11
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	11	0.11
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	11	0.11
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	15	0.11
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	15	0.11
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	15	0.11
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	16	0.11
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	16	0.11
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	16	0.11
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	19	0.11
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	19	0.11
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	19	0.11
(1,1556)	1:145:A:MET:HG2	1:145:A:MET:H	1	0.11
(1,1556)	1:145:A:MET:HG3	1:145:A:MET:H	1	0.11
(1,1556)	1:145:A:MET:HG2	1:145:A:MET:H	19	0.11
(1,1556)	1:145:A:MET:HG3	1:145:A:MET:H	19	0.11
(1,1551)	1:63:A:ILE:HB	1:63:A:ILE:HA	11	0.11
(1,1551)	1:63:A:ILE:HB	1:63:A:ILE:HA	12	0.11
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	13	0.11
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	16	0.11
(1,1543)	1:67:A:GLU:HA	1:70:A:THR:H	19	0.11
(1,1533)	1:8:A:GLN:HA	1:8:A:GLN:H	4	0.11
(1,1533)	1:8:A:GLN:HA	1:8:A:GLN:H	8	0.11
(1,1533)	1:8:A:GLN:HA	1:8:A:GLN:H	14	0.11
(1,1533)	1:8:A:GLN:HA	1:8:A:GLN:H	15	0.11
(1,1533)	1:8:A:GLN:HA	1:8:A:GLN:H	17	0.11
(1,1533)	1:8:A:GLN:HA	1:8:A:GLN:H	20	0.11
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	1	0.11
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	3	0.11
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	11	0.11
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	19	0.11
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	4	0.11
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	5	0.11
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	6	0.11
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	13	0.11
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	15	0.11
(1,1501)	1:37:A:ARG:HA	1:38:A:SER:H	4	0.11
(1,1501)	1:37:A:ARG:HA	1:38:A:SER:H	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1501)	1:37:A:ARG:HA	1:38:A:SER:H	10	0.11
(1,1501)	1:37:A:ARG:HA	1:38:A:SER:H	13	0.11
(1,1501)	1:37:A:ARG:HA	1:38:A:SER:H	18	0.11
(1,1496)	1:47:A:GLU:HA	1:47:A:GLU:H	4	0.11
(1,1496)	1:47:A:GLU:HA	1:47:A:GLU:H	15	0.11
(1,1496)	1:47:A:GLU:HA	1:47:A:GLU:H	17	0.11
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	1	0.11
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	8	0.11
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	9	0.11
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	15	0.11
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	16	0.11
(1,1487)	1:53:A:ASN:HA	1:53:A:ASN:H	18	0.11
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	8	0.11
(1,1480)	1:110:A:THR:HB	1:111:A:ASN:H	11	0.11
(1,1469)	1:108:A:VAL:HG11	1:92:A:PHE:HD1	5	0.11
(1,1469)	1:108:A:VAL:HG11	1:92:A:PHE:HD2	5	0.11
(1,1469)	1:108:A:VAL:HG12	1:92:A:PHE:HD1	5	0.11
(1,1469)	1:108:A:VAL:HG12	1:92:A:PHE:HD2	5	0.11
(1,1469)	1:108:A:VAL:HG13	1:92:A:PHE:HD1	5	0.11
(1,1469)	1:108:A:VAL:HG13	1:92:A:PHE:HD2	5	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	1	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	2	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	4	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	5	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	6	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	9	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	10	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	11	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	14	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	15	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	16	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	17	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	18	0.11
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	19	0.11
(1,1452)	1:131:A:ASP:HA	1:134:A:GLY:H	2	0.11
(1,1452)	1:131:A:ASP:HA	1:134:A:GLY:H	12	0.11
(1,1452)	1:131:A:ASP:HA	1:134:A:GLY:H	17	0.11
(1,1451)	1:131:A:ASP:HA	1:131:A:ASP:H	17	0.11
(1,1445)	1:144:A:MET:HA	1:147:A:ALA:H	20	0.11
(1,1442)	1:139:A:GLU:HB2	1:140:A:GLU:H	17	0.11
(1,1442)	1:139:A:GLU:HB3	1:140:A:GLU:H	17	0.11
(1,1438)	1:81:A:SER:HA	1:82:A:GLU:H	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1437)	1:81:A:SER:HA	1:81:A:SER:H	20	0.11
(1,1429)	1:82:A:GLU:HB2	1:83:A:GLU:H	2	0.11
(1,1429)	1:82:A:GLU:HB3	1:83:A:GLU:H	2	0.11
(1,1429)	1:82:A:GLU:HB2	1:83:A:GLU:H	7	0.11
(1,1429)	1:82:A:GLU:HB3	1:83:A:GLU:H	7	0.11
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	9	0.11
(1,1423)	1:95:A:ASP:HA	1:95:A:ASP:H	12	0.11
(1,1422)	1:97:A:ASN:HA	1:98:A:GLY:H	3	0.11
(1,1422)	1:97:A:ASN:HA	1:98:A:GLY:H	6	0.11
(1,1422)	1:97:A:ASN:HA	1:98:A:GLY:H	7	0.11
(1,1422)	1:97:A:ASN:HA	1:98:A:GLY:H	12	0.11
(1,1422)	1:97:A:ASN:HA	1:98:A:GLY:H	20	0.11
(1,1418)	1:101:A:SER:HA	1:101:A:SER:H	2	0.11
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	13	0.11
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	13	0.11
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	13	0.11
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	13	0.11
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	13	0.11
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	13	0.11
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	13	0.11
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	13	0.11
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	13	0.11
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD21	15	0.11
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD22	15	0.11
(1,1401)	1:109:A:MET:HE1	1:105:A:LEU:HD23	15	0.11
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD21	15	0.11
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD22	15	0.11
(1,1401)	1:109:A:MET:HE2	1:105:A:LEU:HD23	15	0.11
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD21	15	0.11
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD22	15	0.11
(1,1401)	1:109:A:MET:HE3	1:105:A:LEU:HD23	15	0.11
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD1	17	0.11
(1,1400)	1:109:A:MET:HE1	1:89:A:PHE:HD2	17	0.11
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD1	17	0.11
(1,1400)	1:109:A:MET:HE2	1:89:A:PHE:HD2	17	0.11
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD1	17	0.11
(1,1400)	1:109:A:MET:HE3	1:89:A:PHE:HD2	17	0.11
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB2	3	0.11
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB3	3	0.11
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB2	3	0.11
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB3	3	0.11
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB2	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB3	3	0.11
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB2	7	0.11
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB3	7	0.11
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB2	7	0.11
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB3	7	0.11
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB2	7	0.11
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB3	7	0.11
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB2	14	0.11
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB3	14	0.11
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB2	14	0.11
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB3	14	0.11
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB2	14	0.11
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB3	14	0.11
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB2	19	0.11
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB3	19	0.11
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB2	19	0.11
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB3	19	0.11
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB2	19	0.11
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB3	19	0.11
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB2	20	0.11
(1,1399)	1:109:A:MET:HE1	1:120:A:GLU:HB3	20	0.11
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB2	20	0.11
(1,1399)	1:109:A:MET:HE2	1:120:A:GLU:HB3	20	0.11
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB2	20	0.11
(1,1399)	1:109:A:MET:HE3	1:120:A:GLU:HB3	20	0.11
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	1	0.11
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	1	0.11
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	1	0.11
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	1	0.11
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	1	0.11
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	1	0.11
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	4	0.11
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	4	0.11
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	4	0.11
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	4	0.11
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	4	0.11
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	4	0.11
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	8	0.11
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	8	0.11
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	8	0.11
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	8	0.11
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	8	0.11
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	12	0.11
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	12	0.11
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	12	0.11
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	12	0.11
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	12	0.11
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	12	0.11
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	17	0.11
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	17	0.11
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	17	0.11
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	17	0.11
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	17	0.11
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	17	0.11
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG2	19	0.11
(1,1397)	1:109:A:MET:HE1	1:120:A:GLU:HG3	19	0.11
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG2	19	0.11
(1,1397)	1:109:A:MET:HE2	1:120:A:GLU:HG3	19	0.11
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG2	19	0.11
(1,1397)	1:109:A:MET:HE3	1:120:A:GLU:HG3	19	0.11
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	14	0.11
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	14	0.11
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	14	0.11
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	19	0.11
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	19	0.11
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	19	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	4	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	4	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	5	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	5	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	6	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	6	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	10	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	10	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	13	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	13	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	19	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	19	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	20	0.11
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	20	0.11
(1,1350)	1:31:A:GLU:HA	1:34:A:THR:HA	1	0.11
(1,1350)	1:31:A:GLU:HA	1:34:A:THR:HA	2	0.11
(1,1350)	1:31:A:GLU:HA	1:34:A:THR:HA	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1350)	1:31:A:GLU:HA	1:34:A:THR:HA	10	0.11
(1,1350)	1:31:A:GLU:HA	1:34:A:THR:HA	17	0.11
(1,1350)	1:31:A:GLU:HA	1:34:A:THR:HA	19	0.11
(1,1321)	1:48:A:LEU:HD21	1:48:A:LEU:H	9	0.11
(1,1321)	1:48:A:LEU:HD22	1:48:A:LEU:H	9	0.11
(1,1321)	1:48:A:LEU:HD23	1:48:A:LEU:H	9	0.11
(1,1317)	1:52:A:ILE:HD11	1:63:A:ILE:HG21	8	0.11
(1,1317)	1:52:A:ILE:HD11	1:63:A:ILE:HG22	8	0.11
(1,1317)	1:52:A:ILE:HD11	1:63:A:ILE:HG23	8	0.11
(1,1317)	1:52:A:ILE:HD12	1:63:A:ILE:HG21	8	0.11
(1,1317)	1:52:A:ILE:HD12	1:63:A:ILE:HG22	8	0.11
(1,1317)	1:52:A:ILE:HD12	1:63:A:ILE:HG23	8	0.11
(1,1317)	1:52:A:ILE:HD13	1:63:A:ILE:HG21	8	0.11
(1,1317)	1:52:A:ILE:HD13	1:63:A:ILE:HG22	8	0.11
(1,1317)	1:52:A:ILE:HD13	1:63:A:ILE:HG23	8	0.11
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	5	0.11
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	5	0.11
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	5	0.11
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE1	9	0.11
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE2	9	0.11
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE3	9	0.11
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE1	20	0.11
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE2	20	0.11
(1,1311)	1:51:A:MET:HA	1:51:A:MET:HE3	20	0.11
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	1	0.11
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	3	0.11
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	9	0.11
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	11	0.11
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	16	0.11
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	20	0.11
(1,1307)	1:116:A:LEU:HB2	1:117:A:THR:H	4	0.11
(1,1307)	1:116:A:LEU:HB3	1:117:A:THR:H	4	0.11
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG11	10	0.11
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG12	10	0.11
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG13	10	0.11
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG11	10	0.11
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG12	10	0.11
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG13	10	0.11
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG11	13	0.11
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG12	13	0.11
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG13	13	0.11
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG11	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG12	13	0.11
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG13	13	0.11
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG11	18	0.11
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG12	18	0.11
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG13	18	0.11
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG11	18	0.11
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG12	18	0.11
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG13	18	0.11
(1,1276)	1:136:A:VAL:HG21	1:141:A:PHE:HE1	10	0.11
(1,1276)	1:136:A:VAL:HG21	1:141:A:PHE:HE2	10	0.11
(1,1276)	1:136:A:VAL:HG22	1:141:A:PHE:HE1	10	0.11
(1,1276)	1:136:A:VAL:HG22	1:141:A:PHE:HE2	10	0.11
(1,1276)	1:136:A:VAL:HG23	1:141:A:PHE:HE1	10	0.11
(1,1276)	1:136:A:VAL:HG23	1:141:A:PHE:HE2	10	0.11
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	10	0.11
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	13	0.11
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	14	0.11
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG12	9	0.11
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG13	9	0.11
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG12	9	0.11
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG13	9	0.11
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG12	9	0.11
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG13	9	0.11
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG12	10	0.11
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG13	10	0.11
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG12	10	0.11
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG13	10	0.11
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG12	10	0.11
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG13	10	0.11
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG12	13	0.11
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG13	13	0.11
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG12	13	0.11
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG13	13	0.11
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG12	13	0.11
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG13	13	0.11
(1,1244)	1:82:A:GLU:HA	1:85:A:ILE:H	8	0.11
(1,1244)	1:82:A:GLU:HA	1:85:A:ILE:H	11	0.11
(1,1244)	1:82:A:GLU:HA	1:85:A:ILE:H	17	0.11
(1,1244)	1:82:A:GLU:HA	1:85:A:ILE:H	20	0.11
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	11	0.11
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	16	0.11
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1234)	1:87:A:GLU:HA	1:88:A:ALA:H	20	0.11
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	15	0.11
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	15	0.11
(1,1221)	1:115:A:LYS:HE2	1:115:A:LYS:H	3	0.11
(1,1221)	1:115:A:LYS:HE3	1:115:A:LYS:H	3	0.11
(1,1219)	1:124:A:MET:HG2	1:124:A:MET:H	1	0.11
(1,1219)	1:124:A:MET:HG3	1:124:A:MET:H	1	0.11
(1,1193)	1:18:A:LEU:HD11	1:19:A:PHE:H	4	0.11
(1,1193)	1:18:A:LEU:HD12	1:19:A:PHE:H	4	0.11
(1,1193)	1:18:A:LEU:HD13	1:19:A:PHE:H	4	0.11
(1,1193)	1:18:A:LEU:HD21	1:19:A:PHE:H	4	0.11
(1,1193)	1:18:A:LEU:HD22	1:19:A:PHE:H	4	0.11
(1,1193)	1:18:A:LEU:HD23	1:19:A:PHE:H	4	0.11
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	2	0.11
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	10	0.11
(1,1187)	1:28:A:THR:HA	1:62:A:THR:HB	14	0.11
(1,1139)	1:54:A:GLU:HA	1:55:A:VAL:H	1	0.11
(1,1139)	1:54:A:GLU:HA	1:55:A:VAL:H	11	0.11
(1,1139)	1:54:A:GLU:HA	1:55:A:VAL:H	15	0.11
(1,1139)	1:54:A:GLU:HA	1:55:A:VAL:H	18	0.11
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	13	0.11
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	13	0.11
(1,1121)	1:115:A:LYS:HA	1:116:A:LEU:H	10	0.11
(1,1121)	1:115:A:LYS:HA	1:116:A:LEU:H	14	0.11
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	6	0.11
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	6	0.11
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	6	0.11
(1,1111)	1:124:A:MET:HA	1:141:A:PHE:HZ	14	0.11
(1,1108)	1:124:A:MET:HA	1:125:A:ILE:H	4	0.11
(1,1108)	1:124:A:MET:HA	1:125:A:ILE:H	9	0.11
(1,1086)	1:143:A:GLN:HA	1:144:A:MET:H	9	0.11
(1,1072)	1:77:A:LYS:HA	1:80:A:ASP:H	9	0.11
(1,1068)	1:75:A:LYS:HB2	1:75:A:LYS:HE2	3	0.11
(1,1068)	1:75:A:LYS:HB2	1:75:A:LYS:HE3	3	0.11
(1,1068)	1:75:A:LYS:HB3	1:75:A:LYS:HE2	3	0.11
(1,1068)	1:75:A:LYS:HB3	1:75:A:LYS:HE3	3	0.11
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD1	7	0.11
(1,1057)	1:85:A:ILE:HG21	1:89:A:PHE:HD2	7	0.11
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD1	7	0.11
(1,1057)	1:85:A:ILE:HG22	1:89:A:PHE:HD2	7	0.11
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD1	7	0.11
(1,1057)	1:85:A:ILE:HG23	1:89:A:PHE:HD2	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	12	0.11
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	12	0.11
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	12	0.11
(1,1051)	1:85:A:ILE:HG21	1:82:A:GLU:HA	5	0.11
(1,1051)	1:85:A:ILE:HG22	1:82:A:GLU:HA	5	0.11
(1,1051)	1:85:A:ILE:HG23	1:82:A:GLU:HA	5	0.11
(1,1051)	1:85:A:ILE:HG21	1:82:A:GLU:HA	9	0.11
(1,1051)	1:85:A:ILE:HG22	1:82:A:GLU:HA	9	0.11
(1,1051)	1:85:A:ILE:HG23	1:82:A:GLU:HA	9	0.11
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	3	0.11
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	3	0.11
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	18	0.11
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	18	0.11
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	11	0.11
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	15	0.11
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	2	0.11
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	2	0.11
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	3	0.11
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	3	0.11
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	8	0.11
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	8	0.11
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	11	0.11
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	11	0.11
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	17	0.11
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	17	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG21	4	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG22	4	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG23	4	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG21	4	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG22	4	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG23	4	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG21	4	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG22	4	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG23	4	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG21	6	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG22	6	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG23	6	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG21	6	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG22	6	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG23	6	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG21	6	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG22	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG23	6	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG21	9	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG22	9	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG23	9	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG21	9	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG22	9	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG23	9	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG21	9	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG22	9	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG23	9	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG21	16	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG22	16	0.11
(1,979)	1:62:A:THR:HG21	1:28:A:THR:HG23	16	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG21	16	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG22	16	0.11
(1,979)	1:62:A:THR:HG22	1:28:A:THR:HG23	16	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG21	16	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG22	16	0.11
(1,979)	1:62:A:THR:HG23	1:28:A:THR:HG23	16	0.11
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	12	0.11
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	12	0.11
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	12	0.11
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	10	0.11
(1,970)	1:11:A:GLU:HA	1:14:A:GLU:H	12	0.11
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	6	0.11
(1,969)	1:11:A:GLU:HA	1:12:A:PHE:H	15	0.11
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	1	0.11
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	11	0.11
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	18	0.11
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	20	0.11
(1,928)	1:32:A:LEU:HG	1:29:A:THR:HB	12	0.11
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE1	7	0.11
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE2	7	0.11
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE3	7	0.11
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE1	19	0.11
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE2	19	0.11
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE3	19	0.11
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	2	0.11
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	2	0.11
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	3	0.11
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	3	0.11
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	6	0.11
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	8	0.11
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	8	0.11
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	10	0.11
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	10	0.11
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	12	0.11
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	12	0.11
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	13	0.11
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	13	0.11
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	14	0.11
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	14	0.11
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	15	0.11
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	15	0.11
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	16	0.11
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	16	0.11
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	17	0.11
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	17	0.11
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	18	0.11
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	18	0.11
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	9	0.11
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	9	0.11
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	10	0.11
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	10	0.11
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	14	0.11
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	14	0.11
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG2	15	0.11
(1,608)	1:114:A:GLU:HA	1:115:A:LYS:HG3	15	0.11
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD21	11	0.11
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD22	11	0.11
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD23	11	0.11
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD21	11	0.11
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD22	11	0.11
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD23	11	0.11
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD21	11	0.11
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD22	11	0.11
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD23	11	0.11
(1,568)	1:142:A:VAL:HA	1:145:A:MET:HA	2	0.11
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	6	0.11
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	6	0.11
(1,458)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	12	0.11
(1,458)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	12	0.11
(1,448)	1:63:A:ILE:HD11	1:71:A:MET:HE1	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,448)	1:63:A:ILE:HD11	1:71:A:MET:HE2	1	0.11
(1,448)	1:63:A:ILE:HD11	1:71:A:MET:HE3	1	0.11
(1,448)	1:63:A:ILE:HD12	1:71:A:MET:HE1	1	0.11
(1,448)	1:63:A:ILE:HD12	1:71:A:MET:HE2	1	0.11
(1,448)	1:63:A:ILE:HD12	1:71:A:MET:HE3	1	0.11
(1,448)	1:63:A:ILE:HD13	1:71:A:MET:HE1	1	0.11
(1,448)	1:63:A:ILE:HD13	1:71:A:MET:HE2	1	0.11
(1,448)	1:63:A:ILE:HD13	1:71:A:MET:HE3	1	0.11
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	7	0.11
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	7	0.11
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	8	0.11
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	8	0.11
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	10	0.11
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	10	0.11
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	17	0.11
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	17	0.11
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	18	0.11
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	18	0.11
(1,147)	1:145:A:MET:HE1	1:86:A:ARG:HG2	9	0.11
(1,147)	1:145:A:MET:HE1	1:86:A:ARG:HG3	9	0.11
(1,147)	1:145:A:MET:HE2	1:86:A:ARG:HG2	9	0.11
(1,147)	1:145:A:MET:HE2	1:86:A:ARG:HG3	9	0.11
(1,147)	1:145:A:MET:HE3	1:86:A:ARG:HG2	9	0.11
(1,147)	1:145:A:MET:HE3	1:86:A:ARG:HG3	9	0.11
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD1	19	0.1
(1,1759)	1:105:A:LEU:HD21	1:141:A:PHE:HD2	19	0.1
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD1	19	0.1
(1,1759)	1:105:A:LEU:HD22	1:141:A:PHE:HD2	19	0.1
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD1	19	0.1
(1,1759)	1:105:A:LEU:HD23	1:141:A:PHE:HD2	19	0.1
(1,1752)	1:118:A:ASP:HA	1:118:A:ASP:H	9	0.1
(1,1752)	1:118:A:ASP:HA	1:118:A:ASP:H	18	0.1
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	6	0.1
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	18	0.1
(1,1716)	1:85:A:ILE:HA	1:85:A:ILE:H	20	0.1
(1,1713)	1:97:A:ASN:HB2	1:98:A:GLY:H	16	0.1
(1,1713)	1:97:A:ASN:HB3	1:98:A:GLY:H	16	0.1
(1,1712)	1:97:A:ASN:HB2	1:99:A:TYR:HD1	14	0.1
(1,1712)	1:97:A:ASN:HB2	1:99:A:TYR:HD2	14	0.1
(1,1712)	1:97:A:ASN:HB3	1:99:A:TYR:HD1	14	0.1
(1,1712)	1:97:A:ASN:HB3	1:99:A:TYR:HD2	14	0.1
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE1	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE2	3	0.1
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE1	9	0.1
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE2	9	0.1
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE1	11	0.1
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE2	11	0.1
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE1	14	0.1
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE2	14	0.1
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE1	15	0.1
(1,1709)	1:99:A:TYR:HA	1:138:A:TYR:HE2	15	0.1
(1,1706)	1:99:A:TYR:HA	1:138:A:TYR:HD1	11	0.1
(1,1706)	1:99:A:TYR:HA	1:138:A:TYR:HD2	11	0.1
(1,1698)	1:106:A:ARG:HG2	1:106:A:ARG:H	3	0.1
(1,1698)	1:106:A:ARG:HG3	1:106:A:ARG:H	3	0.1
(1,1695)	1:106:A:ARG:HD2	1:106:A:ARG:H	12	0.1
(1,1695)	1:106:A:ARG:HD3	1:106:A:ARG:H	12	0.1
(1,1677)	1:9:A:ILE:HG21	1:65:A:PHE:HE1	12	0.1
(1,1677)	1:9:A:ILE:HG21	1:65:A:PHE:HE2	12	0.1
(1,1677)	1:9:A:ILE:HG22	1:65:A:PHE:HE1	12	0.1
(1,1677)	1:9:A:ILE:HG22	1:65:A:PHE:HE2	12	0.1
(1,1677)	1:9:A:ILE:HG23	1:65:A:PHE:HE1	12	0.1
(1,1677)	1:9:A:ILE:HG23	1:65:A:PHE:HE2	12	0.1
(1,1665)	1:17:A:SER:HA	1:17:A:SER:H	3	0.1
(1,1664)	1:22:A:ASP:HA	1:22:A:ASP:H	13	0.1
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	2	0.1
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	2	0.1
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	5	0.1
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	5	0.1
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	7	0.1
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	7	0.1
(1,1643)	1:48:A:LEU:HB2	1:49:A:GLN:H	17	0.1
(1,1643)	1:48:A:LEU:HB3	1:49:A:GLN:H	17	0.1
(1,1633)	1:114:A:GLU:HB2	1:115:A:LYS:H	3	0.1
(1,1633)	1:114:A:GLU:HB3	1:115:A:LYS:H	3	0.1
(1,1626)	1:120:A:GLU:HB2	1:117:A:THR:H	5	0.1
(1,1626)	1:120:A:GLU:HB3	1:117:A:THR:H	5	0.1
(1,1619)	1:127:A:GLU:HB2	1:128:A:ALA:H	1	0.1
(1,1619)	1:127:A:GLU:HB3	1:128:A:ALA:H	1	0.1
(1,1619)	1:127:A:GLU:HB2	1:128:A:ALA:H	10	0.1
(1,1619)	1:127:A:GLU:HB3	1:128:A:ALA:H	10	0.1
(1,1619)	1:127:A:GLU:HB2	1:128:A:ALA:H	17	0.1
(1,1619)	1:127:A:GLU:HB3	1:128:A:ALA:H	17	0.1
(1,1613)	1:142:A:VAL:HG21	1:142:A:VAL:H	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1613)	1:142:A:VAL:HG22	1:142:A:VAL:H	2	0.1
(1,1613)	1:142:A:VAL:HG23	1:142:A:VAL:H	2	0.1
(1,1613)	1:142:A:VAL:HG21	1:142:A:VAL:H	5	0.1
(1,1613)	1:142:A:VAL:HG22	1:142:A:VAL:H	5	0.1
(1,1613)	1:142:A:VAL:HG23	1:142:A:VAL:H	5	0.1
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD1	6	0.1
(1,1608)	1:136:A:VAL:HA	1:141:A:PHE:HD2	6	0.1
(1,1599)	1:76:A:MET:HA	1:79:A:THR:H	13	0.1
(1,1599)	1:76:A:MET:HA	1:79:A:THR:H	17	0.1
(1,1595)	1:75:A:LYS:HA	1:75:A:LYS:H	1	0.1
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	9	0.1
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	9	0.1
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	9	0.1
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	10	0.1
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	10	0.1
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	10	0.1
(1,1563)	1:91:A:VAL:HG21	1:91:A:VAL:HA	17	0.1
(1,1563)	1:91:A:VAL:HG22	1:91:A:VAL:HA	17	0.1
(1,1563)	1:91:A:VAL:HG23	1:91:A:VAL:HA	17	0.1
(1,1559)	1:94:A:LYS:HA	1:94:A:LYS:H	4	0.1
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	5	0.1
(1,1550)	1:63:A:ILE:HB	1:16:A:PHE:HZ	6	0.1
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD1	18	0.1
(1,1539)	1:9:A:ILE:HG12	1:12:A:PHE:HD2	18	0.1
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD1	18	0.1
(1,1539)	1:9:A:ILE:HG13	1:12:A:PHE:HD2	18	0.1
(1,1536)	1:11:A:GLU:HB2	1:12:A:PHE:H	18	0.1
(1,1536)	1:11:A:GLU:HB3	1:12:A:PHE:H	18	0.1
(1,1533)	1:8:A:GLN:HA	1:8:A:GLN:H	5	0.1
(1,1533)	1:8:A:GLN:HA	1:8:A:GLN:H	19	0.1
(1,1509)	1:27:A:ILE:HG12	1:63:A:ILE:HB	1	0.1
(1,1509)	1:27:A:ILE:HG13	1:63:A:ILE:HB	1	0.1
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	4	0.1
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	7	0.1
(1,1503)	1:37:A:ARG:HA	1:41:A:GLN:H	18	0.1
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	7	0.1
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	9	0.1
(1,1502)	1:37:A:ARG:HA	1:37:A:ARG:H	16	0.1
(1,1501)	1:37:A:ARG:HA	1:38:A:SER:H	5	0.1
(1,1501)	1:37:A:ARG:HA	1:38:A:SER:H	7	0.1
(1,1501)	1:37:A:ARG:HA	1:38:A:SER:H	12	0.1
(1,1501)	1:37:A:ARG:HA	1:38:A:SER:H	16	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1501)	1:37:A:ARG:HA	1:38:A:SER:H	20	0.1
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	3	0.1
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	7	0.1
(1,1466)	1:119:A:GLU:HA	1:119:A:GLU:H	12	0.1
(1,1452)	1:131:A:ASP:HA	1:134:A:GLY:H	19	0.1
(1,1442)	1:139:A:GLU:HB2	1:140:A:GLU:H	15	0.1
(1,1442)	1:139:A:GLU:HB3	1:140:A:GLU:H	15	0.1
(1,1438)	1:81:A:SER:HA	1:82:A:GLU:H	4	0.1
(1,1438)	1:81:A:SER:HA	1:82:A:GLU:H	8	0.1
(1,1438)	1:81:A:SER:HA	1:82:A:GLU:H	11	0.1
(1,1429)	1:82:A:GLU:HB2	1:83:A:GLU:H	11	0.1
(1,1429)	1:82:A:GLU:HB3	1:83:A:GLU:H	11	0.1
(1,1422)	1:97:A:ASN:HA	1:98:A:GLY:H	5	0.1
(1,1422)	1:97:A:ASN:HA	1:98:A:GLY:H	10	0.1
(1,1422)	1:97:A:ASN:HA	1:98:A:GLY:H	17	0.1
(1,1418)	1:101:A:SER:HA	1:101:A:SER:H	3	0.1
(1,1418)	1:101:A:SER:HA	1:101:A:SER:H	14	0.1
(1,1416)	1:101:A:SER:HA	1:136:A:VAL:H	11	0.1
(1,1396)	1:109:A:MET:HE1	1:109:A:MET:H	9	0.1
(1,1396)	1:109:A:MET:HE2	1:109:A:MET:H	9	0.1
(1,1396)	1:109:A:MET:HE3	1:109:A:MET:H	9	0.1
(1,1391)	1:56:A:ALA:HB1	1:53:A:ASN:HA	5	0.1
(1,1391)	1:56:A:ALA:HB2	1:53:A:ASN:HA	5	0.1
(1,1391)	1:56:A:ALA:HB3	1:53:A:ASN:HA	5	0.1
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	9	0.1
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	9	0.1
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	14	0.1
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	14	0.1
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD1	18	0.1
(1,1385)	1:65:A:PHE:HA	1:16:A:PHE:HD2	18	0.1
(1,1350)	1:31:A:GLU:HA	1:34:A:THR:HA	6	0.1
(1,1350)	1:31:A:GLU:HA	1:34:A:THR:HA	7	0.1
(1,1350)	1:31:A:GLU:HA	1:34:A:THR:HA	8	0.1
(1,1350)	1:31:A:GLU:HA	1:34:A:THR:HA	20	0.1
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE1	14	0.1
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE2	14	0.1
(1,1314)	1:51:A:MET:HA	1:71:A:MET:HE3	14	0.1
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	12	0.1
(1,1310)	1:51:A:MET:HA	1:52:A:ILE:H	19	0.1
(1,1306)	1:113:A:GLY:HA2	1:115:A:LYS:H	11	0.1
(1,1306)	1:113:A:GLY:HA3	1:115:A:LYS:H	11	0.1
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG11	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG12	2	0.1
(1,1300)	1:109:A:MET:HG2	1:108:A:VAL:HG13	2	0.1
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG11	2	0.1
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG12	2	0.1
(1,1300)	1:109:A:MET:HG3	1:108:A:VAL:HG13	2	0.1
(1,1266)	1:145:A:MET:HA	1:146:A:THR:H	9	0.1
(1,1260)	1:74:A:ARG:HA	1:75:A:LYS:H	2	0.1
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG12	5	0.1
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG13	5	0.1
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG12	5	0.1
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG13	5	0.1
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG12	5	0.1
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG13	5	0.1
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG12	7	0.1
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG13	7	0.1
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG12	7	0.1
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG13	7	0.1
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG12	7	0.1
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG13	7	0.1
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG12	16	0.1
(1,1253)	1:69:A:LEU:HD11	1:9:A:ILE:HG13	16	0.1
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG12	16	0.1
(1,1253)	1:69:A:LEU:HD12	1:9:A:ILE:HG13	16	0.1
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG12	16	0.1
(1,1253)	1:69:A:LEU:HD13	1:9:A:ILE:HG13	16	0.1
(1,1244)	1:82:A:GLU:HA	1:85:A:ILE:H	13	0.1
(1,1240)	1:82:A:GLU:HA	1:83:A:GLU:H	20	0.1
(1,1228)	1:101:A:SER:HB2	1:135:A:GLN:HA	2	0.1
(1,1228)	1:101:A:SER:HB3	1:135:A:GLN:HA	2	0.1
(1,1193)	1:18:A:LEU:HD11	1:19:A:PHE:H	8	0.1
(1,1193)	1:18:A:LEU:HD12	1:19:A:PHE:H	8	0.1
(1,1193)	1:18:A:LEU:HD13	1:19:A:PHE:H	8	0.1
(1,1193)	1:18:A:LEU:HD21	1:19:A:PHE:H	8	0.1
(1,1193)	1:18:A:LEU:HD22	1:19:A:PHE:H	8	0.1
(1,1193)	1:18:A:LEU:HD23	1:19:A:PHE:H	8	0.1
(1,1193)	1:18:A:LEU:HD11	1:19:A:PHE:H	9	0.1
(1,1193)	1:18:A:LEU:HD12	1:19:A:PHE:H	9	0.1
(1,1193)	1:18:A:LEU:HD13	1:19:A:PHE:H	9	0.1
(1,1193)	1:18:A:LEU:HD21	1:19:A:PHE:H	9	0.1
(1,1193)	1:18:A:LEU:HD22	1:19:A:PHE:H	9	0.1
(1,1193)	1:18:A:LEU:HD23	1:19:A:PHE:H	9	0.1
(1,1193)	1:18:A:LEU:HD11	1:19:A:PHE:H	18	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1193)	1:18:A:LEU:HD12	1:19:A:PHE:H	18	0.1
(1,1193)	1:18:A:LEU:HD13	1:19:A:PHE:H	18	0.1
(1,1193)	1:18:A:LEU:HD21	1:19:A:PHE:H	18	0.1
(1,1193)	1:18:A:LEU:HD22	1:19:A:PHE:H	18	0.1
(1,1193)	1:18:A:LEU:HD23	1:19:A:PHE:H	18	0.1
(1,1193)	1:18:A:LEU:HD11	1:19:A:PHE:H	19	0.1
(1,1193)	1:18:A:LEU:HD12	1:19:A:PHE:H	19	0.1
(1,1193)	1:18:A:LEU:HD13	1:19:A:PHE:H	19	0.1
(1,1193)	1:18:A:LEU:HD21	1:19:A:PHE:H	19	0.1
(1,1193)	1:18:A:LEU:HD22	1:19:A:PHE:H	19	0.1
(1,1193)	1:18:A:LEU:HD23	1:19:A:PHE:H	19	0.1
(1,1139)	1:54:A:GLU:HA	1:55:A:VAL:H	5	0.1
(1,1139)	1:54:A:GLU:HA	1:55:A:VAL:H	9	0.1
(1,1139)	1:54:A:GLU:HA	1:55:A:VAL:H	16	0.1
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB2	15	0.1
(1,1132)	1:106:A:ARG:HA	1:109:A:MET:HB3	15	0.1
(1,1123)	1:112:A:LEU:HD21	1:113:A:GLY:H	2	0.1
(1,1123)	1:112:A:LEU:HD22	1:113:A:GLY:H	2	0.1
(1,1123)	1:112:A:LEU:HD23	1:113:A:GLY:H	2	0.1
(1,1123)	1:112:A:LEU:HD21	1:113:A:GLY:H	19	0.1
(1,1123)	1:112:A:LEU:HD22	1:113:A:GLY:H	19	0.1
(1,1123)	1:112:A:LEU:HD23	1:113:A:GLY:H	19	0.1
(1,1121)	1:115:A:LYS:HA	1:116:A:LEU:H	3	0.1
(1,1112)	1:125:A:ILE:HD11	1:125:A:ILE:H	7	0.1
(1,1112)	1:125:A:ILE:HD12	1:125:A:ILE:H	7	0.1
(1,1112)	1:125:A:ILE:HD13	1:125:A:ILE:H	7	0.1
(1,1108)	1:124:A:MET:HA	1:125:A:ILE:H	6	0.1
(1,1108)	1:124:A:MET:HA	1:125:A:ILE:H	15	0.1
(1,1068)	1:75:A:LYS:HB2	1:75:A:LYS:HE2	5	0.1
(1,1068)	1:75:A:LYS:HB2	1:75:A:LYS:HE3	5	0.1
(1,1068)	1:75:A:LYS:HB3	1:75:A:LYS:HE2	5	0.1
(1,1068)	1:75:A:LYS:HB3	1:75:A:LYS:HE3	5	0.1
(1,1053)	1:85:A:ILE:HG21	1:112:A:LEU:HA	7	0.1
(1,1053)	1:85:A:ILE:HG22	1:112:A:LEU:HA	7	0.1
(1,1053)	1:85:A:ILE:HG23	1:112:A:LEU:HA	7	0.1
(1,1039)	1:52:A:ILE:HG12	1:52:A:ILE:H	19	0.1
(1,1039)	1:52:A:ILE:HG13	1:52:A:ILE:H	19	0.1
(1,1037)	1:75:A:LYS:HD2	1:75:A:LYS:HA	13	0.1
(1,1037)	1:75:A:LYS:HD3	1:75:A:LYS:HA	13	0.1
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB2	3	0.1
(1,1019)	1:124:A:MET:HE1	1:120:A:GLU:HB3	3	0.1
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB2	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1019)	1:124:A:MET:HE2	1:120:A:GLU:HB3	3	0.1
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB2	3	0.1
(1,1019)	1:124:A:MET:HE3	1:120:A:GLU:HB3	3	0.1
(1,995)	1:55:A:VAL:HA	1:56:A:ALA:H	7	0.1
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	1	0.1
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	1	0.1
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	7	0.1
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	7	0.1
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	13	0.1
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	13	0.1
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE1	20	0.1
(1,982)	1:69:A:LEU:HA	1:12:A:PHE:HE2	20	0.1
(1,978)	1:62:A:THR:HG21	1:62:A:THR:H	8	0.1
(1,978)	1:62:A:THR:HG22	1:62:A:THR:H	8	0.1
(1,978)	1:62:A:THR:HG23	1:62:A:THR:H	8	0.1
(1,978)	1:62:A:THR:HG21	1:62:A:THR:H	17	0.1
(1,978)	1:62:A:THR:HG22	1:62:A:THR:H	17	0.1
(1,978)	1:62:A:THR:HG23	1:62:A:THR:H	17	0.1
(1,975)	1:62:A:THR:HG21	1:28:A:THR:HB	11	0.1
(1,975)	1:62:A:THR:HG22	1:28:A:THR:HB	11	0.1
(1,975)	1:62:A:THR:HG23	1:28:A:THR:HB	11	0.1
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	3	0.1
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	6	0.1
(1,962)	1:10:A:ALA:HA	1:13:A:LYS:H	13	0.1
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE1	20	0.1
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE2	20	0.1
(1,867)	1:120:A:GLU:HA	1:109:A:MET:HE3	20	0.1
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	1	0.1
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	1	0.1
(1,796)	1:89:A:PHE:HB2	1:89:A:PHE:HZ	7	0.1
(1,796)	1:89:A:PHE:HB3	1:89:A:PHE:HZ	7	0.1
(1,652)	1:104:A:GLU:HB2	1:92:A:PHE:HE1	12	0.1
(1,652)	1:104:A:GLU:HB2	1:92:A:PHE:HE2	12	0.1
(1,652)	1:104:A:GLU:HB3	1:92:A:PHE:HE1	12	0.1
(1,652)	1:104:A:GLU:HB3	1:92:A:PHE:HE2	12	0.1
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD21	19	0.1
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD22	19	0.1
(1,584)	1:130:A:ILE:HD11	1:105:A:LEU:HD23	19	0.1
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD21	19	0.1
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD22	19	0.1
(1,584)	1:130:A:ILE:HD12	1:105:A:LEU:HD23	19	0.1
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD21	19	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD22	19	0.1
(1,584)	1:130:A:ILE:HD13	1:105:A:LEU:HD23	19	0.1
(1,582)	1:130:A:ILE:HD11	1:135:A:GLN:HB2	13	0.1
(1,582)	1:130:A:ILE:HD11	1:135:A:GLN:HB3	13	0.1
(1,582)	1:130:A:ILE:HD12	1:135:A:GLN:HB2	13	0.1
(1,582)	1:130:A:ILE:HD12	1:135:A:GLN:HB3	13	0.1
(1,582)	1:130:A:ILE:HD13	1:135:A:GLN:HB2	13	0.1
(1,582)	1:130:A:ILE:HD13	1:135:A:GLN:HB3	13	0.1
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB2	20	0.1
(1,398)	1:15:A:ALA:HA	1:17:A:SER:HB3	20	0.1
(1,209)	1:105:A:LEU:HD11	1:138:A:TYR:HA	12	0.1
(1,209)	1:105:A:LEU:HD12	1:138:A:TYR:HA	12	0.1
(1,209)	1:105:A:LEU:HD13	1:138:A:TYR:HA	12	0.1
(1,206)	1:94:A:LYS:HB2	1:91:A:VAL:HA	9	0.1
(1,206)	1:94:A:LYS:HB3	1:91:A:VAL:HA	9	0.1
(1,83)	1:99:A:TYR:HB2	1:135:A:GLN:HA	1	0.1
(1,83)	1:99:A:TYR:HB3	1:135:A:GLN:HA	1	0.1
(1,83)	1:99:A:TYR:HB2	1:135:A:GLN:HA	15	0.1
(1,83)	1:99:A:TYR:HB3	1:135:A:GLN:HA	15	0.1
(1,83)	1:99:A:TYR:HB2	1:135:A:GLN:HA	18	0.1
(1,83)	1:99:A:TYR:HB3	1:135:A:GLN:HA	18	0.1

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

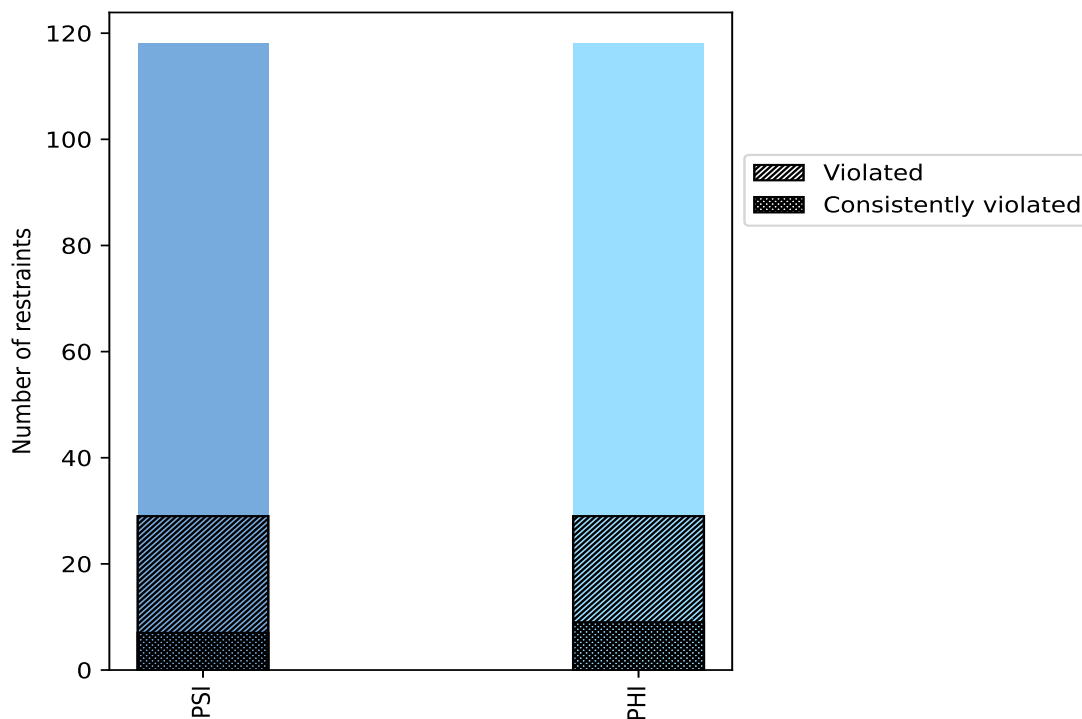
### 10.1 Summary of dihedral-angle violations [i](#)

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	118	50.0	29	24.6	12.3	7	5.9	3.0
PHI	118	50.0	29	24.6	12.3	9	7.6	3.8
Total	236	100.0	58	24.6	24.6	16	6.8	6.8

<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](#)



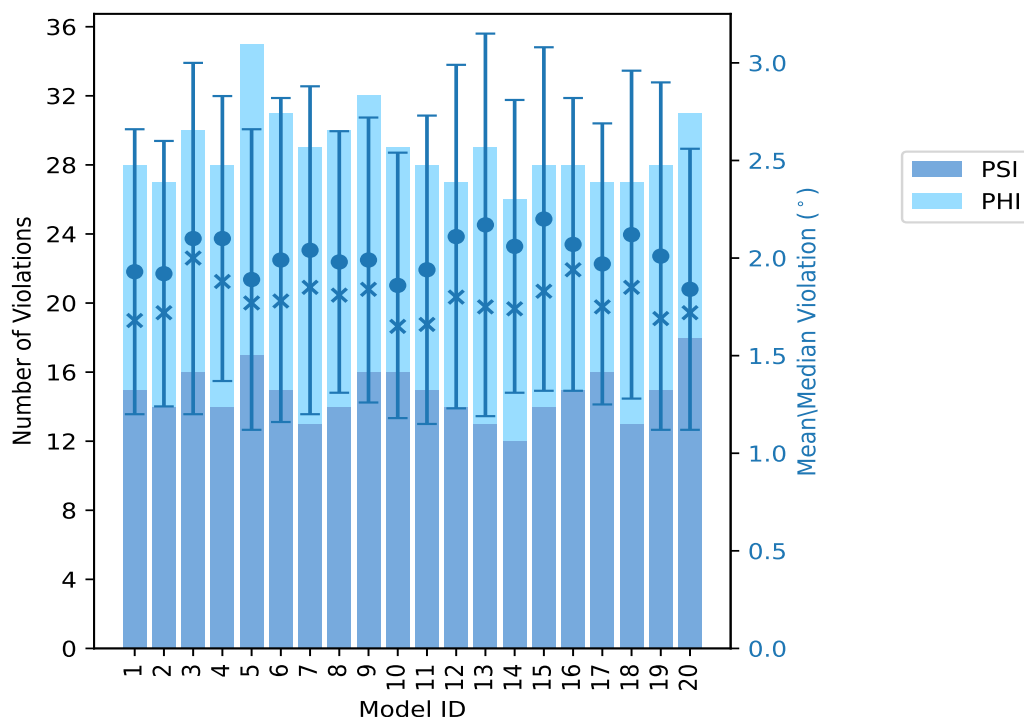
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

## 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	15	13	28	1.93	3.76	0.73	1.68
2	14	13	27	1.92	3.69	0.68	1.72
3	16	14	30	2.1	4.28	0.9	2.0
4	14	14	28	2.1	3.73	0.73	1.88
5	17	18	35	1.89	4.37	0.77	1.77
6	15	16	31	1.99	4.47	0.83	1.78
7	13	16	29	2.04	4.08	0.84	1.85
8	14	16	30	1.98	3.73	0.67	1.81
9	16	16	32	1.99	3.58	0.73	1.84
10	16	13	29	1.86	3.66	0.68	1.65
11	15	13	28	1.94	3.59	0.79	1.66
12	14	13	27	2.11	4.77	0.88	1.8
13	13	16	29	2.17	4.65	0.98	1.75
14	12	14	26	2.06	3.68	0.75	1.74
15	14	14	28	2.2	4.68	0.88	1.83
16	15	13	28	2.07	4.33	0.75	1.94
17	16	11	27	1.97	4.04	0.72	1.75
18	13	14	27	2.12	4.0	0.84	1.85
19	15	13	28	2.01	4.13	0.89	1.69
20	18	13	31	1.84	3.67	0.72	1.72

### 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>	%
5	6	11	1	5.0
2	0	2	2	10.0
3	4	7	3	15.0
2	1	3	4	20.0
2	1	3	5	25.0
0	1	1	6	30.0
0	1	1	7	35.0
0	1	1	8	40.0
1	2	3	9	45.0
0	1	1	10	50.0
1	0	1	11	55.0

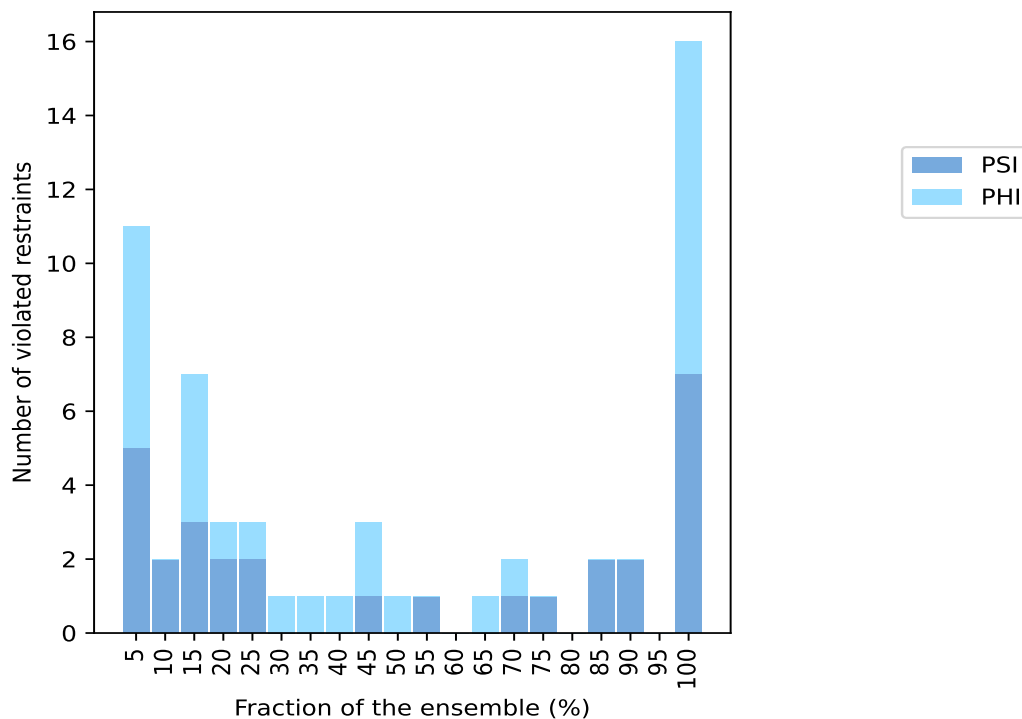
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Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count <sup>1</sup>	%
0	0	0	12	60.0
0	1	1	13	65.0
1	1	2	14	70.0
1	0	1	15	75.0
0	0	0	16	80.0
2	0	2	17	85.0
2	0	2	18	90.0
0	0	0	19	95.0
7	9	16	20	100.0

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

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

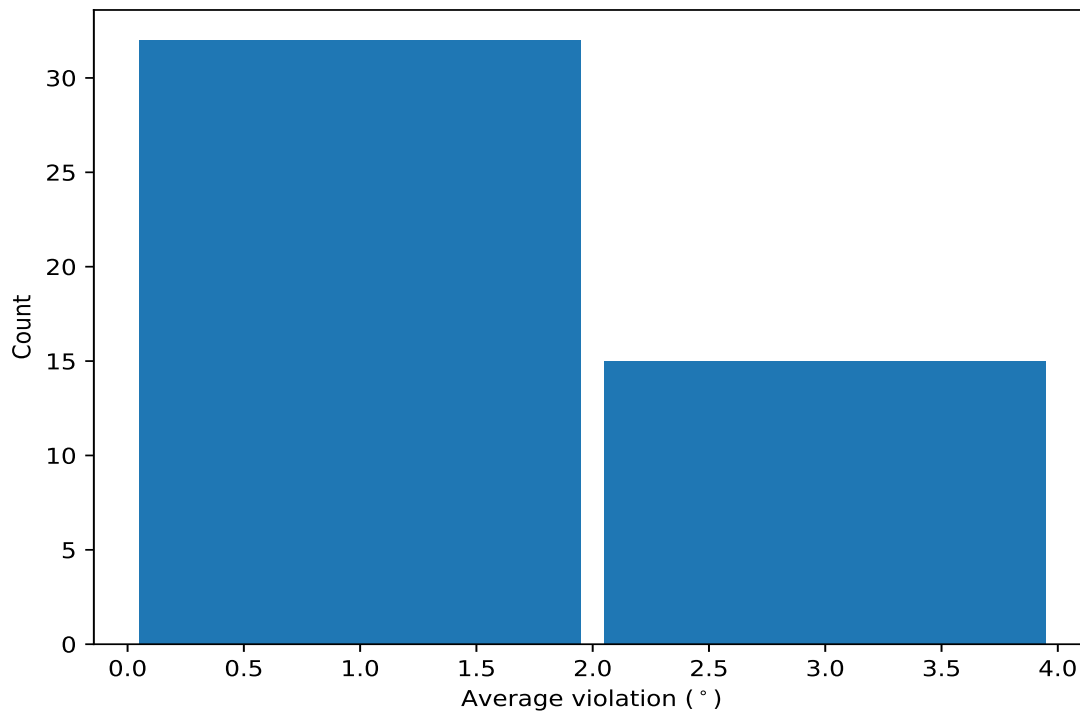


## 10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

### 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
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	20	3.9	0.3	3.74
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	20	3.36	0.79	3.34
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	20	3.22	0.16	3.2
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	20	3.02	0.36	2.93
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	20	2.55	0.41	2.56
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	20	2.49	0.27	2.56
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	20	2.45	0.38	2.46
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	20	2.29	0.44	2.33
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	20	2.19	0.16	2.17
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	20	1.93	0.17	2.0
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	20	1.82	0.27	1.72
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	20	1.79	0.08	1.76
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	20	1.71	0.1	1.72
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	20	1.68	0.1	1.66
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	20	1.48	0.33	1.4
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	20	1.43	0.21	1.4
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	18	1.54	0.28	1.67
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	18	1.43	0.16	1.39
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	17	2.33	0.19	2.31
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	17	1.47	0.23	1.46

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Median
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	15	1.52	0.13	1.56
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	14	1.8	0.71	1.5
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	14	1.17	0.13	1.16
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	13	1.57	0.29	1.67
(1,160)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	11	2.47	1.0	2.59
(1,159)	1:97:A:ASN:C	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	10	1.76	0.49	1.73
(1,161)	1:98:A:GLY:C	1:99:A:TYR:N	1:99:A:TYR:CA	1:99:A:TYR:C	9	2.65	1.09	3.12
(1,231)	1:143:A:GLN:C	1:144:A:MET:N	1:144:A:MET:CA	1:144:A:MET:C	9	1.52	0.24	1.49
(1,100)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	9	1.25	0.15	1.23
(1,177)	1:107:A:HIS:C	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	8	1.1	0.06	1.11
(1,221)	1:138:A:TYR:C	1:139:A:GLU:N	1:139:A:GLU:CA	1:139:A:GLU:C	7	1.82	0.25	1.77
(1,225)	1:140:A:GLU:C	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	6	1.49	0.47	1.27
(1,187)	1:115:A:LYS:C	1:116:A:LEU:N	1:116:A:LEU:CA	1:116:A:LEU:C	5	1.44	0.29	1.49
(1,164)	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	1:102:A:ALA:N	5	1.43	0.27	1.37
(1,216)	1:134:A:GLY:N	1:134:A:GLY:CA	1:134:A:GLY:C	1:135:A:GLN:N	5	1.23	0.08	1.2
(1,148)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	1:90:A:ARG:N	4	1.19	0.08	1.19
(1,136)	1:83:A:GLU:N	1:83:A:GLU:CA	1:83:A:GLU:C	1:84:A:GLU:N	4	1.16	0.12	1.16
(1,137)	1:83:A:GLU:C	1:84:A:GLU:N	1:84:A:GLU:CA	1:84:A:GLU:C	4	1.09	0.07	1.08
(1,203)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	3	2.74	0.47	2.88
(1,215)	1:133:A:ASP:C	1:134:A:GLY:N	1:134:A:GLY:CA	1:134:A:GLY:C	3	2.33	0.36	2.34
(1,226)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	3	1.63	0.39	1.8
(1,233)	1:144:A:MET:C	1:145:A:MET:N	1:145:A:MET:CA	1:145:A:MET:C	3	1.15	0.13	1.12
(1,117)	1:70:A:THR:C	1:71:A:MET:N	1:71:A:MET:CA	1:71:A:MET:C	3	1.12	0.04	1.13
(1,108)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	3	1.11	0.07	1.15
(1,90)	1:52:A:ILE:N	1:52:A:ILE:CA	1:52:A:ILE:C	1:53:A:ASN:N	3	1.07	0.05	1.04
(1,140)	1:85:A:ILE:N	1:85:A:ILE:CA	1:85:A:ILE:C	1:86:A:ARG:N	2	2.85	1.8	2.85
(1,230)	1:143:A:GLN:N	1:143:A:GLN:CA	1:143:A:GLN:C	1:144:A:MET:N	2	1.19	0.05	1.19

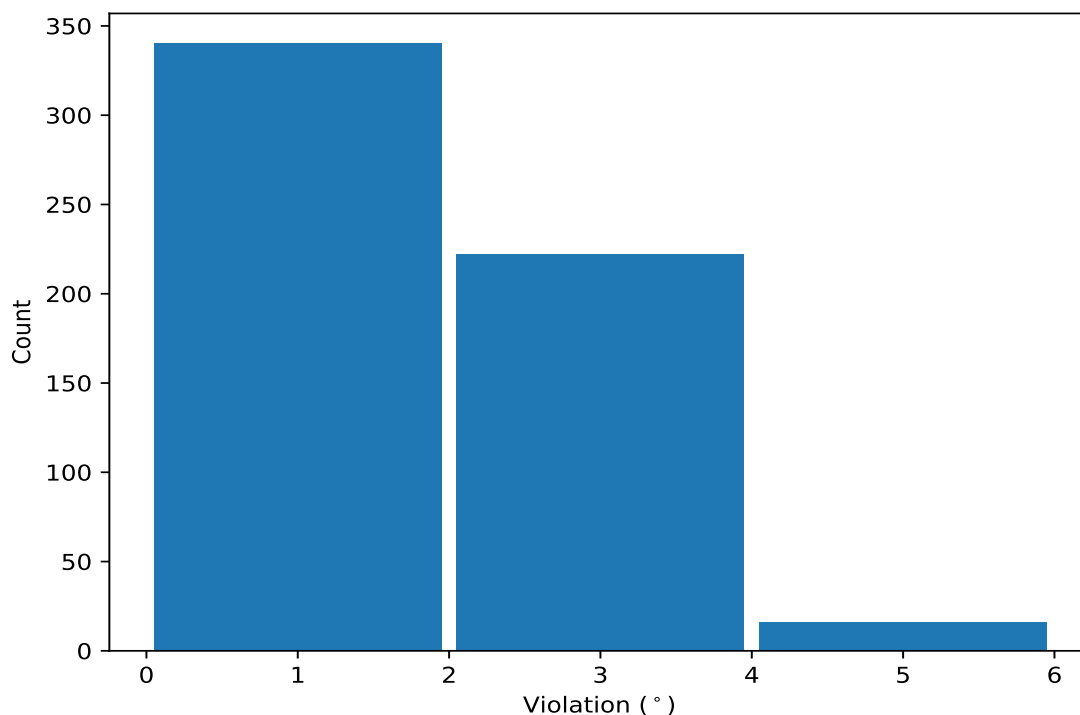
<sup>1</sup> Number of violated models, <sup>2</sup>Standard deviation, All angle values are in degree (°)

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

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

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





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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	12	4.77
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	15	4.68
(1,140)	1:85:A:ILE:N	1:85:A:ILE:CA	1:85:A:ILE:C	1:86:A:ARG:N	13	4.65
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	6	4.47
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	6	4.4
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	13	4.38
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	5	4.37
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	13	4.33
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	16	4.33
(1,161)	1:98:A:GLY:C	1:99:A:TYR:N	1:99:A:TYR:CA	1:99:A:TYR:C	3	4.28
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	3	4.13
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	19	4.13
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	7	4.08
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	17	4.04
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	15	4.01
(1,160)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	18	4.0
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	19	3.82
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	1	3.76
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	8	3.73
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	12	3.73
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	4	3.73

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,160)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	3	3.72
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	2	3.69
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	14	3.68
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	20	3.67
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	10	3.66
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	8	3.64
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	20	3.61
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	12	3.61
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	18	3.6
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	11	3.59
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	4	3.58
(1,37)	1:24:A:ASP:C	1:25:A:GLY:N	1:25:A:GLY:CA	1:25:A:GLY:C	9	3.58
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	19	3.57
(1,161)	1:98:A:GLY:C	1:99:A:TYR:N	1:99:A:TYR:CA	1:99:A:TYR:C	18	3.54
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	7	3.52
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	5	3.5
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	19	3.47
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	5	3.45
(1,161)	1:98:A:GLY:C	1:99:A:TYR:N	1:99:A:TYR:CA	1:99:A:TYR:C	7	3.44
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	14	3.43
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	11	3.42
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	13	3.42
(1,160)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	15	3.41
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	15	3.41
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	7	3.4
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	11	3.36
(1,161)	1:98:A:GLY:C	1:99:A:TYR:N	1:99:A:TYR:CA	1:99:A:TYR:C	4	3.35
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	3	3.34
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	6	3.34
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	11	3.31
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	1	3.3
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	16	3.3
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	4	3.29
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	18	3.26
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	18	3.26
(1,203)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	9	3.23
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	11	3.23
(1,160)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	16	3.22
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	15	3.21
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	17	3.19
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	2	3.19
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	10	3.19
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	17	3.16
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	13	3.14
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	12	3.13
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	15	3.13
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	10	3.13
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	14	3.13
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	14	3.13
(1,161)	1:98:A:GLY:C	1:99:A:TYR:N	1:99:A:TYR:CA	1:99:A:TYR:C	9	3.12
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	3	3.12

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	20	3.11
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	4	3.1
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	18	3.09
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	9	3.07
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	12	3.05
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	20	3.01
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	16	2.98
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	7	2.96
(1,42)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	8	2.96
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	1	2.93
(1,159)	1:97:A:ASN:C	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	13	2.91
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	2	2.89
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	9	2.89
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	14	2.89
(1,203)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	7	2.88
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	9	2.88
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	17	2.88
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	8	2.87
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	14	2.86
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	1	2.86
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	2	2.85
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	5	2.84
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	5	2.84
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	19	2.83
(1,160)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	8	2.83
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	13	2.82
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	4	2.8
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	1	2.8
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	7	2.8
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	2	2.78
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	16	2.77
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	19	2.77
(1,215)	1:133:A:ASP:C	1:134:A:GLY:N	1:134:A:GLY:CA	1:134:A:GLY:C	11	2.76
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	13	2.75
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	10	2.75
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	18	2.75
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	15	2.73
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	19	2.72
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	17	2.71
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	3	2.69
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	17	2.68
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	2	2.67
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	1	2.66
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	14	2.65
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	3	2.64
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	6	2.62
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	9	2.62
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	7	2.61
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	12	2.61
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	18	2.61
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	9	2.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,160)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	11	2.59
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	20	2.58
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	5	2.57
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	10	2.57
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	9	2.55
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	16	2.55
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	9	2.54
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	4	2.53
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	3	2.52
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1	2.52
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	20	2.51
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	3	2.51
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	8	2.5
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	14	2.49
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	15	2.49
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	19	2.47
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	6	2.46
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	10	2.46
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	2	2.46
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	1	2.46
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	9	2.45
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	3	2.45
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	5	2.45
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	1	2.44
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	10	2.44
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	8	2.44
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	6	2.43
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	16	2.41
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	6	2.41
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	16	2.4
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	19	2.4
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	11	2.4
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	16	2.39
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	4	2.37
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	12	2.37
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	18	2.35
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	16	2.35
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	4	2.35
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	16	2.35
(1,215)	1:133:A:ASP:C	1:134:A:GLY:N	1:134:A:GLY:CA	1:134:A:GLY:C	15	2.34
(1,161)	1:98:A:GLY:C	1:99:A:TYR:N	1:99:A:TYR:CA	1:99:A:TYR:C	14	2.34
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	3	2.33
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	5	2.33
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	6	2.32
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	7	2.32
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	14	2.31
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	13	2.3
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	3	2.3
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	15	2.3
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	7	2.29
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	8	2.28

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	4	2.28
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	17	2.27
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	15	2.27
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	7	2.26
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	12	2.26
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	8	2.26
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	12	2.25
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	9	2.25
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	9	2.25
(1,225)	1:140:A:GLU:C	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	12	2.24
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	18	2.24
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	5	2.24
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	13	2.23
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	17	2.21
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	10	2.21
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	16	2.21
(1,110)	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1:68:A:PHE:N	6	2.21
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	6	2.21
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	12	2.21
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	1	2.19
(1,221)	1:138:A:TYR:C	1:139:A:GLU:N	1:139:A:GLU:CA	1:139:A:GLU:C	16	2.17
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	15	2.17
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	17	2.16
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	5	2.16
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	19	2.14
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	3	2.13
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	20	2.13
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	20	2.13
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	9	2.13
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	14	2.13
(1,221)	1:138:A:TYR:C	1:139:A:GLU:N	1:139:A:GLU:CA	1:139:A:GLU:C	9	2.12
(1,133)	1:81:A:SER:C	1:82:A:GLU:N	1:82:A:GLU:CA	1:82:A:GLU:C	3	2.12
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	3	2.12
(1,203)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	5	2.11
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	10	2.1
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	8	2.1
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	13	2.1
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	10	2.08
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	15	2.07
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	8	2.07
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	19	2.07
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	17	2.07
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	16	2.06
(1,159)	1:97:A:ASN:C	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	8	2.05
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	12	2.05
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	2	2.04
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	2	2.04
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	14	2.04
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	17	2.04
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	6	2.03
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	18	2.03

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	2	2.03
(1,225)	1:140:A:GLU:C	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	6	2.02
(1,214)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	5	2.02
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	20	2.02
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	7	2.02
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	5	2.02
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	13	2.01
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	1	2.01
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	7	2.01
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	8	2.01
(1,160)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	20	2.0
(1,159)	1:97:A:ASN:C	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	4	2.0
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	20	2.0
(1,226)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	6	1.99
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	5	1.99
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	4	1.98
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	19	1.98
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	13	1.97
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	18	1.95
(1,183)	1:110:A:THR:C	1:111:A:ASN:N	1:111:A:ASN:CA	1:111:A:ASN:C	6	1.93
(1,221)	1:138:A:TYR:C	1:139:A:GLU:N	1:139:A:GLU:CA	1:139:A:GLU:C	4	1.92
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	11	1.91
(1,56)	1:34:A:THR:N	1:34:A:THR:CA	1:34:A:THR:C	1:35:A:VAL:N	7	1.9
(1,187)	1:115:A:LYS:C	1:116:A:LEU:N	1:116:A:LEU:CA	1:116:A:LEU:C	11	1.89
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	10	1.89
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	9	1.89
(1,231)	1:143:A:GLN:C	1:144:A:MET:N	1:144:A:MET:CA	1:144:A:MET:C	12	1.88
(1,215)	1:133:A:ASP:C	1:134:A:GLY:N	1:134:A:GLY:CA	1:134:A:GLY:C	8	1.88
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	20	1.88
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	4	1.88
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	5	1.88
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	4	1.88
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	18	1.88
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	4	1.87
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	3	1.87
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	11	1.85
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	18	1.85
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	7	1.85
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	1	1.84
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	2	1.84
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	15	1.83
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	19	1.83
(1,159)	1:97:A:ASN:C	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	5	1.82
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	17	1.82
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	2	1.82
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	15	1.82
(1,197)	1:120:A:GLU:C	1:121:A:VAL:N	1:121:A:VAL:CA	1:121:A:VAL:C	8	1.81
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	4	1.81
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	16	1.81
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	8	1.81
(1,226)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	12	1.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,164)	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	1:102:A:ALA:N	9	1.8
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	20	1.8
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	10	1.8
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	8	1.8
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	15	1.8
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	12	1.8
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	7	1.8
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	6	1.79
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	6	1.78
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	12	1.78
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	14	1.78
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	3	1.78
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	16	1.78
(1,231)	1:143:A:GLN:C	1:144:A:MET:N	1:144:A:MET:CA	1:144:A:MET:C	5	1.77
(1,221)	1:138:A:TYR:C	1:139:A:GLU:N	1:139:A:GLU:CA	1:139:A:GLU:C	18	1.77
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	20	1.77
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	4	1.77
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	15	1.77
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	5	1.77
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	18	1.77
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	18	1.76
(1,159)	1:97:A:ASN:C	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	11	1.76
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	13	1.76
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	1	1.76
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	2	1.76
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	17	1.76
(1,213)	1:132:A:GLY:C	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	11	1.75
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	13	1.75
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	17	1.75
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	13	1.74
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	20	1.73
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	12	1.73
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	12	1.73
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	6	1.73
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	2	1.72
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	16	1.72
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	19	1.72
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	10	1.72
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	18	1.72
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	4	1.72
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	10	1.72
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	20	1.72
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	11	1.71
(1,154)	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	1:93:A:ALA:N	2	1.71
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	6	1.71
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	9	1.71
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	17	1.71
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	14	1.71
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	14	1.71
(1,159)	1:97:A:ASN:C	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	15	1.7
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	7	1.7

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	7	1.7
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	15	1.7
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	17	1.7
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	3	1.7
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	12	1.7
(1,23)	1:14:A:GLU:C	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	13	1.7
(1,231)	1:143:A:GLN:C	1:144:A:MET:N	1:144:A:MET:CA	1:144:A:MET:C	6	1.69
(1,221)	1:138:A:TYR:C	1:139:A:GLU:N	1:139:A:GLU:CA	1:139:A:GLU:C	14	1.69
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	4	1.69
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	2	1.69
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	6	1.69
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	1	1.69
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	8	1.68
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	14	1.68
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	15	1.68
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	17	1.68
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	1	1.68
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	15	1.67
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	16	1.67
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	19	1.67
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	6	1.67
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	6	1.67
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	6	1.67
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	9	1.67
(1,221)	1:138:A:TYR:C	1:139:A:GLU:N	1:139:A:GLU:CA	1:139:A:GLU:C	3	1.66
(1,164)	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	1:102:A:ALA:N	4	1.66
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	10	1.65
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	6	1.65
(1,159)	1:97:A:ASN:C	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1	1.64
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	19	1.64
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	16	1.63
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	1	1.62
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	20	1.62
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	17	1.62
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	2	1.62
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	17	1.62
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	5	1.61
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	18	1.61
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	18	1.61
(1,178)	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1:109:A:MET:N	11	1.6
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	13	1.6
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	8	1.6
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	19	1.6
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	2	1.6
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	13	1.6
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	10	1.59
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	11	1.59
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	11	1.59
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	13	1.59
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	20	1.59
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	16	1.58

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,160)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	10	1.58
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	7	1.58
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	5	1.58
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	8	1.58
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	19	1.57
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	1	1.56
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	14	1.56
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	8	1.56
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	14	1.56
(1,231)	1:143:A:GLN:C	1:144:A:MET:N	1:144:A:MET:CA	1:144:A:MET:C	13	1.55
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	4	1.55
(1,187)	1:115:A:LYS:C	1:116:A:LEU:N	1:116:A:LEU:CA	1:116:A:LEU:C	8	1.55
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	14	1.55
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	2	1.55
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	3	1.54
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	10	1.53
(1,49)	1:30:A:LYS:C	1:31:A:GLU:N	1:31:A:GLU:CA	1:31:A:GLU:C	11	1.53
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	2	1.52
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	4	1.52
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	13	1.52
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	8	1.51
(1,95)	1:54:A:GLU:C	1:55:A:VAL:N	1:55:A:VAL:CA	1:55:A:VAL:C	3	1.51
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	12	1.51
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	5	1.5
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	15	1.5
(1,231)	1:143:A:GLN:C	1:144:A:MET:N	1:144:A:MET:CA	1:144:A:MET:C	10	1.49
(1,187)	1:115:A:LYS:C	1:116:A:LEU:N	1:116:A:LEU:CA	1:116:A:LEU:C	20	1.49
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	4	1.49
(1,231)	1:143:A:GLN:C	1:144:A:MET:N	1:144:A:MET:CA	1:144:A:MET:C	8	1.48
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	3	1.48
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	1	1.48
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	5	1.47
(1,85)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	7	1.47
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	10	1.47
(1,231)	1:143:A:GLN:C	1:144:A:MET:N	1:144:A:MET:CA	1:144:A:MET:C	15	1.46
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	16	1.46
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	9	1.46
(1,100)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	11	1.46
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	5	1.46
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	16	1.46
(1,28)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	1	1.46
(1,100)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	13	1.45
(1,160)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	19	1.44
(1,143)	1:86:A:ARG:C	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	13	1.44
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	11	1.43
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	7	1.43
(1,221)	1:138:A:TYR:C	1:139:A:GLU:N	1:139:A:GLU:CA	1:139:A:GLU:C	2	1.42
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	17	1.42
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	20	1.42
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	9	1.42
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	17	1.42

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	4	1.41
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	8	1.41
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	11	1.41
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	13	1.41
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	20	1.41
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	18	1.4
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	12	1.4
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	10	1.4
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	20	1.4
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	9	1.39
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	16	1.39
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	9	1.38
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	15	1.38
(1,225)	1:140:A:GLU:C	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	5	1.37
(1,164)	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	1:102:A:ALA:N	15	1.37
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	10	1.37
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	17	1.37
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	5	1.37
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	12	1.36
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	15	1.36
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	20	1.36
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	19	1.35
(1,100)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	17	1.35
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	2	1.35
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	7	1.34
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	13	1.34
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	18	1.33
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	8	1.33
(1,233)	1:144:A:MET:C	1:145:A:MET:N	1:145:A:MET:CA	1:145:A:MET:C	18	1.32
(1,216)	1:134:A:GLY:N	1:134:A:GLY:CA	1:134:A:GLY:C	1:135:A:GLN:N	10	1.32
(1,159)	1:97:A:ASN:C	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	19	1.32
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	9	1.32
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	5	1.32
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	14	1.32
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	8	1.32
(1,216)	1:134:A:GLY:N	1:134:A:GLY:CA	1:134:A:GLY:C	1:135:A:GLN:N	16	1.31
(1,161)	1:98:A:GLY:C	1:99:A:TYR:N	1:99:A:TYR:CA	1:99:A:TYR:C	5	1.3
(1,100)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	8	1.3
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	11	1.3
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	5	1.3
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	9	1.3
(1,231)	1:143:A:GLN:C	1:144:A:MET:N	1:144:A:MET:CA	1:144:A:MET:C	17	1.29
(1,148)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	1:90:A:ARG:N	17	1.29
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	10	1.29
(1,136)	1:83:A:GLU:N	1:83:A:GLU:CA	1:83:A:GLU:C	1:84:A:GLU:N	4	1.28
(1,136)	1:83:A:GLU:N	1:83:A:GLU:CA	1:83:A:GLU:C	1:84:A:GLU:N	20	1.28
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	6	1.28
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	18	1.28
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	6	1.28
(1,161)	1:98:A:GLY:C	1:99:A:TYR:N	1:99:A:TYR:CA	1:99:A:TYR:C	15	1.27
(1,159)	1:97:A:ASN:C	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	9	1.27

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,113)	1:68:A:PHE:C	1:69:A:LEU:N	1:69:A:LEU:CA	1:69:A:LEU:C	12	1.27
(1,190)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	12	1.26
(1,187)	1:115:A:LYS:C	1:116:A:LEU:N	1:116:A:LEU:CA	1:116:A:LEU:C	13	1.26
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	14	1.26
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	9	1.26
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	19	1.26
(1,160)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	1	1.25
(1,230)	1:143:A:GLN:N	1:143:A:GLN:CA	1:143:A:GLN:C	1:144:A:MET:N	9	1.24
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	14	1.24
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	11	1.23
(1,100)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	1	1.23
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	14	1.23
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	11	1.23
(1,148)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	1:90:A:ARG:N	5	1.22
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	19	1.22
(1,54)	1:33:A:GLY:N	1:33:A:GLY:CA	1:33:A:GLY:C	1:34:A:THR:N	16	1.22
(1,164)	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	1:102:A:ALA:N	11	1.21
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	1	1.21
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	9	1.21
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	10	1.21
(1,216)	1:134:A:GLY:N	1:134:A:GLY:CA	1:134:A:GLY:C	1:135:A:GLN:N	2	1.2
(1,161)	1:98:A:GLY:C	1:99:A:TYR:N	1:99:A:TYR:CA	1:99:A:TYR:C	12	1.2
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	2	1.2
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	7	1.2
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	3	1.19
(1,157)	1:94:A:LYS:C	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	16	1.18
(1,137)	1:83:A:GLU:C	1:84:A:GLU:N	1:84:A:GLU:CA	1:84:A:GLU:C	1	1.18
(1,100)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	7	1.18
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	3	1.18
(1,216)	1:134:A:GLY:N	1:134:A:GLY:CA	1:134:A:GLY:C	1:135:A:GLN:N	7	1.17
(1,177)	1:107:A:HIS:C	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	5	1.17
(1,177)	1:107:A:HIS:C	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	9	1.17
(1,148)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	1:90:A:ARG:N	1	1.17
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	16	1.17
(1,225)	1:140:A:GLU:C	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	10	1.16
(1,117)	1:70:A:THR:C	1:71:A:MET:N	1:71:A:MET:CA	1:71:A:MET:C	16	1.16
(1,108)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	20	1.16
(1,100)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	3	1.16
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	20	1.16
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	1	1.16
(1,230)	1:143:A:GLN:N	1:143:A:GLN:CA	1:143:A:GLN:C	1:144:A:MET:N	20	1.15
(1,108)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	5	1.15
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	11	1.15
(1,177)	1:107:A:HIS:C	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	1	1.14
(1,177)	1:107:A:HIS:C	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	2	1.14
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	12	1.14
(1,137)	1:83:A:GLU:C	1:84:A:GLU:N	1:84:A:GLU:CA	1:84:A:GLU:C	19	1.14
(1,132)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	3	1.14
(1,131)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	5	1.14
(1,90)	1:52:A:ILE:N	1:52:A:ILE:CA	1:52:A:ILE:C	1:53:A:ASN:N	11	1.14
(1,216)	1:134:A:GLY:N	1:134:A:GLY:CA	1:134:A:GLY:C	1:135:A:GLN:N	19	1.13

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,117)	1:70:A:THR:C	1:71:A:MET:N	1:71:A:MET:CA	1:71:A:MET:C	10	1.13
(1,233)	1:144:A:MET:C	1:145:A:MET:N	1:145:A:MET:CA	1:145:A:MET:C	3	1.12
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	3	1.12
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	15	1.12
(1,59)	1:35:A:VAL:C	1:36:A:MET:N	1:36:A:MET:CA	1:36:A:MET:C	18	1.12
(1,160)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	5	1.1
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	18	1.1
(1,128)	1:76:A:MET:N	1:76:A:MET:CA	1:76:A:MET:C	1:77:A:LYS:N	20	1.1
(1,226)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	10	1.09
(1,164)	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	1:102:A:ALA:N	3	1.09
(1,159)	1:97:A:ASN:C	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	7	1.09
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	4	1.09
(1,225)	1:140:A:GLU:C	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	13	1.08
(1,177)	1:107:A:HIS:C	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	7	1.08
(1,148)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	1:90:A:ARG:N	6	1.08
(1,118)	1:71:A:MET:N	1:71:A:MET:CA	1:71:A:MET:C	1:72:A:MET:N	6	1.08
(1,177)	1:107:A:HIS:C	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	18	1.07
(1,117)	1:70:A:THR:C	1:71:A:MET:N	1:71:A:MET:CA	1:71:A:MET:C	20	1.07
(1,225)	1:140:A:GLU:C	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	2	1.06
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	8	1.06
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	17	1.06
(1,140)	1:85:A:ILE:N	1:85:A:ILE:CA	1:85:A:ILE:C	1:86:A:ARG:N	9	1.05
(1,136)	1:83:A:GLU:N	1:83:A:GLU:CA	1:83:A:GLU:C	1:84:A:GLU:N	8	1.05
(1,100)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	6	1.05
(1,100)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	20	1.05
(1,231)	1:143:A:GLN:C	1:144:A:MET:N	1:144:A:MET:CA	1:144:A:MET:C	14	1.04
(1,177)	1:107:A:HIS:C	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	6	1.04
(1,136)	1:83:A:GLU:N	1:83:A:GLU:CA	1:83:A:GLU:C	1:84:A:GLU:N	5	1.04
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	14	1.04
(1,90)	1:52:A:ILE:N	1:52:A:ILE:CA	1:52:A:ILE:C	1:53:A:ASN:N	12	1.04
(1,187)	1:115:A:LYS:C	1:116:A:LEU:N	1:116:A:LEU:CA	1:116:A:LEU:C	6	1.03
(1,137)	1:83:A:GLU:C	1:84:A:GLU:N	1:84:A:GLU:CA	1:84:A:GLU:C	7	1.03
(1,109)	1:66:A:PRO:C	1:67:A:GLU:N	1:67:A:GLU:CA	1:67:A:GLU:C	1	1.03
(1,90)	1:52:A:ILE:N	1:52:A:ILE:CA	1:52:A:ILE:C	1:53:A:ASN:N	2	1.03
(1,158)	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	1:96:A:GLY:N	5	1.02
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	10	1.02
(1,5)	1:5:A:THR:C	1:6:A:GLU:N	1:6:A:GLU:CA	1:6:A:GLU:C	19	1.02
(1,155)	1:92:A:PHE:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	11	1.01
(1,137)	1:83:A:GLU:C	1:84:A:GLU:N	1:84:A:GLU:CA	1:84:A:GLU:C	13	1.01
(1,108)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	17	1.01
(1,102)	1:62:A:THR:N	1:62:A:THR:CA	1:62:A:THR:C	1:63:A:ILE:N	19	1.01
(1,92)	1:53:A:ASN:N	1:53:A:ASN:CA	1:53:A:ASN:C	1:54:A:GLU:N	19	1.01
(1,68)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:ASN:N	3	1.01
(1,233)	1:144:A:MET:C	1:145:A:MET:N	1:145:A:MET:CA	1:145:A:MET:C	7	1.0
(1,232)	1:144:A:MET:N	1:144:A:MET:CA	1:144:A:MET:C	1:145:A:MET:N	20	1.0
(1,200)	1:122:A:ASP:N	1:122:A:ASP:CA	1:122:A:ASP:C	1:123:A:GLU:N	9	1.0
(1,177)	1:107:A:HIS:C	1:108:A:VAL:N	1:108:A:VAL:CA	1:108:A:VAL:C	4	1.0