



Full wwPDB NMR Structure Validation Report ⓘ

Dec 25, 2024 – 01:33 AM EST

PDB ID : 2N8J
BMRB ID : 25852
Title : Structure and 15N relaxation data of Calmodulin bound to the endothelial Nitric Oxide Synthase Calmodulin Binding Domain Peptide at Physiological Calcium Concentration
Authors : Piazza, M.; Guillemette, G.; Dieckmann, T.
Deposited on : 2015-10-16

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

We welcome your comments at 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>.

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

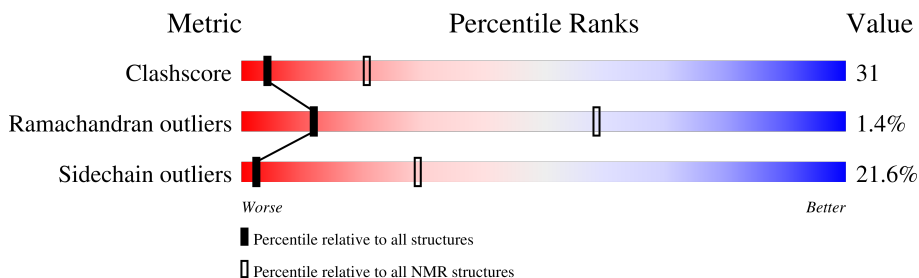
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 73%.

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 ≥ 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	B	22	

2 Ensemble composition and analysis i

This entry contains 20 models. Model 4 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *minimized average structure*.

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:3-A:82 (80)	1.31	4
2	A:87-A:147, B:154-B:161 (69)	0.54	20

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

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

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

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

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2615 atoms, of which 1283 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	2263	714	1097	188	255	9	0

- Molecule 2 is a protein called Nitric oxide synthase, endothelial.

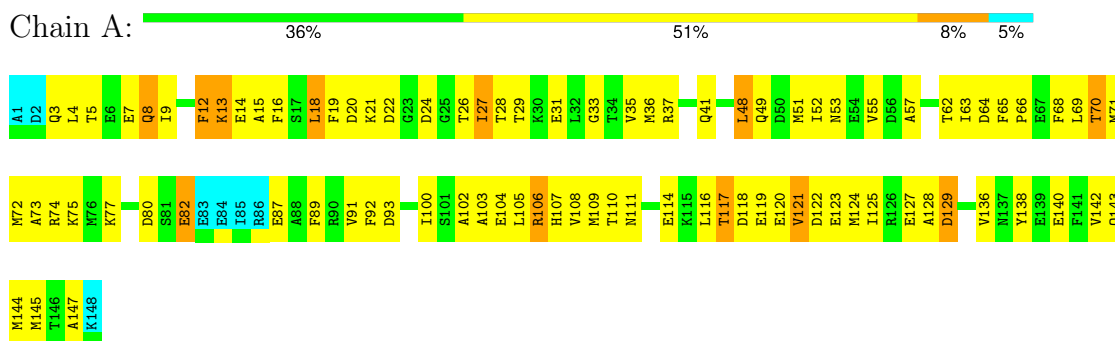
Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
2	B	22	352	104	186	30	31	1	0

4 Residue-property plots

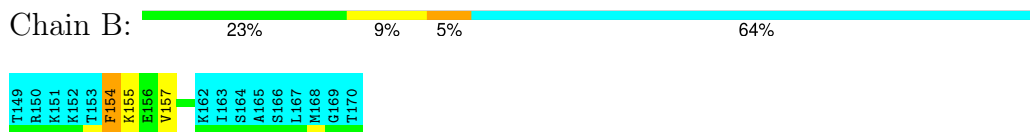
4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Calmodulin



- Molecule 2: Nitric oxide synthase, endothelial

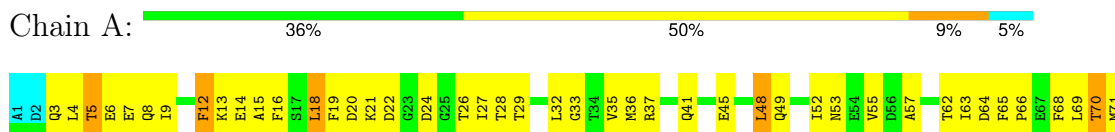


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

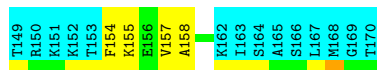
4.2.1 Score per residue for model 1

- Molecule 1: Calmodulin





- Molecule 2: Nitric oxide synthase, endothelial



4.2.2 Score per residue for model 2

- Molecule 1: Calmodulin

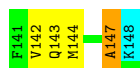
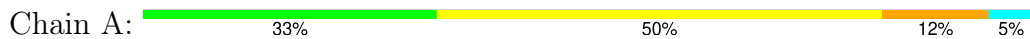


- Molecule 2: Nitric oxide synthase, endothelial



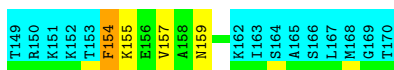
4.2.3 Score per residue for model 3

- Molecule 1: Calmodulin



- Molecule 2: Nitric oxide synthase, endothelial

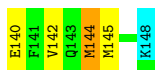




4.2.4 Score per residue for model 4 (medoid)

- Molecule 1: Calmodulin

Chain A: 38% 49% 8% 5%



- Molecule 2: Nitric oxide synthase, endothelial

Chain B: 18% 14% 5% 64%



4.2.5 Score per residue for model 5

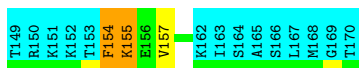
- Molecule 1: Calmodulin

Chain A: 34% 51% 9% 5%



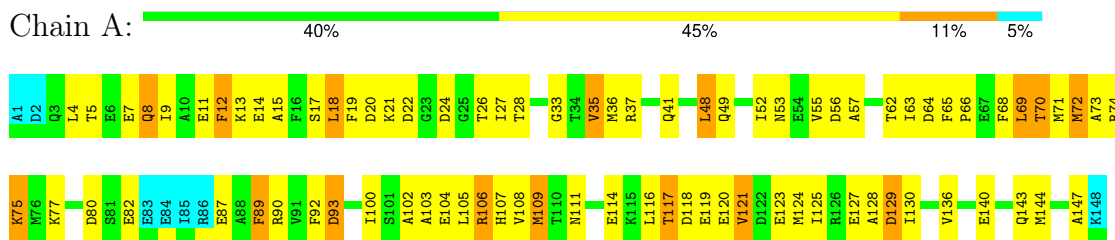
- Molecule 2: Nitric oxide synthase, endothelial

Chain B: 23% 5% 9% 64%

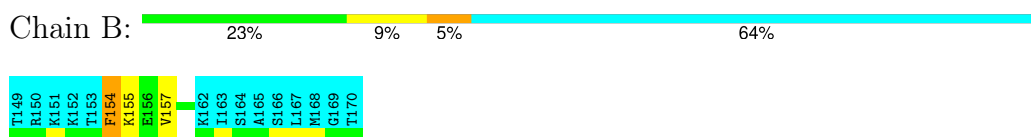


4.2.6 Score per residue for model 6

- Molecule 1: Calmodulin

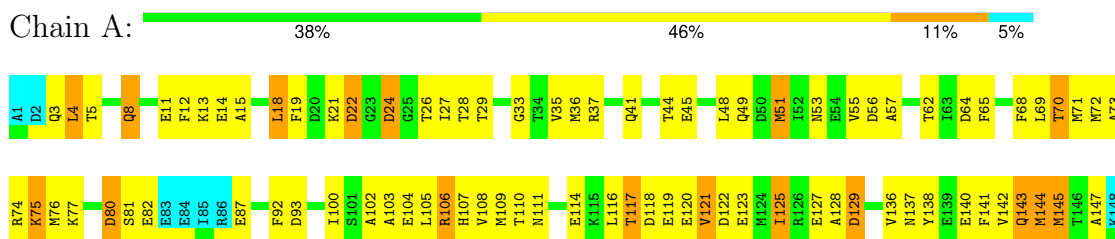


- Molecule 2: Nitric oxide synthase, endothelial

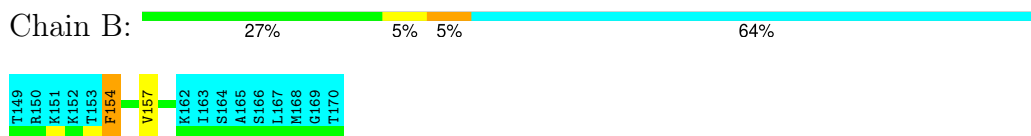


4.2.7 Score per residue for model 7

- Molecule 1: Calmodulin

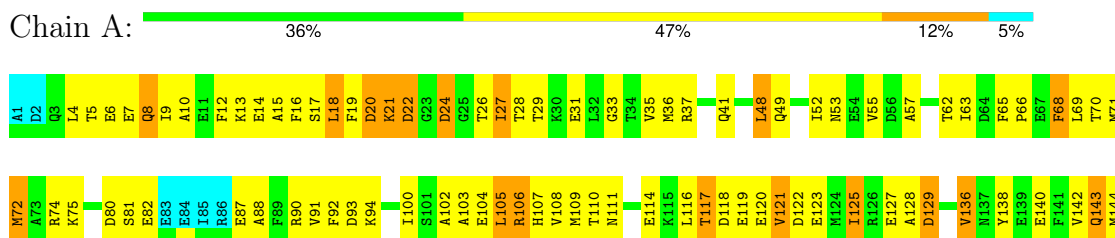


- Molecule 2: Nitric oxide synthase, endothelial



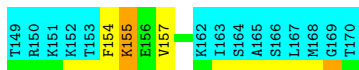
4.2.8 Score per residue for model 8

- Molecule 1: Calmodulin





- Molecule 2: Nitric oxide synthase, endothelial



4.2.9 Score per residue for model 9

- Molecule 1: Calmodulin

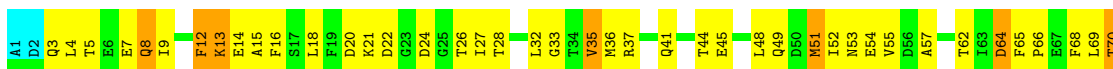
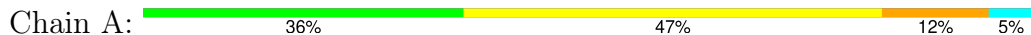


- Molecule 2: Nitric oxide synthase, endothelial



4.2.10 Score per residue for model 10

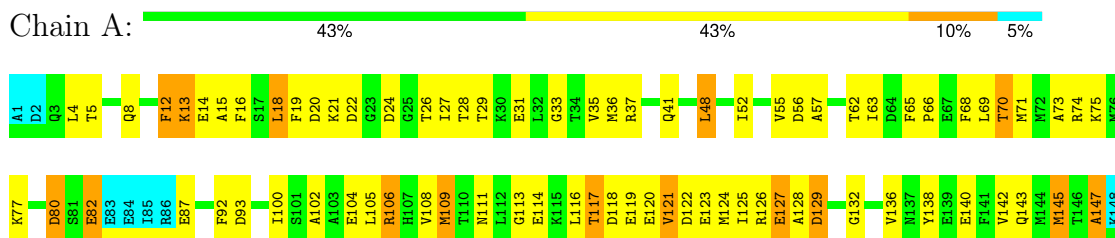
- Molecule 1: Calmodulin



- Molecule 2: Nitric oxide synthase, endothelial

4.2.13 Score per residue for model 13

- Molecule 1: Calmodulin

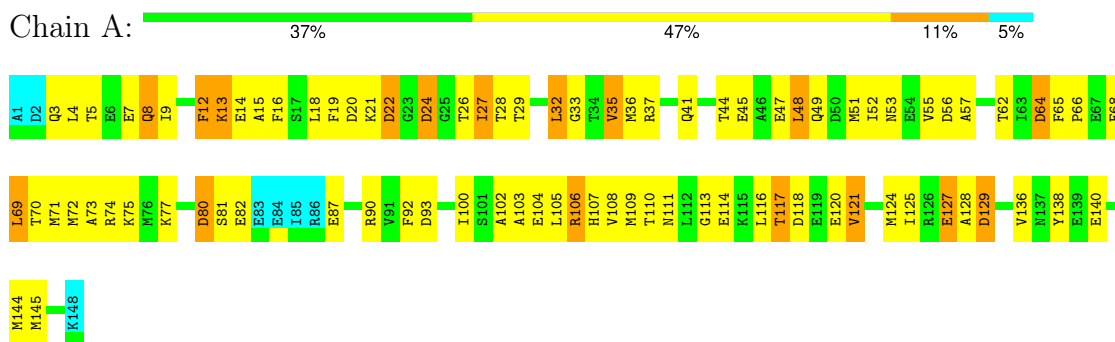


- Molecule 2: Nitric oxide synthase, endothelial

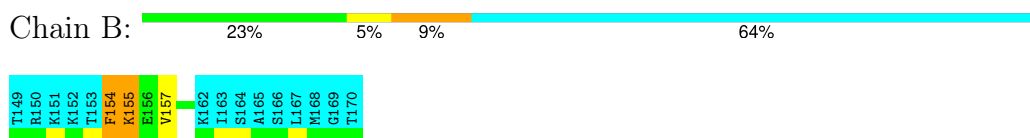


4.2.14 Score per residue for model 14

- Molecule 1: Calmodulin

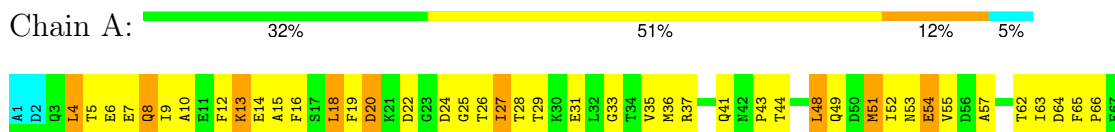


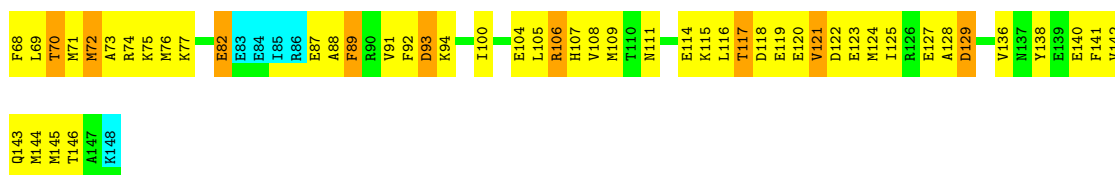
- Molecule 2: Nitric oxide synthase, endothelial



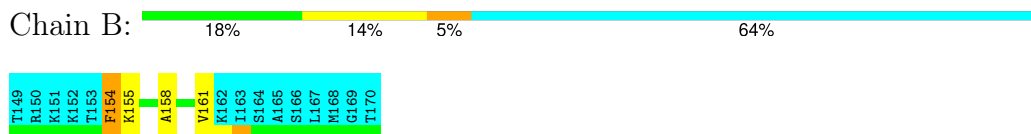
4.2.15 Score per residue for model 15

- Molecule 1: Calmodulin



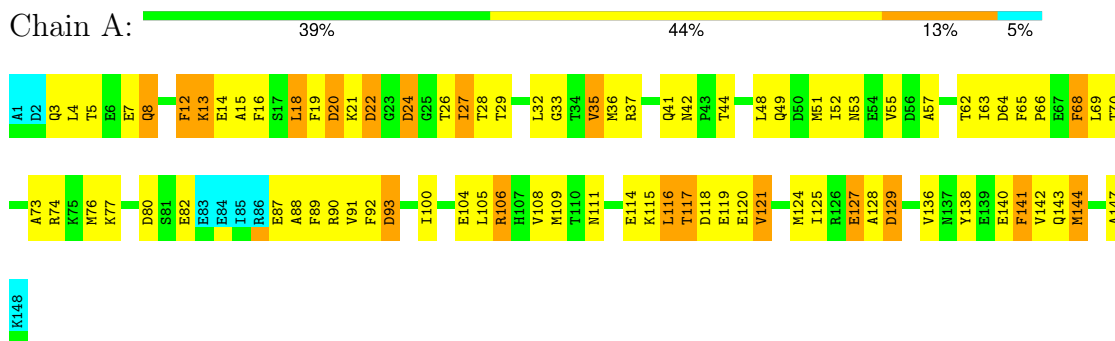


- Molecule 2: Nitric oxide synthase, endothelial



4.2.16 Score per residue for model 16

- Molecule 1: Calmodulin

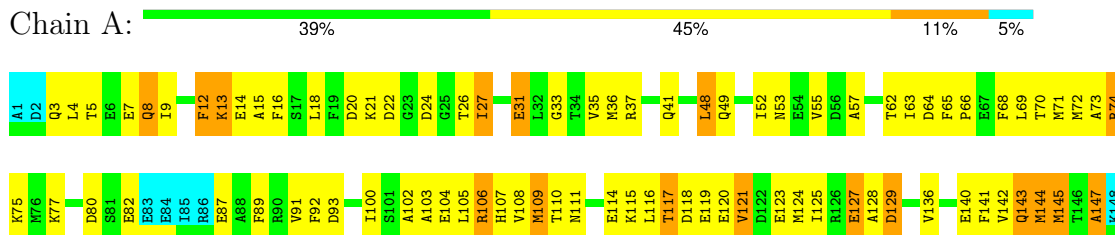


- Molecule 2: Nitric oxide synthase, endothelial

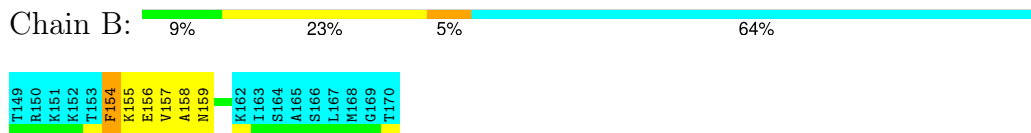


4.2.17 Score per residue for model 17

- Molecule 1: Calmodulin

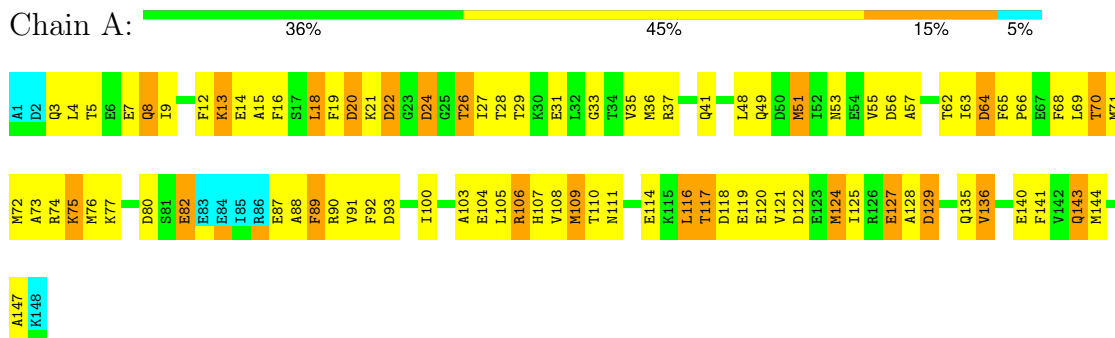


- Molecule 2: Nitric oxide synthase, endothelial

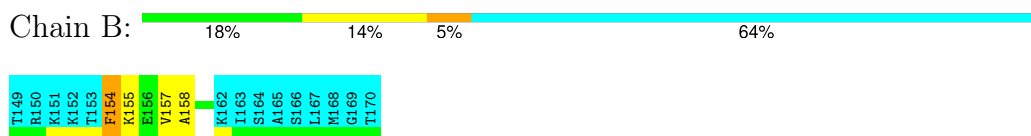


4.2.18 Score per residue for model 18

- Molecule 1: Calmodulin

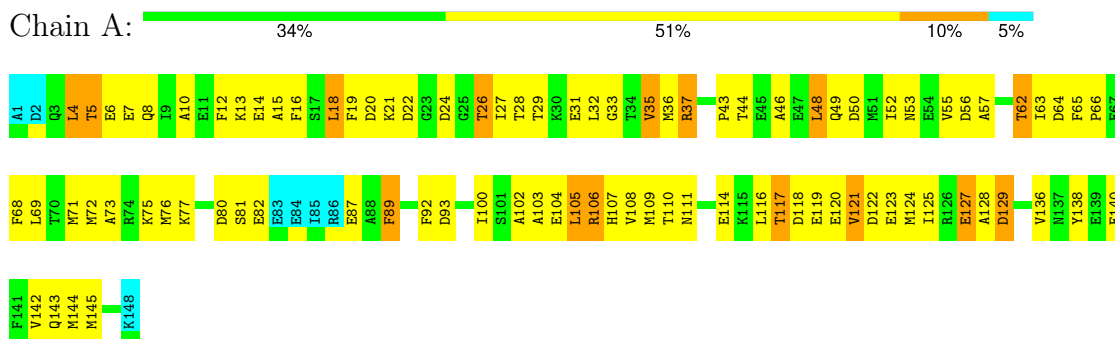


- Molecule 2: Nitric oxide synthase, endothelial

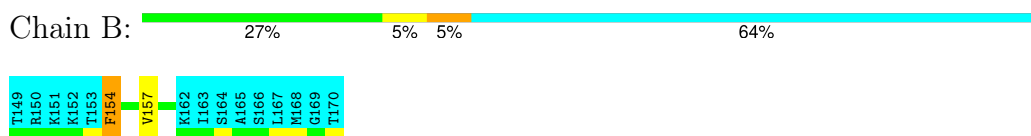


4.2.19 Score per residue for model 19

- Molecule 1: Calmodulin

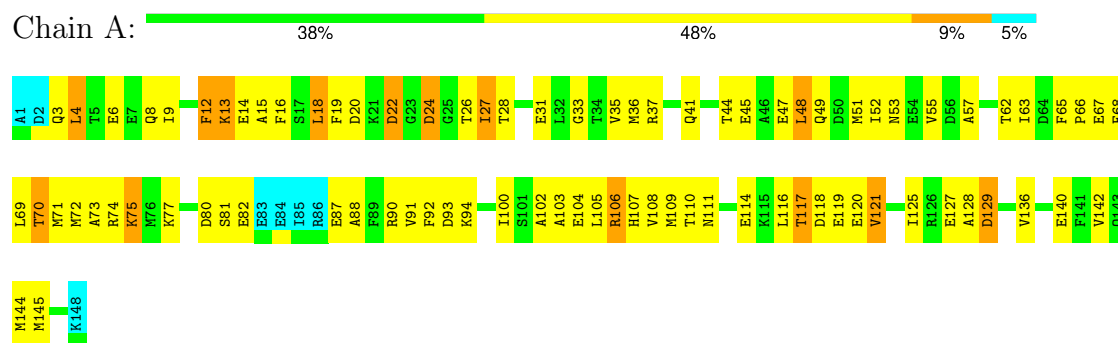


- Molecule 2: Nitric oxide synthase, endothelial

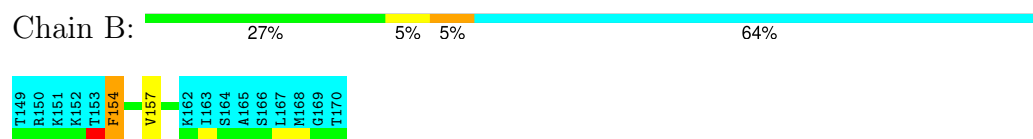


4.2.20 Score per residue for model 20

● Molecule 1: Calmodulin



● Molecule 2: Nitric oxide synthase, endothelial



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
CNSSOLVE	structure solution	
CNSSOLVE	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1525
Number of shifts mapped to atoms	1525
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	73%

6 Model quality i

6.1 Standard geometry i

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts i

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1106	1037	1036	69±6
2	B	61	62	62	4±3
All	All	23340	21980	21960	1417

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 31.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:104:GLU:O	1:A:108:VAL:HG23	0.95	1.61	14	20
1:A:117:THR:O	1:A:121:VAL:HB	0.92	1.63	18	2
1:A:49:GLN:O	1:A:53:ASN:HB2	0.92	1.65	11	19
1:A:16:PHE:O	1:A:20:ASP:HB2	0.91	1.65	4	17
1:A:5:THR:O	1:A:8:GLN:HG3	0.90	1.65	7	1
1:A:117:THR:O	1:A:121:VAL:HG22	0.87	1.69	14	18
1:A:68:PHE:O	1:A:71:MET:HG2	0.85	1.72	7	8
1:A:123:GLU:O	1:A:127:GLU:HG2	0.82	1.75	2	12
1:A:136:VAL:HG11	1:A:141:PHE:CD1	0.80	2.11	16	1
1:A:104:GLU:O	1:A:108:VAL:N	0.75	2.20	15	20
1:A:73:ALA:O	1:A:77:LYS:HB2	0.74	1.80	16	14
1:A:117:THR:H	1:A:120:GLU:HG3	0.74	1.42	4	1
1:A:125:ILE:O	1:A:129:ASP:HB2	0.74	1.83	2	18

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:109:MET:SD	1:A:116:LEU:HD13	0.73	2.23	4	15
1:A:33:GLY:O	1:A:37:ARG:HD2	0.73	1.83	15	14
1:A:125:ILE:O	1:A:129:ASP:N	0.73	2.20	4	6
1:A:105:LEU:HD11	1:A:124:MET:SD	0.73	2.24	2	2
1:A:128:ALA:O	1:A:140:GLU:HB3	0.72	1.84	5	20
1:A:71:MET:O	1:A:75:LYS:HG2	0.72	1.84	13	1
1:A:48:LEU:O	1:A:52:ILE:HG12	0.71	1.85	13	5
1:A:143:GLN:O	1:A:147:ALA:N	0.71	2.18	8	11
1:A:3:GLN:H	1:A:8:GLN:HE22	0.71	1.28	18	1
1:A:109:MET:SD	1:A:116:LEU:HD22	0.70	2.26	10	14
1:A:128:ALA:HA	1:A:144:MET:SD	0.70	2.26	16	2
1:A:26:THR:HG21	1:A:64:ASP:HA	0.69	1.63	6	5
1:A:138:TYR:O	1:A:142:VAL:HG23	0.67	1.89	16	8
1:A:71:MET:O	1:A:75:LYS:HD2	0.67	1.89	2	13
1:A:72:MET:HA	1:A:75:LYS:HD2	0.67	1.65	19	9
1:A:92:PHE:HB3	1:A:100:ILE:HD13	0.67	1.67	4	14
1:A:87:GLU:O	1:A:91:VAL:HG23	0.67	1.90	15	6
1:A:109:MET:O	1:A:114:GLU:N	0.67	2.28	4	19
1:A:8:GLN:HA	1:A:69:LEU:HD13	0.67	1.67	6	6
1:A:11:GLU:O	1:A:14:GLU:HG2	0.67	1.89	2	3
1:A:27:ILE:HD13	1:A:35:VAL:HG21	0.66	1.66	10	3
2:B:154:PHE:CE1	2:B:155:LYS:HD2	0.66	2.26	15	6
1:A:33:GLY:O	1:A:37:ARG:HD3	0.66	1.91	17	5
1:A:5:THR:O	1:A:8:GLN:HG2	0.66	1.91	13	2
1:A:92:PHE:HB3	1:A:100:ILE:HG21	0.65	1.66	16	20
1:A:117:THR:H	1:A:120:GLU:CG	0.65	2.04	18	9
2:B:154:PHE:H	2:B:154:PHE:HD1	0.65	1.34	5	2
1:A:13:LYS:HG2	1:A:14:GLU:N	0.65	2.06	18	20
1:A:135:GLN:O	1:A:136:VAL:HB	0.64	1.92	18	3
1:A:15:ALA:O	1:A:27:ILE:HG12	0.64	1.93	3	1
1:A:8:GLN:HA	1:A:12:PHE:HB2	0.64	1.70	8	1
1:A:69:LEU:O	1:A:73:ALA:N	0.64	2.31	2	17
1:A:93:ASP:CA	1:A:100:ILE:HG12	0.63	2.24	7	20
1:A:109:MET:SD	1:A:116:LEU:HB2	0.62	2.34	2	1
1:A:117:THR:HG22	1:A:120:GLU:HG2	0.62	1.70	2	19
1:A:92:PHE:CB	1:A:100:ILE:HD13	0.62	2.24	11	20
1:A:8:GLN:HB2	1:A:69:LEU:HD13	0.62	1.72	15	3
1:A:105:LEU:HD13	1:A:124:MET:SD	0.62	2.35	18	1
1:A:106:ARG:HD3	1:A:116:LEU:O	0.62	1.93	7	18
1:A:65:PHE:HA	1:A:68:PHE:CE2	0.62	2.29	17	4
1:A:44:THR:O	1:A:48:LEU:HG	0.61	1.95	16	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:127:GLU:OE2	1:A:144:MET:HG2	0.61	1.95	1	2
1:A:136:VAL:HG13	1:A:140:GLU:HB2	0.61	1.73	4	1
1:A:105:LEU:HD21	1:A:124:MET:SD	0.61	2.35	4	6
1:A:116:LEU:H	1:A:116:LEU:HD23	0.61	1.56	4	1
1:A:71:MET:HA	1:A:74:ARG:NE	0.61	2.11	11	8
1:A:140:GLU:O	1:A:144:MET:HG2	0.60	1.96	20	2
1:A:14:GLU:O	1:A:18:LEU:N	0.60	2.34	8	14
1:A:3:GLN:HA	1:A:8:GLN:OE1	0.60	1.97	16	3
1:A:117:THR:O	1:A:121:VAL:CB	0.60	2.47	18	1
1:A:92:PHE:HB2	1:A:100:ILE:HD13	0.60	1.72	7	8
1:A:109:MET:O	1:A:113:GLY:N	0.60	2.34	1	3
1:A:26:THR:HG22	1:A:64:ASP:N	0.60	2.12	5	7
2:B:154:PHE:N	2:B:154:PHE:CD1	0.60	2.70	5	1
1:A:5:THR:O	1:A:8:GLN:CG	0.60	2.48	7	3
1:A:116:LEU:HD23	1:A:121:VAL:HG23	0.59	1.74	10	1
1:A:108:VAL:O	1:A:112:LEU:HD13	0.59	1.96	1	1
1:A:130:ILE:HD13	1:A:140:GLU:HG2	0.59	1.73	6	1
1:A:127:GLU:OE1	2:B:155:LYS:HD3	0.59	1.98	14	1
1:A:127:GLU:HB3	2:B:154:PHE:CE1	0.59	2.33	5	2
1:A:26:THR:OG1	1:A:63:ILE:N	0.58	2.36	20	2
1:A:127:GLU:HB3	2:B:154:PHE:CD1	0.58	2.33	3	2
1:A:93:ASP:N	1:A:100:ILE:HG12	0.58	2.13	6	20
2:B:154:PHE:CD1	2:B:154:PHE:N	0.58	2.71	3	1
1:A:65:PHE:CD1	1:A:66:PRO:HD3	0.58	2.33	15	4
1:A:48:LEU:O	1:A:52:ILE:HB	0.58	1.97	15	6
1:A:121:VAL:HG13	1:A:124:MET:HE3	0.58	1.74	18	1
1:A:123:GLU:O	1:A:127:GLU:CG	0.57	2.52	15	9
1:A:92:PHE:CE2	1:A:108:VAL:HG11	0.57	2.35	20	15
1:A:127:GLU:OE1	2:B:155:LYS:HD2	0.57	1.99	17	2
1:A:15:ALA:HA	1:A:35:VAL:HG12	0.57	1.76	17	17
1:A:119:GLU:HA	1:A:122:ASP:OD2	0.57	1.99	10	1
1:A:144:MET:SD	2:B:154:PHE:HB3	0.57	2.39	18	2
1:A:144:MET:SD	2:B:158:ALA:HB2	0.57	2.40	15	2
1:A:12:PHE:O	1:A:16:PHE:HB2	0.56	1.99	4	3
1:A:92:PHE:CE1	1:A:108:VAL:HG11	0.56	2.34	4	4
1:A:3:GLN:HA	1:A:8:GLN:NE2	0.56	2.14	10	3
1:A:37:ARG:NE	1:A:43:PRO:HA	0.56	2.15	15	1
1:A:102:ALA:HA	1:A:105:LEU:HD12	0.56	1.76	8	2
1:A:70:THR:O	1:A:74:ARG:HD3	0.56	2.01	18	8
1:A:125:ILE:O	1:A:129:ASP:HB3	0.56	2.01	4	2
1:A:16:PHE:O	1:A:20:ASP:HB3	0.56	2.00	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:109:MET:SD	1:A:114:GLU:HB2	0.56	2.41	2	1
1:A:51:MET:O	1:A:54:GLU:HG2	0.56	2.00	4	2
1:A:102:ALA:HB1	1:A:121:VAL:HG21	0.56	1.77	13	1
2:B:154:PHE:HA	2:B:157:VAL:HG22	0.55	1.77	19	13
1:A:27:ILE:HG13	1:A:63:ILE:O	0.55	2.01	16	4
1:A:144:MET:HB3	2:B:154:PHE:CD2	0.55	2.36	15	6
1:A:116:LEU:H	1:A:116:LEU:CD2	0.55	2.15	4	1
1:A:89:PHE:CE2	1:A:142:VAL:HG22	0.55	2.37	16	1
1:A:36:MET:O	1:A:41:GLN:HB2	0.54	2.02	1	18
1:A:125:ILE:HG22	1:A:136:VAL:HG23	0.54	1.80	8	1
1:A:89:PHE:O	1:A:93:ASP:HB2	0.54	2.01	10	2
1:A:105:LEU:O	1:A:108:VAL:HB	0.54	2.01	11	17
1:A:5:THR:CG2	1:A:7:GLU:H	0.54	2.15	19	3
1:A:48:LEU:O	1:A:52:ILE:HD13	0.54	2.02	8	12
1:A:93:ASP:HA	1:A:100:ILE:HG12	0.54	1.79	1	19
1:A:117:THR:HG23	1:A:118:ASP:N	0.54	2.18	4	20
1:A:106:ARG:HA	1:A:116:LEU:HD11	0.54	1.78	4	1
1:A:4:LEU:HG	1:A:8:GLN:HE21	0.54	1.63	20	1
1:A:12:PHE:CG	1:A:69:LEU:HD21	0.54	2.38	2	1
1:A:13:LYS:O	1:A:16:PHE:HB3	0.54	2.03	2	4
1:A:33:GLY:HA3	1:A:48:LEU:HD11	0.54	1.79	14	1
1:A:9:ILE:O	1:A:13:LYS:HD2	0.54	2.03	18	1
1:A:117:THR:H	1:A:120:GLU:CD	0.53	2.06	16	19
1:A:136:VAL:HA	1:A:140:GLU:OE1	0.53	2.04	7	14
1:A:105:LEU:HD22	1:A:105:LEU:O	0.53	2.03	19	2
1:A:16:PHE:O	1:A:20:ASP:CB	0.53	2.57	20	2
1:A:142:VAL:O	1:A:145:MET:HG2	0.53	2.04	5	6
1:A:144:MET:HB3	2:B:154:PHE:CE2	0.52	2.39	15	4
2:B:154:PHE:CZ	2:B:155:LYS:HD2	0.52	2.39	5	2
1:A:105:LEU:HD13	1:A:106:ARG:N	0.52	2.18	8	2
1:A:141:PHE:HA	1:A:144:MET:SD	0.52	2.44	18	1
1:A:127:GLU:CD	2:B:154:PHE:H	0.52	2.07	1	1
1:A:94:LYS:HB2	1:A:104:GLU:HB3	0.52	1.82	3	3
1:A:105:LEU:HD12	2:B:154:PHE:CZ	0.52	2.39	18	1
1:A:103:ALA:O	1:A:107:HIS:HB2	0.52	2.05	5	13
1:A:142:VAL:O	1:A:145:MET:HG3	0.52	2.05	17	3
1:A:17:SER:HA	1:A:20:ASP:OD1	0.51	2.04	6	1
1:A:9:ILE:HA	1:A:12:PHE:CE1	0.51	2.41	1	6
1:A:4:LEU:H	1:A:8:GLN:HE21	0.51	1.48	11	1
1:A:73:ALA:O	1:A:77:LYS:HG3	0.51	2.05	2	4
1:A:105:LEU:O	1:A:109:MET:SD	0.51	2.68	6	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:22:ASP:OD1	1:A:24:ASP:HB2	0.51	2.06	14	6
1:A:37:ARG:HD3	1:A:43:PRO:HA	0.51	1.82	19	1
1:A:5:THR:HG23	1:A:6:GLU:N	0.50	2.21	1	3
1:A:44:THR:OG1	1:A:45:GLU:N	0.50	2.44	7	5
1:A:129:ASP:OD2	1:A:132:GLY:HA2	0.50	2.05	4	2
2:B:154:PHE:CE2	2:B:155:LYS:HD2	0.50	2.42	5	2
2:B:154:PHE:O	2:B:158:ALA:HB3	0.50	2.06	2	1
1:A:51:MET:HA	1:A:54:GLU:OE1	0.50	2.06	3	5
1:A:88:ALA:O	1:A:91:VAL:HB	0.50	2.06	18	5
1:A:20:ASP:OD2	1:A:27:ILE:HG23	0.50	2.07	5	5
1:A:65:PHE:HA	1:A:68:PHE:CD1	0.50	2.42	2	1
1:A:3:GLN:NE2	1:A:3:GLN:H	0.50	2.05	3	1
1:A:29:THR:HG22	1:A:63:ILE:HD11	0.50	1.83	1	3
1:A:5:THR:OG1	1:A:7:GLU:HG2	0.50	2.07	12	13
1:A:27:ILE:O	1:A:63:ILE:N	0.50	2.45	16	3
1:A:8:GLN:HB3	1:A:69:LEU:HD13	0.50	1.82	7	3
1:A:102:ALA:O	1:A:106:ARG:HB3	0.49	2.07	4	8
1:A:116:LEU:HD21	1:A:124:MET:SD	0.49	2.47	19	1
1:A:116:LEU:HG	1:A:120:GLU:HG3	0.49	1.83	1	9
1:A:120:GLU:O	1:A:123:GLU:HG2	0.49	2.07	2	2
1:A:105:LEU:HD12	2:B:154:PHE:CE2	0.49	2.41	13	2
1:A:51:MET:O	1:A:54:GLU:HG3	0.49	2.06	15	1
1:A:55:VAL:C	1:A:57:ALA:H	0.49	2.11	18	20
1:A:141:PHE:O	1:A:144:MET:HG3	0.49	2.08	17	3
1:A:144:MET:HE3	2:B:158:ALA:HB2	0.49	1.84	18	1
1:A:15:ALA:O	1:A:35:VAL:HG11	0.49	2.07	7	7
1:A:136:VAL:HG11	1:A:141:PHE:CG	0.49	2.42	16	1
1:A:125:ILE:O	1:A:129:ASP:CB	0.49	2.58	2	2
1:A:125:ILE:HG22	1:A:136:VAL:CG2	0.49	2.37	8	1
1:A:37:ARG:N	1:A:37:ARG:HD3	0.49	2.21	11	1
1:A:19:PHE:CD1	1:A:35:VAL:HG22	0.49	2.42	16	16
1:A:135:GLN:O	1:A:136:VAL:CB	0.49	2.59	18	3
1:A:8:GLN:O	1:A:12:PHE:HB3	0.49	2.08	11	3
1:A:117:THR:N	1:A:120:GLU:CG	0.49	2.75	2	10
1:A:102:ALA:O	1:A:121:VAL:HG11	0.49	2.08	5	6
2:B:154:PHE:HD1	2:B:154:PHE:N	0.49	2.02	3	2
1:A:92:PHE:CE1	2:B:161:VAL:HG11	0.49	2.43	15	1
1:A:87:GLU:O	1:A:90:ARG:HB2	0.49	2.07	14	6
1:A:109:MET:SD	1:A:114:GLU:HB3	0.49	2.47	10	3
1:A:46:ALA:O	1:A:50:ASP:HB2	0.48	2.08	11	2
1:A:105:LEU:HD11	1:A:124:MET:CE	0.48	2.37	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:105:LEU:HD11	1:A:124:MET:HG2	0.48	1.84	4	1
1:A:129:ASP:HA	1:A:140:GLU:OE1	0.48	2.08	4	1
1:A:65:PHE:CG	1:A:66:PRO:HD3	0.48	2.44	19	12
1:A:71:MET:O	1:A:74:ARG:HG2	0.48	2.08	1	3
1:A:26:THR:OG1	1:A:27:ILE:N	0.48	2.46	20	3
1:A:19:PHE:HB3	1:A:27:ILE:HG21	0.48	1.84	8	1
1:A:105:LEU:HD12	2:B:154:PHE:CE1	0.48	2.44	18	1
1:A:89:PHE:O	1:A:93:ASP:HB3	0.48	2.09	17	8
1:A:8:GLN:HG3	1:A:9:ILE:HD13	0.48	1.84	8	2
1:A:72:MET:HG2	1:A:75:LYS:NZ	0.48	2.23	11	1
1:A:137:ASN:ND2	1:A:138:TYR:H	0.48	2.06	7	1
1:A:105:LEU:HD22	1:A:105:LEU:C	0.48	2.29	19	3
1:A:4:LEU:HD11	1:A:69:LEU:HB3	0.48	1.85	7	4
1:A:127:GLU:HB3	2:B:154:PHE:CZ	0.48	2.44	5	2
1:A:47:GLU:HA	1:A:50:ASP:OD2	0.47	2.09	5	3
1:A:31:GLU:O	1:A:35:VAL:HG23	0.47	2.09	8	14
1:A:72:MET:O	1:A:76:MET:HG2	0.47	2.09	18	4
2:B:154:PHE:CE1	2:B:158:ALA:HB2	0.47	2.44	16	1
1:A:68:PHE:O	1:A:71:MET:HB2	0.47	2.09	8	5
1:A:127:GLU:OE2	2:B:154:PHE:HB3	0.47	2.09	1	1
1:A:138:TYR:O	1:A:142:VAL:N	0.47	2.47	19	7
1:A:106:ARG:HH11	1:A:116:LEU:H	0.47	1.53	8	1
1:A:128:ALA:HB1	1:A:140:GLU:O	0.47	2.09	19	6
1:A:129:ASP:HA	1:A:140:GLU:OE2	0.47	2.09	15	9
1:A:3:GLN:HE21	1:A:8:GLN:HE22	0.47	1.53	1	1
1:A:121:VAL:C	1:A:123:GLU:H	0.47	2.13	12	9
1:A:8:GLN:HA	1:A:12:PHE:CD1	0.47	2.44	19	1
1:A:105:LEU:O	1:A:105:LEU:HD23	0.47	2.10	13	11
1:A:128:ALA:C	1:A:140:GLU:HB3	0.47	2.30	11	4
1:A:92:PHE:CD2	1:A:108:VAL:HG11	0.47	2.43	10	3
1:A:91:VAL:HG12	1:A:92:PHE:HD1	0.47	1.68	11	1
1:A:65:PHE:HA	1:A:68:PHE:CE1	0.47	2.44	3	2
1:A:4:LEU:HG	1:A:8:GLN:OE1	0.47	2.10	2	2
1:A:92:PHE:HE1	2:B:161:VAL:HG11	0.47	1.69	15	1
1:A:26:THR:HA	1:A:63:ILE:O	0.47	2.09	18	1
1:A:124:MET:O	2:B:154:PHE:HD2	0.47	1.92	19	1
1:A:71:MET:HG2	1:A:74:ARG:NH2	0.46	2.25	15	3
1:A:117:THR:HG23	1:A:119:GLU:H	0.46	1.70	18	16
1:A:142:VAL:HA	1:A:145:MET:SD	0.46	2.51	1	1
1:A:123:GLU:O	1:A:127:GLU:HG3	0.46	2.09	4	1
1:A:12:PHE:CG	1:A:69:LEU:HD22	0.46	2.46	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:37:ARG:HE	1:A:43:PRO:HA	0.46	1.71	15	1
1:A:16:PHE:HB2	1:A:65:PHE:CG	0.46	2.45	10	3
1:A:33:GLY:HA3	1:A:48:LEU:HD21	0.46	1.87	11	1
1:A:6:GLU:O	1:A:10:ALA:N	0.46	2.47	15	5
1:A:37:ARG:HG3	1:A:43:PRO:N	0.46	2.26	11	1
1:A:128:ALA:HB3	1:A:136:VAL:HG21	0.46	1.86	8	1
1:A:109:MET:HB3	1:A:114:GLU:O	0.46	2.11	1	1
1:A:14:GLU:HB2	1:A:39:LEU:HD21	0.46	1.87	4	1
1:A:106:ARG:HG3	1:A:107:HIS:N	0.46	2.26	7	7
1:A:105:LEU:HD11	1:A:121:VAL:HG12	0.46	1.88	8	2
1:A:105:LEU:HD23	1:A:105:LEU:O	0.45	2.12	16	4
1:A:51:MET:SD	1:A:68:PHE:HZ	0.45	2.34	14	1
1:A:3:GLN:H	1:A:8:GLN:NE2	0.45	2.09	20	2
2:B:155:LYS:O	2:B:159:ASN:HB2	0.45	2.11	3	1
1:A:72:MET:HA	1:A:75:LYS:CD	0.45	2.42	5	5
1:A:117:THR:N	1:A:120:GLU:HG3	0.45	2.20	4	1
1:A:102:ALA:HB1	1:A:121:VAL:CG1	0.45	2.42	10	1
1:A:88:ALA:O	1:A:92:PHE:HD1	0.45	1.94	16	1
1:A:32:LEU:HD22	1:A:63:ILE:HG13	0.45	1.89	19	1
1:A:70:THR:O	1:A:74:ARG:HD2	0.45	2.12	3	3
1:A:116:LEU:CD2	1:A:116:LEU:N	0.45	2.77	4	1
1:A:104:GLU:O	1:A:108:VAL:CG2	0.45	2.57	13	5
1:A:116:LEU:HD21	1:A:124:MET:HE1	0.45	1.87	5	1
1:A:127:GLU:O	2:B:155:LYS:HE3	0.45	2.11	8	1
1:A:124:MET:O	1:A:127:GLU:HG2	0.45	2.11	13	1
1:A:118:ASP:O	1:A:121:VAL:HG23	0.45	2.12	20	7
1:A:127:GLU:OE2	2:B:155:LYS:HD3	0.45	2.12	13	1
1:A:123:GLU:O	1:A:127:GLU:HB3	0.45	2.12	17	2
1:A:89:PHE:HB3	1:A:138:TYR:OH	0.45	2.11	19	1
1:A:32:LEU:HD21	1:A:68:PHE:CZ	0.45	2.47	1	1
1:A:44:THR:HG23	1:A:47:GLU:H	0.45	1.70	11	1
1:A:3:GLN:HG3	1:A:66:PRO:O	0.44	2.11	14	1
1:A:32:LEU:HA	1:A:35:VAL:HG23	0.44	1.88	14	3
1:A:26:THR:HB	1:A:63:ILE:O	0.44	2.12	6	2
1:A:11:GLU:HA	1:A:14:GLU:OE1	0.44	2.11	6	1
1:A:72:MET:HA	1:A:75:LYS:HD3	0.44	1.88	11	1
1:A:107:HIS:O	1:A:110:THR:HG22	0.44	2.13	1	1
1:A:143:GLN:HA	1:A:146:THR:OG1	0.44	2.12	15	1
1:A:127:GLU:OE2	1:A:128:ALA:HB2	0.44	2.12	1	1
1:A:33:GLY:O	1:A:36:MET:HB2	0.44	2.13	19	2
1:A:52:ILE:O	1:A:56:ASP:HB3	0.44	2.12	13	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:26:THR:CG2	1:A:64:ASP:HA	0.44	2.43	1	1
1:A:92:PHE:CZ	1:A:108:VAL:HG11	0.44	2.47	8	3
1:A:127:GLU:HB3	2:B:154:PHE:CG	0.43	2.48	3	1
1:A:26:THR:HG1	1:A:63:ILE:C	0.43	2.16	11	1
1:A:141:PHE:O	1:A:144:MET:HE2	0.43	2.12	17	1
1:A:144:MET:SD	2:B:154:PHE:HE2	0.43	2.36	3	2
1:A:63:ILE:HA	1:A:68:PHE:CE2	0.43	2.48	15	1
1:A:37:ARG:HA	1:A:41:GLN:O	0.43	2.13	9	7
1:A:92:PHE:CD1	1:A:108:VAL:HG11	0.43	2.48	7	1
1:A:27:ILE:O	1:A:63:ILE:HD12	0.43	2.13	15	1
1:A:144:MET:SD	2:B:155:LYS:HA	0.43	2.53	17	1
1:A:130:ILE:HD12	1:A:140:GLU:CD	0.43	2.34	3	1
1:A:87:GLU:O	1:A:90:ARG:HB3	0.43	2.13	8	3
1:A:92:PHE:CD2	1:A:108:VAL:HG21	0.43	2.49	8	1
1:A:47:GLU:HG2	1:A:51:MET:SD	0.43	2.54	12	1
1:A:79:THR:HG23	1:A:80:ASP:H	0.43	1.73	3	2
1:A:72:MET:HA	1:A:75:LYS:HG3	0.43	1.90	6	2
1:A:12:PHE:CB	1:A:69:LEU:HD11	0.43	2.43	11	1
1:A:9:ILE:O	1:A:13:LYS:HD3	0.43	2.13	3	2
1:A:65:PHE:HA	1:A:68:PHE:CD2	0.43	2.49	11	3
1:A:144:MET:SD	2:B:154:PHE:O	0.43	2.77	11	1
1:A:101:SER:OG	1:A:104:GLU:HG3	0.43	2.13	12	1
1:A:67:GLU:O	1:A:71:MET:HG3	0.43	2.14	20	1
1:A:125:ILE:HG12	1:A:135:GLN:O	0.43	2.14	18	2
1:A:12:PHE:CD2	1:A:69:LEU:HG	0.43	2.48	3	1
1:A:126:ARG:HA	1:A:129:ASP:OD1	0.43	2.14	13	1
2:B:154:PHE:O	2:B:157:VAL:HG22	0.43	2.13	14	1
1:A:73:ALA:O	1:A:77:LYS:CB	0.43	2.66	18	1
1:A:62:THR:O	1:A:63:ILE:HD13	0.43	2.13	19	1
1:A:45:GLU:HA	1:A:48:LEU:HB2	0.42	1.91	1	2
1:A:105:LEU:O	1:A:105:LEU:HD22	0.42	2.13	8	1
1:A:36:MET:HB3	1:A:37:ARG:NH1	0.42	2.29	11	1
1:A:125:ILE:HG23	2:B:154:PHE:CE1	0.42	2.49	8	1
1:A:32:LEU:HD22	1:A:63:ILE:HG12	0.42	1.90	9	1
1:A:136:VAL:HA	1:A:140:GLU:OE2	0.42	2.14	4	1
1:A:27:ILE:O	1:A:63:ILE:HB	0.42	2.14	8	1
1:A:68:PHE:CE1	1:A:69:LEU:HG	0.42	2.49	20	1
1:A:99:TYR:CB	1:A:135:GLN:HE21	0.42	2.27	4	1
1:A:114:GLU:O	1:A:115:LYS:O	0.42	2.37	2	1
1:A:51:MET:O	1:A:55:VAL:HG23	0.42	2.15	7	2
1:A:5:THR:HG23	1:A:7:GLU:H	0.42	1.74	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:12:PHE:HB3	1:A:69:LEU:HD11	0.42	1.90	13	1
1:A:72:MET:O	1:A:75:LYS:HD2	0.42	2.15	20	1
1:A:129:ASP:OD2	1:A:136:VAL:HG23	0.42	2.15	8	2
1:A:14:GLU:O	1:A:18:LEU:HB2	0.42	2.15	16	3
1:A:32:LEU:HD11	1:A:68:PHE:CZ	0.42	2.50	16	1
1:A:65:PHE:N	1:A:66:PRO:HD2	0.42	2.30	18	1
1:A:70:THR:O	1:A:74:ARG:HG3	0.42	2.15	7	1
1:A:143:GLN:HE21	1:A:144:MET:N	0.42	2.13	10	3
1:A:128:ALA:HB2	2:B:154:PHE:CD2	0.42	2.50	4	2
1:A:8:GLN:OE1	1:A:66:PRO:HA	0.42	2.14	5	1
1:A:68:PHE:CD1	1:A:71:MET:SD	0.42	3.13	10	1
1:A:26:THR:HG1	1:A:27:ILE:N	0.42	2.13	20	1
1:A:65:PHE:O	1:A:69:LEU:HD12	0.41	2.15	18	1
1:A:71:MET:HA	1:A:74:ARG:CD	0.41	2.45	9	2
1:A:65:PHE:N	1:A:66:PRO:CD	0.41	2.83	17	1
1:A:109:MET:C	1:A:114:GLU:O	0.41	2.59	1	1
1:A:117:THR:HG22	1:A:120:GLU:CG	0.41	2.44	4	1
1:A:91:VAL:HG12	1:A:92:PHE:CD1	0.41	2.50	1	1
1:A:45:GLU:O	1:A:49:GLN:HG3	0.41	2.15	5	1
1:A:17:SER:O	1:A:21:LYS:HE3	0.41	2.15	8	1
1:A:124:MET:SD	1:A:124:MET:O	0.41	2.77	9	1
1:A:92:PHE:CG	1:A:108:VAL:HG11	0.41	2.50	15	1
2:B:156:GLU:HA	2:B:159:ASN:ND2	0.41	2.31	17	1
1:A:117:THR:H	1:A:120:GLU:HG2	0.41	1.72	18	1
1:A:139:GLU:O	1:A:143:GLN:HG3	0.41	2.16	11	1
1:A:126:ARG:HA	1:A:129:ASP:CG	0.41	2.35	13	1
1:A:124:MET:SD	1:A:125:ILE:HG13	0.41	2.54	18	1
1:A:6:GLU:HA	1:A:9:ILE:HG12	0.41	1.93	20	1
1:A:109:MET:SD	1:A:116:LEU:HB3	0.41	2.56	4	1
1:A:12:PHE:CD1	1:A:69:LEU:HD22	0.41	2.51	8	1
1:A:8:GLN:HE22	1:A:66:PRO:HA	0.41	1.75	12	1
1:A:74:ARG:HD3	1:A:75:LYS:N	0.41	2.30	17	1
1:A:105:LEU:HD23	1:A:109:MET:SD	0.41	2.56	17	1
1:A:133:ASP:HB3	1:A:135:GLN:OE1	0.41	2.15	4	1
1:A:19:PHE:CB	1:A:27:ILE:HG21	0.41	2.46	8	1
1:A:144:MET:SD	2:B:154:PHE:HB2	0.41	2.56	15	1
1:A:9:ILE:HA	1:A:12:PHE:CD1	0.41	2.51	17	1
1:A:117:THR:N	1:A:120:GLU:HG2	0.40	2.31	13	1
1:A:88:ALA:HB1	1:A:141:PHE:CE2	0.40	2.51	15	1
1:A:130:ILE:HB	1:A:140:GLU:OE2	0.40	2.16	3	1
1:A:33:GLY:C	1:A:37:ARG:HD2	0.40	2.36	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:47:GLU:O	1:A:50:ASP:HB2	0.40	2.16	5	1
1:A:3:GLN:HG2	1:A:65:PHE:O	0.40	2.16	7	1
1:A:19:PHE:CG	1:A:35:VAL:HG22	0.40	2.52	2	1
1:A:124:MET:SD	2:B:157:VAL:HG11	0.40	2.57	6	1
1:A:4:LEU:HB2	1:A:5:THR:H	0.40	1.54	7	1
1:A:13:LYS:CG	1:A:14:GLU:N	0.40	2.84	7	1
1:A:125:ILE:HG23	1:A:129:ASP:OD2	0.40	2.16	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	141/148 (95%)	127±2 (90±2%)	12±2 (8±1%)	2±1 (1±1%)	11	57
2	B	8/22 (36%)	8±0 (96±6%)	0±0 (4±6%)	0±0 (0±0%)	100	100
All	All	2980/3400 (88%)	2701 (91%)	237 (8%)	42 (1%)	12	59

All 9 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	122	ASP	12
1	A	80	ASP	11
1	A	93	ASP	6
1	A	147	ALA	4
1	A	136	VAL	3
1	A	56	ASP	3
1	A	115	LYS	1
1	A	79	THR	1
1	A	25	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	120/126 (95%)	94±3 (78±2%)	26±3 (22±2%)	2	29
2	B	6/18 (33%)	5±1 (80±10%)	1±1 (20±10%)	3	32
All	All	2520/2880 (88%)	1976 (78%)	544 (22%)	2	29

All 62 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	4	LEU	20
1	A	18	LEU	20
1	A	22	ASP	20
1	A	24	ASP	20
1	A	62	THR	20
1	A	82	GLU	20
1	A	106	ARG	20
1	A	111	ASN	20
1	A	117	THR	20
1	A	129	ASP	20
1	A	28	THR	19
1	A	70	THR	19
1	A	121	VAL	19
1	A	21	LYS	18
1	A	27	ILE	18
1	A	48	LEU	18
2	B	154	PHE	17
1	A	12	PHE	16
1	A	8	GLN	14
1	A	110	THR	13
1	A	13	LYS	11
1	A	144	MET	10
1	A	89	PHE	10
1	A	29	THR	10
1	A	127	GLU	8
1	A	26	THR	8
1	A	116	LEU	7
2	B	155	LYS	7

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Mol	Chain	Res	Type	Models (Total)
1	A	51	MET	7
1	A	20	ASP	6
1	A	35	VAL	6
1	A	64	ASP	6
1	A	143	GLN	6
1	A	145	MET	6
1	A	124	MET	5
1	A	75	LYS	5
1	A	109	MET	5
1	A	44	THR	4
1	A	68	PHE	4
1	A	72	MET	4
1	A	115	LYS	4
1	A	5	THR	3
1	A	138	TYR	3
1	A	105	LEU	3
1	A	3	GLN	2
1	A	69	LEU	2
1	A	125	ILE	2
1	A	47	GLU	2
1	A	119	GLU	2
1	A	37	ARG	2
1	A	74	ARG	2
1	A	114	GLU	1
1	A	140	GLU	1
1	A	94	LYS	1
1	A	136	VAL	1
1	A	14	GLU	1
1	A	32	LEU	1
1	A	54	GLU	1
1	A	141	PHE	1
1	A	31	GLU	1
1	A	122	ASP	1
1	A	76	MET	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 73% for the well-defined parts and 68% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping [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	1525
Number of shifts mapped to atoms	1525
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	8

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
$^{13}\text{C}_\alpha$	144	2.40 ± 0.08	Should be checked
$^{13}\text{C}_\beta$	133	2.88 ± 0.11	Should be checked
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	144	0.43 ± 0.21	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 73%, i.e. 1414 atoms were assigned a chemical shift out of a possible 1949. 0 out of 18 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	579/752 (77%)	301/307 (98%)	139/298 (47%)	139/147 (95%)
Sidechain	820/1081 (76%)	564/693 (81%)	256/352 (73%)	0/36 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	15/116 (13%)	15/57 (26%)	0/57 (0%)	0/2 (0%)
Overall	1414/1949 (73%)	880/1057 (83%)	395/707 (56%)	139/185 (75%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 68%, i.e. 1525 atoms were assigned a chemical shift out of a possible 2242. 0 out of 19 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	616/858 (72%)	328/350 (94%)	144/340 (42%)	144/168 (86%)
Sidechain	894/1268 (71%)	623/813 (77%)	271/409 (66%)	0/46 (0%)
Aromatic	15/116 (13%)	15/57 (26%)	0/57 (0%)	0/2 (0%)
Overall	1525/2242 (68%)	966/1220 (79%)	415/806 (51%)	144/216 (67%)

7.1.4 Statistically unusual chemical shifts [i](#)

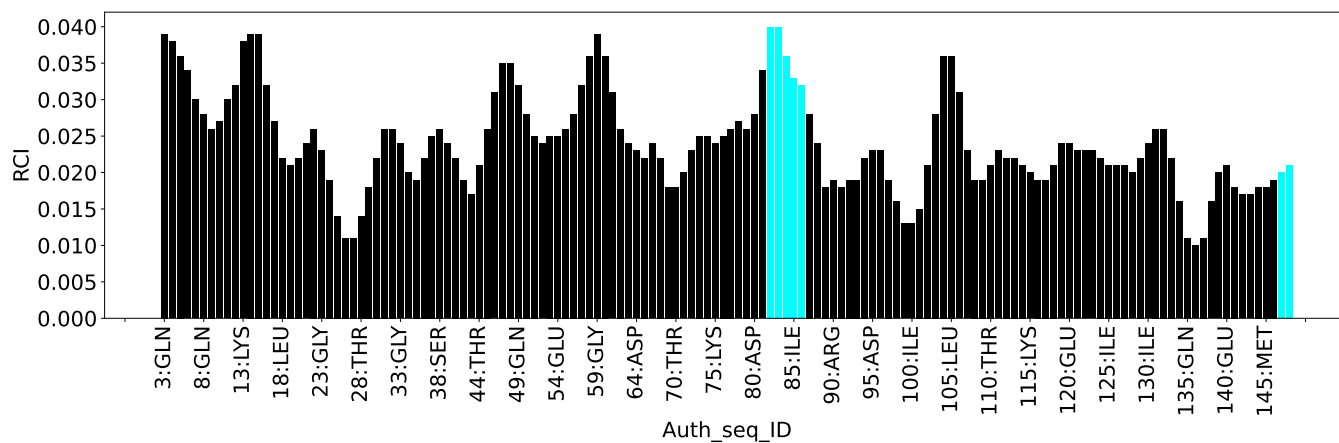
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	125	ILE	CG1	13.60	19.24 – 36.26	-8.3
1	A	115	LYS	CD	21.93	23.50 – 34.42	-6.4
1	B	164	SER	HB2	2.27	2.61 – 5.13	-6.4
1	B	166	SER	HB2	2.31	2.61 – 5.13	-6.2
1	B	164	SER	HB3	2.27	2.49 – 5.20	-5.8
1	B	166	SER	HB3	2.31	2.49 – 5.20	-5.7
1	A	125	ILE	CG2	24.79	10.93 – 24.12	5.5
1	A	114	GLU	CG	30.17	30.20 – 42.01	-5.0

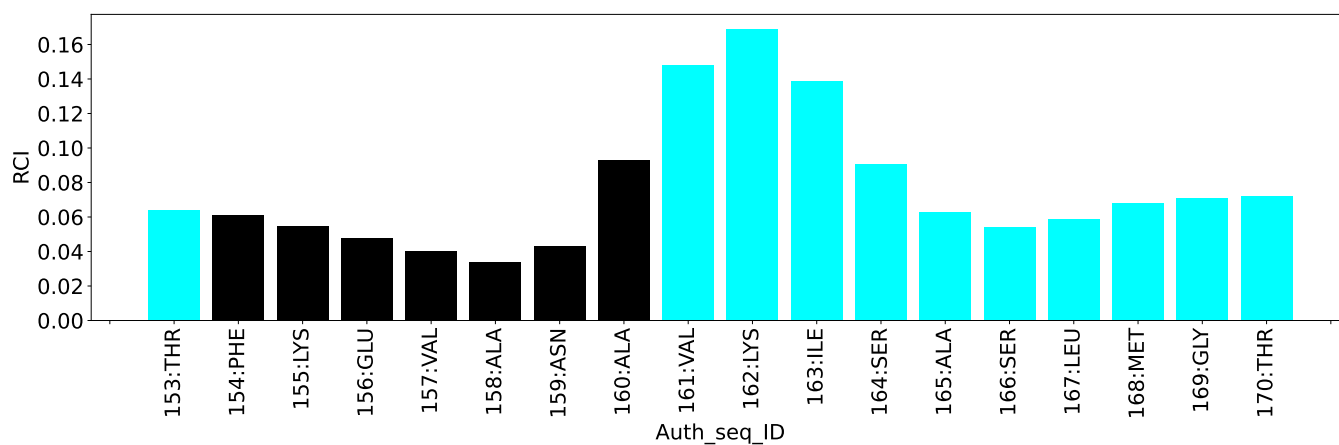
7.1.5 Random Coil Index (RCI) plots [i](#)

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:



Random coil index (RCI) for chain B:



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	2938
Intra-residue ($ i-j =0$)	1371
Sequential ($ i-j =1$)	893
Medium range ($ i-j >1$ and $ i-j <5$)	435
Long range ($ i-j \geq 5$)	202
Inter-chain	37
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	249
Number of unmapped restraints	0
Number of restraints per residue	18.7
Number of long range restraints per residue ¹	1.2

¹Long 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)	191.0	0.2
0.2-0.5 (Medium)	87.0	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)	30.6	4.6
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis i

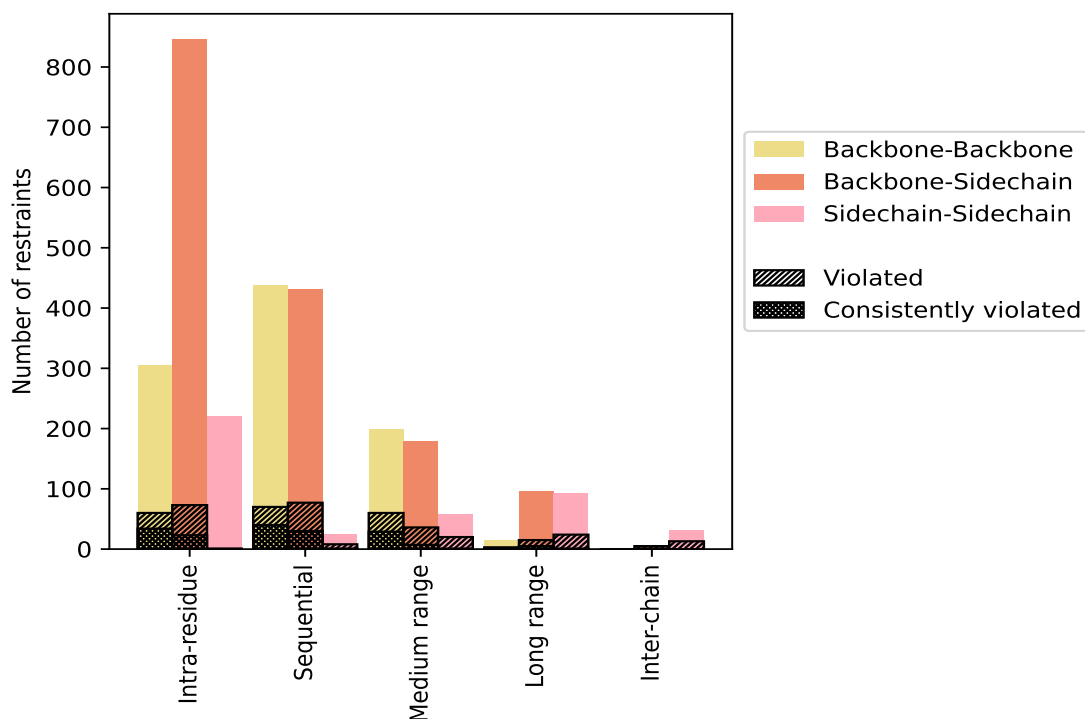
9.1 Summary of distance violations i

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	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	1371	46.7	134	9.8	4.6	57	4.2	1.9
Backbone-Backbone	305	10.4	60	19.7	2.0	34	11.1	1.2
Backbone-Sidechain	846	28.8	73	8.6	2.5	23	2.7	0.8
Sidechain-Sidechain	220	7.5	1	0.5	0.0	0	0.0	0.0
Sequential ($i-j =1$)	893	30.4	155	17.4	5.3	71	8.0	2.4
Backbone-Backbone	437	14.9	70	16.0	2.4	40	9.2	1.4
Backbone-Sidechain	431	14.7	77	17.9	2.6	30	7.0	1.0
Sidechain-Sidechain	25	0.9	8	32.0	0.3	1	4.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	435	14.8	116	26.7	3.9	37	8.5	1.3
Backbone-Backbone	199	6.8	60	30.2	2.0	29	14.6	1.0
Backbone-Sidechain	179	6.1	36	20.1	1.2	7	3.9	0.2
Sidechain-Sidechain	57	1.9	20	35.1	0.7	1	1.8	0.0
Long range ($i-j \geq 5$)	202	6.9	42	20.8	1.4	7	3.5	0.2
Backbone-Backbone	15	0.5	3	20.0	0.1	1	6.7	0.0
Backbone-Sidechain	95	3.2	15	15.8	0.5	5	5.3	0.2
Sidechain-Sidechain	92	3.1	24	26.1	0.8	1	1.1	0.0
Inter-chain	37	1.3	18	48.6	0.6	1	2.7	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	6	0.2	5	83.3	0.2	1	16.7	0.0
Sidechain-Sidechain	31	1.1	13	41.9	0.4	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2938	100.0	465	15.8	15.8	173	5.9	5.9
Backbone-Backbone	956	32.5	193	20.2	6.6	104	10.9	3.5
Backbone-Sidechain	1557	53.0	206	13.2	7.0	66	4.2	2.2
Sidechain-Sidechain	425	14.5	66	15.5	2.2	3	0.7	0.1

¹ percentage calculated with respect to the total number of distance restraints, ² percentage calculated with respect to the number of restraints in a particular restraint category, ³ violated in at least one model, ⁴ 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 ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	90	103	65	19	6	283	0.19	0.46	0.08	0.16
2	91	106	64	18	4	283	0.19	0.45	0.08	0.16
3	93	111	66	20	5	295	0.19	0.44	0.08	0.17
4	94	110	68	20	4	296	0.19	0.49	0.08	0.16
5	96	110	68	14	5	293	0.19	0.43	0.08	0.16
6	103	102	68	22	7	302	0.19	0.48	0.08	0.16
7	91	108	72	16	3	290	0.19	0.46	0.08	0.16
8	91	95	72	24	6	288	0.19	0.46	0.08	0.16
9	97	100	65	17	5	284	0.19	0.45	0.08	0.17
10	95	107	71	18	3	294	0.19	0.44	0.08	0.16

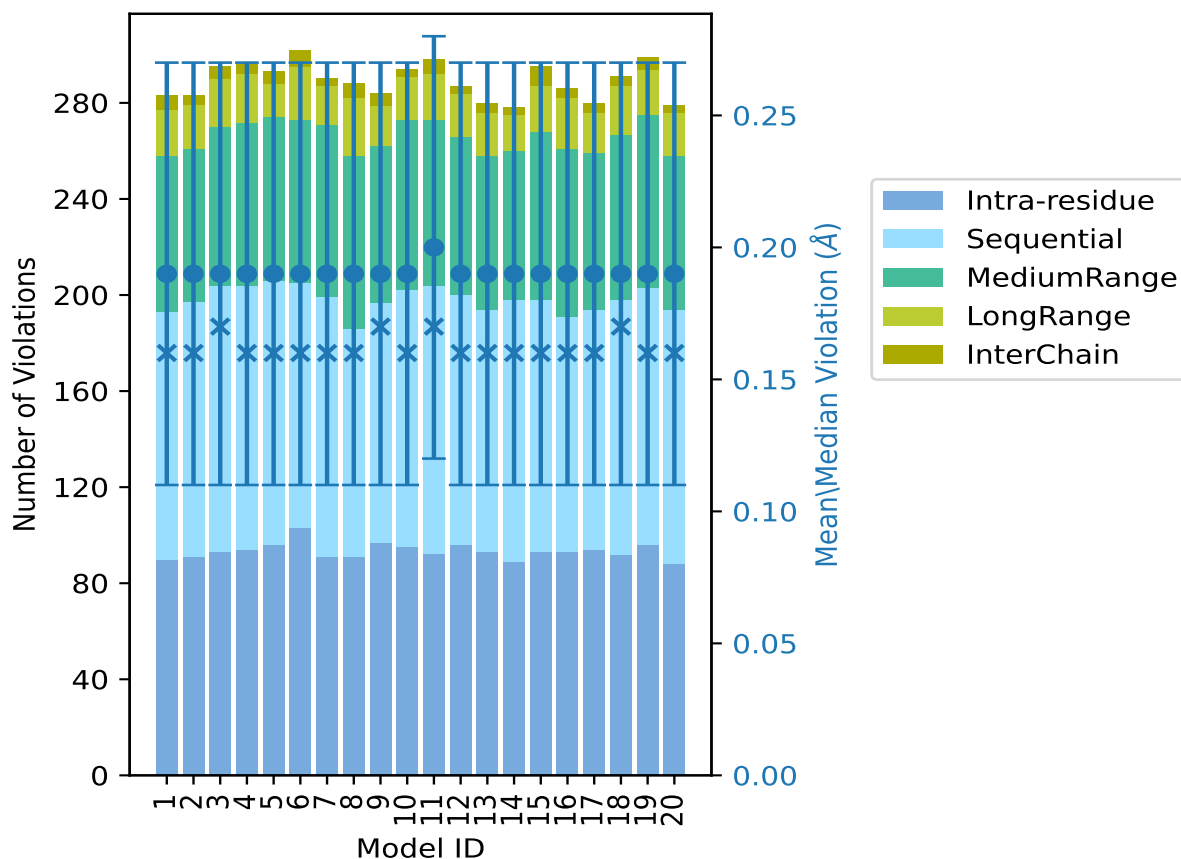
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Model ID	Number of violations					Total	Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵					
11	92	112	69	19	6	298	0.2	0.47	0.08	0.17
12	96	104	66	18	3	287	0.19	0.44	0.08	0.16
13	93	101	64	18	4	280	0.19	0.5	0.08	0.16
14	89	109	62	15	3	278	0.19	0.49	0.08	0.16
15	93	105	70	19	8	295	0.19	0.47	0.08	0.16
16	93	98	70	21	4	286	0.19	0.47	0.08	0.16
17	94	100	65	17	4	280	0.19	0.45	0.08	0.16
18	92	106	69	20	4	291	0.19	0.49	0.08	0.17
19	96	107	72	19	5	299	0.19	0.47	0.08	0.16
20	88	106	64	18	3	279	0.19	0.46	0.08	0.16

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶Standard 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

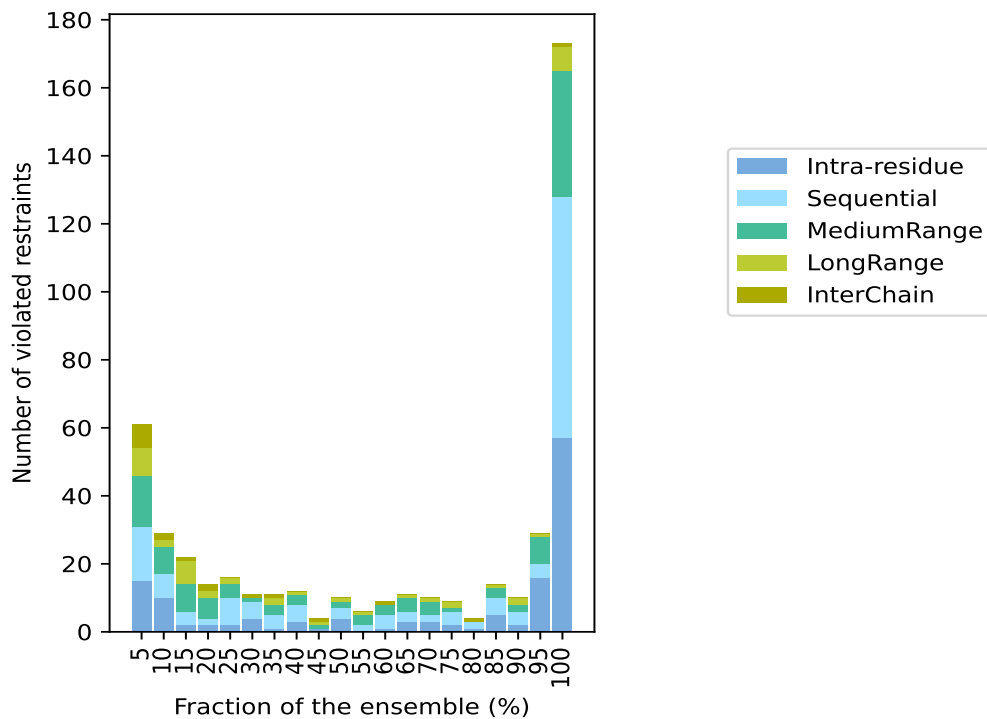
9.3 Distance violation statistics for the ensemble

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, 2473(IR:1237, SQ:738, MR:319, LR:160, IC:19) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
15	16	15	8	7	61	1	5.0
10	7	8	2	2	29	2	10.0
2	4	8	7	1	22	3	15.0
2	2	6	2	2	14	4	20.0
2	8	4	2	0	16	5	25.0
4	5	1	0	1	11	6	30.0
1	4	3	2	1	11	7	35.0
3	5	3	1	0	12	8	40.0
1	0	1	1	1	4	9	45.0
4	3	2	1	0	10	10	50.0
0	2	3	1	0	6	11	55.0
1	4	3	0	1	9	12	60.0
3	3	4	1	0	11	13	65.0
3	2	4	1	0	10	14	70.0
2	4	1	2	0	9	15	75.0
1	2	0	0	1	4	16	80.0
5	5	3	1	0	14	17	85.0
2	4	2	2	0	10	18	90.0
16	4	8	1	0	29	19	95.0
57	71	37	7	1	173	20	100.0

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

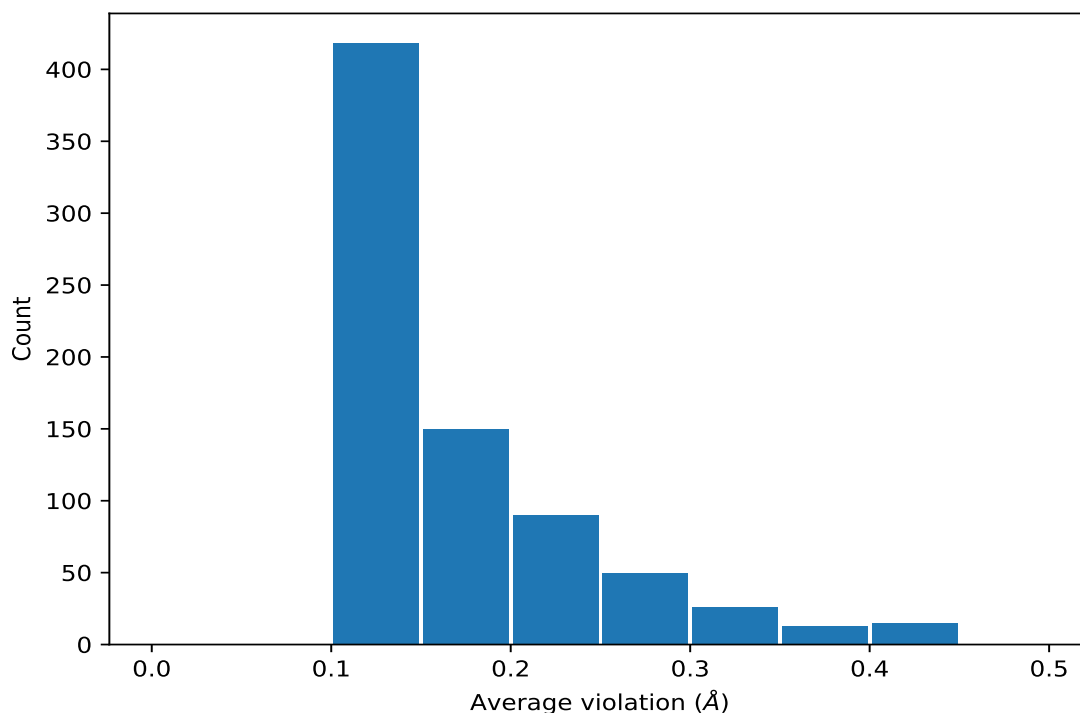
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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 ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	20	0.43	0.01	0.43
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	20	0.42	0.01	0.42
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	20	0.42	0.01	0.42
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	20	0.42	0.02	0.42
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	20	0.41	0.02	0.42
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	20	0.41	0.04	0.4
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	20	0.41	0.04	0.4
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	20	0.41	0.04	0.4
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	20	0.4	0.01	0.4
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	20	0.4	0.01	0.4
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	20	0.4	0.01	0.4
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	20	0.4	0.04	0.39
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	20	0.4	0.04	0.38
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	20	0.38	0.05	0.37
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	20	0.38	0.03	0.38
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	20	0.36	0.02	0.37

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	20	0.36	0.02	0.37
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	20	0.36	0.02	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	20	0.36	0.02	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	20	0.36	0.02	0.35
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	20	0.35	0.07	0.34
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	20	0.34	0.01	0.35
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	20	0.34	0.01	0.35
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	20	0.34	0.02	0.34
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	20	0.34	0.02	0.34
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	20	0.34	0.02	0.34
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	20	0.34	0.05	0.36
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	20	0.34	0.05	0.36
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	20	0.34	0.05	0.36
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	20	0.34	0.02	0.34
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	20	0.34	0.02	0.34
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	20	0.34	0.02	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	20	0.34	0.01	0.34
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	20	0.33	0.02	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	20	0.33	0.01	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	20	0.33	0.01	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	20	0.33	0.01	0.33
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	20	0.33	0.02	0.32
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	20	0.33	0.01	0.33
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	20	0.33	0.01	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	20	0.32	0.01	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	20	0.32	0.01	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	20	0.32	0.01	0.32
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	20	0.31	0.02	0.3
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	20	0.3	0.04	0.3
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	20	0.3	0.06	0.3
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	20	0.3	0.02	0.3
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	20	0.29	0.03	0.3
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	20	0.29	0.03	0.3
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	20	0.29	0.03	0.3
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	20	0.29	0.04	0.28
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	20	0.29	0.04	0.28
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	20	0.28	0.03	0.28
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	20	0.28	0.03	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	20	0.28	0.01	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	20	0.28	0.01	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	20	0.28	0.01	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	20	0.28	0.01	0.29

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	20	0.28	0.01	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	20	0.28	0.01	0.29
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	20	0.28	0.03	0.28
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	20	0.28	0.05	0.29
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	20	0.28	0.05	0.28
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	20	0.28	0.05	0.28
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	20	0.27	0.03	0.28
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	20	0.27	0.03	0.28
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	20	0.27	0.02	0.27
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	20	0.27	0.02	0.27
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	20	0.27	0.04	0.26
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	20	0.26	0.04	0.26
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	20	0.26	0.04	0.26
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	20	0.26	0.02	0.27
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	20	0.26	0.02	0.26
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	20	0.26	0.02	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	20	0.26	0.01	0.26
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	20	0.25	0.03	0.26
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	20	0.25	0.03	0.26
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	20	0.25	0.03	0.26
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	20	0.25	0.02	0.25
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	20	0.25	0.1	0.21
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	20	0.25	0.02	0.25
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	20	0.24	0.0	0.24
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	20	0.24	0.05	0.22
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	20	0.24	0.03	0.23
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	20	0.24	0.01	0.24
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	20	0.24	0.0	0.24
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	20	0.23	0.01	0.23
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	20	0.23	0.05	0.24
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	20	0.23	0.05	0.24
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	20	0.23	0.0	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	20	0.23	0.01	0.23
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	20	0.22	0.01	0.22
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	20	0.22	0.01	0.22
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	20	0.22	0.01	0.22
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	20	0.22	0.02	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	20	0.22	0.0	0.22
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	20	0.22	0.02	0.21
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	20	0.21	0.01	0.22
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	20	0.21	0.02	0.2
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	20	0.21	0.0	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	20	0.21	0.02	0.21
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	20	0.2	0.01	0.2
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	20	0.2	0.03	0.2
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	20	0.2	0.03	0.2
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	20	0.2	0.03	0.19
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	20	0.2	0.03	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	20	0.2	0.03	0.22
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	20	0.2	0.07	0.16
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	20	0.2	0.07	0.16
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	20	0.2	0.03	0.18
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	20	0.2	0.03	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	20	0.2	0.03	0.19
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	20	0.2	0.03	0.19
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	20	0.2	0.03	0.19
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	20	0.19	0.0	0.19
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	20	0.19	0.05	0.18
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	20	0.19	0.02	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	20	0.19	0.01	0.2
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	20	0.19	0.03	0.2
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	20	0.19	0.03	0.2
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	20	0.19	0.0	0.19
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	20	0.19	0.06	0.18
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	20	0.19	0.06	0.18
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	20	0.19	0.04	0.18
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	20	0.19	0.04	0.18
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	20	0.19	0.04	0.18
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	20	0.19	0.01	0.19
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	20	0.19	0.01	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	20	0.19	0.01	0.19
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	20	0.19	0.03	0.2
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	20	0.19	0.02	0.19
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	20	0.19	0.01	0.18
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	20	0.19	0.04	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	20	0.19	0.01	0.19
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	20	0.18	0.01	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	20	0.18	0.02	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	20	0.18	0.02	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	20	0.18	0.02	0.18
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	20	0.18	0.02	0.18
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	20	0.18	0.02	0.18
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	20	0.18	0.02	0.18
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	20	0.18	0.04	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	20	0.18	0.04	0.18
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	20	0.18	0.05	0.18
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	20	0.18	0.05	0.18
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	20	0.18	0.05	0.18
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	20	0.18	0.01	0.18
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	20	0.18	0.02	0.18
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	20	0.18	0.02	0.18
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	20	0.18	0.01	0.18
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	20	0.18	0.02	0.18
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	20	0.18	0.02	0.18
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	20	0.18	0.01	0.18
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	20	0.18	0.02	0.18
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	20	0.18	0.01	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	20	0.18	0.02	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	20	0.18	0.02	0.18
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	20	0.17	0.02	0.17
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	20	0.17	0.02	0.17
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	20	0.17	0.01	0.16
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	20	0.17	0.0	0.17
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	20	0.17	0.01	0.17
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	20	0.17	0.03	0.17
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	20	0.17	0.03	0.17
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	20	0.17	0.01	0.17
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	20	0.17	0.03	0.17
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	20	0.17	0.01	0.16
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	20	0.16	0.01	0.16
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	20	0.16	0.02	0.16
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	20	0.16	0.02	0.16
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	20	0.16	0.03	0.16
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	20	0.16	0.03	0.16
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	20	0.16	0.03	0.16
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	20	0.16	0.03	0.16
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	20	0.16	0.03	0.15
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	20	0.16	0.03	0.15
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	20	0.16	0.0	0.16
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	20	0.16	0.02	0.15
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	20	0.16	0.01	0.16
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	20	0.16	0.01	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	20	0.16	0.01	0.16
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	20	0.16	0.01	0.16
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	20	0.16	0.01	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	20	0.16	0.01	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	20	0.16	0.02	0.16
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	20	0.16	0.02	0.16
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	20	0.16	0.01	0.15
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	20	0.16	0.01	0.15
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	20	0.16	0.02	0.16
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	20	0.16	0.02	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	20	0.16	0.01	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	20	0.15	0.02	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	20	0.15	0.02	0.16
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	20	0.15	0.02	0.16
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	20	0.15	0.02	0.16
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	20	0.15	0.01	0.16
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	20	0.15	0.01	0.15
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	20	0.15	0.01	0.15
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	20	0.15	0.02	0.16
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	20	0.15	0.01	0.15
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	20	0.15	0.02	0.14
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	20	0.15	0.02	0.14
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	20	0.15	0.02	0.15
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	20	0.15	0.02	0.15
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	20	0.15	0.07	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	20	0.15	0.07	0.12
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	20	0.15	0.02	0.15
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	20	0.15	0.0	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	20	0.15	0.0	0.15
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	20	0.15	0.01	0.15
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	20	0.15	0.02	0.15
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	20	0.15	0.02	0.15
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	20	0.14	0.0	0.14
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	20	0.14	0.0	0.14
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	20	0.14	0.01	0.15
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	20	0.14	0.01	0.14
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	20	0.14	0.01	0.14
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	20	0.14	0.01	0.14
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	20	0.14	0.02	0.14
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	20	0.14	0.01	0.14
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	20	0.14	0.01	0.14
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	20	0.14	0.01	0.14
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	20	0.13	0.01	0.13
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	20	0.13	0.01	0.13
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	20	0.13	0.02	0.14
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	20	0.13	0.01	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	20	0.13	0.03	0.12
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	20	0.13	0.03	0.12
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	20	0.13	0.02	0.12
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	20	0.13	0.02	0.12
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	20	0.13	0.02	0.12
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	20	0.13	0.02	0.12
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	20	0.13	0.02	0.12
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	20	0.13	0.02	0.12
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	20	0.13	0.01	0.13
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	20	0.13	0.01	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	20	0.13	0.0	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	20	0.13	0.0	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	20	0.13	0.0	0.13
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	20	0.11	0.0	0.11
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	19	0.27	0.03	0.27
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	19	0.27	0.03	0.27
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	19	0.27	0.03	0.27
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	19	0.27	0.03	0.27
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	19	0.25	0.09	0.23
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	19	0.23	0.05	0.25
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	19	0.23	0.05	0.25
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	19	0.23	0.05	0.25
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	19	0.21	0.1	0.17
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	19	0.21	0.1	0.17
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	19	0.21	0.1	0.17
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	19	0.19	0.0	0.19
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	19	0.19	0.02	0.19
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	19	0.19	0.02	0.19
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	19	0.19	0.04	0.2
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	19	0.19	0.04	0.2
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	19	0.18	0.02	0.17
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	19	0.18	0.03	0.18
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	19	0.18	0.03	0.18
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	19	0.18	0.03	0.18
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	19	0.17	0.09	0.14
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	19	0.17	0.09	0.14
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	19	0.17	0.09	0.14
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	19	0.17	0.09	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	19	0.17	0.09	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	19	0.17	0.09	0.14
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	19	0.17	0.07	0.15
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	19	0.15	0.03	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	19	0.15	0.03	0.15
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	19	0.15	0.03	0.15
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	19	0.15	0.05	0.13
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	19	0.15	0.05	0.13
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	19	0.15	0.05	0.13
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	19	0.15	0.05	0.13
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	19	0.14	0.03	0.14
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	19	0.14	0.02	0.14
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	19	0.14	0.01	0.14
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	19	0.14	0.01	0.14
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	19	0.13	0.01	0.14
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	19	0.13	0.01	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	19	0.13	0.01	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	19	0.13	0.01	0.13
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	19	0.13	0.02	0.13
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	19	0.13	0.01	0.13
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	19	0.13	0.01	0.13
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	19	0.12	0.01	0.12
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	19	0.12	0.01	0.12
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	19	0.12	0.01	0.11
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	19	0.12	0.01	0.11
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	19	0.11	0.01	0.11
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	19	0.11	0.01	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	19	0.11	0.01	0.11
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	18	0.3	0.08	0.33
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	18	0.3	0.08	0.33
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	18	0.2	0.07	0.19
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	18	0.2	0.07	0.19
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	18	0.2	0.07	0.19
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	18	0.2	0.07	0.19
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	18	0.2	0.03	0.2
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	18	0.2	0.03	0.2
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	18	0.2	0.03	0.2
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	18	0.2	0.03	0.2
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	18	0.2	0.03	0.2
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	18	0.2	0.03	0.2
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	18	0.19	0.06	0.17
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	18	0.19	0.06	0.17
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	18	0.18	0.02	0.18
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	18	0.18	0.02	0.18
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	18	0.15	0.03	0.15
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	18	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	18	0.14	0.02	0.14
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	18	0.14	0.02	0.14
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	18	0.14	0.01	0.14
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	18	0.14	0.01	0.14
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	18	0.13	0.02	0.12
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	17	0.24	0.01	0.23
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	17	0.2	0.07	0.21
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	17	0.18	0.03	0.18
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	17	0.18	0.03	0.18
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	17	0.18	0.03	0.18
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	17	0.15	0.03	0.16
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	17	0.15	0.03	0.16
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	17	0.15	0.03	0.16
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	17	0.15	0.03	0.16
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	17	0.15	0.04	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	17	0.15	0.04	0.13
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	17	0.14	0.01	0.15
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	17	0.14	0.01	0.14
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	17	0.14	0.01	0.14
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	17	0.14	0.03	0.16
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	17	0.13	0.07	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	17	0.13	0.07	0.11
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	17	0.13	0.01	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	17	0.13	0.01	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	17	0.13	0.01	0.13
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	17	0.12	0.01	0.12
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	17	0.11	0.0	0.11
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	17	0.11	0.0	0.11
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	16	0.26	0.08	0.28
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	16	0.26	0.08	0.28
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	16	0.14	0.03	0.14
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	16	0.12	0.01	0.12
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	16	0.12	0.01	0.12
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	15	0.21	0.08	0.19
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	15	0.21	0.08	0.19
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	15	0.21	0.08	0.19
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	15	0.14	0.02	0.14
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	15	0.14	0.02	0.14
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	15	0.13	0.02	0.14
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	15	0.13	0.02	0.14
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	15	0.13	0.02	0.14
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	15	0.13	0.02	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	15	0.13	0.02	0.13
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	15	0.13	0.02	0.13
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	15	0.13	0.02	0.13
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	15	0.13	0.02	0.13
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	15	0.13	0.02	0.13
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	15	0.13	0.02	0.13
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	15	0.11	0.01	0.11
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	15	0.11	0.01	0.11
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	15	0.11	0.01	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	14	0.21	0.13	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	14	0.21	0.13	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	14	0.21	0.13	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	14	0.21	0.13	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	14	0.21	0.13	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	14	0.21	0.13	0.11
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	14	0.18	0.01	0.18
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	14	0.16	0.03	0.17
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	14	0.16	0.03	0.17
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	14	0.16	0.03	0.17
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	14	0.16	0.01	0.16
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	14	0.16	0.01	0.16
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	14	0.16	0.01	0.16
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	14	0.16	0.02	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	14	0.16	0.02	0.18
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	14	0.14	0.02	0.13
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	14	0.14	0.02	0.13
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	14	0.14	0.02	0.13
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	14	0.14	0.02	0.13
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	14	0.14	0.02	0.13
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	14	0.14	0.02	0.13
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	14	0.14	0.02	0.13
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	14	0.14	0.02	0.13
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	14	0.14	0.02	0.13
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	14	0.14	0.02	0.13
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	14	0.14	0.02	0.13
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	14	0.14	0.02	0.13
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	14	0.14	0.02	0.13
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	14	0.14	0.02	0.13
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	14	0.14	0.02	0.13
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	14	0.12	0.01	0.11
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	14	0.11	0.01	0.11
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	14	0.11	0.01	0.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	13	0.23	0.08	0.22
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	13	0.23	0.08	0.22
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	13	0.23	0.08	0.22
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	13	0.23	0.08	0.22
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	13	0.23	0.08	0.22
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	13	0.23	0.08	0.22
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	13	0.23	0.08	0.22
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	13	0.23	0.08	0.22
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	13	0.23	0.08	0.22
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	13	0.21	0.09	0.24
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	13	0.21	0.09	0.24
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	13	0.18	0.04	0.19
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	13	0.14	0.02	0.13
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	13	0.14	0.02	0.13
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	13	0.14	0.02	0.13
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	13	0.14	0.02	0.13
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	13	0.13	0.03	0.12
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	13	0.13	0.02	0.13
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	13	0.13	0.02	0.13
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	13	0.13	0.02	0.13
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	13	0.12	0.01	0.12
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	13	0.12	0.01	0.12
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	13	0.11	0.01	0.11
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	13	0.11	0.01	0.11
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	13	0.11	0.01	0.11
(1,2223)	1:127:A:GLU:HG2	1:128:A:ALA:H	12	0.38	0.04	0.38
(1,2223)	1:127:A:GLU:HG3	1:128:A:ALA:H	12	0.38	0.04	0.38
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB2	12	0.21	0.05	0.21
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB3	12	0.21	0.05	0.21
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB2	12	0.21	0.05	0.21
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB3	12	0.21	0.05	0.21
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB2	12	0.21	0.05	0.21
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB3	12	0.21	0.05	0.21
(1,2072)	1:86:A:ARG:HA	1:89:A:PHE:H	12	0.15	0.03	0.15
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB2	12	0.14	0.05	0.12
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB3	12	0.14	0.05	0.12
(1,1503)	1:45:A:GLU:HG2	1:44:A:THR:HB	12	0.13	0.01	0.13
(1,1503)	1:45:A:GLU:HG3	1:44:A:THR:HB	12	0.13	0.01	0.13
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB2	12	0.12	0.02	0.12
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB3	12	0.12	0.02	0.12
(1,2362)	1:19:A:PHE:HB2	1:20:A:ASP:H	12	0.12	0.02	0.12
(1,2362)	1:19:A:PHE:HB3	1:20:A:ASP:H	12	0.12	0.02	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB2	12	0.12	0.01	0.12
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB3	12	0.12	0.01	0.12
(1,1052)	1:46:A:ALA:H	1:46:A:ALA:HA	12	0.11	0.01	0.11
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB2	11	0.17	0.05	0.16
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB3	11	0.17	0.05	0.16
(1,1962)	1:123:A:GLU:HA	1:124:A:MET:H	11	0.15	0.03	0.14
(1,969)	1:103:A:ALA:H	1:101:A:SER:HA	11	0.12	0.01	0.12
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD11	11	0.12	0.02	0.12
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD12	11	0.12	0.02	0.12
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD13	11	0.12	0.02	0.12
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD11	11	0.12	0.02	0.12
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD12	11	0.12	0.02	0.12
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD13	11	0.12	0.02	0.12
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD11	11	0.12	0.02	0.12
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD12	11	0.12	0.02	0.12
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD13	11	0.12	0.02	0.12
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB2	11	0.11	0.01	0.11
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB3	11	0.11	0.01	0.11
(1,581)	1:44:A:THR:H	1:46:A:ALA:H	11	0.11	0.01	0.11
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE1	10	0.28	0.02	0.29
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE2	10	0.28	0.02	0.29
(1,2184)	1:8:A:GLN:HG2	1:8:A:GLN:H	10	0.21	0.02	0.21
(1,2184)	1:8:A:GLN:HG3	1:8:A:GLN:H	10	0.21	0.02	0.21
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE1	10	0.18	0.02	0.18
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE2	10	0.18	0.02	0.18
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG21	10	0.13	0.02	0.13
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG22	10	0.13	0.02	0.13
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG23	10	0.13	0.02	0.13
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG21	10	0.13	0.02	0.13
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG22	10	0.13	0.02	0.13
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG23	10	0.13	0.02	0.13
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG21	10	0.13	0.02	0.13
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG22	10	0.13	0.02	0.13
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG23	10	0.13	0.02	0.13
(1,139)	1:124:A:MET:H	1:123:A:GLU:H	10	0.13	0.02	0.13
(1,1832)	1:28:A:THR:HB	1:31:A:GLU:HA	10	0.13	0.01	0.12
(1,930)	1:127:A:GLU:H	1:127:A:GLU:HA	10	0.12	0.01	0.12
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB2	10	0.12	0.01	0.11
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB3	10	0.12	0.01	0.11
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB2	10	0.12	0.01	0.11
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB3	10	0.12	0.01	0.11
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG2	10	0.11	0.01	0.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG3	10	0.11	0.01	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG2	10	0.11	0.01	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG3	10	0.11	0.01	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG2	10	0.11	0.01	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG3	10	0.11	0.01	0.11
(1,668)	1:134:A:GLY:H	1:133:A:ASP:HA	10	0.11	0.01	0.11
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD2	9	0.23	0.1	0.21
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD3	9	0.23	0.1	0.21
(1,2047)	1:100:A:ILE:HG21	1:93:A:ASP:H	9	0.14	0.02	0.13
(1,2047)	1:100:A:ILE:HG22	1:93:A:ASP:H	9	0.14	0.02	0.13
(1,2047)	1:100:A:ILE:HG23	1:93:A:ASP:H	9	0.14	0.02	0.13
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG2	9	0.14	0.02	0.14
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG3	9	0.14	0.02	0.14
(1,2667)	1:77:A:LYS:HA	1:77:A:LYS:H	9	0.12	0.01	0.12
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD11	8	0.14	0.01	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD12	8	0.14	0.01	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD13	8	0.14	0.01	0.14
(1,2658)	1:27:A:ILE:HD11	1:27:A:ILE:H	8	0.14	0.01	0.14
(1,2658)	1:27:A:ILE:HD12	1:27:A:ILE:H	8	0.14	0.01	0.14
(1,2658)	1:27:A:ILE:HD13	1:27:A:ILE:H	8	0.14	0.01	0.14
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD1	8	0.13	0.01	0.13
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD2	8	0.13	0.01	0.13
(1,2293)	1:48:A:LEU:HA	1:51:A:MET:H	8	0.12	0.02	0.12
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG12	8	0.12	0.01	0.12
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG13	8	0.12	0.01	0.12
(1,993)	1:91:A:VAL:H	1:90:A:ARG:HA	8	0.12	0.01	0.11
(1,2062)	1:90:A:ARG:HA	1:91:A:VAL:H	8	0.12	0.01	0.11
(1,2108)	1:34:A:THR:HB	1:31:A:GLU:HA	8	0.11	0.01	0.11
(1,2404)	1:142:A:VAL:HA	1:145:A:MET:H	8	0.11	0.01	0.11
(1,2736)	1:88:A:ALA:HA	1:89:A:PHE:H	8	0.11	0.01	0.11
(1,2077)	1:86:A:ARG:HA	1:87:A:GLU:H	8	0.11	0.01	0.11
(1,2692)	1:9:A:ILE:HB	1:10:A:ALA:H	8	0.11	0.01	0.11
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG11	7	0.18	0.05	0.17
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG12	7	0.18	0.05	0.17
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG13	7	0.18	0.05	0.17
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG11	7	0.18	0.05	0.17
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG12	7	0.18	0.05	0.17
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG13	7	0.18	0.05	0.17
(1,1531)	1:4:A:LEU:HG	1:8:A:GLN:HA	7	0.16	0.04	0.16
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD11	7	0.14	0.03	0.14
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD12	7	0.14	0.03	0.14
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD13	7	0.14	0.03	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD11	7	0.14	0.03	0.14
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD12	7	0.14	0.03	0.14
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD13	7	0.14	0.03	0.14
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG2	7	0.13	0.02	0.13
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG3	7	0.13	0.02	0.13
(1,2764)	1:21:A:LYS:HD2	1:19:A:PHE:HA	7	0.13	0.02	0.13
(1,2764)	1:21:A:LYS:HD3	1:19:A:PHE:HA	7	0.13	0.02	0.13
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB2	7	0.12	0.02	0.12
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB3	7	0.12	0.02	0.12
(1,2221)	1:129:A:ASP:HB2	1:130:A:ILE:H	7	0.12	0.02	0.12
(1,2221)	1:129:A:ASP:HB3	1:130:A:ILE:H	7	0.12	0.02	0.12
(1,2768)	1:21:A:LYS:HA	1:22:A:ASP:H	7	0.12	0.01	0.13
(1,2617)	1:102:A:ALA:HA	1:105:A:LEU:H	7	0.11	0.02	0.1
(1,2632)	1:84:A:GLU:HA	1:84:A:GLU:H	7	0.11	0.0	0.11
(1,655)	1:142:A:VAL:H	1:141:A:PHE:HA	7	0.11	0.01	0.1
(1,2347)	1:21:A:LYS:HE2	1:21:A:LYS:HA	6	0.36	0.01	0.36
(1,2347)	1:21:A:LYS:HE3	1:21:A:LYS:HA	6	0.36	0.01	0.36
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG2	6	0.28	0.1	0.32
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG3	6	0.28	0.1	0.32
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD2	6	0.24	0.01	0.24
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD3	6	0.24	0.01	0.24
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG2	6	0.15	0.03	0.15
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG3	6	0.15	0.03	0.15
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG2	6	0.15	0.03	0.15
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG3	6	0.15	0.03	0.15
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG2	6	0.15	0.03	0.15
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG3	6	0.15	0.03	0.15
(1,2603)	1:112:A:LEU:HD11	1:112:A:LEU:H	6	0.14	0.02	0.14
(1,2603)	1:112:A:LEU:HD12	1:112:A:LEU:H	6	0.14	0.02	0.14
(1,2603)	1:112:A:LEU:HD13	1:112:A:LEU:H	6	0.14	0.02	0.14
(1,2603)	1:112:A:LEU:HD21	1:112:A:LEU:H	6	0.14	0.02	0.14
(1,2603)	1:112:A:LEU:HD22	1:112:A:LEU:H	6	0.14	0.02	0.14
(1,2603)	1:112:A:LEU:HD23	1:112:A:LEU:H	6	0.14	0.02	0.14
(1,2226)	1:125:A:ILE:HA	1:128:A:ALA:H	6	0.13	0.02	0.13
(1,2791)	1:11:A:GLU:HG2	1:11:A:GLU:H	6	0.13	0.02	0.12
(1,2791)	1:11:A:GLU:HG3	1:11:A:GLU:H	6	0.13	0.02	0.12
(1,1569)	1:76:A:MET:HB2	1:75:A:LYS:HA	6	0.12	0.01	0.12
(1,1569)	1:76:A:MET:HB3	1:75:A:LYS:HA	6	0.12	0.01	0.12
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG21	6	0.12	0.0	0.12
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG22	6	0.12	0.0	0.12
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG23	6	0.12	0.0	0.12
(1,2128)	1:26:A:THR:HG21	1:27:A:ILE:H	6	0.12	0.0	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2128)	1:26:A:THR:HG22	1:27:A:ILE:H	6	0.12	0.0	0.12
(1,2128)	1:26:A:THR:HG23	1:27:A:ILE:H	6	0.12	0.0	0.12
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG21	6	0.11	0.01	0.11
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG22	6	0.11	0.01	0.11
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG23	6	0.11	0.01	0.11
(1,1054)	1:46:A:ALA:H	1:44:A:THR:HB	5	0.41	0.01	0.41
(1,2647)	1:44:A:THR:HG21	1:45:A:GLU:H	5	0.22	0.02	0.21
(1,2647)	1:44:A:THR:HG22	1:45:A:GLU:H	5	0.22	0.02	0.21
(1,2647)	1:44:A:THR:HG23	1:45:A:GLU:H	5	0.22	0.02	0.21
(1,892)	1:4:A:LEU:H	1:3:A:GLN:HA	5	0.19	0.01	0.19
(1,2800)	1:3:A:GLN:HA	1:4:A:LEU:H	5	0.19	0.01	0.19
(1,2052)	1:95:A:ASP:HB2	1:96:A:GLY:H	5	0.18	0.06	0.22
(1,2052)	1:95:A:ASP:HB3	1:96:A:GLY:H	5	0.18	0.06	0.22
(1,2642)	1:45:A:GLU:HB2	1:44:A:THR:HB	5	0.17	0.04	0.15
(1,2642)	1:45:A:GLU:HB3	1:44:A:THR:HB	5	0.17	0.04	0.15
(1,1013)	1:75:A:LYS:H	1:74:A:ARG:HG2	5	0.15	0.02	0.16
(1,1013)	1:75:A:LYS:H	1:74:A:ARG:HG3	5	0.15	0.02	0.16
(1,1159)	1:91:A:VAL:HB	1:93:A:ASP:HB2	5	0.14	0.02	0.15
(1,1159)	1:91:A:VAL:HB	1:93:A:ASP:HB3	5	0.14	0.02	0.15
(1,1181)	1:87:A:GLU:HG2	1:85:A:ILE:HB	5	0.14	0.01	0.13
(1,1181)	1:87:A:GLU:HG3	1:85:A:ILE:HB	5	0.14	0.01	0.13
(1,902)	1:143:A:GLN:H	1:140:A:GLU:HA	5	0.13	0.01	0.14
(1,45)	1:115:A:LYS:HG3	1:110:A:THR:HB	5	0.13	0.03	0.12
(1,2725)	1:109:A:MET:HB2	1:114:A:GLU:H	5	0.13	0.03	0.12
(1,2725)	1:109:A:MET:HB3	1:114:A:GLU:H	5	0.13	0.03	0.12
(1,1873)	1:18:A:LEU:HD21	1:19:A:PHE:HA	5	0.11	0.0	0.11
(1,1873)	1:18:A:LEU:HD22	1:19:A:PHE:HA	5	0.11	0.0	0.11
(1,1873)	1:18:A:LEU:HD23	1:19:A:PHE:HA	5	0.11	0.0	0.11
(1,871)	1:20:A:ASP:H	1:19:A:PHE:HA	5	0.11	0.0	0.11
(1,2672)	1:69:A:LEU:HA	1:69:A:LEU:H	5	0.11	0.01	0.11
(1,1066)	1:37:A:ARG:H	1:37:A:ARG:HD2	5	0.1	0.0	0.1
(1,1066)	1:37:A:ARG:H	1:37:A:ARG:HD3	5	0.1	0.0	0.1
(1,2921)	1:75:A:LYS:HD2	2:167:B:LEU:HA	4	0.38	0.06	0.37
(1,2921)	1:75:A:LYS:HD3	2:167:B:LEU:HA	4	0.38	0.06	0.37
(1,2337)	1:79:A:THR:HA	1:80:A:ASP:H	4	0.22	0.01	0.22
(1,951)	1:115:A:LYS:H	1:114:A:GLU:HB2	4	0.15	0.03	0.16
(1,951)	1:115:A:LYS:H	1:114:A:GLU:HB3	4	0.15	0.03	0.16
(1,2744)	1:47:A:GLU:HB2	1:44:A:THR:H	4	0.15	0.03	0.16
(1,2744)	1:47:A:GLU:HB3	1:44:A:THR:H	4	0.15	0.03	0.16
(1,2517)	1:75:A:LYS:HG2	1:71:A:MET:HB2	4	0.14	0.02	0.14
(1,2517)	1:75:A:LYS:HG2	1:71:A:MET:HB3	4	0.14	0.02	0.14
(1,2517)	1:75:A:LYS:HG3	1:71:A:MET:HB2	4	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2517)	1:75:A:LYS:HG3	1:71:A:MET:HB3	4	0.14	0.02	0.14
(1,1679)	1:122:A:ASP:HA	1:125:A:ILE:HG12	4	0.13	0.0	0.13
(1,1679)	1:122:A:ASP:HA	1:125:A:ILE:HG13	4	0.13	0.0	0.13
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD11	4	0.13	0.01	0.12
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD12	4	0.13	0.01	0.12
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD13	4	0.13	0.01	0.12
(1,1922)	1:141:A:PHE:HA	1:141:A:PHE:HZ	4	0.12	0.01	0.12
(1,2930)	1:144:A:MET:HB2	2:154:B:PHE:HB2	4	0.12	0.02	0.11
(1,2930)	1:144:A:MET:HB2	2:154:B:PHE:HB3	4	0.12	0.02	0.11
(1,2930)	1:144:A:MET:HB3	2:154:B:PHE:HB2	4	0.12	0.02	0.11
(1,2930)	1:144:A:MET:HB3	2:154:B:PHE:HB3	4	0.12	0.02	0.11
(1,1942)	1:135:A:GLN:HG2	1:125:A:ILE:HG12	4	0.11	0.01	0.12
(1,1942)	1:135:A:GLN:HG2	1:125:A:ILE:HG13	4	0.11	0.01	0.12
(1,1942)	1:135:A:GLN:HG3	1:125:A:ILE:HG12	4	0.11	0.01	0.12
(1,1942)	1:135:A:GLN:HG3	1:125:A:ILE:HG13	4	0.11	0.01	0.12
(1,698)	1:122:A:ASP:H	1:119:A:GLU:HA	4	0.11	0.01	0.11
(1,1982)	1:119:A:GLU:HA	1:122:A:ASP:H	4	0.11	0.01	0.11
(1,911)	1:139:A:GLU:H	1:139:A:GLU:HA	4	0.11	0.01	0.11
(1,2833)	2:157:B:VAL:H	2:161:B:VAL:H	4	0.11	0.01	0.11
(1,638)	1:7:A:GLU:H	1:5:A:THR:HB	3	0.43	0.01	0.42
(1,438)	1:117:A:THR:H	1:121:A:VAL:HG11	3	0.21	0.08	0.15
(1,438)	1:117:A:THR:H	1:121:A:VAL:HG12	3	0.21	0.08	0.15
(1,438)	1:117:A:THR:H	1:121:A:VAL:HG13	3	0.21	0.08	0.15
(1,1557)	1:27:A:ILE:HG21	1:63:A:ILE:HB	3	0.17	0.04	0.14
(1,1557)	1:27:A:ILE:HG22	1:63:A:ILE:HB	3	0.17	0.04	0.14
(1,1557)	1:27:A:ILE:HG23	1:63:A:ILE:HB	3	0.17	0.04	0.14
(1,2767)	1:73:A:ALA:HB1	1:74:A:ARG:H	3	0.16	0.01	0.15
(1,2767)	1:73:A:ALA:HB2	1:74:A:ARG:H	3	0.16	0.01	0.15
(1,2767)	1:73:A:ALA:HB3	1:74:A:ARG:H	3	0.16	0.01	0.15
(1,2130)	1:26:A:THR:HG21	1:63:A:ILE:HB	3	0.15	0.01	0.15
(1,2130)	1:26:A:THR:HG22	1:63:A:ILE:HB	3	0.15	0.01	0.15
(1,2130)	1:26:A:THR:HG23	1:63:A:ILE:HB	3	0.15	0.01	0.15
(1,1327)	1:9:A:ILE:HD11	1:5:A:THR:HG21	3	0.14	0.03	0.12
(1,1327)	1:9:A:ILE:HD11	1:5:A:THR:HG22	3	0.14	0.03	0.12
(1,1327)	1:9:A:ILE:HD11	1:5:A:THR:HG23	3	0.14	0.03	0.12
(1,1327)	1:9:A:ILE:HD12	1:5:A:THR:HG21	3	0.14	0.03	0.12
(1,1327)	1:9:A:ILE:HD12	1:5:A:THR:HG22	3	0.14	0.03	0.12
(1,1327)	1:9:A:ILE:HD12	1:5:A:THR:HG23	3	0.14	0.03	0.12
(1,1327)	1:9:A:ILE:HD13	1:5:A:THR:HG21	3	0.14	0.03	0.12
(1,1327)	1:9:A:ILE:HD13	1:5:A:THR:HG22	3	0.14	0.03	0.12
(1,1327)	1:9:A:ILE:HD13	1:5:A:THR:HG23	3	0.14	0.03	0.12
(1,1876)	1:67:A:GLU:HB2	1:64:A:ASP:HA	3	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1876)	1:67:A:GLU:HB3	1:64:A:ASP:HA	3	0.14	0.02	0.14
(1,1571)	1:76:A:MET:HB2	1:72:A:MET:HB2	3	0.14	0.03	0.14
(1,1571)	1:76:A:MET:HB2	1:72:A:MET:HB3	3	0.14	0.03	0.14
(1,1571)	1:76:A:MET:HB3	1:72:A:MET:HB2	3	0.14	0.03	0.14
(1,1571)	1:76:A:MET:HB3	1:72:A:MET:HB3	3	0.14	0.03	0.14
(1,2541)	1:56:A:ASP:HA	1:57:A:ALA:H	3	0.14	0.02	0.13
(1,2493)	1:4:A:LEU:HD11	1:73:A:ALA:HB1	3	0.13	0.01	0.13
(1,2493)	1:4:A:LEU:HD11	1:73:A:ALA:HB2	3	0.13	0.01	0.13
(1,2493)	1:4:A:LEU:HD11	1:73:A:ALA:HB3	3	0.13	0.01	0.13
(1,2493)	1:4:A:LEU:HD12	1:73:A:ALA:HB1	3	0.13	0.01	0.13
(1,2493)	1:4:A:LEU:HD12	1:73:A:ALA:HB2	3	0.13	0.01	0.13
(1,2493)	1:4:A:LEU:HD12	1:73:A:ALA:HB3	3	0.13	0.01	0.13
(1,2493)	1:4:A:LEU:HD13	1:73:A:ALA:HB1	3	0.13	0.01	0.13
(1,2493)	1:4:A:LEU:HD13	1:73:A:ALA:HB2	3	0.13	0.01	0.13
(1,2493)	1:4:A:LEU:HD13	1:73:A:ALA:HB3	3	0.13	0.01	0.13
(1,2659)	1:27:A:ILE:HD11	1:63:A:ILE:HB	3	0.13	0.03	0.11
(1,2659)	1:27:A:ILE:HD12	1:63:A:ILE:HB	3	0.13	0.03	0.11
(1,2659)	1:27:A:ILE:HD13	1:63:A:ILE:HB	3	0.13	0.03	0.11
(1,2389)	1:54:A:GLU:HB2	1:55:A:VAL:H	3	0.13	0.01	0.12
(1,2389)	1:54:A:GLU:HB3	1:55:A:VAL:H	3	0.13	0.01	0.12
(1,1400)	1:124:A:MET:HB2	1:121:A:VAL:HG21	3	0.12	0.01	0.13
(1,1400)	1:124:A:MET:HB2	1:121:A:VAL:HG22	3	0.12	0.01	0.13
(1,1400)	1:124:A:MET:HB2	1:121:A:VAL:HG23	3	0.12	0.01	0.13
(1,1400)	1:124:A:MET:HB3	1:121:A:VAL:HG21	3	0.12	0.01	0.13
(1,1400)	1:124:A:MET:HB3	1:121:A:VAL:HG22	3	0.12	0.01	0.13
(1,1400)	1:124:A:MET:HB3	1:121:A:VAL:HG23	3	0.12	0.01	0.13
(1,1792)	1:39:A:LEU:HD11	1:12:A:PHE:HA	3	0.12	0.02	0.11
(1,1792)	1:39:A:LEU:HD12	1:12:A:PHE:HA	3	0.12	0.02	0.11
(1,1792)	1:39:A:LEU:HD13	1:12:A:PHE:HA	3	0.12	0.02	0.11
(1,2570)	1:135:A:GLN:HB2	1:101:A:SER:HB2	3	0.12	0.03	0.11
(1,2570)	1:135:A:GLN:HB2	1:101:A:SER:HB3	3	0.12	0.03	0.11
(1,2570)	1:135:A:GLN:HB3	1:101:A:SER:HB2	3	0.12	0.03	0.11
(1,2570)	1:135:A:GLN:HB3	1:101:A:SER:HB3	3	0.12	0.03	0.11
(1,2214)	1:130:A:ILE:HD11	1:143:A:GLN:HB2	3	0.12	0.01	0.11
(1,2214)	1:130:A:ILE:HD11	1:143:A:GLN:HB3	3	0.12	0.01	0.11
(1,2214)	1:130:A:ILE:HD12	1:143:A:GLN:HB2	3	0.12	0.01	0.11
(1,2214)	1:130:A:ILE:HD12	1:143:A:GLN:HB3	3	0.12	0.01	0.11
(1,2214)	1:130:A:ILE:HD13	1:143:A:GLN:HB2	3	0.12	0.01	0.11
(1,2214)	1:130:A:ILE:HD13	1:143:A:GLN:HB3	3	0.12	0.01	0.11
(1,816)	1:53:A:ASN:H	1:50:A:ASP:HA	3	0.12	0.02	0.11
(1,2289)	1:50:A:ASP:HA	1:53:A:ASN:H	3	0.12	0.02	0.11
(1,2168)	1:13:A:LYS:HD2	1:13:A:LYS:H	3	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2168)	1:13:A:LYS:HD3	1:13:A:LYS:H	3	0.12	0.01	0.12
(1,2504)	1:28:A:THR:HG21	1:28:A:THR:H	3	0.11	0.0	0.11
(1,2504)	1:28:A:THR:HG22	1:28:A:THR:H	3	0.11	0.0	0.11
(1,2504)	1:28:A:THR:HG23	1:28:A:THR:H	3	0.11	0.0	0.11
(1,2633)	1:84:A:GLU:HA	1:85:A:ILE:H	3	0.11	0.0	0.11
(1,2937)	1:145:A:MET:HB2	2:162:B:LYS:HD2	3	0.11	0.0	0.11
(1,2937)	1:145:A:MET:HB2	2:162:B:LYS:HD3	3	0.11	0.0	0.11
(1,2937)	1:145:A:MET:HB3	2:162:B:LYS:HD2	3	0.11	0.0	0.11
(1,2937)	1:145:A:MET:HB3	2:162:B:LYS:HD3	3	0.11	0.0	0.11
(1,2522)	1:69:A:LEU:HG	1:69:A:LEU:HA	2	0.34	0.06	0.34
(1,1996)	1:112:A:LEU:HG	1:112:A:LEU:H	2	0.32	0.03	0.32
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG11	2	0.18	0.04	0.18
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG12	2	0.18	0.04	0.18
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG13	2	0.18	0.04	0.18
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG21	2	0.18	0.04	0.18
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG22	2	0.18	0.04	0.18
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG23	2	0.18	0.04	0.18
(1,410)	1:129:A:ASP:H	1:125:A:ILE:HG12	2	0.17	0.03	0.17
(1,410)	1:129:A:ASP:H	1:125:A:ILE:HG13	2	0.17	0.03	0.17
(1,1953)	1:125:A:ILE:HG12	1:129:A:ASP:H	2	0.17	0.03	0.17
(1,1953)	1:125:A:ILE:HG13	1:129:A:ASP:H	2	0.17	0.03	0.17
(1,606)	1:27:A:ILE:H	1:27:A:ILE:HG21	2	0.16	0.01	0.16
(1,606)	1:27:A:ILE:H	1:27:A:ILE:HG22	2	0.16	0.01	0.16
(1,606)	1:27:A:ILE:H	1:27:A:ILE:HG23	2	0.16	0.01	0.16
(1,1460)	1:100:A:ILE:HB	1:101:A:SER:HB2	2	0.16	0.01	0.16
(1,1460)	1:100:A:ILE:HB	1:101:A:SER:HB3	2	0.16	0.01	0.16
(1,1513)	1:42:A:ASN:HB2	1:37:A:ARG:HG2	2	0.16	0.05	0.16
(1,1513)	1:42:A:ASN:HB2	1:37:A:ARG:HG3	2	0.16	0.05	0.16
(1,1011)	1:75:A:LYS:H	1:75:A:LYS:HB2	2	0.15	0.02	0.15
(1,1011)	1:75:A:LYS:H	1:75:A:LYS:HB3	2	0.15	0.02	0.15
(1,919)	1:135:A:GLN:H	1:135:A:GLN:HB2	2	0.14	0.01	0.14
(1,919)	1:135:A:GLN:H	1:135:A:GLN:HB3	2	0.14	0.01	0.14
(1,2571)	1:135:A:GLN:HB2	1:135:A:GLN:H	2	0.14	0.01	0.14
(1,2571)	1:135:A:GLN:HB3	1:135:A:GLN:H	2	0.14	0.01	0.14
(1,1979)	1:119:A:GLU:HA	1:120:A:GLU:H	2	0.14	0.04	0.14
(1,2212)	1:136:A:VAL:HA	1:140:A:GLU:HB2	2	0.14	0.02	0.14
(1,2212)	1:136:A:VAL:HA	1:140:A:GLU:HB3	2	0.14	0.02	0.14
(1,910)	1:139:A:GLU:H	1:138:A:TYR:HB2	2	0.13	0.03	0.13
(1,910)	1:139:A:GLU:H	1:138:A:TYR:HB3	2	0.13	0.03	0.13
(1,712)	1:114:A:GLU:H	1:112:A:LEU:HB2	2	0.12	0.02	0.12
(1,712)	1:114:A:GLU:H	1:112:A:LEU:HB3	2	0.12	0.02	0.12
(1,895)	1:147:A:ALA:H	1:144:A:MET:HA	2	0.12	0.0	0.12

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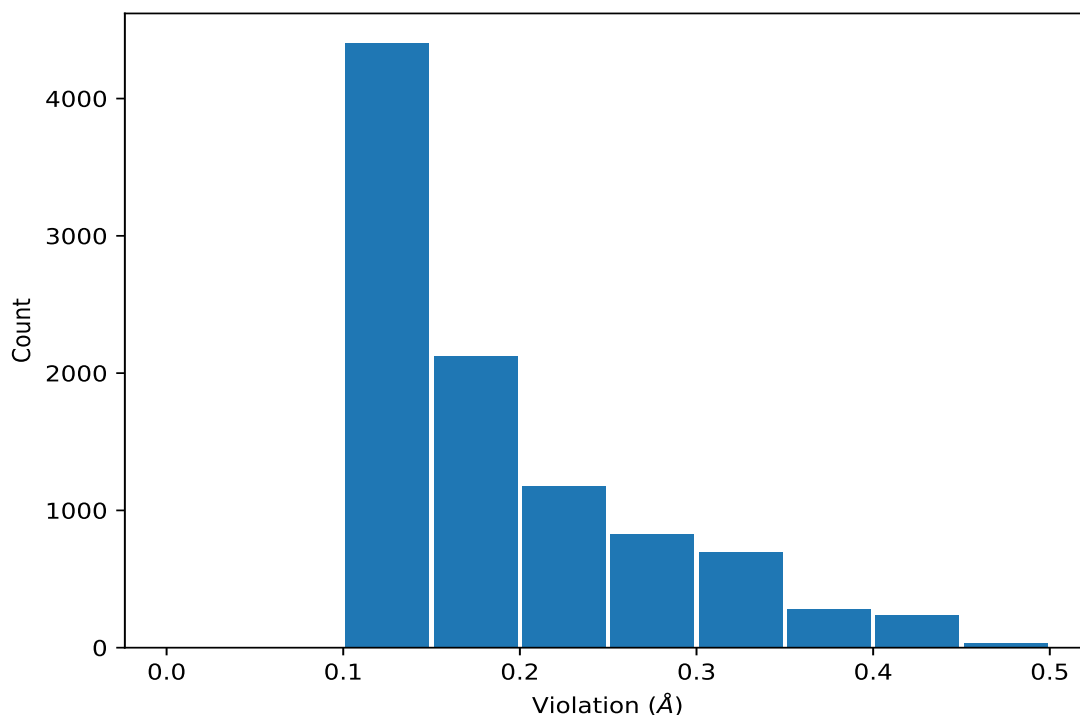
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2202)	1:140:A:GLU:HG2	1:130:A:ILE:HB	2	0.12	0.01	0.12
(1,2202)	1:140:A:GLU:HG3	1:130:A:ILE:HB	2	0.12	0.01	0.12
(1,2511)	1:77:A:LYS:HG2	1:77:A:LYS:H	2	0.12	0.01	0.12
(1,2511)	1:77:A:LYS:HG3	1:77:A:LYS:H	2	0.12	0.01	0.12
(1,2932)	1:144:A:MET:HB2	2:155:B:LYS:HD2	2	0.12	0.01	0.12
(1,2932)	1:144:A:MET:HB2	2:155:B:LYS:HD3	2	0.12	0.01	0.12
(1,2932)	1:144:A:MET:HB3	2:155:B:LYS:HD2	2	0.12	0.01	0.12
(1,2932)	1:144:A:MET:HB3	2:155:B:LYS:HD3	2	0.12	0.01	0.12
(1,2179)	1:55:A:VAL:HB	1:52:A:ILE:HD11	2	0.12	0.02	0.12
(1,2179)	1:55:A:VAL:HB	1:52:A:ILE:HD12	2	0.12	0.02	0.12
(1,2179)	1:55:A:VAL:HB	1:52:A:ILE:HD13	2	0.12	0.02	0.12
(1,2520)	1:69:A:LEU:HG	1:69:A:LEU:H	2	0.12	0.02	0.12
(1,627)	1:15:A:ALA:H	1:14:A:GLU:HB2	2	0.12	0.0	0.12
(1,627)	1:15:A:ALA:H	1:14:A:GLU:HB3	2	0.12	0.0	0.12
(1,2374)	1:14:A:GLU:HB2	1:15:A:ALA:H	2	0.12	0.0	0.12
(1,2374)	1:14:A:GLU:HB3	1:15:A:ALA:H	2	0.12	0.0	0.12
(1,768)	1:86:A:ARG:H	1:85:A:ILE:HD11	2	0.11	0.0	0.11
(1,768)	1:86:A:ARG:H	1:85:A:ILE:HD12	2	0.11	0.0	0.11
(1,768)	1:86:A:ARG:H	1:85:A:ILE:HD13	2	0.11	0.0	0.11
(1,2524)	1:67:A:GLU:HA	1:70:A:THR:HB	2	0.11	0.0	0.11
(1,1031)	1:62:A:THR:H	1:62:A:THR:HB	2	0.11	0.0	0.11
(1,2147)	1:72:A:MET:HA	1:73:A:ALA:H	2	0.11	0.0	0.11
(1,2380)	1:62:A:THR:HB	1:62:A:THR:H	2	0.11	0.0	0.11
(1,2583)	1:125:A:ILE:HD11	1:121:A:VAL:HG11	2	0.1	0.0	0.1
(1,2583)	1:125:A:ILE:HD11	1:121:A:VAL:HG12	2	0.1	0.0	0.1
(1,2583)	1:125:A:ILE:HD11	1:121:A:VAL:HG13	2	0.1	0.0	0.1
(1,2583)	1:125:A:ILE:HD12	1:121:A:VAL:HG11	2	0.1	0.0	0.1
(1,2583)	1:125:A:ILE:HD12	1:121:A:VAL:HG12	2	0.1	0.0	0.1
(1,2583)	1:125:A:ILE:HD12	1:121:A:VAL:HG13	2	0.1	0.0	0.1
(1,2583)	1:125:A:ILE:HD13	1:121:A:VAL:HG11	2	0.1	0.0	0.1
(1,2583)	1:125:A:ILE:HD13	1:121:A:VAL:HG12	2	0.1	0.0	0.1
(1,2583)	1:125:A:ILE:HD13	1:121:A:VAL:HG13	2	0.1	0.0	0.1

¹Number of violated models, ²Standard 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)
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	13	0.5
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	13	0.5
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	13	0.5
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	4	0.49
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	14	0.49
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	18	0.49
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	6	0.48
(1,2921)	1:75:A:LYS:HD2	2:167:B:LEU:HA	16	0.47
(1,2921)	1:75:A:LYS:HD3	2:167:B:LEU:HA	16	0.47
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	11	0.47
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	15	0.47
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	19	0.47
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	14	0.47
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	7	0.46
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	7	0.46
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	7	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	8	0.46
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	8	0.46
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	8	0.46
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	20	0.46
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	1	0.46
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	4	0.45
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	4	0.45
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	4	0.45
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	4	0.45
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	4	0.45
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	4	0.45
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	4	0.45
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	4	0.45
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	2	0.45
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	4	0.45
(1,638)	1:7:A:GLU:H	1:5:A:THR:HB	9	0.45
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	11	0.45
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	17	0.45
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	6	0.44
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	9	0.44
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	10	0.44
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	12	0.44
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	13	0.44
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	14	0.44
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	16	0.44
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	20	0.44
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	3	0.44
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	3	0.44
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	3	0.44
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	20	0.44
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	6	0.44
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	13	0.44
(1,2223)	1:127:A:GLU:HG2	1:128:A:ALA:H	4	0.44
(1,2223)	1:127:A:GLU:HG3	1:128:A:ALA:H	4	0.44
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	2	0.44
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	6	0.44
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	13	0.44
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	17	0.44
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	18	0.44
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	19	0.44
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	6	0.44
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	13	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	9	0.44
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	4	0.44
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	20	0.44
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	1	0.43
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	1	0.43
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	4	0.43
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	1	0.43
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	5	0.43
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	7	0.43
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	8	0.43
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	11	0.43
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	15	0.43
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	17	0.43
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	18	0.43
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	19	0.43
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	5	0.43
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	5	0.43
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	5	0.43
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	11	0.43
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	11	0.43
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	11	0.43
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	5	0.43
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	7	0.43
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	9	0.43
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	14	0.43
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	15	0.43
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	18	0.43
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	19	0.43
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	15	0.43
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	15	0.43
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	15	0.43
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	10	0.43
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	10	0.43
(1,1054)	1:46:A:ALA:H	1:44:A:THR:HB	11	0.43
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	5	0.43
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	7	0.43
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	9	0.43
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	14	0.43
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	15	0.43
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	18	0.43
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	19	0.43
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	11	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	19	0.43
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	20	0.43
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	5	0.43
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	10	0.43
(1,2921)	1:75:A:LYS:HD2	2:167:B:LEU:HA	19	0.42
(1,2921)	1:75:A:LYS:HD3	2:167:B:LEU:HA	19	0.42
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD2	5	0.42
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD3	5	0.42
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	2	0.42
(1,2750)	1:38:A:SER:HA	1:39:A:LEU:H	3	0.42
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	20	0.42
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	20	0.42
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	20	0.42
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	10	0.42
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	1	0.42
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	2	0.42
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	3	0.42
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	8	0.42
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	10	0.42
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	11	0.42
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	12	0.42
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	16	0.42
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	17	0.42
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	20	0.42
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	18	0.42
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	18	0.42
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	18	0.42
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	18	0.42
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	18	0.42
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	18	0.42
(1,2223)	1:127:A:GLU:HG2	1:128:A:ALA:H	11	0.42
(1,2223)	1:127:A:GLU:HG3	1:128:A:ALA:H	11	0.42
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	13	0.42
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	13	0.42
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	13	0.42
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	7	0.42
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	11	0.42
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	15	0.42
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	20	0.42
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	7	0.42
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	1	0.42
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	2	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	3	0.42
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	8	0.42
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	10	0.42
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	11	0.42
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	12	0.42
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	16	0.42
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	17	0.42
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	20	0.42
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	4	0.42
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	5	0.42
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	7	0.42
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	16	0.42
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	6	0.42
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	7	0.42
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	13	0.42
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	15	0.42
(1,638)	1:7:A:GLU:H	1:5:A:THR:HB	1	0.42
(1,638)	1:7:A:GLU:H	1:5:A:THR:HB	19	0.42
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	5	0.41
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	15	0.41
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	15	0.41
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	15	0.41
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	2	0.41
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	9	0.41
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	14	0.41
(1,2522)	1:69:A:LEU:HG	1:69:A:LEU:HA	8	0.41
(1,2468)	1:49:A:GLN:HA	1:50:A:ASP:H	4	0.41
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	8	0.41
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	8	0.41
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	8	0.41
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	1	0.41
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	1	0.41
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	1	0.41
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	4	0.41
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	4	0.41
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	4	0.41
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	14	0.41
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	14	0.41
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	14	0.41
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	19	0.41
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	19	0.41
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	19	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	1	0.41
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	3	0.41
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	14	0.41
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	20	0.41
(1,1054)	1:46:A:ALA:H	1:44:A:THR:HB	14	0.41
(1,1054)	1:46:A:ALA:H	1:44:A:THR:HB	20	0.41
(1,1048)	1:50:A:ASP:H	1:49:A:GLN:HA	4	0.41
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	8	0.41
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	12	0.41
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	14	0.41
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	16	0.41
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	17	0.41
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	3	0.41
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	11	0.4
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	11	0.4
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	11	0.4
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	11	0.4
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	11	0.4
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	11	0.4
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	1	0.4
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	1	0.4
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	1	0.4
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	2	0.4
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	2	0.4
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	2	0.4
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	9	0.4
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	9	0.4
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	9	0.4
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	19	0.4
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	19	0.4
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	19	0.4
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	13	0.4
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	17	0.4
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	4	0.4
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	4	0.4
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	17	0.4
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	17	0.4
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	17	0.4
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	17	0.4
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	17	0.4
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	17	0.4
(1,2223)	1:127:A:GLU:HG2	1:128:A:ALA:H	5	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2223)	1:127:A:GLU:HG3	1:128:A:ALA:H	5	0.4
(1,2223)	1:127:A:GLU:HG2	1:128:A:ALA:H	7	0.4
(1,2223)	1:127:A:GLU:HG3	1:128:A:ALA:H	7	0.4
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	3	0.4
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	3	0.4
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	3	0.4
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	6	0.4
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	6	0.4
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	6	0.4
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	7	0.4
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	7	0.4
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	7	0.4
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	8	0.4
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	8	0.4
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	8	0.4
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	10	0.4
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	10	0.4
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	10	0.4
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	11	0.4
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	11	0.4
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	11	0.4
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	12	0.4
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	12	0.4
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	12	0.4
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	15	0.4
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	15	0.4
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	15	0.4
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	17	0.4
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	17	0.4
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	17	0.4
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	20	0.4
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	20	0.4
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	20	0.4
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	9	0.4
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	12	0.4
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	16	0.4
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	14	0.4
(1,1054)	1:46:A:ALA:H	1:44:A:THR:HB	7	0.4
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	15	0.4
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	2	0.4
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	2	0.4
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	5	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	8	0.4
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD2	3	0.39
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD3	3	0.39
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	16	0.39
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	1	0.39
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	2	0.39
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	3	0.39
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	6	0.39
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	9	0.39
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	11	0.39
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	12	0.39
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	16	0.39
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	17	0.39
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	17	0.39
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	17	0.39
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	17	0.39
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	3	0.39
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	6	0.39
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	16	0.39
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	2	0.39
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	2	0.39
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	2	0.39
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	3	0.39
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	3	0.39
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	3	0.39
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	9	0.39
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	9	0.39
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	9	0.39
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	11	0.39
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	11	0.39
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	11	0.39
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG2	17	0.39
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG3	17	0.39
(1,2223)	1:127:A:GLU:HG2	1:128:A:ALA:H	3	0.39
(1,2223)	1:127:A:GLU:HG3	1:128:A:ALA:H	3	0.39
(1,2223)	1:127:A:GLU:HG2	1:128:A:ALA:H	15	0.39
(1,2223)	1:127:A:GLU:HG3	1:128:A:ALA:H	15	0.39
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	1	0.39
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	1	0.39
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	12	0.39
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	12	0.39
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	2	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	2	0.39
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	2	0.39
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	5	0.39
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	5	0.39
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	5	0.39
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	9	0.39
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	9	0.39
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	9	0.39
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	16	0.39
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	16	0.39
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	16	0.39
(1,2044)	1:100:A:ILE:HG21	1:100:A:ILE:H	18	0.39
(1,2044)	1:100:A:ILE:HG22	1:100:A:ILE:H	18	0.39
(1,2044)	1:100:A:ILE:HG23	1:100:A:ILE:H	18	0.39
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	5	0.39
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	5	0.39
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	16	0.39
(1,1054)	1:46:A:ALA:H	1:44:A:THR:HB	10	0.39
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	6	0.39
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	11	0.39
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	11	0.39
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	3	0.39
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	18	0.39
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	15	0.39
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	8	0.39
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	16	0.39
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	5	0.38
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	7	0.38
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	10	0.38
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	13	0.38
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	20	0.38
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	12	0.38
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	12	0.38
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	12	0.38
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	14	0.38
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	14	0.38
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	14	0.38
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	18	0.38
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	18	0.38
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	18	0.38
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	7	0.38
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	19	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	5	0.38
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	5	0.38
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	5	0.38
(1,2347)	1:21:A:LYS:HE2	1:21:A:LYS:HA	20	0.38
(1,2347)	1:21:A:LYS:HE3	1:21:A:LYS:HA	20	0.38
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	6	0.38
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	6	0.38
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	6	0.38
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	6	0.38
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	6	0.38
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	6	0.38
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	11	0.38
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	11	0.38
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	11	0.38
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	11	0.38
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	11	0.38
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	11	0.38
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	1	0.38
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	1	0.38
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	1	0.38
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	2	0.38
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	2	0.38
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	3	0.38
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	3	0.38
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	4	0.38
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	4	0.38
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	8	0.38
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	7	0.38
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	7	0.38
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	7	0.38
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	10	0.38
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	18	0.38
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	10	0.38
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	18	0.38
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	1	0.38
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	15	0.38
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	18	0.38
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	4	0.38
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	4	0.38
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	4	0.38
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	8	0.38
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	8	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	8	0.38
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	18	0.38
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	18	0.38
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	18	0.38
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	3	0.37
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	8	0.37
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	15	0.37
(1,2625)	1:95:A:ASP:HA	1:96:A:GLY:H	19	0.37
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	4	0.37
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	15	0.37
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	2	0.37
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	2	0.37
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	1	0.37
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	1	0.37
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	1	0.37
(1,2347)	1:21:A:LYS:HE2	1:21:A:LYS:HA	15	0.37
(1,2347)	1:21:A:LYS:HE3	1:21:A:LYS:HA	15	0.37
(1,2223)	1:127:A:GLU:HG2	1:128:A:ALA:H	2	0.37
(1,2223)	1:127:A:GLU:HG3	1:128:A:ALA:H	2	0.37
(1,2223)	1:127:A:GLU:HG2	1:128:A:ALA:H	8	0.37
(1,2223)	1:127:A:GLU:HG3	1:128:A:ALA:H	8	0.37
(1,2223)	1:127:A:GLU:HG2	1:128:A:ALA:H	12	0.37
(1,2223)	1:127:A:GLU:HG3	1:128:A:ALA:H	12	0.37
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	10	0.37
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	10	0.37
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	10	0.37
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	16	0.37
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	16	0.37
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	16	0.37
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	15	0.37
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	15	0.37
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	15	0.37
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	5	0.37
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	5	0.37
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	6	0.37
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	6	0.37
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	8	0.37
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	8	0.37
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	13	0.37
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	13	0.37
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	17	0.37
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	17	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	18	0.37
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	18	0.37
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	4	0.37
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	4	0.37
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	4	0.37
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	13	0.37
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	13	0.37
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	13	0.37
(1,1999)	1:112:A:LEU:HG	1:108:A:VAL:HG11	1	0.37
(1,1999)	1:112:A:LEU:HG	1:108:A:VAL:HG12	1	0.37
(1,1999)	1:112:A:LEU:HG	1:108:A:VAL:HG13	1	0.37
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	4	0.37
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	20	0.37
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	20	0.37
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	19	0.37
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	19	0.37
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	4	0.37
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	6	0.37
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	16	0.37
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	16	0.37
(1,654)	1:142:A:VAL:H	1:140:A:GLU:HA	1	0.37
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	2	0.37
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	7	0.37
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	12	0.37
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	19	0.37
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	8	0.37
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	12	0.37
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	12	0.37
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	12	0.37
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	15	0.37
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	15	0.37
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	15	0.37
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	17	0.37
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	17	0.37
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	17	0.37
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	20	0.36
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	17	0.36
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	17	0.36
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	19	0.36
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	19	0.36
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	19	0.36
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	19	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	19	0.36
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	19	0.36
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	5	0.36
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	8	0.36
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	12	0.36
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	1	0.36
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	7	0.36
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	7	0.36
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	2	0.36
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	2	0.36
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	2	0.36
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	12	0.36
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	12	0.36
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	12	0.36
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	13	0.36
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	13	0.36
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	13	0.36
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	17	0.36
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	17	0.36
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	17	0.36
(1,2347)	1:21:A:LYS:HE2	1:21:A:LYS:HA	7	0.36
(1,2347)	1:21:A:LYS:HE3	1:21:A:LYS:HA	7	0.36
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	5	0.36
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	5	0.36
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	5	0.36
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	9	0.36
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	9	0.36
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	9	0.36
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	14	0.36
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	14	0.36
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	14	0.36
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	7	0.36
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	7	0.36
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	9	0.36
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	9	0.36
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	14	0.36
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	14	0.36
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	20	0.36
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	20	0.36
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	4	0.36
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	5	0.36
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	8	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2017)	1:106:A:ARG:HA	1:108:A:VAL:H	4	0.36
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	18	0.36
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	18	0.36
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	18	0.36
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	2	0.36
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	2	0.36
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	2	0.36
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	2	0.36
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	2	0.36
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	2	0.36
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	2	0.36
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	2	0.36
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	2	0.36
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	13	0.36
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	18	0.36
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	19	0.36
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	3	0.36
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	9	0.36
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	13	0.36
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	2	0.36
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	2	0.36
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	2	0.36
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	3	0.36
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	3	0.36
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	3	0.36
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	20	0.36
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	20	0.36
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	20	0.36
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	4	0.35
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	6	0.35
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	6	0.35
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	6	0.35
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	16	0.35
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	16	0.35
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	16	0.35
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	1	0.35
(1,2602)	1:114:A:GLU:HA	1:115:A:LYS:H	2	0.35
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	1	0.35
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	1	0.35
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	1	0.35
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	1	0.35
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	2	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	2	0.35
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	4	0.35
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	4	0.35
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	5	0.35
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	5	0.35
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	6	0.35
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	6	0.35
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	9	0.35
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	9	0.35
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	10	0.35
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	10	0.35
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	11	0.35
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	11	0.35
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	12	0.35
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	12	0.35
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	13	0.35
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	13	0.35
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	14	0.35
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	14	0.35
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	17	0.35
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	17	0.35
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	18	0.35
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	18	0.35
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	18	0.35
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	20	0.35
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	20	0.35
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	20	0.35
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	14	0.35
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	14	0.35
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	14	0.35
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	19	0.35
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	19	0.35
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	19	0.35
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	2	0.35
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	2	0.35
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	2	0.35
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	18	0.35
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	18	0.35
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	18	0.35
(1,2347)	1:21:A:LYS:HE2	1:21:A:LYS:HA	12	0.35
(1,2347)	1:21:A:LYS:HE3	1:21:A:LYS:HA	12	0.35
(1,2347)	1:21:A:LYS:HE2	1:21:A:LYS:HA	16	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2347)	1:21:A:LYS:HE3	1:21:A:LYS:HA	16	0.35
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG2	19	0.35
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG3	19	0.35
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	6	0.35
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	6	0.35
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	6	0.35
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	12	0.35
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	12	0.35
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	12	0.35
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	17	0.35
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	17	0.35
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	17	0.35
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	2	0.35
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	16	0.35
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	4	0.35
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	4	0.35
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	3	0.35
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	3	0.35
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	3	0.35
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	8	0.35
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	8	0.35
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	8	0.35
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	10	0.35
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	10	0.35
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	10	0.35
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	19	0.35
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	19	0.35
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	19	0.35
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	20	0.35
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	20	0.35
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	20	0.35
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	2	0.35
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	4	0.35
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	4	0.35
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	4	0.35
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	15	0.35
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	1	0.35
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	2	0.35
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	10	0.35
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	13	0.35
(1,953)	1:115:A:LYS:H	1:114:A:GLU:HA	2	0.35
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	2	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	1	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	1	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	1	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	1	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	5	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	5	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	5	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	7	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	7	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	7	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	9	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	9	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	9	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	11	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	11	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	11	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	13	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	13	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	13	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	19	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	19	0.35
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	19	0.35
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	10	0.34
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	14	0.34
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	4	0.34
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	4	0.34
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	5	0.34
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	5	0.34
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	6	0.34
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	6	0.34
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	10	0.34
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	10	0.34
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	11	0.34
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	11	0.34
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	14	0.34
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	14	0.34
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	17	0.34
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	17	0.34
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	19	0.34
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	19	0.34
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	9	0.34
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	15	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	15	0.34
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	15	0.34
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	15	0.34
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	15	0.34
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	15	0.34
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	11	0.34
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	8	0.34
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	8	0.34
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	16	0.34
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	16	0.34
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	20	0.34
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	20	0.34
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	16	0.34
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	14	0.34
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	14	0.34
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	14	0.34
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	7	0.34
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	7	0.34
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	7	0.34
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	1	0.34
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	1	0.34
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	1	0.34
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	7	0.34
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	7	0.34
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	7	0.34
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	9	0.34
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	9	0.34
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	9	0.34
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	16	0.34
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	16	0.34
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	16	0.34
(1,2347)	1:21:A:LYS:HE2	1:21:A:LYS:HA	18	0.34
(1,2347)	1:21:A:LYS:HE3	1:21:A:LYS:HA	18	0.34
(1,2223)	1:127:A:GLU:HG2	1:128:A:ALA:H	9	0.34
(1,2223)	1:127:A:GLU:HG3	1:128:A:ALA:H	9	0.34
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	13	0.34
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	13	0.34
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	13	0.34
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	20	0.34
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	20	0.34
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	20	0.34
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	3	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	6	0.34
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	7	0.34
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	17	0.34
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	10	0.34
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	10	0.34
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	10	0.34
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	11	0.34
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	11	0.34
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	11	0.34
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	9	0.34
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	12	0.34
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	16	0.34
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	16	0.34
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	5	0.34
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	5	0.34
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	5	0.34
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	11	0.34
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	11	0.34
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	11	0.34
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	14	0.34
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	14	0.34
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	14	0.34
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	17	0.34
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	17	0.34
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	17	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	1	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	4	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	5	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	7	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	10	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	11	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	12	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	13	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	14	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	15	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	16	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	17	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	18	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	19	0.34
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	20	0.34
(1,1996)	1:112:A:LEU:HG	1:112:A:LEU:H	1	0.34
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	2	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	2	0.34
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	2	0.34
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	2	0.34
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	9	0.34
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	12	0.34
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	3	0.34
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	9	0.34
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	12	0.34
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	17	0.34
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	14	0.34
(1,618)	1:23:A:GLY:H	1:21:A:LYS:HA	6	0.34
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	6	0.34
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	11	0.34
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	19	0.34
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	14	0.34
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	14	0.34
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	14	0.34
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	16	0.34
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	16	0.34
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	16	0.34
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	19	0.33
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	19	0.33
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	3	0.33
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	6	0.33
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	7	0.33
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	8	0.33
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	9	0.33
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	11	0.33
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	16	0.33
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	18	0.33
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	19	0.33
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	20	0.33
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	1	0.33
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	1	0.33
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	2	0.33
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	2	0.33
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	3	0.33
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	3	0.33
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	8	0.33
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	8	0.33
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	9	0.33
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	9	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	13	0.33
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	13	0.33
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	18	0.33
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	4	0.33
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	18	0.33
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	18	0.33
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	19	0.33
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	19	0.33
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	10	0.33
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	19	0.33
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	19	0.33
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	19	0.33
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	8	0.33
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	8	0.33
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	8	0.33
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	20	0.33
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	20	0.33
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	20	0.33
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	6	0.33
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	6	0.33
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	10	0.33
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	10	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	3	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	3	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	3	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	10	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	10	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	10	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	11	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	11	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	11	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	14	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	14	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	14	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	15	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	15	0.33
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	15	0.33
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	13	0.33
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	13	0.33
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	13	0.33
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	13	0.33
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	13	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	13	0.33
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG2	12	0.33
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG3	12	0.33
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	4	0.33
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	4	0.33
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	4	0.33
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	7	0.33
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	7	0.33
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	7	0.33
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	11	0.33
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	11	0.33
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	11	0.33
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	19	0.33
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	19	0.33
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	19	0.33
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	11	0.33
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	11	0.33
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	11	0.33
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	11	0.33
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	11	0.33
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	11	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	2	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	2	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	2	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	3	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	3	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	3	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	4	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	4	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	4	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	5	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	5	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	5	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	9	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	9	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	9	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	14	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	14	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	14	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	20	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	20	0.33
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	20	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	6	0.33
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	10	0.33
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	11	0.33
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	17	0.33
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	19	0.33
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	9	0.33
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	9	0.33
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	9	0.33
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	12	0.33
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	12	0.33
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	12	0.33
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	15	0.33
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	15	0.33
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	15	0.33
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	3	0.33
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	8	0.33
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	9	0.33
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	4	0.33
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	4	0.33
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	6	0.33
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	11	0.33
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	19	0.33
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	8	0.33
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	8	0.33
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	8	0.33
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	8	0.33
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	8	0.33
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	8	0.33
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	8	0.33
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	8	0.33
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	8	0.33
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	11	0.33
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	11	0.33
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	11	0.33
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	11	0.33
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	11	0.33
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	11	0.33
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	11	0.33
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	11	0.33
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	11	0.33
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	19	0.33
(1,1059)	1:41:A:GLN:H	1:40:A:GLY:HA2	8	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	3	0.33
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	6	0.33
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	7	0.33
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	8	0.33
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	9	0.33
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	11	0.33
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	16	0.33
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	18	0.33
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	19	0.33
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	20	0.33
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	19	0.33
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	19	0.33
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	2	0.33
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	3	0.33
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	4	0.33
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	9	0.33
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	13	0.33
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	6	0.33
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	6	0.33
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	6	0.33
(1,438)	1:117:A:THR:H	1:121:A:VAL:HG11	18	0.33
(1,438)	1:117:A:THR:H	1:121:A:VAL:HG12	18	0.33
(1,438)	1:117:A:THR:H	1:121:A:VAL:HG13	18	0.33
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	1	0.33
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	6	0.33
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	17	0.32
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	17	0.32
(1,2921)	1:75:A:LYS:HD2	2:167:B:LEU:HA	8	0.32
(1,2921)	1:75:A:LYS:HD3	2:167:B:LEU:HA	8	0.32
(1,2921)	1:75:A:LYS:HD2	2:167:B:LEU:HA	11	0.32
(1,2921)	1:75:A:LYS:HD3	2:167:B:LEU:HA	11	0.32
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	17	0.32
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	19	0.32
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	1	0.32
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	1	0.32
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	1	0.32
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	2	0.32
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	4	0.32
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	5	0.32
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	10	0.32
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	12	0.32
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	13	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	15	0.32
(1,2794)	1:57:A:ALA:HA	1:58:A:ASP:H	17	0.32
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	3	0.32
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	11	0.32
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	13	0.32
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	14	0.32
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	17	0.32
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	2	0.32
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	2	0.32
(1,2615)	1:105:A:LEU:HA	1:108:A:VAL:H	18	0.32
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	6	0.32
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	15	0.32
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	15	0.32
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	6	0.32
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	4	0.32
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	4	0.32
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	9	0.32
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	9	0.32
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	12	0.32
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	12	0.32
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	14	0.32
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	14	0.32
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	16	0.32
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	16	0.32
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	17	0.32
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	17	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	4	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	4	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	4	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	6	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	6	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	6	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	12	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	12	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	12	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	13	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	13	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	13	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	17	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	17	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	17	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	19	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	19	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	19	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	20	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	20	0.32
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	20	0.32
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	2	0.32
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	2	0.32
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	2	0.32
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG2	13	0.32
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG3	13	0.32
(1,2223)	1:127:A:GLU:HG2	1:128:A:ALA:H	10	0.32
(1,2223)	1:127:A:GLU:HG3	1:128:A:ALA:H	10	0.32
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	9	0.32
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	9	0.32
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	11	0.32
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	11	0.32
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	3	0.32
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	3	0.32
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	3	0.32
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	19	0.32
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	6	0.32
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	12	0.32
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	16	0.32
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	15	0.32
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	15	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	1	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	1	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	1	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	6	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	6	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	6	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	7	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	7	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	7	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	8	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	8	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	8	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	12	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	12	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	12	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	13	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	13	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	13	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	16	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	16	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	16	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	17	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	17	0.32
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	17	0.32
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	1	0.32
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	3	0.32
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	14	0.32
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	15	0.32
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	15	0.32
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	6	0.32
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	6	0.32
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	6	0.32
(1,2001)	1:111:A:ASN:HB3	1:112:A:LEU:HA	6	0.32
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	3	0.32
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	20	0.32
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	1	0.32
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	2	0.32
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	4	0.32
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	5	0.32
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	10	0.32
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	12	0.32
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	13	0.32
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	15	0.32
(1,1039)	1:58:A:ASP:H	1:57:A:ALA:HA	17	0.32
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	12	0.32
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	17	0.32
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	9	0.32
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	9	0.32
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	6	0.32
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	6	0.32
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	8	0.32
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	8	0.32
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	15	0.32
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	15	0.32
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	20	0.32
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	7	0.32
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	5	0.32
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	7	0.32
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	12	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	14	0.32
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	16	0.32
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	18	0.32
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	20	0.32
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB2	10	0.31
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB3	10	0.31
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB2	10	0.31
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB3	10	0.31
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB2	10	0.31
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB3	10	0.31
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	7	0.31
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	7	0.31
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	14	0.31
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	14	0.31
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	18	0.31
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	18	0.31
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	16	0.31
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	16	0.31
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	3	0.31
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	8	0.31
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	9	0.31
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	12	0.31
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	8	0.31
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	5	0.31
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	10	0.31
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	5	0.31
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	5	0.31
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	16	0.31
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	16	0.31
(1,2620)	1:100:A:ILE:HD11	1:92:A:PHE:H	10	0.31
(1,2620)	1:100:A:ILE:HD12	1:92:A:PHE:H	10	0.31
(1,2620)	1:100:A:ILE:HD13	1:92:A:PHE:H	10	0.31
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	2	0.31
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	13	0.31
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	13	0.31
(1,2533)	1:13:A:LYS:HB2	1:14:A:GLU:H	3	0.31
(1,2533)	1:13:A:LYS:HB3	1:14:A:GLU:H	3	0.31
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	1	0.31
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	3	0.31
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	7	0.31
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	1	0.31
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	1	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	1	0.31
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	2	0.31
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	2	0.31
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	11	0.31
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	11	0.31
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	5	0.31
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	5	0.31
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	5	0.31
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG21	8	0.31
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG22	8	0.31
(1,2421)	1:118:A:ASP:HA	1:117:A:THR:HG23	8	0.31
(1,2223)	1:127:A:GLU:HG2	1:128:A:ALA:H	6	0.31
(1,2223)	1:127:A:GLU:HG3	1:128:A:ALA:H	6	0.31
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	2	0.31
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	2	0.31
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	2	0.31
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	8	0.31
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	8	0.31
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	8	0.31
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	15	0.31
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	15	0.31
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	15	0.31
(1,2183)	1:9:A:ILE:HG21	1:9:A:ILE:H	18	0.31
(1,2183)	1:9:A:ILE:HG22	1:9:A:ILE:H	18	0.31
(1,2183)	1:9:A:ILE:HG23	1:9:A:ILE:H	18	0.31
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	4	0.31
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	5	0.31
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	12	0.31
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	18	0.31
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	11	0.31
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	14	0.31
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	17	0.31
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	16	0.31
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	16	0.31
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB2	19	0.31
(1,2098)	1:46:A:ALA:HA	1:45:A:GLU:HB3	19	0.31
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE1	4	0.31
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE2	4	0.31
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	10	0.31
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	10	0.31
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	10	0.31
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	15	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	15	0.31
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	15	0.31
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	18	0.31
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	18	0.31
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	18	0.31
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB1	19	0.31
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB2	19	0.31
(1,2037)	1:104:A:GLU:HA	1:103:A:ALA:HB3	19	0.31
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	7	0.31
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	13	0.31
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	15	0.31
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	18	0.31
(1,2033)	1:104:A:GLU:HA	1:108:A:VAL:H	20	0.31
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	16	0.31
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	16	0.31
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	16	0.31
(1,1997)	1:112:A:LEU:HG	1:112:A:LEU:HA	6	0.31
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	12	0.31
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	12	0.31
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	3	0.31
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	3	0.31
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	3	0.31
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	3	0.31
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	3	0.31
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	3	0.31
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	3	0.31
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	3	0.31
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	3	0.31
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	2	0.31
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	11	0.31
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	19	0.31
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	19	0.31
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	15	0.31
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	3	0.31
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	8	0.31
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	9	0.31
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	12	0.31
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	3	0.31
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	13	0.31
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	14	0.31
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	12	0.31
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	12	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	16	0.31
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	16	0.31
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	5	0.31
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	5	0.31
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	5	0.31
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	5	0.31
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	5	0.31
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	5	0.31
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	10	0.31
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	15	0.31
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG11	10	0.31
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG12	10	0.31
(1,598)	1:35:A:VAL:H	1:35:A:VAL:HG13	10	0.31
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	5	0.3
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	5	0.3
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	10	0.3
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	10	0.3
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	1	0.3
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	6	0.3
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	11	0.3
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	12	0.3
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	20	0.3
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	1	0.3
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	2	0.3
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	13	0.3
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	17	0.3
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	2	0.3
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	15	0.3
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	19	0.3
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	7	0.3
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	16	0.3
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	7	0.3
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	7	0.3
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	15	0.3
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	17	0.3
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	17	0.3
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	5	0.3
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	9	0.3
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	13	0.3
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	19	0.3
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	20	0.3
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	15	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	15	0.3
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	7	0.3
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	7	0.3
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	7	0.3
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	1	0.3
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	2	0.3
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	8	0.3
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	10	0.3
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	13	0.3
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	14	0.3
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	16	0.3
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	20	0.3
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	1	0.3
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	9	0.3
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	13	0.3
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE1	19	0.3
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE2	19	0.3
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	19	0.3
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	19	0.3
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	19	0.3
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	19	0.3
(1,1987)	1:116:A:LEU:HD11	1:114:A:GLU:HB2	4	0.3
(1,1987)	1:116:A:LEU:HD11	1:114:A:GLU:HB3	4	0.3
(1,1987)	1:116:A:LEU:HD12	1:114:A:GLU:HB2	4	0.3
(1,1987)	1:116:A:LEU:HD12	1:114:A:GLU:HB3	4	0.3
(1,1987)	1:116:A:LEU:HD13	1:114:A:GLU:HB2	4	0.3
(1,1987)	1:116:A:LEU:HD13	1:114:A:GLU:HB3	4	0.3
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	6	0.3
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	6	0.3
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	18	0.3
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	18	0.3
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	7	0.3
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	13	0.3
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	1	0.3
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	1	0.3
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	1	0.3
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	2	0.3
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	13	0.3
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	17	0.3
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	2	0.3
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	7	0.3
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	11	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	12	0.3
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	2	0.3
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	9	0.3
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	11	0.3
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	7	0.3
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	7	0.3
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	18	0.3
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	18	0.3
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	10	0.3
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	10	0.3
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	12	0.3
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	12	0.3
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	12	0.3
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	12	0.3
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	12	0.3
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	12	0.3
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	17	0.3
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	17	0.3
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	17	0.3
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	17	0.3
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	17	0.3
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	17	0.3
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	2	0.3
(1,615)	1:23:A:GLY:H	1:24:A:ASP:HB2	17	0.3
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	1	0.3
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	2	0.3
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB2	18	0.29
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB3	18	0.29
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB2	18	0.29
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB3	18	0.29
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB2	18	0.29
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB3	18	0.29
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	3	0.29
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	3	0.29
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	8	0.29
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	14	0.29
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	9	0.29
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	9	0.29
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	18	0.29
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	7	0.29
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	1	0.29
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	12	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	11	0.29
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	16	0.29
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	6	0.29
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	6	0.29
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	11	0.29
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	11	0.29
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	2	0.29
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	14	0.29
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	2	0.29
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	2	0.29
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	2	0.29
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	18	0.29
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	18	0.29
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	3	0.29
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	3	0.29
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	3	0.29
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	2	0.29
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	2	0.29
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	9	0.29
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	11	0.29
(1,2164)	1:15:A:ALA:HA	1:35:A:VAL:HB	15	0.29
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	4	0.29
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	5	0.29
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE1	3	0.29
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE2	3	0.29
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE1	6	0.29
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE2	6	0.29
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE1	9	0.29
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE2	9	0.29
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE1	12	0.29
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE2	12	0.29
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	9	0.29
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	9	0.29
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	1	0.29
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	1	0.29
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	1	0.29
(1,2008)	1:108:A:VAL:HG21	1:109:A:MET:H	2	0.29
(1,2008)	1:108:A:VAL:HG22	1:109:A:MET:H	2	0.29
(1,2008)	1:108:A:VAL:HG23	1:109:A:MET:H	2	0.29
(1,1996)	1:112:A:LEU:HG	1:112:A:LEU:H	6	0.29
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	8	0.29
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	8	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	8	0.29
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	8	0.29
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	12	0.29
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	12	0.29
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	12	0.29
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	12	0.29
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	17	0.29
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	17	0.29
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	17	0.29
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	17	0.29
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	7	0.29
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	7	0.29
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	8	0.29
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	8	0.29
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	10	0.29
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	15	0.29
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	5	0.29
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	15	0.29
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	15	0.29
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	15	0.29
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	15	0.29
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	15	0.29
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	15	0.29
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	15	0.29
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	15	0.29
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	15	0.29
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	15	0.29
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	15	0.29
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	18	0.29
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	1	0.29
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	4	0.29
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	14	0.29
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	3	0.29
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	3	0.29
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	5	0.29
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	5	0.29
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	10	0.29
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	10	0.29
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	19	0.29
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	19	0.29
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	2	0.29
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	2	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	13	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	2	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	2	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	2	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	2	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	2	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	2	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	6	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	6	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	6	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	6	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	6	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	6	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	8	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	8	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	8	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	8	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	8	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	8	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	11	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	11	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	11	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	11	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	11	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	11	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	13	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	13	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	13	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	13	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	13	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	13	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	16	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	16	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	16	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	16	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	16	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	16	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	19	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	19	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	19	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	19	0.29
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	19	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	19	0.29
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	5	0.28
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	5	0.28
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	5	0.28
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD2	11	0.28
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD3	11	0.28
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	15	0.28
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	4	0.28
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	6	0.28
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	6	0.28
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	12	0.28
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	13	0.28
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	17	0.28
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	8	0.28
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	8	0.28
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	9	0.28
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	9	0.28
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	10	0.28
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	10	0.28
(1,2522)	1:69:A:LEU:HG	1:69:A:LEU:HA	19	0.28
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	8	0.28
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	11	0.28
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	12	0.28
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	17	0.28
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	18	0.28
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	16	0.28
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	16	0.28
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	16	0.28
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	8	0.28
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	8	0.28
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	8	0.28
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	12	0.28
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	12	0.28
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	12	0.28
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	16	0.28
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	16	0.28
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	16	0.28
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	15	0.28
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	20	0.28
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE1	5	0.28
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE2	5	0.28
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE1	15	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE2	15	0.28
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	3	0.28
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	4	0.28
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	7	0.28
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	11	0.28
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	13	0.28
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	15	0.28
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	6	0.28
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	6	0.28
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	20	0.28
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	20	0.28
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	5	0.28
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	5	0.28
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	5	0.28
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	5	0.28
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	13	0.28
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	13	0.28
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	13	0.28
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	13	0.28
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	5	0.28
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	5	0.28
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	5	0.28
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	7	0.28
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	7	0.28
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	7	0.28
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	8	0.28
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	8	0.28
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	8	0.28
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	14	0.28
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	14	0.28
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	16	0.28
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	16	0.28
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	20	0.28
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	20	0.28
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	3	0.28
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	3	0.28
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	20	0.28
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	1	0.28
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	3	0.28
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	3	0.28
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	9	0.28
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	9	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	15	0.28
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	15	0.28
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	20	0.28
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	20	0.28
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	4	0.28
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	6	0.28
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	8	0.28
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	9	0.28
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	18	0.28
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	8	0.28
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	8	0.28
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	8	0.28
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	12	0.28
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	12	0.28
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	3	0.28
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	3	0.28
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	9	0.28
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	9	0.28
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	17	0.28
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	17	0.28
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	11	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	1	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	1	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	1	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	1	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	1	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	1	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	3	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	3	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	3	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	3	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	3	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	3	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	7	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	7	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	7	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	7	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	7	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	7	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	10	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	10	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	10	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	10	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	10	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	10	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	15	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	15	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	15	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	15	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	15	0.28
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	15	0.28
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	13	0.28
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	20	0.27
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	20	0.27
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	3	0.27
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	5	0.27
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	14	0.27
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	16	0.27
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	4	0.27
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	2	0.27
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	7	0.27
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	14	0.27
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	20	0.27
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	3	0.27
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	3	0.27
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	5	0.27
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	5	0.27
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	7	0.27
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	7	0.27
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	12	0.27
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	12	0.27
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	14	0.27
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	14	0.27
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	19	0.27
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	15	0.27
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	19	0.27
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	19	0.27
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	19	0.27
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	18	0.27
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	18	0.27
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	18	0.27
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	3	0.27
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	3	0.27
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	5	0.27
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	8	0.27
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	8	0.27
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	13	0.27
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	13	0.27
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	19	0.27
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	19	0.27
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	20	0.27
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	20	0.27
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	7	0.27
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	7	0.27
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	7	0.27
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	18	0.27
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	18	0.27
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	18	0.27
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	10	0.27
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	3	0.27
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	3	0.27
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	6	0.27
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	6	0.27
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	8	0.27
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	19	0.27
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	1	0.27
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	2	0.27
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	5	0.27
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	8	0.27
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	9	0.27
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	12	0.27
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	14	0.27
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	17	0.27
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	20	0.27
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	10	0.27
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	10	0.27
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	11	0.27
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	11	0.27
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	17	0.27
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	17	0.27
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	18	0.27
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	18	0.27
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	15	0.27
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	15	0.27
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	15	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	15	0.27
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	16	0.27
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	16	0.27
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	16	0.27
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	16	0.27
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	18	0.27
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	18	0.27
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	18	0.27
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	18	0.27
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	20	0.27
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	20	0.27
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	20	0.27
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	20	0.27
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	12	0.27
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	12	0.27
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	12	0.27
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	15	0.27
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	15	0.27
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	15	0.27
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	19	0.27
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	19	0.27
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	19	0.27
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	1	0.27
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	1	0.27
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	5	0.27
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	5	0.27
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	10	0.27
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	10	0.27
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	17	0.27
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	17	0.27
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	7	0.27
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	14	0.27
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	16	0.27
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	2	0.27
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	2	0.27
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	16	0.27
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	16	0.27
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	17	0.27
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	17	0.27
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	18	0.27
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	18	0.27
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	11	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	11	0.27
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	5	0.27
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	14	0.27
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	16	0.27
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	20	0.27
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	19	0.27
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	4	0.27
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	4	0.27
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	5	0.27
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	5	0.27
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	7	0.27
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	7	0.27
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	20	0.27
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	20	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	4	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	4	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	4	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	4	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	4	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	4	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	18	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	18	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	18	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	18	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	18	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	18	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	20	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	20	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	20	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	20	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	20	0.27
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	20	0.27
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	10	0.27
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	16	0.27
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG11	15	0.26
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG12	15	0.26
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG13	15	0.26
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG11	15	0.26
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG12	15	0.26
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG13	15	0.26
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	3	0.26
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	3	0.26
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	8	0.26
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	8	0.26
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	11	0.26
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	13	0.26
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	17	0.26
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	15	0.26
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	5	0.26
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	9	0.26
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	10	0.26
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	18	0.26
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	19	0.26
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	15	0.26
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	15	0.26
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	16	0.26
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	16	0.26
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	19	0.26
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	19	0.26
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	20	0.26
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	20	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	2	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	4	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	5	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	6	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	8	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	10	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	11	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	12	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	13	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	15	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	16	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	17	0.26
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	20	0.26
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	4	0.26
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	4	0.26
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	4	0.26
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	10	0.26
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	10	0.26
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	10	0.26
(1,2411)	1:141:A:PHE:HB3	1:136:A:VAL:HG11	16	0.26
(1,2411)	1:141:A:PHE:HB3	1:136:A:VAL:HG12	16	0.26
(1,2411)	1:141:A:PHE:HB3	1:136:A:VAL:HG13	16	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	5	0.26
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	5	0.26
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	5	0.26
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	10	0.26
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	10	0.26
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	10	0.26
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	6	0.26
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	2	0.26
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	2	0.26
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	4	0.26
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	4	0.26
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	12	0.26
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	12	0.26
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	7	0.26
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	18	0.26
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	19	0.26
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	14	0.26
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	14	0.26
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	6	0.26
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	19	0.26
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	1	0.26
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	1	0.26
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	5	0.26
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	5	0.26
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	14	0.26
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	14	0.26
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	10	0.26
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	10	0.26
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	10	0.26
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	10	0.26
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	10	0.26
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	10	0.26
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	10	0.26
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	14	0.26
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	14	0.26
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	14	0.26
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	20	0.26
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	20	0.26
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	20	0.26
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	9	0.26
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	9	0.26
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	11	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	11	0.26
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	12	0.26
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	12	0.26
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	13	0.26
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	13	0.26
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	15	0.26
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	15	0.26
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	3	0.26
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	8	0.26
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	8	0.26
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	7	0.26
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	7	0.26
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	2	0.26
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	2	0.26
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	4	0.26
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	4	0.26
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	10	0.26
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	10	0.26
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	11	0.26
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	11	0.26
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	13	0.26
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	13	0.26
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	19	0.26
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	19	0.26
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	17	0.26
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	18	0.26
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	1	0.26
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	1	0.26
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	1	0.26
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	2	0.26
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	2	0.26
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	14	0.26
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	14	0.26
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	17	0.26
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	17	0.26
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	17	0.26
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	1	0.26
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	1	0.26
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	11	0.26
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	11	0.26
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	13	0.26
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	13	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	14	0.26
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	14	0.26
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	9	0.26
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	9	0.26
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	9	0.26
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	9	0.26
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	9	0.26
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	9	0.26
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	2	0.26
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	2	0.26
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	3	0.26
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	8	0.26
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	11	0.26
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	9	0.25
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	9	0.25
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	9	0.25
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	13	0.25
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	2	0.25
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	2	0.25
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	7	0.25
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	20	0.25
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	1	0.25
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	5	0.25
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	9	0.25
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	10	0.25
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	12	0.25
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	14	0.25
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	20	0.25
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	18	0.25
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	2	0.25
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	13	0.25
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	17	0.25
(1,2647)	1:44:A:THR:HG21	1:45:A:GLU:H	11	0.25
(1,2647)	1:44:A:THR:HG22	1:45:A:GLU:H	11	0.25
(1,2647)	1:44:A:THR:HG23	1:45:A:GLU:H	11	0.25
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	3	0.25
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	2	0.25
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	2	0.25
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	2	0.25
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB2	3	0.25
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB3	3	0.25
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	3	0.25
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	7	0.25
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	9	0.25
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	14	0.25
(1,2542)	1:56:A:ASP:HA	1:56:A:ASP:HB3	18	0.25
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	7	0.25
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	7	0.25
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	15	0.25
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	15	0.25
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	17	0.25
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	17	0.25
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	17	0.25
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	7	0.25
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	6	0.25
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	6	0.25
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	6	0.25
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	6	0.25
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	6	0.25
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	6	0.25
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	7	0.25
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	14	0.25
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	17	0.25
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	4	0.25
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	4	0.25
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	13	0.25
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	13	0.25
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB2	7	0.25
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB3	7	0.25
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	5	0.25
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	5	0.25
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	8	0.25
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	8	0.25
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	14	0.25
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD2	5	0.25
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD3	5	0.25
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE1	10	0.25
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE2	10	0.25
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	3	0.25
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	3	0.25
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	11	0.25
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	11	0.25
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	11	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	1	0.25
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	1	0.25
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	1	0.25
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	1	0.25
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	6	0.25
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	6	0.25
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	6	0.25
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	6	0.25
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	11	0.25
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	11	0.25
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	11	0.25
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	11	0.25
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	14	0.25
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	14	0.25
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	14	0.25
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	14	0.25
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	1	0.25
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	1	0.25
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	1	0.25
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	3	0.25
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	3	0.25
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	19	0.25
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	19	0.25
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	11	0.25
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	13	0.25
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	11	0.25
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	11	0.25
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	1	0.25
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	1	0.25
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	5	0.25
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	5	0.25
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	7	0.25
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	7	0.25
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	8	0.25
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	8	0.25
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	12	0.25
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	12	0.25
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	14	0.25
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	14	0.25
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	4	0.25
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	5	0.25
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	10	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	11	0.25
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	12	0.25
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	14	0.25
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	16	0.25
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	20	0.25
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	7	0.25
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	20	0.25
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	6	0.25
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	10	0.25
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	18	0.25
(1,1016)	1:75:A:LYS:H	1:72:A:MET:HA	3	0.25
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	15	0.25
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	15	0.25
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	1	0.25
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	2	0.25
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	14	0.25
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	17	0.25
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	20	0.25
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	4	0.25
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	4	0.25
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	14	0.25
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG11	14	0.25
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG12	14	0.25
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG13	14	0.25
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG21	14	0.25
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG22	14	0.25
(1,807)	1:57:A:ALA:H	1:55:A:VAL:HG23	14	0.25
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	8	0.25
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	4	0.25
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	4	0.25
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	13	0.25
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	13	0.25
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	6	0.25
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	13	0.25
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	11	0.25
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	14	0.25
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	17	0.25
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	4	0.25
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	7	0.25
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	17	0.25
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	19	0.25
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB2	13	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB3	13	0.24
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB2	13	0.24
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB3	13	0.24
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB2	13	0.24
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB3	13	0.24
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	10	0.24
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	10	0.24
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	18	0.24
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	19	0.24
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	16	0.24
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	4	0.24
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	5	0.24
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	9	0.24
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	10	0.24
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	11	0.24
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	12	0.24
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	14	0.24
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	16	0.24
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	18	0.24
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	19	0.24
(1,2642)	1:45:A:GLU:HB2	1:44:A:THR:HB	11	0.24
(1,2642)	1:45:A:GLU:HB3	1:44:A:THR:HB	11	0.24
(1,2612)	1:107:A:HIS:HA	1:110:A:THR:H	8	0.24
(1,2600)	1:115:A:LYS:HB2	1:115:A:LYS:H	2	0.24
(1,2600)	1:115:A:LYS:HB3	1:115:A:LYS:H	2	0.24
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	3	0.24
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	3	0.24
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	3	0.24
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	3	0.24
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	7	0.24
(1,2495)	1:32:A:LEU:HA	1:35:A:VAL:H	4	0.24
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	7	0.24
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	7	0.24
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	7	0.24
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	11	0.24
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	11	0.24
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	11	0.24
(1,2447)	1:94:A:LYS:HB2	1:95:A:ASP:HA	1	0.24
(1,2447)	1:94:A:LYS:HB3	1:95:A:ASP:HA	1	0.24
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	8	0.24
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	8	0.24
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	8	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2428)	1:110:A:THR:HB	1:111:A:ASN:H	1	0.24
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	15	0.24
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	15	0.24
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	15	0.24
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	9	0.24
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	9	0.24
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	9	0.24
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	9	0.24
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	9	0.24
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	9	0.24
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	17	0.24
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	17	0.24
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	17	0.24
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	17	0.24
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	17	0.24
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	17	0.24
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB2	8	0.24
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB3	8	0.24
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	8	0.24
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	8	0.24
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	20	0.24
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	20	0.24
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	20	0.24
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	3	0.24
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	3	0.24
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	3	0.24
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	17	0.24
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	16	0.24
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	18	0.24
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	20	0.24
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	15	0.24
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	15	0.24
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	15	0.24
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	15	0.24
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	19	0.24
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	19	0.24
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	19	0.24
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	19	0.24
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD2	10	0.24
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD3	10	0.24
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD2	12	0.24
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD3	12	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD2	16	0.24
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD3	16	0.24
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE1	18	0.24
(1,2063)	1:89:A:PHE:HA	1:89:A:PHE:HE2	18	0.24
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	7	0.24
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	7	0.24
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	3	0.24
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	3	0.24
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	3	0.24
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	3	0.24
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	7	0.24
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	7	0.24
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	7	0.24
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	7	0.24
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	3	0.24
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	3	0.24
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	3	0.24
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	6	0.24
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	6	0.24
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	6	0.24
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	9	0.24
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	9	0.24
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	9	0.24
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	16	0.24
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	16	0.24
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	16	0.24
(1,1975)	1:120:A:GLU:HG2	1:117:A:THR:HA	2	0.24
(1,1975)	1:120:A:GLU:HG3	1:117:A:THR:HA	2	0.24
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	11	0.24
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	11	0.24
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	19	0.24
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	19	0.24
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	6	0.24
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	18	0.24
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	2	0.24
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	6	0.24
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	7	0.24
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	14	0.24
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	18	0.24
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	20	0.24
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	13	0.24
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	13	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	4	0.24
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	6	0.24
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	8	0.24
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	9	0.24
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	11	0.24
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	12	0.24
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	13	0.24
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	16	0.24
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	20	0.24
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	3	0.24
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	6	0.24
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	8	0.24
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	19	0.24
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	4	0.24
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	5	0.24
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	7	0.24
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	9	0.24
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	10	0.24
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	12	0.24
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	15	0.24
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	18	0.24
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	19	0.24
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	20	0.24
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	10	0.24
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	15	0.24
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	7	0.24
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	2	0.24
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	3	0.24
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	4	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	3	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	4	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	5	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	6	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	7	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	8	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	9	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	10	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	11	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	12	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	13	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	15	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	16	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	18	0.24
(1,978)	1:99:A:TYR:H	1:98:A:GLY:HA3	19	0.24
(1,958)	1:111:A:ASN:H	1:110:A:THR:HB	1	0.24
(1,952)	1:115:A:LYS:H	1:115:A:LYS:HB2	2	0.24
(1,952)	1:115:A:LYS:H	1:115:A:LYS:HB3	2	0.24
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	5	0.24
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	1	0.24
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	6	0.24
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	5	0.24
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	19	0.24
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	19	0.24
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	12	0.24
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	14	0.24
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	20	0.24
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	6	0.24
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	7	0.24
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	10	0.24
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	16	0.24
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG11	16	0.23
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG12	16	0.23
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG13	16	0.23
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG11	16	0.23
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG12	16	0.23
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG13	16	0.23
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG11	1	0.23
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG12	1	0.23
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG13	1	0.23
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG21	1	0.23
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG22	1	0.23
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG23	1	0.23
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	18	0.23
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	14	0.23
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	14	0.23
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	17	0.23
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	17	0.23
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	2	0.23
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	3	0.23
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	7	0.23
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	8	0.23
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	11	0.23
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	13	0.23
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	15	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	8	0.23
(1,2677)	1:17:A:SER:HA	1:20:A:ASP:H	19	0.23
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	1	0.23
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	3	0.23
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	6	0.23
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	7	0.23
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	8	0.23
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	15	0.23
(1,2663)	1:69:A:LEU:HB2	1:69:A:LEU:HA	20	0.23
(1,2598)	1:115:A:LYS:HB2	1:116:A:LEU:H	18	0.23
(1,2598)	1:115:A:LYS:HB3	1:116:A:LEU:H	18	0.23
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	12	0.23
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	12	0.23
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	12	0.23
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	12	0.23
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	19	0.23
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	19	0.23
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	19	0.23
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	19	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	2	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	3	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	6	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	8	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	9	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	10	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	11	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	12	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	14	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	15	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	16	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	17	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	18	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	19	0.23
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	20	0.23
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	4	0.23
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	4	0.23
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	13	0.23
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	13	0.23
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	15	0.23
(1,2455)	1:91:A:VAL:HG11	1:91:A:VAL:H	6	0.23
(1,2455)	1:91:A:VAL:HG12	1:91:A:VAL:H	6	0.23
(1,2455)	1:91:A:VAL:HG13	1:91:A:VAL:H	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	5	0.23
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	5	0.23
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	6	0.23
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	6	0.23
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	6	0.23
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	3	0.23
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	4	0.23
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	14	0.23
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	14	0.23
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	14	0.23
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	14	0.23
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	14	0.23
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	14	0.23
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	7	0.23
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	7	0.23
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	10	0.23
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	10	0.23
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	5	0.23
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	5	0.23
(1,2184)	1:8:A:GLN:HG2	1:8:A:GLN:H	9	0.23
(1,2184)	1:8:A:GLN:HG3	1:8:A:GLN:H	9	0.23
(1,2162)	1:15:A:ALA:HA	1:18:A:LEU:H	2	0.23
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	7	0.23
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	7	0.23
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	8	0.23
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD2	13	0.23
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD3	13	0.23
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD2	18	0.23
(1,2073)	1:86:A:ARG:HA	1:86:A:ARG:HD3	18	0.23
(1,2052)	1:95:A:ASP:HB2	1:96:A:GLY:H	14	0.23
(1,2052)	1:95:A:ASP:HB3	1:96:A:GLY:H	14	0.23
(1,2052)	1:95:A:ASP:HB2	1:96:A:GLY:H	18	0.23
(1,2052)	1:95:A:ASP:HB3	1:96:A:GLY:H	18	0.23
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	2	0.23
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	2	0.23
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	8	0.23
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	8	0.23
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB2	9	0.23
(1,1993)	1:114:A:GLU:HB2	1:116:A:LEU:HB3	9	0.23
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB2	9	0.23
(1,1993)	1:114:A:GLU:HB3	1:116:A:LEU:HB3	9	0.23
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	2	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	2	0.23
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	2	0.23
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	13	0.23
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	13	0.23
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	13	0.23
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	17	0.23
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	17	0.23
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	17	0.23
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	1	0.23
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	1	0.23
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	15	0.23
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	15	0.23
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	1	0.23
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	2	0.23
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	9	0.23
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	10	0.23
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	18	0.23
(1,1405)	1:121:A:VAL:HB	1:122:A:ASP:HA	10	0.23
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	7	0.23
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	7	0.23
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	7	0.23
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	7	0.23
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	7	0.23
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	7	0.23
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	7	0.23
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	7	0.23
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	7	0.23
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	3	0.23
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	4	0.23
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	5	0.23
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	8	0.23
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	10	0.23
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	12	0.23
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	15	0.23
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	16	0.23
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	8	0.23
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	15	0.23
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	18	0.23
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	1	0.23
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	2	0.23
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	3	0.23
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	10	0.23
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	14	0.23
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	15	0.23
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	17	0.23
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	18	0.23
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	19	0.23
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	1	0.23
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	2	0.23
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	7	0.23
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	9	0.23
(1,1082)	1:25:A:GLY:H	1:24:A:ASP:HA	13	0.23
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	1	0.23
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	2	0.23
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	3	0.23
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	6	0.23
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	8	0.23
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	11	0.23
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	13	0.23
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	14	0.23
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	16	0.23
(1,1063)	1:37:A:ARG:H	1:36:A:MET:HA	17	0.23
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	3	0.23
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	2	0.23
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	13	0.23
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	5	0.23
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	7	0.23
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	12	0.23
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	19	0.23
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG2	18	0.23
(1,971)	1:103:A:ALA:H	1:104:A:GLU:HG3	18	0.23
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	15	0.23
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	3	0.23
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	10	0.23
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	5	0.23
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	5	0.23
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	19	0.23
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	2	0.23
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	2	0.23
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	1	0.23
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	7	0.23
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	10	0.23
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	14	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	15	0.23
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	17	0.23
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	18	0.23
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	20	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	3	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	4	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	6	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	7	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	8	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	9	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	11	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	13	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	14	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	15	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	16	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	17	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	18	0.23
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	20	0.23
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	13	0.23
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	8	0.23
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	8	0.23
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	5	0.23
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	9	0.23
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	10	0.23
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	18	0.23
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	2	0.23
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	5	0.23
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	9	0.23
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	13	0.23
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	14	0.23
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	20	0.23
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	15	0.23
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	20	0.23
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB2	7	0.22
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB3	7	0.22
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB2	7	0.22
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB3	7	0.22
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB2	7	0.22
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB3	7	0.22
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB2	20	0.22
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB3	20	0.22
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB2	20	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB3	20	0.22
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB2	20	0.22
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB3	20	0.22
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	8	0.22
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	8	0.22
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	8	0.22
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	11	0.22
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	11	0.22
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	13	0.22
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	13	0.22
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	7	0.22
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	7	0.22
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	7	0.22
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	9	0.22
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	9	0.22
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	1	0.22
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	6	0.22
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	9	0.22
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	11	0.22
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	15	0.22
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	1	0.22
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	4	0.22
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	5	0.22
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	9	0.22
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	12	0.22
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	14	0.22
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	17	0.22
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	20	0.22
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	1	0.22
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	4	0.22
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	5	0.22
(1,2577)	1:131:A:ASP:HA	1:131:A:ASP:HB3	13	0.22
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB2	5	0.22
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB3	5	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	1	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	1	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	5	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	5	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	9	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	9	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	10	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	12	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	12	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	14	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	14	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	17	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	17	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	20	0.22
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	20	0.22
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	17	0.22
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	17	0.22
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	17	0.22
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	19	0.22
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	19	0.22
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	19	0.22
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	7	0.22
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	7	0.22
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	7	0.22
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	11	0.22
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	19	0.22
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	6	0.22
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	10	0.22
(1,2452)	1:93:A:ASP:HA	1:94:A:LYS:HG2	5	0.22
(1,2452)	1:93:A:ASP:HA	1:94:A:LYS:HG3	5	0.22
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	3	0.22
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	3	0.22
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	9	0.22
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	14	0.22
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	15	0.22
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	20	0.22
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	8	0.22
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	8	0.22
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	8	0.22
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	8	0.22
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	8	0.22
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	8	0.22
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	10	0.22
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	10	0.22
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	10	0.22
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	10	0.22
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	10	0.22
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	10	0.22
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	13	0.22
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	13	0.22
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	13	0.22
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	13	0.22
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	13	0.22
(1,2337)	1:79:A:THR:HA	1:80:A:ASP:H	1	0.22
(1,2337)	1:79:A:THR:HA	1:80:A:ASP:H	3	0.22
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	6	0.22
(1,2184)	1:8:A:GLN:HG2	1:8:A:GLN:H	10	0.22
(1,2184)	1:8:A:GLN:HG3	1:8:A:GLN:H	10	0.22
(1,2184)	1:8:A:GLN:HG2	1:8:A:GLN:H	14	0.22
(1,2184)	1:8:A:GLN:HG3	1:8:A:GLN:H	14	0.22
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	14	0.22
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	14	0.22
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	14	0.22
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	8	0.22
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	8	0.22
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	19	0.22
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	2	0.22
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	4	0.22
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	13	0.22
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	15	0.22
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	15	0.22
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	18	0.22
(1,2052)	1:95:A:ASP:HB2	1:96:A:GLY:H	4	0.22
(1,2052)	1:95:A:ASP:HB3	1:96:A:GLY:H	4	0.22
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	18	0.22
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	19	0.22
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	19	0.22
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	13	0.22
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	17	0.22
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	19	0.22
(1,1557)	1:27:A:ILE:HG21	1:63:A:ILE:HB	8	0.22
(1,1557)	1:27:A:ILE:HG22	1:63:A:ILE:HB	8	0.22
(1,1557)	1:27:A:ILE:HG23	1:63:A:ILE:HB	8	0.22
(1,1531)	1:4:A:LEU:HG	1:8:A:GLN:HA	19	0.22
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	1	0.22
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	13	0.22
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	13	0.22
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	13	0.22
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	13	0.22
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	13	0.22
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	13	0.22
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	13	0.22
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	13	0.22
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	1	0.22
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	1	0.22
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	13	0.22
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	13	0.22
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	16	0.22
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	16	0.22
(1,1107)	1:5:A:THR:H	1:5:A:THR:HB	17	0.22
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	3	0.22
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	11	0.22
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	15	0.22
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	4	0.22
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	5	0.22
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	6	0.22
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	10	0.22
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	11	0.22
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	13	0.22
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	14	0.22
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	15	0.22
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	16	0.22
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	11	0.22
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	5	0.22
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	16	0.22
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	9	0.22
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	11	0.22
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	13	0.22
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	13	0.22
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	6	0.22
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	9	0.22
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	13	0.22
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	14	0.22
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	15	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	1	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	2	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	3	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	4	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	6	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	7	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	9	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	10	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	11	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	12	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	13	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	14	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	16	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	17	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	18	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	19	0.22
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	20	0.22
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	2	0.22
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	11	0.22
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	15	0.22
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	19	0.22
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	3	0.22
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	3	0.22
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	2	0.22
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	18	0.22
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	17	0.22
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	17	0.22
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	17	0.22
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	19	0.22
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	19	0.22
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	19	0.22
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	19	0.22
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	3	0.22
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	4	0.22
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	5	0.22
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	8	0.22
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	9	0.22
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	11	0.22
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	12	0.22
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	13	0.22
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	16	0.22
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	19	0.22
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	1	0.22
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	11	0.22
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	1	0.22
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	2	0.22
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	10	0.22
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	12	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,703)	1:118:A:ASP:H	1:117:A:THR:HB	19	0.22
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	6	0.22
(1,601)	1:31:A:GLU:H	1:29:A:THR:HA	15	0.22
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	1	0.22
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	3	0.22
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	8	0.22
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	18	0.22
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	19	0.22
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB2	3	0.21
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB3	3	0.21
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB2	3	0.21
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB3	3	0.21
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB2	3	0.21
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB3	3	0.21
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB2	8	0.21
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB3	8	0.21
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB2	8	0.21
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB3	8	0.21
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB2	8	0.21
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB3	8	0.21
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB2	14	0.21
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB3	14	0.21
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB2	14	0.21
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB3	14	0.21
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB2	14	0.21
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB3	14	0.21
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD2	6	0.21
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD3	6	0.21
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD2	15	0.21
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD3	15	0.21
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	9	0.21
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	16	0.21
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	16	0.21
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	4	0.21
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	4	0.21
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	11	0.21
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	11	0.21
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	13	0.21
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	13	0.21
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	7	0.21
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	7	0.21
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	15	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	3	0.21
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	14	0.21
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	20	0.21
(1,2748)	1:40:A:GLY:HA3	1:41:A:GLN:H	19	0.21
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	6	0.21
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	10	0.21
(1,2687)	1:11:A:GLU:HA	1:11:A:GLU:H	16	0.21
(1,2686)	1:11:A:GLU:HA	1:14:A:GLU:H	6	0.21
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	19	0.21
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	19	0.21
(1,2647)	1:44:A:THR:HG21	1:45:A:GLU:H	7	0.21
(1,2647)	1:44:A:THR:HG22	1:45:A:GLU:H	7	0.21
(1,2647)	1:44:A:THR:HG23	1:45:A:GLU:H	7	0.21
(1,2647)	1:44:A:THR:HG21	1:45:A:GLU:H	10	0.21
(1,2647)	1:44:A:THR:HG22	1:45:A:GLU:H	10	0.21
(1,2647)	1:44:A:THR:HG23	1:45:A:GLU:H	10	0.21
(1,2647)	1:44:A:THR:HG21	1:45:A:GLU:H	14	0.21
(1,2647)	1:44:A:THR:HG22	1:45:A:GLU:H	14	0.21
(1,2647)	1:44:A:THR:HG23	1:45:A:GLU:H	14	0.21
(1,2647)	1:44:A:THR:HG21	1:45:A:GLU:H	20	0.21
(1,2647)	1:44:A:THR:HG22	1:45:A:GLU:H	20	0.21
(1,2647)	1:44:A:THR:HG23	1:45:A:GLU:H	20	0.21
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	1	0.21
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	1	0.21
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	1	0.21
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	1	0.21
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	8	0.21
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	8	0.21
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	8	0.21
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	8	0.21
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	9	0.21
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	9	0.21
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	9	0.21
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	9	0.21
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	11	0.21
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	11	0.21
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	11	0.21
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	15	0.21
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	15	0.21
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	15	0.21
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	6	0.21
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	16	0.21
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	16	0.21
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	14	0.21
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	18	0.21
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	18	0.21
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	18	0.21
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	4	0.21
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	20	0.21
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	18	0.21
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	18	0.21
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	18	0.21
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	4	0.21
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	10	0.21
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	2	0.21
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	5	0.21
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	7	0.21
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	3	0.21
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	3	0.21
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	3	0.21
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	3	0.21
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	3	0.21
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	3	0.21
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	7	0.21
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	7	0.21
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	7	0.21
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	7	0.21
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	7	0.21
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	7	0.21
(1,2337)	1:79:A:THR:HA	1:80:A:ASP:H	5	0.21
(1,2337)	1:79:A:THR:HA	1:80:A:ASP:H	18	0.21
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	20	0.21
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	1	0.21
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	13	0.21
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	16	0.21
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	16	0.21
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	6	0.21
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	6	0.21
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	12	0.21
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	12	0.21
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	14	0.21
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	14	0.21
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	16	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	16	0.21
(1,2184)	1:8:A:GLN:HG2	1:8:A:GLN:H	4	0.21
(1,2184)	1:8:A:GLN:HG3	1:8:A:GLN:H	4	0.21
(1,2184)	1:8:A:GLN:HG2	1:8:A:GLN:H	5	0.21
(1,2184)	1:8:A:GLN:HG3	1:8:A:GLN:H	5	0.21
(1,2184)	1:8:A:GLN:HG2	1:8:A:GLN:H	12	0.21
(1,2184)	1:8:A:GLN:HG3	1:8:A:GLN:H	12	0.21
(1,2184)	1:8:A:GLN:HG2	1:8:A:GLN:H	16	0.21
(1,2184)	1:8:A:GLN:HG3	1:8:A:GLN:H	16	0.21
(1,2184)	1:8:A:GLN:HG2	1:8:A:GLN:H	17	0.21
(1,2184)	1:8:A:GLN:HG3	1:8:A:GLN:H	17	0.21
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	5	0.21
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	5	0.21
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	5	0.21
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	2	0.21
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	2	0.21
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	7	0.21
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	7	0.21
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	5	0.21
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	9	0.21
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	12	0.21
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	14	0.21
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	15	0.21
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	18	0.21
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	20	0.21
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	4	0.21
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	4	0.21
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	5	0.21
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	5	0.21
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	16	0.21
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	16	0.21
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	15	0.21
(1,2072)	1:86:A:ARG:HA	1:89:A:PHE:H	6	0.21
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	10	0.21
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	12	0.21
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	12	0.21
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	4	0.21
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	4	0.21
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	4	0.21
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	5	0.21
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	5	0.21
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	4	0.21
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	4	0.21
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	11	0.21
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	11	0.21
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	11	0.21
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	5	0.21
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	8	0.21
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	12	0.21
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	17	0.21
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	17	0.21
(1,1531)	1:4:A:LEU:HG	1:8:A:GLN:HA	2	0.21
(1,1513)	1:42:A:ASN:HB2	1:37:A:ARG:HG2	11	0.21
(1,1513)	1:42:A:ASN:HB2	1:37:A:ARG:HG3	11	0.21
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	2	0.21
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	2	0.21
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	9	0.21
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	9	0.21
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	10	0.21
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	10	0.21
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	18	0.21
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	18	0.21
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	20	0.21
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	20	0.21
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	5	0.21
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	12	0.21
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	17	0.21
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	6	0.21
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	9	0.21
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG2	6	0.21
(1,1097)	1:13:A:LYS:H	1:13:A:LYS:HG3	6	0.21
(1,1090)	1:17:A:SER:H	1:16:A:PHE:HA	7	0.21
(1,1062)	1:41:A:GLN:H	1:40:A:GLY:HA3	19	0.21
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	8	0.21
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	9	0.21
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	12	0.21
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	17	0.21
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	19	0.21
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	20	0.21
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	1	0.21
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	4	0.21
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	5	0.21
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	10	0.21
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	14	0.21
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	15	0.21
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	16	0.21
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	20	0.21
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	4	0.21
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	8	0.21
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	10	0.21
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	11	0.21
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	20	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	1	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	2	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	3	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	5	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	6	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	7	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	9	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	10	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	11	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	12	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	13	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	14	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	15	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	16	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	17	0.21
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	18	0.21
(1,968)	1:103:A:ALA:H	1:103:A:ALA:HA	5	0.21
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	4	0.21
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	4	0.21
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	4	0.21
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	9	0.21
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	12	0.21
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	14	0.21
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	17	0.21
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	20	0.21
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	7	0.21
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	12	0.21
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	12	0.21
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	17	0.21
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	17	0.21
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	19	0.21
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	19	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	16	0.21
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	16	0.21
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	10	0.21
(1,673)	1:134:A:GLY:H	1:133:A:ASP:HB2	9	0.21
(1,673)	1:134:A:GLY:H	1:133:A:ASP:HB3	9	0.21
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	4	0.21
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	17	0.21
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	20	0.21
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	4	0.21
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	11	0.21
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	12	0.21
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	15	0.21
(1,597)	1:35:A:VAL:H	1:34:A:THR:HA	17	0.21
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE1	18	0.21
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE2	18	0.21
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	4	0.21
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	11	0.21
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB2	17	0.2
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB3	17	0.2
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB2	17	0.2
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB3	17	0.2
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB2	17	0.2
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB3	17	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	7	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	7	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	7	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	16	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	16	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	16	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	18	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	18	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	18	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	19	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	19	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	19	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	20	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	20	0.2
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	20	0.2
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	19	0.2
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	19	0.2
(1,2816)	1:134:A:GLY:HA2	1:135:A:GLN:H	2	0.2
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	19	0.2
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	3	0.2
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	3	0.2
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	6	0.2
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	6	0.2
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	8	0.2
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	8	0.2
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	15	0.2
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	15	0.2
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	19	0.2
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	19	0.2
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	20	0.2
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	20	0.2
(1,2800)	1:3:A:GLN:HA	1:4:A:LEU:H	14	0.2
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	1	0.2
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	12	0.2
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	13	0.2
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	2	0.2
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	3	0.2
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	8	0.2
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	19	0.2
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	2	0.2
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	4	0.2
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	7	0.2
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	1	0.2
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	4	0.2
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	5	0.2
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	7	0.2
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	9	0.2
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	11	0.2
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	16	0.2
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	18	0.2
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	3	0.2
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	7	0.2
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	10	0.2
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	11	0.2
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	15	0.2
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	19	0.2
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	20	0.2
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	11	0.2
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	11	0.2
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	17	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	11	0.2
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	1	0.2
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	6	0.2
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	20	0.2
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	20	0.2
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	20	0.2
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	20	0.2
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	3	0.2
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	3	0.2
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	11	0.2
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	11	0.2
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	17	0.2
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	13	0.2
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	13	0.2
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	13	0.2
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	8	0.2
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	8	0.2
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	8	0.2
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	11	0.2
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	11	0.2
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	11	0.2
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	2	0.2
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	5	0.2
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	7	0.2
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	17	0.2
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	18	0.2
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	14	0.2
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	16	0.2
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	5	0.2
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	16	0.2
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	16	0.2
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	4	0.2
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	4	0.2
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	4	0.2
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	5	0.2
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	1	0.2
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	12	0.2
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	1	0.2
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	5	0.2
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	10	0.2
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	12	0.2
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	15	0.2
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	15	0.2
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	18	0.2
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	18	0.2
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB2	4	0.2
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB3	4	0.2
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB2	12	0.2
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB3	12	0.2
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	4	0.2
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	4	0.2
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	4	0.2
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	4	0.2
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	15	0.2
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	15	0.2
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	15	0.2
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	15	0.2
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	2	0.2
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	2	0.2
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	3	0.2
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	3	0.2
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	9	0.2
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	9	0.2
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	11	0.2
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	11	0.2
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	16	0.2
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	16	0.2
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	16	0.2
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	4	0.2
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	4	0.2
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	9	0.2
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	9	0.2
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	13	0.2
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	13	0.2
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	17	0.2
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	17	0.2
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	19	0.2
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	19	0.2
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	3	0.2
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	6	0.2
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	10	0.2
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	11	0.2
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	7	0.2
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	10	0.2
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	10	0.2
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	18	0.2
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	18	0.2
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	19	0.2
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	12	0.2
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	19	0.2
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	3	0.2
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	3	0.2
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	3	0.2
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	8	0.2
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	8	0.2
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	8	0.2
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	11	0.2
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	11	0.2
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	11	0.2
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	10	0.2
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	10	0.2
(1,1953)	1:125:A:ILE:HG12	1:129:A:ASP:H	8	0.2
(1,1953)	1:125:A:ILE:HG13	1:129:A:ASP:H	8	0.2
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	1	0.2
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	1	0.2
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	1	0.2
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	7	0.2
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	7	0.2
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	7	0.2
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	7	0.2
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	11	0.2
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	16	0.2
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	12	0.2
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	12	0.2
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	14	0.2
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	14	0.2
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	4	0.2
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	6	0.2
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	4	0.2
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	5	0.2
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	10	0.2
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	12	0.2
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	13	0.2
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	16	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	17	0.2
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	11	0.2
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	11	0.2
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	1	0.2
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	2	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	1	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	2	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	3	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	4	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	5	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	7	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	8	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	9	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	10	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	14	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	15	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	18	0.2
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	20	0.2
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	2	0.2
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	7	0.2
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	9	0.2
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	12	0.2
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	13	0.2
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	17	0.2
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	18	0.2
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	19	0.2
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	1	0.2
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	3	0.2
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	12	0.2
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	14	0.2
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	15	0.2
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	20	0.2
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	16	0.2
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	18	0.2
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	4	0.2
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	8	0.2
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	19	0.2
(1,977)	1:99:A:TYR:H	1:99:A:TYR:HA	20	0.2
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	6	0.2
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	4	0.2
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	5	0.2
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	16	0.2
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	16	0.2
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	16	0.2
(1,892)	1:4:A:LEU:H	1:3:A:GLN:HA	14	0.2
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	6	0.2
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	6	0.2
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	9	0.2
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	9	0.2
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	17	0.2
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	17	0.2
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	18	0.2
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	18	0.2
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	17	0.2
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	13	0.2
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	13	0.2
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	13	0.2
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	1	0.2
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	1	0.2
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	9	0.2
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	9	0.2
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	10	0.2
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	10	0.2
(1,721)	1:110:A:THR:H	1:109:A:MET:HA	2	0.2
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	15	0.2
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	15	0.2
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	18	0.2
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	18	0.2
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	10	0.2
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	14	0.2
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	15	0.2
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	17	0.2
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	3	0.2
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE1	3	0.2
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE2	3	0.2
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE1	5	0.2
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE2	5	0.2
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE1	10	0.2
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE2	10	0.2
(1,410)	1:129:A:ASP:H	1:125:A:ILE:HG12	8	0.2
(1,410)	1:129:A:ASP:H	1:125:A:ILE:HG13	8	0.2
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	8	0.2
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG2	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG3	3	0.19
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG2	3	0.19
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG3	3	0.19
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG2	3	0.19
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG3	3	0.19
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	15	0.19
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	15	0.19
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	15	0.19
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	12	0.19
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	12	0.19
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	1	0.19
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	1	0.19
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	6	0.19
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	6	0.19
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	10	0.19
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	10	0.19
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	14	0.19
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	14	0.19
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	17	0.19
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	17	0.19
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	2	0.19
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	2	0.19
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	5	0.19
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	5	0.19
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	12	0.19
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	12	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	1	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	2	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	4	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	9	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	10	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	11	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	12	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	13	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	14	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	15	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	16	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	17	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	19	0.19
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	20	0.19
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	3	0.19
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	11	0.19
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	11	0.19
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	18	0.19
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	18	0.19
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	20	0.19
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	20	0.19
(1,2800)	1:3:A:GLN:HA	1:4:A:LEU:H	18	0.19
(1,2800)	1:3:A:GLN:HA	1:4:A:LEU:H	20	0.19
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	2	0.19
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	10	0.19
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	17	0.19
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	19	0.19
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	1	0.19
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	4	0.19
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	5	0.19
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	6	0.19
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	9	0.19
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	10	0.19
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	11	0.19
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	13	0.19
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	14	0.19
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	17	0.19
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	8	0.19
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	11	0.19
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	12	0.19
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	7	0.19
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	7	0.19
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	2	0.19
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	3	0.19
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	6	0.19
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	8	0.19
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	10	0.19
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	12	0.19
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	13	0.19
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	14	0.19
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	15	0.19
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	17	0.19
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	19	0.19
(1,2761)	1:76:A:MET:HA	1:76:A:MET:H	20	0.19
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	2	0.19
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	8	0.19
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	13	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	4	0.19
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	5	0.19
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	14	0.19
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	16	0.19
(1,2745)	1:42:A:ASN:HB3	1:42:A:ASN:H	16	0.19
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	3	0.19
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	4	0.19
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	5	0.19
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	6	0.19
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	7	0.19
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	8	0.19
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	9	0.19
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	10	0.19
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	12	0.19
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	15	0.19
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	16	0.19
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	20	0.19
(1,2642)	1:45:A:GLU:HB2	1:44:A:THR:HB	10	0.19
(1,2642)	1:45:A:GLU:HB3	1:44:A:THR:HB	10	0.19
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	11	0.19
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	2	0.19
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	2	0.19
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	2	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	2	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	3	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	4	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	5	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	7	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	8	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	9	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	10	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	11	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	12	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	13	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	14	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	15	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	16	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	17	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	18	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	19	0.19
(1,2601)	1:114:A:GLU:HA	1:114:A:GLU:H	20	0.19
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	5	0.19
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	5	0.19
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	5	0.19
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	7	0.19
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	7	0.19
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	7	0.19
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	7	0.19
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	14	0.19
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	14	0.19
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	14	0.19
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	14	0.19
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	10	0.19
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	10	0.19
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	10	0.19
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	14	0.19
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	14	0.19
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	14	0.19
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	20	0.19
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	20	0.19
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	20	0.19
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	1	0.19
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	3	0.19
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	6	0.19
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	9	0.19
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	11	0.19
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	15	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	1	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	2	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	3	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	4	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	5	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	6	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	7	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	9	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	10	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	11	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	13	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	16	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	18	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	19	0.19
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	20	0.19
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	5	0.19
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	5	0.19
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	8	0.19
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	8	0.19
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	8	0.19
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	12	0.19
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	12	0.19
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	12	0.19
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	15	0.19
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	15	0.19
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	15	0.19
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	16	0.19
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	16	0.19
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	16	0.19
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	3	0.19
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	3	0.19
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	3	0.19
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	15	0.19
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	15	0.19
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	15	0.19
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	16	0.19
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	16	0.19
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	16	0.19
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	13	0.19
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	13	0.19
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	13	0.19
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	8	0.19
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	10	0.19
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	12	0.19
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	16	0.19
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	1	0.19
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	5	0.19
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	7	0.19
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	11	0.19
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	1	0.19
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	2	0.19
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	3	0.19
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	5	0.19
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	9	0.19
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	11	0.19
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	12	0.19
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	13	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	14	0.19
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	18	0.19
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	19	0.19
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	20	0.19
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	1	0.19
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	3	0.19
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	8	0.19
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	12	0.19
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	13	0.19
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	16	0.19
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	17	0.19
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	1	0.19
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	1	0.19
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	13	0.19
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	13	0.19
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	9	0.19
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	9	0.19
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	9	0.19
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	11	0.19
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	11	0.19
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	11	0.19
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	10	0.19
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	14	0.19
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	16	0.19
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	19	0.19
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	20	0.19
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	1	0.19
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	1	0.19
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	1	0.19
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	1	0.19
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	1	0.19
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	1	0.19
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	7	0.19
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	16	0.19
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	14	0.19
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	16	0.19
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	17	0.19
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	5	0.19
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	11	0.19
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	12	0.19
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	18	0.19
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	3	0.19
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	3	0.19
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	5	0.19
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	5	0.19
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	7	0.19
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	7	0.19
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	9	0.19
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	9	0.19
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	10	0.19
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	10	0.19
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	11	0.19
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	11	0.19
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	17	0.19
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	17	0.19
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	20	0.19
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	20	0.19
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	9	0.19
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	9	0.19
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	9	0.19
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	9	0.19
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	18	0.19
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	18	0.19
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	15	0.19
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	15	0.19
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	17	0.19
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	17	0.19
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	19	0.19
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	19	0.19
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	10	0.19
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	10	0.19
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	10	0.19
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD11	10	0.19
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD12	10	0.19
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD13	10	0.19
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD11	10	0.19
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD12	10	0.19
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD13	10	0.19
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	1	0.19
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	1	0.19
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	5	0.19
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	5	0.19
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	12	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	12	0.19
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	15	0.19
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	15	0.19
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	11	0.19
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	1	0.19
(1,2153)	1:69:A:LEU:HB3	1:69:A:LEU:H	16	0.19
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	10	0.19
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	17	0.19
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	4	0.19
(1,2072)	1:86:A:ARG:HA	1:89:A:PHE:H	19	0.19
(1,2056)	1:91:A:VAL:HA	1:92:A:PHE:H	16	0.19
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	7	0.19
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	8	0.19
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	1	0.19
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	1	0.19
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	1	0.19
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	13	0.19
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	13	0.19
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	13	0.19
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	17	0.19
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	17	0.19
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	17	0.19
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	18	0.19
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	18	0.19
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	18	0.19
(1,1986)	1:116:A:LEU:HD11	1:116:A:LEU:H	18	0.19
(1,1986)	1:116:A:LEU:HD12	1:116:A:LEU:H	18	0.19
(1,1986)	1:116:A:LEU:HD13	1:116:A:LEU:H	18	0.19
(1,1962)	1:123:A:GLU:HA	1:124:A:MET:H	2	0.19
(1,1962)	1:123:A:GLU:HA	1:124:A:MET:H	6	0.19
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	8	0.19
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	15	0.19
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	15	0.19
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	15	0.19
(1,1327)	1:9:A:ILE:HD11	1:5:A:THR:HG21	20	0.19
(1,1327)	1:9:A:ILE:HD11	1:5:A:THR:HG22	20	0.19
(1,1327)	1:9:A:ILE:HD11	1:5:A:THR:HG23	20	0.19
(1,1327)	1:9:A:ILE:HD12	1:5:A:THR:HG21	20	0.19
(1,1327)	1:9:A:ILE:HD12	1:5:A:THR:HG22	20	0.19
(1,1327)	1:9:A:ILE:HD12	1:5:A:THR:HG23	20	0.19
(1,1327)	1:9:A:ILE:HD13	1:5:A:THR:HG21	20	0.19
(1,1327)	1:9:A:ILE:HD13	1:5:A:THR:HG22	20	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1327)	1:9:A:ILE:HD13	1:5:A:THR:HG23	20	0.19
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	18	0.19
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	18	0.19
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	18	0.19
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	18	0.19
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	18	0.19
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	18	0.19
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	18	0.19
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	18	0.19
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	18	0.19
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	19	0.19
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	19	0.19
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	1	0.19
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	9	0.19
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	19	0.19
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	10	0.19
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	14	0.19
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	16	0.19
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	1	0.19
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	3	0.19
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	14	0.19
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	18	0.19
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	9	0.19
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	9	0.19
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	13	0.19
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	13	0.19
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	11	0.19
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	11	0.19
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	7	0.19
(1,1040)	1:54:A:GLU:H	1:53:A:ASN:HA	18	0.19
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	6	0.19
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	17	0.19
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	3	0.19
(1,1029)	1:62:A:THR:H	1:61:A:GLY:HA2	8	0.19
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	17	0.19
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	5	0.19
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	8	0.19
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	16	0.19
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	7	0.19
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	16	0.19
(1,1006)	1:83:A:GLU:H	1:82:A:GLU:HB3	1	0.19
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	2	0.19
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	10	0.19
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	16	0.19
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	19	0.19
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	6	0.19
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	6	0.19
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	7	0.19
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	7	0.19
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	9	0.19
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	9	0.19
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	10	0.19
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	10	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	3	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	4	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	5	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	6	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	7	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	8	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	9	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	10	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	11	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	12	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	13	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	14	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	15	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	16	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	17	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	18	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	19	0.19
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	20	0.19
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	10	0.19
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	9	0.19
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	1	0.19
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	3	0.19
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	8	0.19
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	12	0.19
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	13	0.19
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	16	0.19
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	17	0.19
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	7	0.19
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	13	0.19
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	1	0.19
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	13	0.19
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	13	0.19
(1,892)	1:4:A:LEU:H	1:3:A:GLN:HA	18	0.19
(1,892)	1:4:A:LEU:H	1:3:A:GLN:HA	20	0.19
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	4	0.19
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	4	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	5	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	5	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	5	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	8	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	8	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	8	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	12	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	12	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	12	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	15	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	15	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	15	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	16	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	16	0.19
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	16	0.19
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	11	0.19
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	12	0.19
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	12	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	3	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	3	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	5	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	5	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	7	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	7	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	9	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	9	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	10	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	10	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	11	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	11	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	17	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	17	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	20	0.19
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	20	0.19
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	7	0.19
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	9	0.19
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	12	0.19
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	16	0.19
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	19	0.19
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	20	0.19
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	6	0.19
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	9	0.19
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	13	0.19
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	20	0.19
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	5	0.19
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	11	0.19
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	12	0.19
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	18	0.19
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE1	15	0.19
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE2	15	0.19
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	7	0.19
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	16	0.19
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG2	5	0.18
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG3	5	0.18
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG2	5	0.18
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG3	5	0.18
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG2	5	0.18
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG3	5	0.18
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG11	2	0.18
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG12	2	0.18
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG13	2	0.18
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG11	2	0.18
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG12	2	0.18
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG13	2	0.18
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	2	0.18
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	2	0.18
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	2	0.18
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	10	0.18
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	10	0.18
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	10	0.18
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	11	0.18
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	11	0.18
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	11	0.18
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD2	9	0.18
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD3	9	0.18
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	11	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	11	0.18
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	12	0.18
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	12	0.18
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	13	0.18
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	13	0.18
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	15	0.18
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	15	0.18
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	20	0.18
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	20	0.18
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	3	0.18
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	5	0.18
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	6	0.18
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	7	0.18
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	13	0.18
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	13	0.18
(1,2800)	1:3:A:GLN:HA	1:4:A:LEU:H	7	0.18
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	4	0.18
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	1	0.18
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	1	0.18
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	9	0.18
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	9	0.18
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	13	0.18
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	13	0.18
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	7	0.18
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	12	0.18
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	15	0.18
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	16	0.18
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	18	0.18
(1,2774)	1:19:A:PHE:HA	1:19:A:PHE:H	20	0.18
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	5	0.18
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	7	0.18
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	9	0.18
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	19	0.18
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	1	0.18
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	2	0.18
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	6	0.18
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	12	0.18
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	13	0.18
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	17	0.18
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	18	0.18
(1,2744)	1:47:A:GLU:HB2	1:44:A:THR:H	11	0.18
(1,2744)	1:47:A:GLU:HB3	1:44:A:THR:H	11	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2744)	1:47:A:GLU:HB2	1:44:A:THR:H	15	0.18
(1,2744)	1:47:A:GLU:HB3	1:44:A:THR:H	15	0.18
(1,2725)	1:109:A:MET:HB2	1:114:A:GLU:H	4	0.18
(1,2725)	1:109:A:MET:HB3	1:114:A:GLU:H	4	0.18
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	13	0.18
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	13	0.18
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	1	0.18
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	11	0.18
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	13	0.18
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	14	0.18
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	18	0.18
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	19	0.18
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	16	0.18
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	8	0.18
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	10	0.18
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	18	0.18
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	8	0.18
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	8	0.18
(1,2659)	1:27:A:ILE:HD11	1:63:A:ILE:HB	8	0.18
(1,2659)	1:27:A:ILE:HD12	1:63:A:ILE:HB	8	0.18
(1,2659)	1:27:A:ILE:HD13	1:63:A:ILE:HB	8	0.18
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	16	0.18
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	17	0.18
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	16	0.18
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	16	0.18
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	16	0.18
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	16	0.18
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	16	0.18
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	16	0.18
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	3	0.18
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	4	0.18
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	16	0.18
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	16	0.18
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	16	0.18
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	19	0.18
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	19	0.18
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	19	0.18
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	16	0.18
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	16	0.18
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	16	0.18
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	16	0.18
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	8	0.18
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	8	0.18
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	8	0.18
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	8	0.18
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	8	0.18
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	8	0.18
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	8	0.18
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	8	0.18
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	1	0.18
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	1	0.18
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	1	0.18
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	8	0.18
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	8	0.18
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	8	0.18
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	16	0.18
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	16	0.18
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	16	0.18
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	18	0.18
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	18	0.18
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	18	0.18
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	17	0.18
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	15	0.18
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	15	0.18
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	2	0.18
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	4	0.18
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	5	0.18
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	10	0.18
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	12	0.18
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	13	0.18
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	19	0.18
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	12	0.18
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	11	0.18
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	11	0.18
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	11	0.18
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	14	0.18
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	14	0.18
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	14	0.18
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	18	0.18
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	18	0.18
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	18	0.18
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	20	0.18
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	20	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	20	0.18
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	13	0.18
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	13	0.18
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	13	0.18
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	6	0.18
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	9	0.18
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	13	0.18
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	15	0.18
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	16	0.18
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	17	0.18
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	19	0.18
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	15	0.18
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	19	0.18
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	7	0.18
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	7	0.18
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	7	0.18
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	6	0.18
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	7	0.18
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	8	0.18
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	15	0.18
(1,2423)	1:118:A:ASP:HA	1:119:A:GLU:H	17	0.18
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	7	0.18
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	10	0.18
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	14	0.18
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	18	0.18
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	19	0.18
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	20	0.18
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	17	0.18
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	17	0.18
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	14	0.18
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	14	0.18
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	14	0.18
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	1	0.18
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	5	0.18
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	18	0.18
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	12	0.18
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	12	0.18
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	12	0.18
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	12	0.18
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	12	0.18
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	12	0.18
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	16	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	16	0.18
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	16	0.18
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	16	0.18
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	16	0.18
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	16	0.18
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	5	0.18
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	6	0.18
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	4	0.18
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	15	0.18
(1,2293)	1:48:A:LEU:HA	1:51:A:MET:H	11	0.18
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	11	0.18
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	11	0.18
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	18	0.18
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	1	0.18
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	1	0.18
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	1	0.18
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	1	0.18
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	1	0.18
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	1	0.18
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	8	0.18
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	8	0.18
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	14	0.18
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	14	0.18
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	19	0.18
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	19	0.18
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	11	0.18
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	11	0.18
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	11	0.18
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	11	0.18
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	13	0.18
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	13	0.18
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	13	0.18
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	13	0.18
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	1	0.18
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	1	0.18
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	20	0.18
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	20	0.18
(1,2184)	1:8:A:GLN:HG2	1:8:A:GLN:H	6	0.18
(1,2184)	1:8:A:GLN:HG3	1:8:A:GLN:H	6	0.18
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	2	0.18
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	2	0.18
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	3	0.18
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	3	0.18
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	3	0.18
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	6	0.18
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	6	0.18
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	2	0.18
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	10	0.18
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	1	0.18
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	2	0.18
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	3	0.18
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	4	0.18
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	5	0.18
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	6	0.18
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	9	0.18
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	11	0.18
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	13	0.18
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	19	0.18
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	6	0.18
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	6	0.18
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	8	0.18
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	8	0.18
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	20	0.18
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	20	0.18
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	10	0.18
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	11	0.18
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	20	0.18
(1,2072)	1:86:A:ARG:HA	1:89:A:PHE:H	4	0.18
(1,2047)	1:100:A:ILE:HG21	1:93:A:ASP:H	18	0.18
(1,2047)	1:100:A:ILE:HG22	1:93:A:ASP:H	18	0.18
(1,2047)	1:100:A:ILE:HG23	1:93:A:ASP:H	18	0.18
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	1	0.18
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	5	0.18
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	6	0.18
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG2	13	0.18
(1,2018)	1:106:A:ARG:HA	1:109:A:MET:HG3	13	0.18
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	9	0.18
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	9	0.18
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	9	0.18
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	14	0.18
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	14	0.18
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	14	0.18
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	18	0.18
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	18	0.18
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	18	0.18
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	18	0.18
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	18	0.18
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	2	0.18
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	2	0.18
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	2	0.18
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	3	0.18
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	3	0.18
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	3	0.18
(1,1716)	1:103:A:ALA:HA	1:106:A:ARG:HA	4	0.18
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	19	0.18
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	19	0.18
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	19	0.18
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	19	0.18
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	19	0.18
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	19	0.18
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	19	0.18
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	19	0.18
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	19	0.18
(1,1102)	1:9:A:ILE:H	1:6:A:GLU:HA	9	0.18
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	11	0.18
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	8	0.18
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	8	0.18
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	17	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	1	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	1	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	2	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	2	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	3	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	3	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	6	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	6	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	9	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	9	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	13	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	13	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	19	0.18
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	19	0.18
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	1	0.18
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	2	0.18
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	2	0.18
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	3	0.18
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	3	0.18
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	6	0.18
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	6	0.18
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	8	0.18
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	8	0.18
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	19	0.18
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	19	0.18
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	20	0.18
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	20	0.18
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	8	0.18
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	18	0.18
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	15	0.18
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	19	0.18
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	3	0.18
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	4	0.18
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	11	0.18
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	13	0.18
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	19	0.18
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	5	0.18
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	6	0.18
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	6	0.18
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	13	0.18
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	18	0.18
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	17	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	1	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	1	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	2	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	2	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	3	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	3	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	11	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	11	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	14	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	14	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	15	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	15	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	16	0.18
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	16	0.18
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	4	0.18
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	2	0.18
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	3	0.18
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	4	0.18
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	6	0.18
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	7	0.18
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	11	0.18
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	13	0.18
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	15	0.18
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	18	0.18
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	20	0.18
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	7	0.18
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	10	0.18
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	14	0.18
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	18	0.18
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	19	0.18
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	20	0.18
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	6	0.18
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	17	0.18
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	17	0.18
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	6	0.18
(1,892)	1:4:A:LEU:H	1:3:A:GLN:HA	7	0.18
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	3	0.18
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	3	0.18
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	10	0.18
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	10	0.18
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	16	0.18
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	16	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	11	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	11	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	11	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	14	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	14	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	14	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	18	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	18	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	18	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	20	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	20	0.18
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	20	0.18
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	2	0.18
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG2	16	0.18
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG3	16	0.18
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	3	0.18
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	3	0.18
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	8	0.18
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	8	0.18
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	14	0.18
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	14	0.18
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	20	0.18
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	20	0.18
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	8	0.18
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	8	0.18
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	14	0.18
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	14	0.18
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	19	0.18
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	19	0.18
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	4	0.18
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	5	0.18
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	18	0.18
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	9	0.18
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	1	0.18
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	4	0.18
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	8	0.18
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	11	0.18
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	12	0.18
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	15	0.18
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	16	0.18
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	18	0.18
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	3	0.18
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	3	0.18
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	18	0.18
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	18	0.18
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	4	0.18
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	15	0.18
(1,599)	1:31:A:GLU:H	1:31:A:GLU:HG2	17	0.18
(1,599)	1:31:A:GLU:H	1:31:A:GLU:HG3	17	0.18
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	9	0.18
(1,45)	1:115:A:LYS:HG3	1:110:A:THR:HB	1	0.18
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG11	9	0.17
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG12	9	0.17
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG13	9	0.17
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG11	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG12	9	0.17
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG13	9	0.17
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG11	11	0.17
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG12	11	0.17
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG13	11	0.17
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG11	11	0.17
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG12	11	0.17
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG13	11	0.17
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	4	0.17
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	4	0.17
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	4	0.17
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	12	0.17
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	12	0.17
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	12	0.17
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	2	0.17
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	9	0.17
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	3	0.17
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	3	0.17
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	8	0.17
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	8	0.17
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	10	0.17
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	10	0.17
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	8	0.17
(1,2804)	1:146:A:THR:HA	1:146:A:THR:H	18	0.17
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	8	0.17
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	8	0.17
(1,2800)	1:3:A:GLN:HA	1:4:A:LEU:H	4	0.17
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	5	0.17
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	8	0.17
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	9	0.17
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	11	0.17
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	14	0.17
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	20	0.17
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	18	0.17
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	6	0.17
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	6	0.17
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	10	0.17
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	10	0.17
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	11	0.17
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	11	0.17
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	17	0.17
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	18	0.17
(1,2767)	1:73:A:ALA:HB1	1:74:A:ARG:H	16	0.17
(1,2767)	1:73:A:ALA:HB2	1:74:A:ARG:H	16	0.17
(1,2767)	1:73:A:ALA:HB3	1:74:A:ARG:H	16	0.17
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	20	0.17
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	20	0.17
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	4	0.17
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	11	0.17
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	20	0.17
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	3	0.17
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	8	0.17
(1,2747)	1:40:A:GLY:HA3	1:40:A:GLY:H	9	0.17
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	8	0.17
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	8	0.17
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	15	0.17
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	15	0.17
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	16	0.17
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	16	0.17
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	17	0.17
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	17	0.17
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	19	0.17
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	19	0.17
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	2	0.17
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	2	0.17
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	7	0.17
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	7	0.17
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	19	0.17
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	19	0.17
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	20	0.17
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	2	0.17
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	11	0.17
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	13	0.17
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	9	0.17
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	9	0.17
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	12	0.17
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	12	0.17
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	15	0.17
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	15	0.17
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	19	0.17
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	19	0.17
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	3	0.17
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	15	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	15	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	1	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	2	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	3	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	4	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	6	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	7	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	8	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	9	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	10	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	11	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	12	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	13	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	14	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	15	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	16	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	17	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	18	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	19	0.17
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	20	0.17
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	12	0.17
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	12	0.17
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	12	0.17
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	14	0.17
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	14	0.17
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	14	0.17
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	15	0.17
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	15	0.17
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	15	0.17
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	20	0.17
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	20	0.17
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	20	0.17
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	10	0.17
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	10	0.17
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	10	0.17
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	10	0.17
(1,2590)	1:120:A:GLU:HB2	1:117:A:THR:HG21	4	0.17
(1,2590)	1:120:A:GLU:HB2	1:117:A:THR:HG22	4	0.17
(1,2590)	1:120:A:GLU:HB2	1:117:A:THR:HG23	4	0.17
(1,2590)	1:120:A:GLU:HB3	1:117:A:THR:HG21	4	0.17
(1,2590)	1:120:A:GLU:HB3	1:117:A:THR:HG22	4	0.17
(1,2590)	1:120:A:GLU:HB3	1:117:A:THR:HG23	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD11	13	0.17
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD12	13	0.17
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD13	13	0.17
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD11	13	0.17
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD12	13	0.17
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD13	13	0.17
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD11	13	0.17
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD12	13	0.17
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD13	13	0.17
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	7	0.17
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	7	0.17
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	7	0.17
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	7	0.17
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	7	0.17
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	7	0.17
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	7	0.17
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	7	0.17
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	7	0.17
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	19	0.17
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	19	0.17
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	19	0.17
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB2	16	0.17
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB3	16	0.17
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	9	0.17
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	8	0.17
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	8	0.17
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	18	0.17
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	18	0.17
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	3	0.17
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	6	0.17
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	8	0.17
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	18	0.17
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	19	0.17
(1,2516)	1:22:A:ASP:HB3	1:22:A:ASP:HA	17	0.17
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	8	0.17
(1,2515)	1:22:A:ASP:HB3	1:22:A:ASP:H	15	0.17
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	7	0.17
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	7	0.17
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	7	0.17
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	7	0.17
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	7	0.17
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	10	0.17
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	10	0.17
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	10	0.17
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	10	0.17
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	10	0.17
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	10	0.17
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	18	0.17
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	18	0.17
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	18	0.17
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	18	0.17
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	18	0.17
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	18	0.17
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	1	0.17
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	1	0.17
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	1	0.17
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	2	0.17
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	2	0.17
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	2	0.17
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	3	0.17
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	3	0.17
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	3	0.17
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	4	0.17
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	4	0.17
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	4	0.17
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	9	0.17
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	9	0.17
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	9	0.17
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	10	0.17
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	10	0.17
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	10	0.17
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	17	0.17
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	17	0.17
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	17	0.17
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	3	0.17
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	3	0.17
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	3	0.17
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	9	0.17
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	13	0.17
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	14	0.17
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	12	0.17
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	20	0.17
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	10	0.17
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	11	0.17
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	14	0.17
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	20	0.17
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	10	0.17
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	10	0.17
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	10	0.17
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	5	0.17
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	5	0.17
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	5	0.17
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	17	0.17
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	17	0.17
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	17	0.17
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	2	0.17
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	6	0.17
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	11	0.17
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	15	0.17
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	13	0.17
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	13	0.17
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	13	0.17
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	8	0.17
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	12	0.17
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	15	0.17
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	17	0.17
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	2	0.17
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	2	0.17
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	2	0.17
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	2	0.17
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	2	0.17
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	2	0.17
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	5	0.17
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	5	0.17
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	5	0.17
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	5	0.17
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	5	0.17
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	5	0.17
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	19	0.17
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	19	0.17
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	19	0.17
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	19	0.17
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	19	0.17
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2362)	1:19:A:PHE:HB2	1:20:A:ASP:H	6	0.17
(1,2362)	1:19:A:PHE:HB3	1:20:A:ASP:H	6	0.17
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	1	0.17
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	8	0.17
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	15	0.17
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	17	0.17
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	4	0.17
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	6	0.17
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	6	0.17
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	12	0.17
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	12	0.17
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB2	9	0.17
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB3	9	0.17
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	3	0.17
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	4	0.17
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	5	0.17
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	11	0.17
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	14	0.17
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	15	0.17
(1,2226)	1:125:A:ILE:HA	1:128:A:ALA:H	17	0.17
(1,2221)	1:129:A:ASP:HB2	1:130:A:ILE:H	3	0.17
(1,2221)	1:129:A:ASP:HB3	1:130:A:ILE:H	3	0.17
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	2	0.17
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	2	0.17
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	2	0.17
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	2	0.17
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	13	0.17
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	13	0.17
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	19	0.17
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	19	0.17
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	20	0.17
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	20	0.17
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	3	0.17
(1,2201)	1:140:A:GLU:HG2	1:130:A:ILE:HG12	6	0.17
(1,2201)	1:140:A:GLU:HG2	1:130:A:ILE:HG13	6	0.17
(1,2201)	1:140:A:GLU:HG3	1:130:A:ILE:HG12	6	0.17
(1,2201)	1:140:A:GLU:HG3	1:130:A:ILE:HG13	6	0.17
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	1	0.17
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	1	0.17
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	8	0.17
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	8	0.17
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	10	0.17
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	9	0.17
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	9	0.17
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	9	0.17
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	11	0.17
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	11	0.17
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	18	0.17
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	18	0.17
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	13	0.17
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	12	0.17
(1,2139)	1:22:A:ASP:HB2	1:23:A:GLY:H	15	0.17
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	11	0.17
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	11	0.17
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	2	0.17
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	2	0.17
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	9	0.17
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	9	0.17
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	11	0.17
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	11	0.17
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	12	0.17
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	12	0.17
(1,2130)	1:26:A:THR:HG21	1:63:A:ILE:HB	20	0.17
(1,2130)	1:26:A:THR:HG22	1:63:A:ILE:HB	20	0.17
(1,2130)	1:26:A:THR:HG23	1:63:A:ILE:HB	20	0.17
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	1	0.17
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	5	0.17
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	7	0.17
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	9	0.17
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	12	0.17
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	14	0.17
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	14	0.17
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	14	0.17
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	14	0.17
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	14	0.17
(1,2072)	1:86:A:ARG:HA	1:89:A:PHE:H	9	0.17
(1,2072)	1:86:A:ARG:HA	1:89:A:PHE:H	11	0.17
(1,2072)	1:86:A:ARG:HA	1:89:A:PHE:H	12	0.17
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	13	0.17
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	15	0.17
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	16	0.17
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	17	0.17
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	6	0.17
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	6	0.17
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	6	0.17
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	12	0.17
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	12	0.17
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	12	0.17
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	20	0.17
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	20	0.17
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	20	0.17
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	6	0.17
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	6	0.17
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	6	0.17
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	6	0.17
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	6	0.17
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	6	0.17
(1,1979)	1:119:A:GLU:HA	1:120:A:GLU:H	18	0.17
(1,1962)	1:123:A:GLU:HA	1:124:A:MET:H	10	0.17
(1,1962)	1:123:A:GLU:HA	1:124:A:MET:H	18	0.17
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	6	0.17
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	6	0.17
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	9	0.17
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	9	0.17
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	7	0.17
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	4	0.17
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	4	0.17
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	4	0.17
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	5	0.17
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	5	0.17
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	5	0.17
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	12	0.17
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	12	0.17
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	12	0.17
(1,1876)	1:67:A:GLU:HB2	1:64:A:ASP:HA	7	0.17
(1,1876)	1:67:A:GLU:HB3	1:64:A:ASP:HA	7	0.17
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	1	0.17
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	1	0.17
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	9	0.17
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	9	0.17
(1,1571)	1:76:A:MET:HB2	1:72:A:MET:HB2	19	0.17
(1,1571)	1:76:A:MET:HB2	1:72:A:MET:HB3	19	0.17
(1,1571)	1:76:A:MET:HB3	1:72:A:MET:HB2	19	0.17
(1,1571)	1:76:A:MET:HB3	1:72:A:MET:HB3	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1531)	1:4:A:LEU:HG	1:8:A:GLN:HA	20	0.17
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	2	0.17
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	14	0.17
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	4	0.17
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	4	0.17
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	4	0.17
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	4	0.17
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	4	0.17
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	4	0.17
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	4	0.17
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	4	0.17
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	4	0.17
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	4	0.17
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	4	0.17
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	6	0.17
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	6	0.17
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	11	0.17
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	11	0.17
(1,1159)	1:91:A:VAL:HB	1:93:A:ASP:HB2	18	0.17
(1,1159)	1:91:A:VAL:HB	1:93:A:ASP:HB3	18	0.17
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	2	0.17
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	3	0.17
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	4	0.17
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	6	0.17
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	7	0.17
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	11	0.17
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	13	0.17
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	18	0.17
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	20	0.17
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	7	0.17
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	15	0.17
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	20	0.17
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	9	0.17
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	8	0.17
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	8	0.17
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	9	0.17
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	13	0.17
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	2	0.17
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	3	0.17
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	5	0.17
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	7	0.17
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	11	0.17
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	12	0.17
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	14	0.17
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	16	0.17
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	20	0.17
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	8	0.17
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	8	0.17
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	15	0.17
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	15	0.17
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	16	0.17
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	16	0.17
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	17	0.17
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	17	0.17
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	19	0.17
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	19	0.17
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	12	0.17
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	18	0.17
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	3	0.17
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	6	0.17
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	8	0.17
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	18	0.17
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	19	0.17
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	17	0.17
(1,1020)	1:71:A:MET:H	1:70:A:THR:HA	19	0.17
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	15	0.17
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	4	0.17
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	10	0.17
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	15	0.17
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	18	0.17
(1,1013)	1:75:A:LYS:H	1:74:A:ARG:HG2	5	0.17
(1,1013)	1:75:A:LYS:H	1:74:A:ARG:HG3	5	0.17
(1,1013)	1:75:A:LYS:H	1:74:A:ARG:HG2	7	0.17
(1,1013)	1:75:A:LYS:H	1:74:A:ARG:HG3	7	0.17
(1,1011)	1:75:A:LYS:H	1:75:A:LYS:HB2	20	0.17
(1,1011)	1:75:A:LYS:H	1:75:A:LYS:HB3	20	0.17
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	1	0.17
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	2	0.17
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	3	0.17
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	9	0.17
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	11	0.17
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	15	0.17
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	16	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	8	0.17
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	9	0.17
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	5	0.17
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	5	0.17
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	20	0.17
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	20	0.17
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	6	0.17
(1,951)	1:115:A:LYS:H	1:114:A:GLU:HB2	1	0.17
(1,951)	1:115:A:LYS:H	1:114:A:GLU:HB3	1	0.17
(1,951)	1:115:A:LYS:H	1:114:A:GLU:HB2	4	0.17
(1,951)	1:115:A:LYS:H	1:114:A:GLU:HB3	4	0.17
(1,949)	1:115:A:LYS:H	1:115:A:LYS:HA	1	0.17
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	6	0.17
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	17	0.17
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	1	0.17
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	2	0.17
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	4	0.17
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	9	0.17
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	13	0.17
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	16	0.17
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	18	0.17
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	15	0.17
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	1	0.17
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	5	0.17
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	8	0.17
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	10	0.17
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	12	0.17
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	14	0.17
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	16	0.17
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	17	0.17
(1,914)	1:135:A:GLN:H	1:135:A:GLN:HA	19	0.17
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	2	0.17
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	6	0.17
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	11	0.17
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	15	0.17
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	18	0.17
(1,892)	1:4:A:LEU:H	1:3:A:GLN:HA	4	0.17
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	11	0.17
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	11	0.17
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	13	0.17
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	13	0.17
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB2	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB3	6	0.17
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	10	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	1	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	1	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	1	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	2	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	2	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	2	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	3	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	3	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	3	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	4	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	4	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	4	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	9	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	9	0.17
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	9	0.17
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	13	0.17
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	4	0.17
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	4	0.17
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	5	0.17
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	5	0.17
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	6	0.17
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	6	0.17
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	7	0.17
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	7	0.17
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	10	0.17
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	10	0.17
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	10	0.17
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	6	0.17
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	6	0.17
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	12	0.17
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	12	0.17
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	19	0.17
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	3	0.17
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	4	0.17
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	5	0.17
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	11	0.17
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	14	0.17
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	15	0.17
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB2	3	0.17
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB3	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	6	0.17
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	2	0.17
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	3	0.17
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	5	0.17
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	10	0.17
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	14	0.17
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	17	0.17
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	19	0.17
(1,606)	1:27:A:ILE:H	1:27:A:ILE:HG21	11	0.17
(1,606)	1:27:A:ILE:H	1:27:A:ILE:HG22	11	0.17
(1,606)	1:27:A:ILE:H	1:27:A:ILE:HG23	11	0.17
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE1	9	0.17
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE2	9	0.17
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE1	12	0.17
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE2	12	0.17
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	10	0.17
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	12	0.17
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	14	0.17
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	18	0.17
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB2	5	0.16
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB3	5	0.16
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB2	5	0.16
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB3	5	0.16
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB2	5	0.16
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB3	5	0.16
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB2	12	0.16
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB3	12	0.16
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB2	12	0.16
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB3	12	0.16
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB2	12	0.16
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB3	12	0.16
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	1	0.16
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	1	0.16
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	1	0.16
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD2	2	0.16
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD3	2	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	1	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	4	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	5	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	6	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	8	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	11	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	12	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	13	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	14	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	15	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	16	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	17	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	18	0.16
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	19	0.16
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	18	0.16
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	18	0.16
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	4	0.16
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	4	0.16
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	12	0.16
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	12	0.16
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	15	0.16
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	15	0.16
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	6	0.16
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	7	0.16
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	16	0.16
(1,2799)	1:3:A:GLN:HA	1:3:A:GLN:H	18	0.16
(1,2791)	1:11:A:GLU:HG2	1:11:A:GLU:H	3	0.16
(1,2791)	1:11:A:GLU:HG3	1:11:A:GLU:H	3	0.16
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	3	0.16
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	3	0.16
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	5	0.16
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	5	0.16
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	14	0.16
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	14	0.16
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	13	0.16
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	16	0.16
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	1	0.16
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	5	0.16
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	6	0.16
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	10	0.16
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	12	0.16
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	14	0.16
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	15	0.16
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	16	0.16
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	17	0.16
(1,2758)	1:26:A:THR:HA	1:26:A:THR:H	18	0.16
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	1	0.16
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	2	0.16
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	2	0.16
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	3	0.16
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	3	0.16
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	10	0.16
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	10	0.16
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	12	0.16
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	12	0.16
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	20	0.16
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	20	0.16
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	18	0.16
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	3	0.16
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	3	0.16
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	4	0.16
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	4	0.16
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	5	0.16
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	5	0.16
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	12	0.16
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	12	0.16
(1,2697)	1:4:A:LEU:HA	1:4:A:LEU:H	2	0.16
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	5	0.16
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	6	0.16
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	7	0.16
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	8	0.16
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	12	0.16
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	13	0.16
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	17	0.16
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	18	0.16
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	20	0.16
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	9	0.16
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	19	0.16
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	3	0.16
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	3	0.16
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	4	0.16
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	4	0.16
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	6	0.16
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	6	0.16
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	11	0.16
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	11	0.16
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	13	0.16
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	14	0.16
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	14	0.16
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	20	0.16
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	20	0.16
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	1	0.16
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	2	0.16
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	4	0.16
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	6	0.16
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	10	0.16
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	11	0.16
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	12	0.16
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	13	0.16
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	8	0.16
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	8	0.16
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	11	0.16
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	11	0.16
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	8	0.16
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	8	0.16
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	8	0.16
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	8	0.16
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	8	0.16
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	8	0.16
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	10	0.16
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	15	0.16
(1,2637)	1:51:A:MET:HA	1:51:A:MET:H	5	0.16
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	3	0.16
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	15	0.16
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	3	0.16
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	3	0.16
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	3	0.16
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	5	0.16
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	5	0.16
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	5	0.16
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	9	0.16
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	9	0.16
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	9	0.16
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	10	0.16
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	10	0.16
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	10	0.16
(1,2603)	1:112:A:LEU:HD11	1:112:A:LEU:H	11	0.16
(1,2603)	1:112:A:LEU:HD12	1:112:A:LEU:H	11	0.16
(1,2603)	1:112:A:LEU:HD13	1:112:A:LEU:H	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2603)	1:112:A:LEU:HD21	1:112:A:LEU:H	11	0.16
(1,2603)	1:112:A:LEU:HD22	1:112:A:LEU:H	11	0.16
(1,2603)	1:112:A:LEU:HD23	1:112:A:LEU:H	11	0.16
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	11	0.16
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	11	0.16
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	11	0.16
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	11	0.16
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	15	0.16
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	15	0.16
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	15	0.16
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	15	0.16
(1,2570)	1:135:A:GLN:HB2	1:101:A:SER:HB2	19	0.16
(1,2570)	1:135:A:GLN:HB2	1:101:A:SER:HB3	19	0.16
(1,2570)	1:135:A:GLN:HB3	1:101:A:SER:HB2	19	0.16
(1,2570)	1:135:A:GLN:HB3	1:101:A:SER:HB3	19	0.16
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	3	0.16
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	3	0.16
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	3	0.16
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	3	0.16
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	3	0.16
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	3	0.16
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	3	0.16
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	3	0.16
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	3	0.16
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	6	0.16
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	6	0.16
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	6	0.16
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	7	0.16
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	7	0.16
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	7	0.16
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	12	0.16
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	12	0.16
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	12	0.16
(1,2541)	1:56:A:ASP:HA	1:57:A:ALA:H	18	0.16
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	10	0.16
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	11	0.16
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	12	0.16
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	13	0.16
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	14	0.16
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	16	0.16
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	7	0.16
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	19	0.16
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	19	0.16
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	9	0.16
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	17	0.16
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	20	0.16
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	2	0.16
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	4	0.16
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	7	0.16
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	9	0.16
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	15	0.16
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	20	0.16
(1,2517)	1:75:A:LYS:HG2	1:71:A:MET:HB2	7	0.16
(1,2517)	1:75:A:LYS:HG2	1:71:A:MET:HB3	7	0.16
(1,2517)	1:75:A:LYS:HG3	1:71:A:MET:HB2	7	0.16
(1,2517)	1:75:A:LYS:HG3	1:71:A:MET:HB3	7	0.16
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	6	0.16
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	6	0.16
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	6	0.16
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	7	0.16
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	7	0.16
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	7	0.16
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG21	20	0.16
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG22	20	0.16
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG23	20	0.16
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG21	20	0.16
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG22	20	0.16
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG23	20	0.16
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG21	20	0.16
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG22	20	0.16
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG23	20	0.16
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	4	0.16
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	4	0.16
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	4	0.16
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	5	0.16
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	5	0.16
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	5	0.16
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	20	0.16
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	20	0.16
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	20	0.16
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	4	0.16
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	4	0.16
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	1	0.16
(1,2480)	1:35:A:VAL:HB	1:36:A:MET:H	3	0.16
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	2	0.16
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	4	0.16
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	11	0.16
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	18	0.16
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	2	0.16
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	7	0.16
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	10	0.16
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	14	0.16
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	1	0.16
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	2	0.16
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	3	0.16
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	8	0.16
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	15	0.16
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	19	0.16
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	13	0.16
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	3	0.16
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	3	0.16
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	3	0.16
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	4	0.16
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	4	0.16
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	4	0.16
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	11	0.16
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	11	0.16
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	11	0.16
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	4	0.16
(1,2409)	1:142:A:VAL:HA	1:143:A:GLN:H	9	0.16
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	7	0.16
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	7	0.16
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	12	0.16
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	12	0.16
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	15	0.16
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	15	0.16
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	20	0.16
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	20	0.16
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	9	0.16
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	16	0.16
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	18	0.16
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	18	0.16
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	18	0.16
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	18	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	18	0.16
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	18	0.16
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	3	0.16
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	14	0.16
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	4	0.16
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	10	0.16
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	11	0.16
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	18	0.16
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	19	0.16
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	7	0.16
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	16	0.16
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	1	0.16
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	10	0.16
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	12	0.16
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	15	0.16
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	16	0.16
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	19	0.16
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	8	0.16
(1,2255)	1:109:A:MET:HG2	1:114:A:GLU:H	1	0.16
(1,2255)	1:109:A:MET:HG3	1:114:A:GLU:H	1	0.16
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	1	0.16
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	6	0.16
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	11	0.16
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	13	0.16
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	17	0.16
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB2	11	0.16
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB3	11	0.16
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG2	3	0.16
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG3	3	0.16
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	1	0.16
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	6	0.16
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	16	0.16
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	17	0.16
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	18	0.16
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	19	0.16
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	20	0.16
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	3	0.16
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	3	0.16
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	3	0.16
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	3	0.16
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	6	0.16
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	6	0.16
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	6	0.16
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	12	0.16
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	12	0.16
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	12	0.16
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	12	0.16
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	14	0.16
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	14	0.16
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	16	0.16
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	16	0.16
(1,2218)	1:129:A:ASP:HB2	1:128:A:ALA:H	17	0.16
(1,2218)	1:129:A:ASP:HB3	1:128:A:ALA:H	17	0.16
(1,2212)	1:136:A:VAL:HA	1:140:A:GLU:HB2	3	0.16
(1,2212)	1:136:A:VAL:HA	1:140:A:GLU:HB3	3	0.16
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	12	0.16
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	18	0.16
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	18	0.16
(1,2184)	1:8:A:GLN:HG2	1:8:A:GLN:H	18	0.16
(1,2184)	1:8:A:GLN:HG3	1:8:A:GLN:H	18	0.16
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD11	14	0.16
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD12	14	0.16
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD13	14	0.16
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD11	14	0.16
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD12	14	0.16
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD13	14	0.16
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	20	0.16
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	20	0.16
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	12	0.16
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	14	0.16
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	16	0.16
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG2	17	0.16
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG3	17	0.16
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	8	0.16
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	8	0.16
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	3	0.16
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	3	0.16
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	13	0.16
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	13	0.16
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	14	0.16
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	14	0.16
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	17	0.16
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	17	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	3	0.16
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	6	0.16
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	13	0.16
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	16	0.16
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	17	0.16
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	18	0.16
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	9	0.16
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	7	0.16
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	7	0.16
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	7	0.16
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	7	0.16
(1,2047)	1:100:A:ILE:HG21	1:93:A:ASP:H	5	0.16
(1,2047)	1:100:A:ILE:HG22	1:93:A:ASP:H	5	0.16
(1,2047)	1:100:A:ILE:HG23	1:93:A:ASP:H	5	0.16
(1,2047)	1:100:A:ILE:HG21	1:93:A:ASP:H	10	0.16
(1,2047)	1:100:A:ILE:HG22	1:93:A:ASP:H	10	0.16
(1,2047)	1:100:A:ILE:HG23	1:93:A:ASP:H	10	0.16
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	4	0.16
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	10	0.16
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	11	0.16
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	5	0.16
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	6	0.16
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	8	0.16
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	9	0.16
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	11	0.16
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	12	0.16
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	16	0.16
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	18	0.16
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	19	0.16
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	7	0.16
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	7	0.16
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	7	0.16
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	11	0.16
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	11	0.16
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	11	0.16
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	11	0.16
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	11	0.16
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	11	0.16
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	5	0.16
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	5	0.16
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	16	0.16
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	9	0.16
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	9	0.16
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	9	0.16
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	16	0.16
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	16	0.16
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	16	0.16
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	16	0.16
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	2	0.16
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	2	0.16
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	5	0.16
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	5	0.16
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	19	0.16
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	19	0.16
(1,1531)	1:4:A:LEU:HG	1:8:A:GLN:HA	7	0.16
(1,1503)	1:45:A:GLU:HG2	1:44:A:THR:HB	1	0.16
(1,1503)	1:45:A:GLU:HG3	1:44:A:THR:HB	1	0.16
(1,1460)	1:100:A:ILE:HB	1:101:A:SER:HB2	19	0.16
(1,1460)	1:100:A:ILE:HB	1:101:A:SER:HB3	19	0.16
(1,1181)	1:87:A:GLU:HG2	1:85:A:ILE:HB	3	0.16
(1,1181)	1:87:A:GLU:HG3	1:85:A:ILE:HB	3	0.16
(1,1159)	1:91:A:VAL:HB	1:93:A:ASP:HB2	10	0.16
(1,1159)	1:91:A:VAL:HB	1:93:A:ASP:HB3	10	0.16
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	5	0.16
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	8	0.16
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	10	0.16
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	12	0.16
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	14	0.16
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	15	0.16
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	16	0.16
(1,1108)	1:5:A:THR:H	1:5:A:THR:HA	17	0.16
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	2	0.16
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	19	0.16
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	10	0.16
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	11	0.16
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	12	0.16
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	13	0.16
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	14	0.16
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	16	0.16
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	4	0.16
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	4	0.16
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	11	0.16
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	12	0.16
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	12	0.16
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	15	0.16
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	15	0.16
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	1	0.16
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	2	0.16
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	3	0.16
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	6	0.16
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	7	0.16
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	8	0.16
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	19	0.16
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	16	0.16
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	1	0.16
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	4	0.16
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	6	0.16
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	10	0.16
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	13	0.16
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	15	0.16
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	17	0.16
(1,1064)	1:37:A:ARG:H	1:37:A:ARG:HA	19	0.16
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	8	0.16
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	9	0.16
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	12	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	1	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	1	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	2	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	2	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	3	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	3	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	10	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	10	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	12	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	12	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	20	0.16
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	20	0.16
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	2	0.16
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	7	0.16
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	10	0.16
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	14	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	1	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	2	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	7	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	8	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	10	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	11	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	12	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	15	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	16	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	17	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	18	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	19	0.16
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	20	0.16
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	10	0.16
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	15	0.16
(1,1035)	1:58:A:ASP:H	1:58:A:ASP:HA	16	0.16
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	2	0.16
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	4	0.16
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	7	0.16
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	9	0.16
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	15	0.16
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	20	0.16
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	4	0.16
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	10	0.16
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	11	0.16
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	18	0.16
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	6	0.16
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	20	0.16
(1,1013)	1:75:A:LYS:H	1:74:A:ARG:HG2	16	0.16
(1,1013)	1:75:A:LYS:H	1:74:A:ARG:HG3	16	0.16
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	16	0.16
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	4	0.16
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	6	0.16
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	8	0.16
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	10	0.16
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	12	0.16
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	19	0.16
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	20	0.16
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	18	0.16
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	17	0.16
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	17	0.16
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	18	0.16
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	18	0.16
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	19	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	2	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	3	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	7	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	8	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	9	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	11	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	12	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	13	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	14	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	15	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	16	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	17	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	18	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	19	0.16
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	20	0.16
(1,951)	1:115:A:LYS:H	1:114:A:GLU:HB2	2	0.16
(1,951)	1:115:A:LYS:H	1:114:A:GLU:HB3	2	0.16
(1,950)	1:115:A:LYS:H	1:115:A:LYS:HD2	1	0.16
(1,950)	1:115:A:LYS:H	1:115:A:LYS:HD3	1	0.16
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	1	0.16
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	1	0.16
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	10	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	1	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	2	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	3	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	5	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	8	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	9	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	11	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	12	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	13	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	15	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	16	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	17	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	19	0.16
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	20	0.16
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	3	0.16
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	5	0.16
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	6	0.16
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	11	0.16
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	14	0.16
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	15	0.16
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	17	0.16
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	19	0.16
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	20	0.16
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	9	0.16
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	10	0.16
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	10	0.16
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	16	0.16
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	16	0.16
(1,910)	1:139:A:GLU:H	1:138:A:TYR:HB2	11	0.16
(1,910)	1:139:A:GLU:H	1:138:A:TYR:HB3	11	0.16
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	4	0.16
(1,906)	1:143:A:GLN:H	1:142:A:VAL:HA	9	0.16
(1,900)	1:147:A:ALA:H	1:146:A:THR:HA	8	0.16
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	7	0.16
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	7	0.16
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	12	0.16
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	12	0.16
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	15	0.16
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	15	0.16
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	20	0.16
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	20	0.16
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	5	0.16
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	5	0.16
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	14	0.16
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	14	0.16
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	12	0.16
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	13	0.16
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	1	0.16
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	20	0.16
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	6	0.16
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	6	0.16
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	6	0.16
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	7	0.16
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	7	0.16
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	7	0.16
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	12	0.16
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	14	0.16
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	16	0.16
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	13	0.16
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	15	0.16
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	15	0.16
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG2	1	0.16
(1,715)	1:114:A:GLU:H	1:109:A:MET:HG3	1	0.16
(1,711)	1:114:A:GLU:H	1:110:A:THR:HA	8	0.16
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	11	0.16
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	12	0.16
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	15	0.16
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	1	0.16
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	6	0.16
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	16	0.16
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	17	0.16
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	18	0.16
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	19	0.16
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	20	0.16
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	1	0.16
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	5	0.16
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	12	0.16
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	16	0.16
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	20	0.16
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	7	0.16
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	16	0.16
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	3	0.16
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	5	0.16
(1,139)	1:124:A:MET:H	1:123:A:GLU:H	13	0.16
(1,2930)	1:144:A:MET:HB2	2:154:B:PHE:HB2	2	0.15
(1,2930)	1:144:A:MET:HB2	2:154:B:PHE:HB3	2	0.15
(1,2930)	1:144:A:MET:HB3	2:154:B:PHE:HB2	2	0.15
(1,2930)	1:144:A:MET:HB3	2:154:B:PHE:HB3	2	0.15
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG2	16	0.15
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG3	16	0.15
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG2	16	0.15
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG3	16	0.15
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG2	16	0.15
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG3	16	0.15
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG2	17	0.15
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG3	17	0.15
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG2	17	0.15
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG3	17	0.15
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG2	17	0.15
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG3	17	0.15
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	13	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	13	0.15
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	13	0.15
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	14	0.15
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	14	0.15
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	14	0.15
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	3	0.15
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	7	0.15
(1,2817)	1:131:A:ASP:HB3	1:132:A:GLY:H	20	0.15
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	2	0.15
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	2	0.15
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	7	0.15
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	7	0.15
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	9	0.15
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	9	0.15
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB2	18	0.15
(1,2815)	1:134:A:GLY:HA2	1:135:A:GLN:HB3	18	0.15
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	6	0.15
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	6	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	4	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	5	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	6	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	7	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	9	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	10	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	12	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	13	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	14	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	15	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	17	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	18	0.15
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	19	0.15
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	1	0.15
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	2	0.15
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	3	0.15
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	4	0.15
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	5	0.15
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	6	0.15
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	7	0.15
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	9	0.15
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	10	0.15
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	14	0.15
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	18	0.15
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	20	0.15
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	4	0.15
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	6	0.15
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	7	0.15
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	8	0.15
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	9	0.15
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	2	0.15
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	2	0.15
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	4	0.15
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	4	0.15
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	8	0.15
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	8	0.15
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	19	0.15
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	19	0.15
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	15	0.15
(1,2767)	1:73:A:ALA:HB1	1:74:A:ARG:H	5	0.15
(1,2767)	1:73:A:ALA:HB2	1:74:A:ARG:H	5	0.15
(1,2767)	1:73:A:ALA:HB3	1:74:A:ARG:H	5	0.15
(1,2767)	1:73:A:ALA:HB1	1:74:A:ARG:H	7	0.15
(1,2767)	1:73:A:ALA:HB2	1:74:A:ARG:H	7	0.15
(1,2767)	1:73:A:ALA:HB3	1:74:A:ARG:H	7	0.15
(1,2764)	1:21:A:LYS:HD2	1:19:A:PHE:HA	12	0.15
(1,2764)	1:21:A:LYS:HD3	1:19:A:PHE:HA	12	0.15
(1,2764)	1:21:A:LYS:HD2	1:19:A:PHE:HA	16	0.15
(1,2764)	1:21:A:LYS:HD3	1:19:A:PHE:HA	16	0.15
(1,2764)	1:21:A:LYS:HD2	1:19:A:PHE:HA	18	0.15
(1,2764)	1:21:A:LYS:HD3	1:19:A:PHE:HA	18	0.15
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	7	0.15
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	7	0.15
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	14	0.15
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	14	0.15
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	17	0.15
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	7	0.15
(1,2726)	1:109:A:MET:HB2	1:110:A:THR:H	2	0.15
(1,2726)	1:109:A:MET:HB3	1:110:A:THR:H	2	0.15
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	6	0.15
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	6	0.15
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	11	0.15
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	11	0.15
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	1	0.15
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	1	0.15
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	6	0.15
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	8	0.15
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	9	0.15
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	13	0.15
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	16	0.15
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	17	0.15
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	7	0.15
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	1	0.15
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	1	0.15
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	10	0.15
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	10	0.15
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	15	0.15
(1,2658)	1:27:A:ILE:HD11	1:27:A:ILE:H	2	0.15
(1,2658)	1:27:A:ILE:HD12	1:27:A:ILE:H	2	0.15
(1,2658)	1:27:A:ILE:HD13	1:27:A:ILE:H	2	0.15
(1,2658)	1:27:A:ILE:HD11	1:27:A:ILE:H	9	0.15
(1,2658)	1:27:A:ILE:HD12	1:27:A:ILE:H	9	0.15
(1,2658)	1:27:A:ILE:HD13	1:27:A:ILE:H	9	0.15
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	5	0.15
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	7	0.15
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	9	0.15
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	15	0.15
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	18	0.15
(1,2642)	1:45:A:GLU:HB2	1:44:A:THR:HB	7	0.15
(1,2642)	1:45:A:GLU:HB3	1:44:A:THR:HB	7	0.15
(1,2642)	1:45:A:GLU:HB2	1:44:A:THR:HB	14	0.15
(1,2642)	1:45:A:GLU:HB3	1:44:A:THR:HB	14	0.15
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	13	0.15
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	13	0.15
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	13	0.15
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	13	0.15
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	13	0.15
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	13	0.15
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	2	0.15
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	7	0.15
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	17	0.15
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	19	0.15
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	20	0.15
(1,2617)	1:102:A:ALA:HA	1:105:A:LEU:H	18	0.15
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	4	0.15
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	4	0.15
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	8	0.15
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	8	0.15
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	8	0.15
(1,2603)	1:112:A:LEU:HD11	1:112:A:LEU:H	17	0.15
(1,2603)	1:112:A:LEU:HD12	1:112:A:LEU:H	17	0.15
(1,2603)	1:112:A:LEU:HD13	1:112:A:LEU:H	17	0.15
(1,2603)	1:112:A:LEU:HD21	1:112:A:LEU:H	17	0.15
(1,2603)	1:112:A:LEU:HD22	1:112:A:LEU:H	17	0.15
(1,2603)	1:112:A:LEU:HD23	1:112:A:LEU:H	17	0.15
(1,2603)	1:112:A:LEU:HD11	1:112:A:LEU:H	18	0.15
(1,2603)	1:112:A:LEU:HD12	1:112:A:LEU:H	18	0.15
(1,2603)	1:112:A:LEU:HD13	1:112:A:LEU:H	18	0.15
(1,2603)	1:112:A:LEU:HD21	1:112:A:LEU:H	18	0.15
(1,2603)	1:112:A:LEU:HD22	1:112:A:LEU:H	18	0.15
(1,2603)	1:112:A:LEU:HD23	1:112:A:LEU:H	18	0.15
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	10	0.15
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	11	0.15
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	15	0.15
(1,2571)	1:135:A:GLN:HB2	1:135:A:GLN:H	5	0.15
(1,2571)	1:135:A:GLN:HB3	1:135:A:GLN:H	5	0.15
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	11	0.15
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	11	0.15
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	11	0.15
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	11	0.15
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	11	0.15
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	11	0.15
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	11	0.15
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	11	0.15
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	11	0.15
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	13	0.15
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	13	0.15
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	13	0.15
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	13	0.15
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	13	0.15
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	13	0.15
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	13	0.15
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	13	0.15
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	13	0.15
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	17	0.15
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	17	0.15
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	17	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB2	20	0.15
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB3	20	0.15
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	16	0.15
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	1	0.15
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	4	0.15
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	5	0.15
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	6	0.15
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	18	0.15
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	1	0.15
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	3	0.15
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	4	0.15
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	5	0.15
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	10	0.15
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	12	0.15
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	13	0.15
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	14	0.15
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	16	0.15
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	1	0.15
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	5	0.15
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	10	0.15
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	11	0.15
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	12	0.15
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	13	0.15
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	14	0.15
(1,2517)	1:75:A:LYS:HG2	1:71:A:MET:HB2	10	0.15
(1,2517)	1:75:A:LYS:HG2	1:71:A:MET:HB3	10	0.15
(1,2517)	1:75:A:LYS:HG3	1:71:A:MET:HB2	10	0.15
(1,2517)	1:75:A:LYS:HG3	1:71:A:MET:HB3	10	0.15
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	4	0.15
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	4	0.15
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	4	0.15
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	4	0.15
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	4	0.15
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	4	0.15
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	5	0.15
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	5	0.15
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	5	0.15
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	5	0.15
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	5	0.15
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	5	0.15
(1,2507)	1:70:A:THR:HG21	1:70:A:THR:H	10	0.15
(1,2507)	1:70:A:THR:HG22	1:70:A:THR:H	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2507)	1:70:A:THR:HG23	1:70:A:THR:H	10	0.15
(1,2493)	1:4:A:LEU:HD11	1:73:A:ALA:HB1	3	0.15
(1,2493)	1:4:A:LEU:HD11	1:73:A:ALA:HB2	3	0.15
(1,2493)	1:4:A:LEU:HD11	1:73:A:ALA:HB3	3	0.15
(1,2493)	1:4:A:LEU:HD12	1:73:A:ALA:HB1	3	0.15
(1,2493)	1:4:A:LEU:HD12	1:73:A:ALA:HB2	3	0.15
(1,2493)	1:4:A:LEU:HD12	1:73:A:ALA:HB3	3	0.15
(1,2493)	1:4:A:LEU:HD13	1:73:A:ALA:HB1	3	0.15
(1,2493)	1:4:A:LEU:HD13	1:73:A:ALA:HB2	3	0.15
(1,2493)	1:4:A:LEU:HD13	1:73:A:ALA:HB3	3	0.15
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	6	0.15
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	6	0.15
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	6	0.15
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	12	0.15
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	12	0.15
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	12	0.15
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD11	15	0.15
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD12	15	0.15
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD13	15	0.15
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	1	0.15
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	3	0.15
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	4	0.15
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	5	0.15
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	8	0.15
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	9	0.15
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	16	0.15
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	17	0.15
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	18	0.15
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	20	0.15
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	4	0.15
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	5	0.15
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	6	0.15
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	9	0.15
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	12	0.15
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	13	0.15
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	16	0.15
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	17	0.15
(1,2469)	1:47:A:GLU:HA	1:47:A:GLU:H	18	0.15
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	6	0.15
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	14	0.15
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	19	0.15
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	19	0.15
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	6	0.15
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	6	0.15
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	6	0.15
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	14	0.15
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	14	0.15
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	14	0.15
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	4	0.15
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	4	0.15
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	14	0.15
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	14	0.15
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	18	0.15
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	18	0.15
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	19	0.15
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	19	0.15
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	19	0.15
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	3	0.15
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	17	0.15
(1,2389)	1:54:A:GLU:HB2	1:55:A:VAL:H	4	0.15
(1,2389)	1:54:A:GLU:HB3	1:55:A:VAL:H	4	0.15
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	14	0.15
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	20	0.15
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	19	0.15
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	20	0.15
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	20	0.15
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	20	0.15
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	20	0.15
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	20	0.15
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	20	0.15
(1,2362)	1:19:A:PHE:HB2	1:20:A:ASP:H	9	0.15
(1,2362)	1:19:A:PHE:HB3	1:20:A:ASP:H	9	0.15
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	2	0.15
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	9	0.15
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	1	0.15
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	6	0.15
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	8	0.15
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	2	0.15
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	4	0.15
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	8	0.15
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	20	0.15
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	5	0.15
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	19	0.15
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	5	0.15
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	3	0.15
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	5	0.15
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	7	0.15
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	8	0.15
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	9	0.15
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	10	0.15
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	12	0.15
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	14	0.15
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	15	0.15
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	16	0.15
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	18	0.15
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	19	0.15
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	20	0.15
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB2	3	0.15
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB3	3	0.15
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	8	0.15
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	10	0.15
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	18	0.15
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	18	0.15
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	18	0.15
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	18	0.15
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	19	0.15
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	19	0.15
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	19	0.15
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	19	0.15
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	9	0.15
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	4	0.15
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	7	0.15
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	7	0.15
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	1	0.15
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	1	0.15
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	1	0.15
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	18	0.15
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	18	0.15
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	18	0.15
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD11	9	0.15
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD12	9	0.15
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD13	9	0.15
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD11	9	0.15
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD12	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD13	9	0.15
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	10	0.15
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	10	0.15
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	4	0.15
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	6	0.15
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	7	0.15
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	9	0.15
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	18	0.15
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG2	2	0.15
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG3	2	0.15
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG2	11	0.15
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG3	11	0.15
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	13	0.15
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	13	0.15
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	1	0.15
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	1	0.15
(1,2132)	1:77:A:LYS:HB2	1:76:A:MET:H	19	0.15
(1,2132)	1:77:A:LYS:HB3	1:76:A:MET:H	19	0.15
(1,2130)	1:26:A:THR:HG21	1:63:A:ILE:HB	4	0.15
(1,2130)	1:26:A:THR:HG22	1:63:A:ILE:HB	4	0.15
(1,2130)	1:26:A:THR:HG23	1:63:A:ILE:HB	4	0.15
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	2	0.15
(1,2110)	1:34:A:THR:HB	1:37:A:ARG:H	8	0.15
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	4	0.15
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	5	0.15
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	6	0.15
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	10	0.15
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	10	0.15
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	10	0.15
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	10	0.15
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	16	0.15
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	16	0.15
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	16	0.15
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	16	0.15
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD1	3	0.15
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD2	3	0.15
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD1	4	0.15
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD2	4	0.15
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	2	0.15
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	9	0.15
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	14	0.15
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	3	0.15
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	7	0.15
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	10	0.15
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	13	0.15
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	14	0.15
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	20	0.15
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	1	0.15
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	1	0.15
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	1	0.15
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	1	0.15
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	1	0.15
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	1	0.15
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	8	0.15
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	8	0.15
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	8	0.15
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	8	0.15
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	8	0.15
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	8	0.15
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	13	0.15
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	13	0.15
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	13	0.15
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	13	0.15
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	13	0.15
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	13	0.15
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	17	0.15
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	17	0.15
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	17	0.15
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	17	0.15
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	17	0.15
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	17	0.15
(1,1957)	1:125:A:ILE:HG12	1:105:A:LEU:HD21	8	0.15
(1,1957)	1:125:A:ILE:HG12	1:105:A:LEU:HD22	8	0.15
(1,1957)	1:125:A:ILE:HG12	1:105:A:LEU:HD23	8	0.15
(1,1957)	1:125:A:ILE:HG13	1:105:A:LEU:HD21	8	0.15
(1,1957)	1:125:A:ILE:HG13	1:105:A:LEU:HD22	8	0.15
(1,1957)	1:125:A:ILE:HG13	1:105:A:LEU:HD23	8	0.15
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	2	0.15
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	14	0.15
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	14	0.15
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	14	0.15
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	19	0.15
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	19	0.15
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	3	0.15
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	3	0.15
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	3	0.15
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	3	0.15
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	5	0.15
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	5	0.15
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	5	0.15
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	5	0.15
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	10	0.15
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	10	0.15
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	10	0.15
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	10	0.15
(1,1832)	1:28:A:THR:HB	1:31:A:GLU:HA	6	0.15
(1,1832)	1:28:A:THR:HB	1:31:A:GLU:HA	19	0.15
(1,1792)	1:39:A:LEU:HD11	1:12:A:PHE:HA	4	0.15
(1,1792)	1:39:A:LEU:HD12	1:12:A:PHE:HA	4	0.15
(1,1792)	1:39:A:LEU:HD13	1:12:A:PHE:HA	4	0.15
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	12	0.15
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	12	0.15
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	13	0.15
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	13	0.15
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	7	0.15
(1,1460)	1:100:A:ILE:HB	1:101:A:SER:HB2	16	0.15
(1,1460)	1:100:A:ILE:HB	1:101:A:SER:HB3	16	0.15
(1,1181)	1:87:A:GLU:HG2	1:85:A:ILE:HB	15	0.15
(1,1181)	1:87:A:GLU:HG3	1:85:A:ILE:HB	15	0.15
(1,1159)	1:91:A:VAL:HB	1:93:A:ASP:HB2	16	0.15
(1,1159)	1:91:A:VAL:HB	1:93:A:ASP:HB3	16	0.15
(1,1101)	1:9:A:ILE:H	1:8:A:GLN:HA	8	0.15
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	1	0.15
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	12	0.15
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	1	0.15
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	6	0.15
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	8	0.15
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	9	0.15
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	13	0.15
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	16	0.15
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	17	0.15
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	1	0.15
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	4	0.15
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	6	0.15
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	18	0.15
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	4	0.15
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	4	0.15
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	11	0.15
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	11	0.15
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	17	0.15
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	17	0.15
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	10	0.15
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	10	0.15
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	14	0.15
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	14	0.15
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	16	0.15
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	16	0.15
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	1	0.15
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	3	0.15
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	17	0.15
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	1	0.15
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	2	0.15
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	3	0.15
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	13	0.15
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	17	0.15
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	18	0.15
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	7	0.15
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	7	0.15
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	14	0.15
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	14	0.15
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	1	0.15
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	3	0.15
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	4	0.15
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	5	0.15
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	8	0.15
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	9	0.15
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	16	0.15
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	17	0.15
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	18	0.15
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	20	0.15
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	4	0.15
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	6	0.15
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	13	0.15
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	14	0.15
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	5	0.15
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	6	0.15
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	7	0.15
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	9	0.15
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	10	0.15
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	12	0.15
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	13	0.15
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	14	0.15
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	15	0.15
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	17	0.15
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	18	0.15
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	19	0.15
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	2	0.15
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	7	0.15
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	17	0.15
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	19	0.15
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	20	0.15
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	4	0.15
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	6	0.15
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	7	0.15
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	8	0.15
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	9	0.15
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	1	0.15
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	5	0.15
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	10	0.15
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	11	0.15
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	12	0.15
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	13	0.15
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	14	0.15
(1,1022)	1:71:A:MET:H	1:68:A:PHE:HA	19	0.15
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	2	0.15
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	6	0.15
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	7	0.15
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	2	0.15
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	5	0.15
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	7	0.15
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD2	20	0.15
(1,1014)	1:75:A:LYS:H	1:75:A:LYS:HD3	20	0.15
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	8	0.15
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	10	0.15
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	14	0.15
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	14	0.15
(1,1002)	1:83:A:GLU:H	1:82:A:GLU:HA	17	0.15
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	11	0.15
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	13	0.15
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	15	0.15
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	17	0.15
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	5	0.15
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	12	0.15
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	14	0.15
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	18	0.15
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	8	0.15
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	8	0.15
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	12	0.15
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	12	0.15
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB2	13	0.15
(1,961)	1:107:A:HIS:H	1:106:A:ARG:HB3	13	0.15
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	4	0.15
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	5	0.15
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	10	0.15
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	5	0.15
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	7	0.15
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	8	0.15
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	12	0.15
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	14	0.15
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	19	0.15
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	20	0.15
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	6	0.15
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	7	0.15
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	14	0.15
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	8	0.15
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	8	0.15
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	10	0.15
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	11	0.15
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	12	0.15
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	13	0.15
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	10	0.15
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	11	0.15
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	15	0.15
(1,919)	1:135:A:GLN:H	1:135:A:GLN:HB2	5	0.15
(1,919)	1:135:A:GLN:H	1:135:A:GLN:HB3	5	0.15
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	8	0.15
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	11	0.15
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	11	0.15
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	15	0.15
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	15	0.15
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	9	0.15
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	4	0.15
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	4	0.15
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	14	0.15
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	14	0.15
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	18	0.15
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	18	0.15
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	8	0.15
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	2	0.15
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	2	0.15
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	8	0.15
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	8	0.15
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	15	0.15
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	15	0.15
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB2	9	0.15
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB3	9	0.15
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	3	0.15
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	5	0.15
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	16	0.15
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	18	0.15
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	6	0.15
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	14	0.15
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	2	0.15
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	7	0.15
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	8	0.15
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	10	0.15
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	18	0.15
(1,794)	1:70:A:THR:H	1:70:A:THR:HG21	10	0.15
(1,794)	1:70:A:THR:H	1:70:A:THR:HG22	10	0.15
(1,794)	1:70:A:THR:H	1:70:A:THR:HG23	10	0.15
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	4	0.15
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	6	0.15
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	7	0.15
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	9	0.15
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	18	0.15
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	19	0.15
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	19	0.15
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	13	0.15
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	13	0.15
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	1	0.15
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	7	0.15
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	8	0.15
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	10	0.15
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	10	0.15
(1,629)	1:15:A:ALA:H	1:14:A:GLU:HA	7	0.15
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	15	0.15
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	15	0.15
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD11	2	0.15
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD12	2	0.15
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD13	2	0.15
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD11	9	0.15
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD12	9	0.15
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD13	9	0.15
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	1	0.15
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	6	0.15
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	8	0.15
(1,606)	1:27:A:ILE:H	1:27:A:ILE:HG21	4	0.15
(1,606)	1:27:A:ILE:H	1:27:A:ILE:HG22	4	0.15
(1,606)	1:27:A:ILE:H	1:27:A:ILE:HG23	4	0.15
(1,581)	1:44:A:THR:H	1:46:A:ALA:H	15	0.15
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE1	4	0.15
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE2	4	0.15
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE1	6	0.15
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE2	6	0.15
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE1	19	0.15
(1,495)	1:89:A:PHE:H	1:89:A:PHE:HE2	19	0.15
(1,438)	1:117:A:THR:H	1:121:A:VAL:HG11	4	0.15
(1,438)	1:117:A:THR:H	1:121:A:VAL:HG12	4	0.15
(1,438)	1:117:A:THR:H	1:121:A:VAL:HG13	4	0.15
(1,438)	1:117:A:THR:H	1:121:A:VAL:HG11	10	0.15
(1,438)	1:117:A:THR:H	1:121:A:VAL:HG12	10	0.15
(1,438)	1:117:A:THR:H	1:121:A:VAL:HG13	10	0.15
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	4	0.15
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	4	0.15
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	5	0.15
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	5	0.15
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	6	0.15
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	6	0.15
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	8	0.15
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	9	0.15
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	9	0.15
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	11	0.15
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	11	0.15
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	2	0.15
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	17	0.15
(1,139)	1:124:A:MET:H	1:123:A:GLU:H	12	0.15
(1,2928)	1:76:A:MET:HG2	2:163:B:ILE:HG12	19	0.14
(1,2928)	1:76:A:MET:HG2	2:163:B:ILE:HG13	19	0.14
(1,2928)	1:76:A:MET:HG3	2:163:B:ILE:HG12	19	0.14
(1,2928)	1:76:A:MET:HG3	2:163:B:ILE:HG13	19	0.14
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	15	0.14
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	15	0.14
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD2	1	0.14
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD3	1	0.14
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG11	15	0.14
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG12	15	0.14
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG13	15	0.14
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG21	15	0.14
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG22	15	0.14
(1,2915)	1:92:A:PHE:HA	2:161:B:VAL:HG23	15	0.14
(1,2812)	1:141:A:PHE:HB2	1:142:A:VAL:H	1	0.14
(1,2812)	1:141:A:PHE:HB3	1:142:A:VAL:H	1	0.14
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	5	0.14
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	5	0.14
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	14	0.14
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	14	0.14
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	17	0.14
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	17	0.14
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	1	0.14
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	2	0.14
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	3	0.14
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	8	0.14
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	11	0.14
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	16	0.14
(1,2798)	1:54:A:GLU:HA	1:54:A:GLU:H	20	0.14
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	8	0.14
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	11	0.14
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	12	0.14
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	13	0.14
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	17	0.14
(1,2791)	1:11:A:GLU:HG2	1:11:A:GLU:H	8	0.14
(1,2791)	1:11:A:GLU:HG3	1:11:A:GLU:H	8	0.14
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	1	0.14
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	2	0.14
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	3	0.14
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	5	0.14
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	10	0.14
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	12	0.14
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	14	0.14
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	15	0.14
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	16	0.14
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	17	0.14
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	20	0.14
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	7	0.14
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	7	0.14
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	12	0.14
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	12	0.14
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	16	0.14
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	16	0.14
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	20	0.14
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	20	0.14
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	4	0.14
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	4	0.14
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	18	0.14
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	18	0.14
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	5	0.14
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	6	0.14
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	7	0.14
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	10	0.14
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	16	0.14
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	17	0.14
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	9	0.14
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	9	0.14
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	14	0.14
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	14	0.14
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	14	0.14
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	2	0.14
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	3	0.14
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	4	0.14
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	5	0.14
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	10	0.14
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	11	0.14
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	12	0.14
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	14	0.14
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	15	0.14
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	18	0.14
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	19	0.14
(1,2678)	1:17:A:SER:HA	1:17:A:SER:H	20	0.14
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	2	0.14
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	4	0.14
(1,2667)	1:77:A:LYS:HA	1:77:A:LYS:H	11	0.14
(1,2667)	1:77:A:LYS:HA	1:77:A:LYS:H	16	0.14
(1,2658)	1:27:A:ILE:HD11	1:27:A:ILE:H	1	0.14
(1,2658)	1:27:A:ILE:HD12	1:27:A:ILE:H	1	0.14
(1,2658)	1:27:A:ILE:HD13	1:27:A:ILE:H	1	0.14
(1,2658)	1:27:A:ILE:HD11	1:27:A:ILE:H	6	0.14
(1,2658)	1:27:A:ILE:HD12	1:27:A:ILE:H	6	0.14
(1,2658)	1:27:A:ILE:HD13	1:27:A:ILE:H	6	0.14
(1,2658)	1:27:A:ILE:HD11	1:27:A:ILE:H	7	0.14
(1,2658)	1:27:A:ILE:HD12	1:27:A:ILE:H	7	0.14
(1,2658)	1:27:A:ILE:HD13	1:27:A:ILE:H	7	0.14
(1,2658)	1:27:A:ILE:HD11	1:27:A:ILE:H	13	0.14
(1,2658)	1:27:A:ILE:HD12	1:27:A:ILE:H	13	0.14
(1,2658)	1:27:A:ILE:HD13	1:27:A:ILE:H	13	0.14
(1,2658)	1:27:A:ILE:HD11	1:27:A:ILE:H	19	0.14
(1,2658)	1:27:A:ILE:HD12	1:27:A:ILE:H	19	0.14
(1,2658)	1:27:A:ILE:HD13	1:27:A:ILE:H	19	0.14
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	8	0.14
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	19	0.14
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	2	0.14
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	2	0.14
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	3	0.14
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	3	0.14
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	18	0.14
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	18	0.14
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	1	0.14
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	1	0.14
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	1	0.14
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	4	0.14
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	4	0.14
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	4	0.14
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	6	0.14
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	6	0.14
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	8	0.14
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	8	0.14
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	8	0.14
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	9	0.14
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	9	0.14
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	9	0.14
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	17	0.14
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	17	0.14
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	17	0.14
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	18	0.14
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	18	0.14
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	18	0.14
(1,2642)	1:45:A:GLU:HB2	1:44:A:THR:HB	20	0.14
(1,2642)	1:45:A:GLU:HB3	1:44:A:THR:HB	20	0.14
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	1	0.14
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	1	0.14
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	1	0.14
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	1	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	1	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	1	0.14
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	2	0.14
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	2	0.14
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	2	0.14
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	2	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	2	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	2	0.14
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	5	0.14
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	5	0.14
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	5	0.14
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	5	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	5	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	5	0.14
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	10	0.14
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	10	0.14
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	10	0.14
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	10	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	10	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	10	0.14
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	12	0.14
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	12	0.14
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	12	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	12	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	12	0.14
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	14	0.14
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	14	0.14
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	14	0.14
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	14	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	14	0.14
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	14	0.14
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	1	0.14
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	5	0.14
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	8	0.14
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	12	0.14
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	14	0.14
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	16	0.14
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	18	0.14
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	11	0.14
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	9	0.14
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	10	0.14
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	11	0.14
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	16	0.14
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	19	0.14
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	18	0.14
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	18	0.14
(1,2610)	1:108:A:VAL:HG11	1:109:A:MET:H	7	0.14
(1,2610)	1:108:A:VAL:HG12	1:109:A:MET:H	7	0.14
(1,2610)	1:108:A:VAL:HG13	1:109:A:MET:H	7	0.14
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	1	0.14
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	2	0.14
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	4	0.14
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	5	0.14
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	6	0.14
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	9	0.14
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	12	0.14
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	13	0.14
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	16	0.14
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	18	0.14
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	20	0.14
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD11	2	0.14
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD12	2	0.14
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD13	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD11	2	0.14
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD12	2	0.14
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD13	2	0.14
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD11	2	0.14
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD12	2	0.14
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD13	2	0.14
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD11	8	0.14
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD12	8	0.14
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD13	8	0.14
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD11	8	0.14
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD12	8	0.14
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD13	8	0.14
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD11	8	0.14
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD12	8	0.14
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD13	8	0.14
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD11	18	0.14
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD12	18	0.14
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD13	18	0.14
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD11	18	0.14
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD12	18	0.14
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD13	18	0.14
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD11	18	0.14
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD12	18	0.14
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD13	18	0.14
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	6	0.14
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	6	0.14
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	6	0.14
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	6	0.14
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	6	0.14
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	6	0.14
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	6	0.14
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	6	0.14
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	6	0.14
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	4	0.14
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	4	0.14
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	4	0.14
(1,2560)	1:136:A:VAL:HG11	1:128:A:ALA:H	9	0.14
(1,2560)	1:136:A:VAL:HG12	1:128:A:ALA:H	9	0.14
(1,2560)	1:136:A:VAL:HG13	1:128:A:ALA:H	9	0.14
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	1	0.14
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	14	0.14
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	15	0.14
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	19	0.14
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	20	0.14
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG2	2	0.14
(1,2529)	1:14:A:GLU:HA	1:13:A:LYS:HG3	2	0.14
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	11	0.14
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	15	0.14
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	18	0.14
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	16	0.14
(1,2523)	1:67:A:GLU:HA	1:67:A:GLU:H	17	0.14
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	6	0.14
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	6	0.14
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	6	0.14
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	6	0.14
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	6	0.14
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	6	0.14
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG21	6	0.14
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG22	6	0.14
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG23	6	0.14
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG21	6	0.14
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG22	6	0.14
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG23	6	0.14
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG21	6	0.14
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG22	6	0.14
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG23	6	0.14
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG21	11	0.14
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG22	11	0.14
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG23	11	0.14
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG21	11	0.14
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG22	11	0.14
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG23	11	0.14
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG21	11	0.14
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG22	11	0.14
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG23	11	0.14
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	5	0.14
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	5	0.14
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	5	0.14
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	8	0.14
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	8	0.14
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	8	0.14
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	10	0.14
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	10	0.14
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB2	6	0.14
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB3	6	0.14
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB2	11	0.14
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB3	11	0.14
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	3	0.14
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	1	0.14
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	3	0.14
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	9	0.14
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	12	0.14
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	13	0.14
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	6	0.14
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	12	0.14
(1,2472)	1:47:A:GLU:HA	1:50:A:ASP:H	13	0.14
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	5	0.14
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	9	0.14
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	10	0.14
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	12	0.14
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	16	0.14
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	19	0.14
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	3	0.14
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	3	0.14
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	3	0.14
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	5	0.14
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	5	0.14
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	5	0.14
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	13	0.14
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	13	0.14
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	13	0.14
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	14	0.14
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	14	0.14
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	14	0.14
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	9	0.14
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	9	0.14
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	9	0.14
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	12	0.14
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	12	0.14
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	12	0.14
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	15	0.14
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	15	0.14
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	15	0.14
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	16	0.14
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	16	0.14
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	20	0.14
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	20	0.14
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	20	0.14
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	6	0.14
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	6	0.14
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	10	0.14
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	10	0.14
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	11	0.14
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	11	0.14
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	2	0.14
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	10	0.14
(1,2362)	1:19:A:PHE:HB2	1:20:A:ASP:H	3	0.14
(1,2362)	1:19:A:PHE:HB3	1:20:A:ASP:H	3	0.14
(1,2362)	1:19:A:PHE:HB2	1:20:A:ASP:H	13	0.14
(1,2362)	1:19:A:PHE:HB3	1:20:A:ASP:H	13	0.14
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	15	0.14
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	19	0.14
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	6	0.14
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	17	0.14
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	19	0.14
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	20	0.14
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	2	0.14
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	9	0.14
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	19	0.14
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB2	1	0.14
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB3	1	0.14
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB2	1	0.14
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB3	1	0.14
(1,2289)	1:50:A:ASP:HA	1:53:A:ASN:H	11	0.14
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	3	0.14
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	7	0.14
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	18	0.14
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	12	0.14
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	1	0.14
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	3	0.14
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	7	0.14
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	9	0.14
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	12	0.14
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	14	0.14
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	15	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	16	0.14
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	20	0.14
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	4	0.14
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB2	15	0.14
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB3	15	0.14
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	12	0.14
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	13	0.14
(1,2226)	1:125:A:ILE:HA	1:128:A:ALA:H	13	0.14
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	5	0.14
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	5	0.14
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	5	0.14
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	5	0.14
(1,2214)	1:130:A:ILE:HD11	1:143:A:GLN:HB2	8	0.14
(1,2214)	1:130:A:ILE:HD11	1:143:A:GLN:HB3	8	0.14
(1,2214)	1:130:A:ILE:HD12	1:143:A:GLN:HB2	8	0.14
(1,2214)	1:130:A:ILE:HD12	1:143:A:GLN:HB3	8	0.14
(1,2214)	1:130:A:ILE:HD13	1:143:A:GLN:HB2	8	0.14
(1,2214)	1:130:A:ILE:HD13	1:143:A:GLN:HB3	8	0.14
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	2	0.14
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	5	0.14
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	6	0.14
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	9	0.14
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	13	0.14
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	14	0.14
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	15	0.14
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	16	0.14
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	19	0.14
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	19	0.14
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	19	0.14
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	19	0.14
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD11	6	0.14
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD12	6	0.14
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD13	6	0.14
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD11	6	0.14
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD12	6	0.14
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD13	6	0.14
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	1	0.14
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	5	0.14
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	17	0.14
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG2	9	0.14
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG3	9	0.14
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG2	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG3	12	0.14
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	3	0.14
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	3	0.14
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	5	0.14
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	5	0.14
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	15	0.14
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	15	0.14
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	16	0.14
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	16	0.14
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	18	0.14
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	18	0.14
(1,2130)	1:26:A:THR:HG21	1:63:A:ILE:HB	11	0.14
(1,2130)	1:26:A:THR:HG22	1:63:A:ILE:HB	11	0.14
(1,2130)	1:26:A:THR:HG23	1:63:A:ILE:HB	11	0.14
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	1	0.14
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	2	0.14
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	3	0.14
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	8	0.14
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	13	0.14
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	17	0.14
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	18	0.14
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	20	0.14
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	20	0.14
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	20	0.14
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	20	0.14
(1,2077)	1:86:A:ARG:HA	1:87:A:GLU:H	5	0.14
(1,2047)	1:100:A:ILE:HG21	1:93:A:ASP:H	16	0.14
(1,2047)	1:100:A:ILE:HG22	1:93:A:ASP:H	16	0.14
(1,2047)	1:100:A:ILE:HG23	1:93:A:ASP:H	16	0.14
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	3	0.14
(1,2035)	1:104:A:GLU:HA	1:105:A:LEU:H	20	0.14
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	1	0.14
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	4	0.14
(1,2025)	1:106:A:ARG:HA	1:107:A:HIS:H	15	0.14
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	10	0.14
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	10	0.14
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	10	0.14
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	10	0.14
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	10	0.14
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	10	0.14
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	10	0.14
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	10	0.14
(1,1962)	1:123:A:GLU:HA	1:124:A:MET:H	1	0.14
(1,1962)	1:123:A:GLU:HA	1:124:A:MET:H	14	0.14
(1,1962)	1:123:A:GLU:HA	1:124:A:MET:H	16	0.14
(1,1962)	1:123:A:GLU:HA	1:124:A:MET:H	20	0.14
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	2	0.14
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	2	0.14
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	13	0.14
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	13	0.14
(1,1953)	1:125:A:ILE:HG12	1:129:A:ASP:H	7	0.14
(1,1953)	1:125:A:ILE:HG13	1:129:A:ASP:H	7	0.14
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	11	0.14
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	15	0.14
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	20	0.14
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	20	0.14
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	20	0.14
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	20	0.14
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	20	0.14
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	20	0.14
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	20	0.14
(1,1922)	1:141:A:PHE:HA	1:141:A:PHE:HZ	1	0.14
(1,1876)	1:67:A:GLU:HB2	1:64:A:ASP:HA	15	0.14
(1,1876)	1:67:A:GLU:HB3	1:64:A:ASP:HA	15	0.14
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	7	0.14
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	7	0.14
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	8	0.14
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	8	0.14
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	14	0.14
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	14	0.14
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	16	0.14
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	16	0.14
(1,1571)	1:76:A:MET:HB2	1:72:A:MET:HB2	11	0.14
(1,1571)	1:76:A:MET:HB2	1:72:A:MET:HB3	11	0.14
(1,1571)	1:76:A:MET:HB3	1:72:A:MET:HB2	11	0.14
(1,1571)	1:76:A:MET:HB3	1:72:A:MET:HB3	11	0.14
(1,1569)	1:76:A:MET:HB2	1:75:A:LYS:HA	15	0.14
(1,1569)	1:76:A:MET:HB3	1:75:A:LYS:HA	15	0.14
(1,1557)	1:27:A:ILE:HG21	1:63:A:ILE:HB	16	0.14
(1,1557)	1:27:A:ILE:HG22	1:63:A:ILE:HB	16	0.14
(1,1557)	1:27:A:ILE:HG23	1:63:A:ILE:HB	16	0.14
(1,1557)	1:27:A:ILE:HG21	1:63:A:ILE:HB	17	0.14
(1,1557)	1:27:A:ILE:HG22	1:63:A:ILE:HB	17	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1557)	1:27:A:ILE:HG23	1:63:A:ILE:HB	17	0.14
(1,1531)	1:4:A:LEU:HG	1:8:A:GLN:HA	18	0.14
(1,1503)	1:45:A:GLU:HG2	1:44:A:THR:HB	2	0.14
(1,1503)	1:45:A:GLU:HG3	1:44:A:THR:HB	2	0.14
(1,1503)	1:45:A:GLU:HG2	1:44:A:THR:HB	3	0.14
(1,1503)	1:45:A:GLU:HG3	1:44:A:THR:HB	3	0.14
(1,1503)	1:45:A:GLU:HG2	1:44:A:THR:HB	4	0.14
(1,1503)	1:45:A:GLU:HG3	1:44:A:THR:HB	4	0.14
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG2	1	0.14
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG3	1	0.14
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG2	1	0.14
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG3	1	0.14
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG2	1	0.14
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG3	1	0.14
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	13	0.14
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	9	0.14
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	9	0.14
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	9	0.14
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	9	0.14
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	9	0.14
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	9	0.14
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	9	0.14
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	9	0.14
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	9	0.14
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	4	0.14
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	5	0.14
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	9	0.14
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	10	0.14
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	11	0.14
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	13	0.14
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	14	0.14
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	15	0.14
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	16	0.14
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	17	0.14
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	20	0.14
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	2	0.14
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	3	0.14
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	4	0.14
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	5	0.14
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	7	0.14
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	10	0.14
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	12	0.14
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	14	0.14
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	15	0.14
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	18	0.14
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	19	0.14
(1,1093)	1:17:A:SER:H	1:17:A:SER:HA	20	0.14
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	7	0.14
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	15	0.14
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	19	0.14
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	20	0.14
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	5	0.14
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	5	0.14
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	5	0.14
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	5	0.14
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	17	0.14
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	17	0.14
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	18	0.14
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	18	0.14
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	2	0.14
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	5	0.14
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	10	0.14
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	11	0.14
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	12	0.14
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	13	0.14
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	20	0.14
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	1	0.14
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	3	0.14
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	9	0.14
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	12	0.14
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	13	0.14
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	4	0.14
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	5	0.14
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	4	0.14
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	4	0.14
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	18	0.14
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	18	0.14
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	6	0.14
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	12	0.14
(1,1049)	1:50:A:ASP:H	1:47:A:GLU:HA	13	0.14
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	5	0.14
(1,1047)	1:50:A:ASP:H	1:50:A:ASP:HA	9	0.14
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	2	0.14
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	3	0.14
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	8	0.14
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	11	0.14
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	16	0.14
(1,1045)	1:54:A:GLU:H	1:54:A:GLU:HA	20	0.14
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	1	0.14
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	5	0.14
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	8	0.14
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	12	0.14
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	14	0.14
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	16	0.14
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	18	0.14
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	1	0.14
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	2	0.14
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	3	0.14
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	5	0.14
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	10	0.14
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	12	0.14
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	14	0.14
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	15	0.14
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	16	0.14
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	17	0.14
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	20	0.14
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	16	0.14
(1,1027)	1:67:A:GLU:H	1:67:A:GLU:HA	17	0.14
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	5	0.14
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	10	0.14
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	13	0.14
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	20	0.14
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	6	0.14
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	17	0.14
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	19	0.14
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	20	0.14
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	12	0.14
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	16	0.14
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	4	0.14
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	17	0.14
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	19	0.14
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	2	0.14
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	3	0.14
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	10	0.14
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	16	0.14
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	18	0.14
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	11	0.14
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	5	0.14
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	6	0.14
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	7	0.14
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	10	0.14
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	16	0.14
(1,969)	1:103:A:ALA:H	1:101:A:SER:HA	10	0.14
(1,969)	1:103:A:ALA:H	1:101:A:SER:HA	20	0.14
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	1	0.14
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	7	0.14
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	11	0.14
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	13	0.14
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	15	0.14
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	20	0.14
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	1	0.14
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	4	0.14
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	4	0.14
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	3	0.14
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	11	0.14
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	13	0.14
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	4	0.14
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	10	0.14
(1,939)	1:123:A:GLU:H	1:123:A:GLU:HA	7	0.14
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	1	0.14
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	2	0.14
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	3	0.14
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	5	0.14
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	7	0.14
(1,930)	1:127:A:GLU:H	1:127:A:GLU:HA	4	0.14
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	1	0.14
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	2	0.14
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	4	0.14
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	5	0.14
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	6	0.14
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	9	0.14
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	12	0.14
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	13	0.14
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	16	0.14
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	20	0.14
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	1	0.14
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	1	0.14
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	3	0.14
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	3	0.14
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	12	0.14
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	12	0.14
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	17	0.14
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	17	0.14
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	18	0.14
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	18	0.14
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	20	0.14
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	20	0.14
(1,902)	1:143:A:GLN:H	1:140:A:GLU:HA	1	0.14
(1,902)	1:143:A:GLN:H	1:140:A:GLU:HA	3	0.14
(1,902)	1:143:A:GLN:H	1:140:A:GLU:HA	5	0.14
(1,902)	1:143:A:GLN:H	1:140:A:GLU:HA	16	0.14
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	6	0.14
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	6	0.14
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	10	0.14
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	10	0.14
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	11	0.14
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	11	0.14
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	4	0.14
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	16	0.14
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	1	0.14
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	1	0.14
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB2	3	0.14
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB3	3	0.14
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB2	13	0.14
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB3	13	0.14
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	1	0.14
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	4	0.14
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	14	0.14
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	15	0.14
(1,856)	1:28:A:THR:H	1:27:A:ILE:HG21	3	0.14
(1,856)	1:28:A:THR:H	1:27:A:ILE:HG22	3	0.14
(1,856)	1:28:A:THR:H	1:27:A:ILE:HG23	3	0.14
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	5	0.14
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	9	0.14
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	10	0.14
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	16	0.14
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	19	0.14
(1,816)	1:53:A:ASN:H	1:50:A:ASP:HA	11	0.14
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	3	0.14
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	9	0.14
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	11	0.14
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	12	0.14
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	13	0.14
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	14	0.14
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	15	0.14
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	16	0.14
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	17	0.14
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	19	0.14
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	1	0.14
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	5	0.14
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	17	0.14
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG21	19	0.14
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG22	19	0.14
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG23	19	0.14
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG2	10	0.14
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG3	10	0.14
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	11	0.14
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	11	0.14
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	16	0.14
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	16	0.14
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG12	18	0.14
(1,750)	1:94:A:LYS:H	1:100:A:ILE:HG13	18	0.14
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	2	0.14
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	2	0.14
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	13	0.14
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	13	0.14
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	17	0.14
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	17	0.14
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	3	0.14
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	3	0.14
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	3	0.14
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	5	0.14
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	5	0.14
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	5	0.14
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	13	0.14
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	13	0.14
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	14	0.14
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	14	0.14
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	14	0.14
(1,712)	1:114:A:GLU:H	1:112:A:LEU:HB2	6	0.14
(1,712)	1:114:A:GLU:H	1:112:A:LEU:HB3	6	0.14
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	1	0.14
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	1	0.14
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	6	0.14
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	6	0.14
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	11	0.14
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	11	0.14
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	17	0.14
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	17	0.14
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	8	0.14
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	12	0.14
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	13	0.14
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	10	0.14
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	17	0.14
(1,633)	1:11:A:GLU:H	1:8:A:GLN:HA	14	0.14
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	1	0.14
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	1	0.14
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	11	0.14
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	11	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD11	1	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD12	1	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD13	1	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD11	6	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD12	6	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD13	6	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD11	7	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD12	7	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD13	7	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD11	13	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD12	13	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD13	13	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD11	19	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD12	19	0.14
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD13	19	0.14
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	2	0.14
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	9	0.14
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	19	0.14
(1,410)	1:129:A:ASP:H	1:125:A:ILE:HG12	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,410)	1:129:A:ASP:H	1:125:A:ILE:HG13	7	0.14
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	2	0.14
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	2	0.14
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	13	0.14
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	13	0.14
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	15	0.14
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	15	0.14
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	19	0.14
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	19	0.14
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	13	0.14
(1,139)	1:124:A:MET:H	1:123:A:GLU:H	17	0.14
(1,107)	1:136:A:VAL:H	1:100:A:ILE:HG21	18	0.14
(1,107)	1:136:A:VAL:H	1:100:A:ILE:HG22	18	0.14
(1,107)	1:136:A:VAL:H	1:100:A:ILE:HG23	18	0.14
(1,2932)	1:144:A:MET:HB2	2:155:B:LYS:HD2	9	0.13
(1,2932)	1:144:A:MET:HB2	2:155:B:LYS:HD3	9	0.13
(1,2932)	1:144:A:MET:HB3	2:155:B:LYS:HD2	9	0.13
(1,2932)	1:144:A:MET:HB3	2:155:B:LYS:HD3	9	0.13
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG11	4	0.13
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG12	4	0.13
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG13	4	0.13
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG11	4	0.13
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG12	4	0.13
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG13	4	0.13
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	6	0.13
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	6	0.13
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	6	0.13
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG11	17	0.13
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG12	17	0.13
(1,2926)	1:124:A:MET:HA	2:157:B:VAL:HG13	17	0.13
(1,2919)	1:75:A:LYS:HD2	2:166:B:SER:HB2	8	0.13
(1,2919)	1:75:A:LYS:HD2	2:166:B:SER:HB3	8	0.13
(1,2919)	1:75:A:LYS:HD3	2:166:B:SER:HB2	8	0.13
(1,2919)	1:75:A:LYS:HD3	2:166:B:SER:HB3	8	0.13
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	4	0.13
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	4	0.13
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	9	0.13
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	9	0.13
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	16	0.13
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	16	0.13
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	10	0.13
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2802)	1:6:A:GLU:HB2	1:7:A:GLU:H	16	0.13
(1,2802)	1:6:A:GLU:HB3	1:7:A:GLU:H	16	0.13
(1,2793)	1:57:A:ALA:HA	1:57:A:ALA:H	19	0.13
(1,2791)	1:11:A:GLU:HG2	1:11:A:GLU:H	7	0.13
(1,2791)	1:11:A:GLU:HG3	1:11:A:GLU:H	7	0.13
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	11	0.13
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	13	0.13
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	15	0.13
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	15	0.13
(1,2778)	1:18:A:LEU:HB2	1:19:A:PHE:H	18	0.13
(1,2778)	1:18:A:LEU:HB3	1:19:A:PHE:H	18	0.13
(1,2768)	1:21:A:LYS:HA	1:22:A:ASP:H	10	0.13
(1,2768)	1:21:A:LYS:HA	1:22:A:ASP:H	11	0.13
(1,2768)	1:21:A:LYS:HA	1:22:A:ASP:H	14	0.13
(1,2768)	1:21:A:LYS:HA	1:22:A:ASP:H	17	0.13
(1,2764)	1:21:A:LYS:HD2	1:19:A:PHE:HA	15	0.13
(1,2764)	1:21:A:LYS:HD3	1:19:A:PHE:HA	15	0.13
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	12	0.13
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	12	0.13
(1,2744)	1:47:A:GLU:HB2	1:44:A:THR:H	19	0.13
(1,2744)	1:47:A:GLU:HB3	1:44:A:THR:H	19	0.13
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	6	0.13
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	6	0.13
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	9	0.13
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	9	0.13
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	3	0.13
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	4	0.13
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	8	0.13
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	14	0.13
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	15	0.13
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	19	0.13
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	20	0.13
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	3	0.13
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	5	0.13
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	8	0.13
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	10	0.13
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	10	0.13
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	15	0.13
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	15	0.13
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	17	0.13
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	17	0.13
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	18	0.13
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	20	0.13
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	20	0.13
(1,2692)	1:9:A:ILE:HB	1:10:A:ALA:H	19	0.13
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	9	0.13
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	10	0.13
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	6	0.13
(1,2669)	1:74:A:ARG:HD2	1:74:A:ARG:H	18	0.13
(1,2669)	1:74:A:ARG:HD3	1:74:A:ARG:H	18	0.13
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	12	0.13
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	17	0.13
(1,2667)	1:77:A:LYS:HA	1:77:A:LYS:H	18	0.13
(1,2656)	1:29:A:THR:HB	1:30:A:LYS:H	14	0.13
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	6	0.13
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	6	0.13
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	17	0.13
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	17	0.13
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	2	0.13
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	2	0.13
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	2	0.13
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	3	0.13
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	3	0.13
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	3	0.13
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	5	0.13
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	5	0.13
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	5	0.13
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	13	0.13
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	13	0.13
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	13	0.13
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	19	0.13
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	19	0.13
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	19	0.13
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	4	0.13
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	4	0.13
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	4	0.13
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	4	0.13
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	4	0.13
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	4	0.13
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	6	0.13
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	6	0.13
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	6	0.13
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	6	0.13
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	6	0.13
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	9	0.13
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	9	0.13
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	9	0.13
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	9	0.13
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	9	0.13
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	9	0.13
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	17	0.13
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	17	0.13
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	17	0.13
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	17	0.13
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	17	0.13
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	17	0.13
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	18	0.13
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	18	0.13
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	18	0.13
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	18	0.13
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	18	0.13
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	18	0.13
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	1	0.13
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	1	0.13
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	1	0.13
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	2	0.13
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	2	0.13
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	2	0.13
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	5	0.13
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	5	0.13
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	5	0.13
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	6	0.13
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	6	0.13
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	6	0.13
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	13	0.13
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	13	0.13
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	13	0.13
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	17	0.13
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	17	0.13
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	17	0.13
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	9	0.13
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	13	0.13
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	4	0.13
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	6	0.13
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	12	0.13
(1,2617)	1:102:A:ALA:HA	1:105:A:LEU:H	19	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	1	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	1	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	2	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	2	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	3	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	3	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	5	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	5	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	6	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	6	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	7	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	7	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	8	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	8	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	9	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	9	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	10	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	10	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	11	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	11	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	12	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	12	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	13	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	13	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	14	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	14	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	15	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	15	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	16	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	16	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	20	0.13
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	20	0.13
(1,2603)	1:112:A:LEU:HD11	1:112:A:LEU:H	13	0.13
(1,2603)	1:112:A:LEU:HD12	1:112:A:LEU:H	13	0.13
(1,2603)	1:112:A:LEU:HD13	1:112:A:LEU:H	13	0.13
(1,2603)	1:112:A:LEU:HD21	1:112:A:LEU:H	13	0.13
(1,2603)	1:112:A:LEU:HD22	1:112:A:LEU:H	13	0.13
(1,2603)	1:112:A:LEU:HD23	1:112:A:LEU:H	13	0.13
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	14	0.13
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	17	0.13
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	19	0.13
(1,2571)	1:135:A:GLN:HB2	1:135:A:GLN:H	4	0.13
(1,2571)	1:135:A:GLN:HB3	1:135:A:GLN:H	4	0.13
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	12	0.13
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	12	0.13
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	12	0.13
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	12	0.13
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	12	0.13
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	12	0.13
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	12	0.13
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	12	0.13
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	12	0.13
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	19	0.13
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	19	0.13
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	19	0.13
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	19	0.13
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	19	0.13
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	19	0.13
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	19	0.13
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	19	0.13
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	19	0.13
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	3	0.13
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	17	0.13
(1,2541)	1:56:A:ASP:HA	1:57:A:ALA:H	7	0.13
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	3	0.13
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	8	0.13
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	6	0.13
(1,2520)	1:69:A:LEU:HG	1:69:A:LEU:H	3	0.13
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	2	0.13
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	2	0.13
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	2	0.13
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	2	0.13
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	2	0.13
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	2	0.13
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	20	0.13
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	20	0.13
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	20	0.13
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	20	0.13
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	20	0.13
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2511)	1:77:A:LYS:HG2	1:77:A:LYS:H	16	0.13
(1,2511)	1:77:A:LYS:HG3	1:77:A:LYS:H	16	0.13
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG21	4	0.13
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG22	4	0.13
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG23	4	0.13
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG21	4	0.13
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG22	4	0.13
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG23	4	0.13
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG21	4	0.13
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG22	4	0.13
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG23	4	0.13
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG21	10	0.13
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG22	10	0.13
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG23	10	0.13
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG21	10	0.13
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG22	10	0.13
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG23	10	0.13
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG21	10	0.13
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG22	10	0.13
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG23	10	0.13
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG21	14	0.13
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG22	14	0.13
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG23	14	0.13
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG21	14	0.13
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG22	14	0.13
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG23	14	0.13
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG21	14	0.13
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG22	14	0.13
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG23	14	0.13
(1,2493)	1:4:A:LEU:HD11	1:73:A:ALA:HB1	6	0.13
(1,2493)	1:4:A:LEU:HD11	1:73:A:ALA:HB2	6	0.13
(1,2493)	1:4:A:LEU:HD11	1:73:A:ALA:HB3	6	0.13
(1,2493)	1:4:A:LEU:HD12	1:73:A:ALA:HB1	6	0.13
(1,2493)	1:4:A:LEU:HD12	1:73:A:ALA:HB2	6	0.13
(1,2493)	1:4:A:LEU:HD12	1:73:A:ALA:HB3	6	0.13
(1,2493)	1:4:A:LEU:HD13	1:73:A:ALA:HB1	6	0.13
(1,2493)	1:4:A:LEU:HD13	1:73:A:ALA:HB2	6	0.13
(1,2493)	1:4:A:LEU:HD13	1:73:A:ALA:HB3	6	0.13
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	9	0.13
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	9	0.13
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	9	0.13
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB2	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB3	4	0.13
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB2	9	0.13
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB3	9	0.13
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB2	13	0.13
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB3	13	0.13
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD11	8	0.13
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD12	8	0.13
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD13	8	0.13
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	2	0.13
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	4	0.13
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	5	0.13
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	6	0.13
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	8	0.13
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	14	0.13
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	16	0.13
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	17	0.13
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	18	0.13
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	3	0.13
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	8	0.13
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	11	0.13
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	15	0.13
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	17	0.13
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	20	0.13
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	17	0.13
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	17	0.13
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	17	0.13
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	20	0.13
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	20	0.13
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	20	0.13
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	10	0.13
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	10	0.13
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	10	0.13
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	13	0.13
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	13	0.13
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	13	0.13
(1,2404)	1:142:A:VAL:HA	1:145:A:MET:H	6	0.13
(1,2404)	1:142:A:VAL:HA	1:145:A:MET:H	18	0.13
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	2	0.13
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	2	0.13
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	8	0.13
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	8	0.13
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	9	0.13
(1,2401)	1:143:A:GLN:HB2	1:147:A:ALA:H	19	0.13
(1,2401)	1:143:A:GLN:HB3	1:147:A:ALA:H	19	0.13
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD11	20	0.13
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD12	20	0.13
(1,2395)	1:7:A:GLU:HA	1:4:A:LEU:HD13	20	0.13
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	6	0.13
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	10	0.13
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	15	0.13
(1,2362)	1:19:A:PHE:HB2	1:20:A:ASP:H	1	0.13
(1,2362)	1:19:A:PHE:HB3	1:20:A:ASP:H	1	0.13
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	12	0.13
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	1	0.13
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	3	0.13
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	8	0.13
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	9	0.13
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	12	0.13
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	13	0.13
(1,2352)	1:74:A:ARG:HA	1:75:A:LYS:H	14	0.13
(1,2328)	1:27:A:ILE:HB	1:27:A:ILE:H	13	0.13
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB2	10	0.13
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB3	10	0.13
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB2	10	0.13
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB3	10	0.13
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB2	17	0.13
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB3	17	0.13
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB2	17	0.13
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB3	17	0.13
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	9	0.13
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	14	0.13
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	3	0.13
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	8	0.13
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	15	0.13
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	16	0.13
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	20	0.13
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	2	0.13
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	10	0.13
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB2	5	0.13
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB3	5	0.13
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	7	0.13
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	9	0.13
(1,2226)	1:125:A:ILE:HA	1:128:A:ALA:H	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2226)	1:125:A:ILE:HA	1:128:A:ALA:H	18	0.13
(1,2221)	1:129:A:ASP:HB2	1:130:A:ILE:H	4	0.13
(1,2221)	1:129:A:ASP:HB3	1:130:A:ILE:H	4	0.13
(1,2221)	1:129:A:ASP:HB2	1:130:A:ILE:H	9	0.13
(1,2221)	1:129:A:ASP:HB3	1:130:A:ILE:H	9	0.13
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	2	0.13
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	6	0.13
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	11	0.13
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	15	0.13
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	1	0.13
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	11	0.13
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	18	0.13
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	20	0.13
(1,2202)	1:140:A:GLU:HG2	1:130:A:ILE:HB	3	0.13
(1,2202)	1:140:A:GLU:HG3	1:130:A:ILE:HB	3	0.13
(1,2197)	1:140:A:GLU:HG2	1:141:A:PHE:H	4	0.13
(1,2197)	1:140:A:GLU:HG3	1:141:A:PHE:H	4	0.13
(1,2179)	1:55:A:VAL:HB	1:52:A:ILE:HD11	4	0.13
(1,2179)	1:55:A:VAL:HB	1:52:A:ILE:HD12	4	0.13
(1,2179)	1:55:A:VAL:HB	1:52:A:ILE:HD13	4	0.13
(1,2168)	1:13:A:LYS:HD2	1:13:A:LYS:H	3	0.13
(1,2168)	1:13:A:LYS:HD3	1:13:A:LYS:H	3	0.13
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	15	0.13
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	20	0.13
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG2	1	0.13
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG3	1	0.13
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG2	14	0.13
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG3	14	0.13
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	6	0.13
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	6	0.13
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	19	0.13
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	19	0.13
(1,2108)	1:34:A:THR:HB	1:31:A:GLU:HA	6	0.13
(1,2100)	1:37:A:ARG:HG2	1:42:A:ASN:HA	19	0.13
(1,2100)	1:37:A:ARG:HG3	1:42:A:ASN:HA	19	0.13
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	12	0.13
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	16	0.13
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	8	0.13
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	8	0.13
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	8	0.13
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	8	0.13
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	9	0.13
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	9	0.13
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	9	0.13
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	12	0.13
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	12	0.13
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	12	0.13
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	12	0.13
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	13	0.13
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	13	0.13
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	13	0.13
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	13	0.13
(1,2072)	1:86:A:ARG:HA	1:89:A:PHE:H	13	0.13
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD1	9	0.13
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD2	9	0.13
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD1	12	0.13
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD2	12	0.13
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD1	19	0.13
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD2	19	0.13
(1,2062)	1:90:A:ARG:HA	1:91:A:VAL:H	5	0.13
(1,2062)	1:90:A:ARG:HA	1:91:A:VAL:H	15	0.13
(1,2047)	1:100:A:ILE:HG21	1:93:A:ASP:H	8	0.13
(1,2047)	1:100:A:ILE:HG22	1:93:A:ASP:H	8	0.13
(1,2047)	1:100:A:ILE:HG23	1:93:A:ASP:H	8	0.13
(1,2047)	1:100:A:ILE:HG21	1:93:A:ASP:H	19	0.13
(1,2047)	1:100:A:ILE:HG22	1:93:A:ASP:H	19	0.13
(1,2047)	1:100:A:ILE:HG23	1:93:A:ASP:H	19	0.13
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	19	0.13
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	19	0.13
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	19	0.13
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	4	0.13
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	4	0.13
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	4	0.13
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	4	0.13
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	4	0.13
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	4	0.13
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	14	0.13
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	14	0.13
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	20	0.13
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	20	0.13
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	1	0.13
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	9	0.13
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	12	0.13
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	19	0.13
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	20	0.13
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	6	0.13
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	6	0.13
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	6	0.13
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	6	0.13
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	6	0.13
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	6	0.13
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	6	0.13
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	15	0.13
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	15	0.13
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	15	0.13
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	15	0.13
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	18	0.13
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	18	0.13
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	18	0.13
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	18	0.13
(1,1832)	1:28:A:THR:HB	1:31:A:GLU:HA	7	0.13
(1,1832)	1:28:A:THR:HB	1:31:A:GLU:HA	9	0.13
(1,1832)	1:28:A:THR:HB	1:31:A:GLU:HA	15	0.13
(1,1679)	1:122:A:ASP:HA	1:125:A:ILE:HG12	13	0.13
(1,1679)	1:122:A:ASP:HA	1:125:A:ILE:HG13	13	0.13
(1,1679)	1:122:A:ASP:HA	1:125:A:ILE:HG12	17	0.13
(1,1679)	1:122:A:ASP:HA	1:125:A:ILE:HG13	17	0.13
(1,1679)	1:122:A:ASP:HA	1:125:A:ILE:HG12	18	0.13
(1,1679)	1:122:A:ASP:HA	1:125:A:ILE:HG13	18	0.13
(1,1679)	1:122:A:ASP:HA	1:125:A:ILE:HG12	20	0.13
(1,1679)	1:122:A:ASP:HA	1:125:A:ILE:HG13	20	0.13
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	10	0.13
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	10	0.13
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	20	0.13
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	20	0.13
(1,1569)	1:76:A:MET:HB2	1:75:A:LYS:HA	5	0.13
(1,1569)	1:76:A:MET:HB3	1:75:A:LYS:HA	5	0.13
(1,1569)	1:76:A:MET:HB2	1:75:A:LYS:HA	10	0.13
(1,1569)	1:76:A:MET:HB3	1:75:A:LYS:HA	10	0.13
(1,1503)	1:45:A:GLU:HG2	1:44:A:THR:HB	5	0.13
(1,1503)	1:45:A:GLU:HG3	1:44:A:THR:HB	5	0.13
(1,1503)	1:45:A:GLU:HG2	1:44:A:THR:HB	6	0.13
(1,1503)	1:45:A:GLU:HG3	1:44:A:THR:HB	6	0.13
(1,1503)	1:45:A:GLU:HG2	1:44:A:THR:HB	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1503)	1:45:A:GLU:HG3	1:44:A:THR:HB	8	0.13
(1,1503)	1:45:A:GLU:HG2	1:44:A:THR:HB	12	0.13
(1,1503)	1:45:A:GLU:HG3	1:44:A:THR:HB	12	0.13
(1,1503)	1:45:A:GLU:HG2	1:44:A:THR:HB	13	0.13
(1,1503)	1:45:A:GLU:HG3	1:44:A:THR:HB	13	0.13
(1,1503)	1:45:A:GLU:HG2	1:44:A:THR:HB	17	0.13
(1,1503)	1:45:A:GLU:HG3	1:44:A:THR:HB	17	0.13
(1,1503)	1:45:A:GLU:HG2	1:44:A:THR:HB	18	0.13
(1,1503)	1:45:A:GLU:HG3	1:44:A:THR:HB	18	0.13
(1,1400)	1:124:A:MET:HB2	1:121:A:VAL:HG21	12	0.13
(1,1400)	1:124:A:MET:HB2	1:121:A:VAL:HG22	12	0.13
(1,1400)	1:124:A:MET:HB2	1:121:A:VAL:HG23	12	0.13
(1,1400)	1:124:A:MET:HB3	1:121:A:VAL:HG21	12	0.13
(1,1400)	1:124:A:MET:HB3	1:121:A:VAL:HG22	12	0.13
(1,1400)	1:124:A:MET:HB3	1:121:A:VAL:HG23	12	0.13
(1,1400)	1:124:A:MET:HB2	1:121:A:VAL:HG21	19	0.13
(1,1400)	1:124:A:MET:HB2	1:121:A:VAL:HG22	19	0.13
(1,1400)	1:124:A:MET:HB2	1:121:A:VAL:HG23	19	0.13
(1,1400)	1:124:A:MET:HB3	1:121:A:VAL:HG21	19	0.13
(1,1400)	1:124:A:MET:HB3	1:121:A:VAL:HG22	19	0.13
(1,1400)	1:124:A:MET:HB3	1:121:A:VAL:HG23	19	0.13
(1,1181)	1:87:A:GLU:HG2	1:85:A:ILE:HB	5	0.13
(1,1181)	1:87:A:GLU:HG3	1:85:A:ILE:HB	5	0.13
(1,1181)	1:87:A:GLU:HG2	1:85:A:ILE:HB	7	0.13
(1,1181)	1:87:A:GLU:HG3	1:85:A:ILE:HB	7	0.13
(1,1181)	1:87:A:GLU:HG2	1:85:A:ILE:HB	17	0.13
(1,1181)	1:87:A:GLU:HG3	1:85:A:ILE:HB	17	0.13
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	5	0.13
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	5	0.13
(1,1159)	1:91:A:VAL:HB	1:93:A:ASP:HB2	5	0.13
(1,1159)	1:91:A:VAL:HB	1:93:A:ASP:HB3	5	0.13
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	3	0.13
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	3	0.13
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	6	0.13
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	6	0.13
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	15	0.13
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	15	0.13
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	2	0.13
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	3	0.13
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	6	0.13
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	8	0.13
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	3	0.13
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	8	0.13
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	10	0.13
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	10	0.13
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE2	14	0.13
(1,1086)	1:21:A:LYS:H	1:21:A:LYS:HE3	14	0.13
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	4	0.13
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	6	0.13
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	7	0.13
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	8	0.13
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	9	0.13
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	14	0.13
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	18	0.13
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	19	0.13
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	17	0.13
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	14	0.13
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	14	0.13
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	2	0.13
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	4	0.13
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	5	0.13
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	6	0.13
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	8	0.13
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	14	0.13
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	16	0.13
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	17	0.13
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	18	0.13
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	6	0.13
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	7	0.13
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	14	0.13
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	16	0.13
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	6	0.13
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	6	0.13
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	9	0.13
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	9	0.13
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	9	0.13
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	13	0.13
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	11	0.13
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	13	0.13
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	9	0.13
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	11	0.13
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	15	0.13
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	17	0.13
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	18	0.13
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	1	0.13
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	3	0.13
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	8	0.13
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	9	0.13
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	12	0.13
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	13	0.13
(1,1017)	1:75:A:LYS:H	1:74:A:ARG:HA	14	0.13
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	9	0.13
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	14	0.13
(1,1013)	1:75:A:LYS:H	1:74:A:ARG:HG2	2	0.13
(1,1013)	1:75:A:LYS:H	1:74:A:ARG:HG3	2	0.13
(1,1011)	1:75:A:LYS:H	1:75:A:LYS:HB2	6	0.13
(1,1011)	1:75:A:LYS:H	1:75:A:LYS:HB3	6	0.13
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	2	0.13
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	6	0.13
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	7	0.13
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	13	0.13
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	20	0.13
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	4	0.13
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	6	0.13
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	9	0.13
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	12	0.13
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	17	0.13
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	20	0.13
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	3	0.13
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	4	0.13
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	8	0.13
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	14	0.13
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	15	0.13
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	19	0.13
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	20	0.13
(1,993)	1:91:A:VAL:H	1:90:A:ARG:HA	5	0.13
(1,993)	1:91:A:VAL:H	1:90:A:ARG:HA	15	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	2	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	3	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	4	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	5	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	6	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	7	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	9	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	10	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	12	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	13	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	14	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	16	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	17	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	18	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	19	0.13
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	20	0.13
(1,969)	1:103:A:ALA:H	1:101:A:SER:HA	3	0.13
(1,969)	1:103:A:ALA:H	1:101:A:SER:HA	15	0.13
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB2	3	0.13
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB3	3	0.13
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	3	0.13
(1,964)	1:107:A:HIS:H	1:104:A:GLU:HA	4	0.13
(1,956)	1:111:A:ASN:H	1:111:A:ASN:HA	1	0.13
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	9	0.13
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	15	0.13
(1,947)	1:115:A:LYS:H	1:115:A:LYS:HG3	16	0.13
(1,944)	1:119:A:GLU:H	1:119:A:GLU:HA	18	0.13
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	16	0.13
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	17	0.13
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	19	0.13
(1,930)	1:127:A:GLU:H	1:127:A:GLU:HA	2	0.13
(1,930)	1:127:A:GLU:H	1:127:A:GLU:HA	15	0.13
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	11	0.13
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	3	0.13
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	14	0.13
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	17	0.13
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	19	0.13
(1,919)	1:135:A:GLN:H	1:135:A:GLN:HB2	4	0.13
(1,919)	1:135:A:GLN:H	1:135:A:GLN:HB3	4	0.13
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	6	0.13
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	6	0.13
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	9	0.13
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	9	0.13
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	2	0.13
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	6	0.13
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	11	0.13
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	15	0.13
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	2	0.13
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	8	0.13
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	8	0.13
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	9	0.13
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	9	0.13
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB2	19	0.13
(1,898)	1:147:A:ALA:H	1:143:A:GLN:HB3	19	0.13
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	10	0.13
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	20	0.13
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	20	0.13
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB2	1	0.13
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB3	1	0.13
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	2	0.13
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	11	0.13
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	20	0.13
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	7	0.13
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	3	0.13
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	8	0.13
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	11	0.13
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	15	0.13
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	17	0.13
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	20	0.13
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	5	0.13
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	6	0.13
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	15	0.13
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	20	0.13
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG2	2	0.13
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG3	2	0.13
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG2	9	0.13
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG3	9	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	5	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	5	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	6	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	6	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	10	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	10	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	12	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	12	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	16	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	16	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	18	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	19	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	19	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	20	0.13
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	20	0.13
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	17	0.13
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	17	0.13
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	17	0.13
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	20	0.13
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	20	0.13
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	20	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	3	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	3	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	4	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	4	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	5	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	5	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	7	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	7	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	8	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	8	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	9	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	9	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	10	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	10	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	12	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	12	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	14	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	14	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	18	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	18	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	19	0.13
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	19	0.13
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	2	0.13
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	3	0.13
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	13	0.13
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	7	0.13
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	9	0.13
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB2	4	0.13
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB3	4	0.13
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB2	9	0.13
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB3	9	0.13
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG12	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG13	2	0.13
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG12	9	0.13
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG13	9	0.13
(1,655)	1:142:A:VAL:H	1:141:A:PHE:HA	1	0.13
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	5	0.13
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	15	0.13
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	16	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	4	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	4	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	5	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	5	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	10	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	10	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	12	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	12	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	13	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	13	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	16	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	16	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	17	0.13
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	17	0.13
(1,609)	1:27:A:ILE:H	1:27:A:ILE:HB	13	0.13
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	3	0.13
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	3	0.13
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	10	0.13
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	10	0.13
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	12	0.13
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	12	0.13
(1,331)	1:26:A:THR:H	1:64:A:ASP:H	19	0.13
(1,139)	1:124:A:MET:H	1:123:A:GLU:H	3	0.13
(1,139)	1:124:A:MET:H	1:123:A:GLU:H	11	0.13
(1,139)	1:124:A:MET:H	1:123:A:GLU:H	19	0.13
(1,45)	1:115:A:LYS:HG3	1:110:A:THR:HB	4	0.13
(1,2935)	1:91:A:VAL:HG11	2:161:B:VAL:HG11	15	0.12
(1,2935)	1:91:A:VAL:HG11	2:161:B:VAL:HG12	15	0.12
(1,2935)	1:91:A:VAL:HG11	2:161:B:VAL:HG13	15	0.12
(1,2935)	1:91:A:VAL:HG12	2:161:B:VAL:HG11	15	0.12
(1,2935)	1:91:A:VAL:HG12	2:161:B:VAL:HG12	15	0.12
(1,2935)	1:91:A:VAL:HG12	2:161:B:VAL:HG13	15	0.12
(1,2935)	1:91:A:VAL:HG13	2:161:B:VAL:HG11	15	0.12
(1,2935)	1:91:A:VAL:HG13	2:161:B:VAL:HG12	15	0.12
(1,2935)	1:91:A:VAL:HG13	2:161:B:VAL:HG13	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG2	1	0.12
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG3	1	0.12
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG2	1	0.12
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG3	1	0.12
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG2	1	0.12
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG3	1	0.12
(1,2922)	1:112:A:LEU:HG	2:161:B:VAL:HB	15	0.12
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD2	4	0.12
(1,2917)	1:127:A:GLU:HA	2:155:B:LYS:HD3	4	0.12
(1,2914)	1:112:A:LEU:HB2	2:161:B:VAL:HB	6	0.12
(1,2914)	1:112:A:LEU:HB3	2:161:B:VAL:HB	6	0.12
(1,2833)	2:157:B:VAL:H	2:161:B:VAL:H	16	0.12
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	2	0.12
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	2	0.12
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	3	0.12
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	3	0.12
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	5	0.12
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	5	0.12
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	6	0.12
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	6	0.12
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	7	0.12
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	7	0.12
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	8	0.12
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	8	0.12
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	11	0.12
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	11	0.12
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	12	0.12
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	12	0.12
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	13	0.12
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	13	0.12
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	15	0.12
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	15	0.12
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	19	0.12
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	19	0.12
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	20	0.12
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	20	0.12
(1,2791)	1:11:A:GLU:HG2	1:11:A:GLU:H	2	0.12
(1,2791)	1:11:A:GLU:HG3	1:11:A:GLU:H	2	0.12
(1,2791)	1:11:A:GLU:HG2	1:11:A:GLU:H	19	0.12
(1,2791)	1:11:A:GLU:HG3	1:11:A:GLU:H	19	0.12
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	17	0.12
(1,2772)	1:70:A:THR:HB	1:70:A:THR:H	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2768)	1:21:A:LYS:HA	1:22:A:ASP:H	5	0.12
(1,2763)	1:21:A:LYS:HD2	1:21:A:LYS:HA	16	0.12
(1,2763)	1:21:A:LYS:HD3	1:21:A:LYS:HA	16	0.12
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	5	0.12
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	5	0.12
(1,2741)	1:49:A:GLN:HB2	1:50:A:ASP:H	13	0.12
(1,2741)	1:49:A:GLN:HB3	1:50:A:ASP:H	13	0.12
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	2	0.12
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	9	0.12
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	11	0.12
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	12	0.12
(1,2736)	1:88:A:ALA:HA	1:89:A:PHE:H	4	0.12
(1,2736)	1:88:A:ALA:HA	1:89:A:PHE:H	6	0.12
(1,2736)	1:88:A:ALA:HA	1:89:A:PHE:H	16	0.12
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	1	0.12
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	2	0.12
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	13	0.12
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	14	0.12
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	15	0.12
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	20	0.12
(1,2725)	1:109:A:MET:HB2	1:114:A:GLU:H	7	0.12
(1,2725)	1:109:A:MET:HB3	1:114:A:GLU:H	7	0.12
(1,2725)	1:109:A:MET:HB2	1:114:A:GLU:H	8	0.12
(1,2725)	1:109:A:MET:HB3	1:114:A:GLU:H	8	0.12
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	1	0.12
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	1	0.12
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	16	0.12
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	16	0.12
(1,2692)	1:9:A:ILE:HB	1:10:A:ALA:H	2	0.12
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	3	0.12
(1,2672)	1:69:A:LEU:HA	1:69:A:LEU:H	11	0.12
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	1	0.12
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	12	0.12
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	17	0.12
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	4	0.12
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	5	0.12
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	10	0.12
(1,2667)	1:77:A:LYS:HA	1:77:A:LYS:H	5	0.12
(1,2667)	1:77:A:LYS:HA	1:77:A:LYS:H	8	0.12
(1,2667)	1:77:A:LYS:HA	1:77:A:LYS:H	13	0.12
(1,2660)	1:27:A:ILE:HD11	1:35:A:VAL:HG11	3	0.12
(1,2660)	1:27:A:ILE:HD11	1:35:A:VAL:HG12	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2660)	1:27:A:ILE:HD11	1:35:A:VAL:HG13	3	0.12
(1,2660)	1:27:A:ILE:HD12	1:35:A:VAL:HG11	3	0.12
(1,2660)	1:27:A:ILE:HD12	1:35:A:VAL:HG12	3	0.12
(1,2660)	1:27:A:ILE:HD12	1:35:A:VAL:HG13	3	0.12
(1,2660)	1:27:A:ILE:HD13	1:35:A:VAL:HG11	3	0.12
(1,2660)	1:27:A:ILE:HD13	1:35:A:VAL:HG12	3	0.12
(1,2660)	1:27:A:ILE:HD13	1:35:A:VAL:HG13	3	0.12
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	19	0.12
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	1	0.12
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	1	0.12
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	5	0.12
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	5	0.12
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	7	0.12
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	7	0.12
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	9	0.12
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	9	0.12
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	12	0.12
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	12	0.12
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	16	0.12
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	16	0.12
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	20	0.12
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	20	0.12
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	3	0.12
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	3	0.12
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	3	0.12
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	3	0.12
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	3	0.12
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	3	0.12
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	16	0.12
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	16	0.12
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	16	0.12
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	16	0.12
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	16	0.12
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	16	0.12
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	9	0.12
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	9	0.12
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	9	0.12
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	12	0.12
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	12	0.12
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	12	0.12
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	18	0.12
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	18	0.12
(1,2639)	1:51:A:MET:HA	1:54:A:GLU:H	6	0.12
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	2	0.12
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	3	0.12
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	7	0.12
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	8	0.12
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	9	0.12
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	13	0.12
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	15	0.12
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	17	0.12
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	1	0.12
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	7	0.12
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	17	0.12
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	18	0.12
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	5	0.12
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	18	0.12
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	4	0.12
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	4	0.12
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	17	0.12
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	17	0.12
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG2	19	0.12
(1,2613)	1:107:A:HIS:HA	1:106:A:ARG:HG3	19	0.12
(1,2603)	1:112:A:LEU:HD11	1:112:A:LEU:H	4	0.12
(1,2603)	1:112:A:LEU:HD12	1:112:A:LEU:H	4	0.12
(1,2603)	1:112:A:LEU:HD13	1:112:A:LEU:H	4	0.12
(1,2603)	1:112:A:LEU:HD21	1:112:A:LEU:H	4	0.12
(1,2603)	1:112:A:LEU:HD22	1:112:A:LEU:H	4	0.12
(1,2603)	1:112:A:LEU:HD23	1:112:A:LEU:H	4	0.12
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	2	0.12
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	2	0.12
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	2	0.12
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	2	0.12
(1,2576)	1:131:A:ASP:HA	1:131:A:ASP:H	8	0.12
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD11	10	0.12
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD12	10	0.12
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD13	10	0.12
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD11	10	0.12
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD12	10	0.12
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD13	10	0.12
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD11	10	0.12
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD12	10	0.12
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD13	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD11	16	0.12
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD12	16	0.12
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD13	16	0.12
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD11	16	0.12
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD12	16	0.12
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD13	16	0.12
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD11	16	0.12
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD12	16	0.12
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD13	16	0.12
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	4	0.12
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	4	0.12
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	4	0.12
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	4	0.12
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	4	0.12
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	4	0.12
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	4	0.12
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	4	0.12
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	4	0.12
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	17	0.12
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	17	0.12
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	17	0.12
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	17	0.12
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	17	0.12
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	17	0.12
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	17	0.12
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	17	0.12
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	17	0.12
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	20	0.12
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	20	0.12
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	20	0.12
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	20	0.12
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	20	0.12
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	20	0.12
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	20	0.12
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	20	0.12
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	20	0.12
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB2	6	0.12
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB3	6	0.12
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB2	8	0.12
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB3	8	0.12
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB2	13	0.12
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB3	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	5	0.12
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	8	0.12
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	10	0.12
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	18	0.12
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	19	0.12
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	20	0.12
(1,2541)	1:56:A:ASP:HA	1:57:A:ALA:H	14	0.12
(1,2530)	1:14:A:GLU:HA	1:17:A:SER:H	2	0.12
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	2	0.12
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	8	0.12
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	19	0.12
(1,2517)	1:75:A:LYS:HG2	1:71:A:MET:HB2	18	0.12
(1,2517)	1:75:A:LYS:HG2	1:71:A:MET:HB3	18	0.12
(1,2517)	1:75:A:LYS:HG3	1:71:A:MET:HB2	18	0.12
(1,2517)	1:75:A:LYS:HG3	1:71:A:MET:HB3	18	0.12
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	3	0.12
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	3	0.12
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	3	0.12
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	3	0.12
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	3	0.12
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	3	0.12
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	9	0.12
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	9	0.12
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	9	0.12
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	9	0.12
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	9	0.12
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	9	0.12
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	15	0.12
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	15	0.12
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	15	0.12
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	15	0.12
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	15	0.12
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	15	0.12
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	17	0.12
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	17	0.12
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	17	0.12
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	17	0.12
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	17	0.12
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	17	0.12
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG21	1	0.12
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG22	1	0.12
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG23	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG21	1	0.12
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG22	1	0.12
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG23	1	0.12
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG21	1	0.12
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG22	1	0.12
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG23	1	0.12
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG21	15	0.12
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG22	15	0.12
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG23	15	0.12
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG21	15	0.12
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG22	15	0.12
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG23	15	0.12
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG21	15	0.12
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG22	15	0.12
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG23	15	0.12
(1,2504)	1:28:A:THR:HG21	1:28:A:THR:H	19	0.12
(1,2504)	1:28:A:THR:HG22	1:28:A:THR:H	19	0.12
(1,2504)	1:28:A:THR:HG23	1:28:A:THR:H	19	0.12
(1,2493)	1:4:A:LEU:HD11	1:73:A:ALA:HB1	18	0.12
(1,2493)	1:4:A:LEU:HD11	1:73:A:ALA:HB2	18	0.12
(1,2493)	1:4:A:LEU:HD11	1:73:A:ALA:HB3	18	0.12
(1,2493)	1:4:A:LEU:HD12	1:73:A:ALA:HB1	18	0.12
(1,2493)	1:4:A:LEU:HD12	1:73:A:ALA:HB2	18	0.12
(1,2493)	1:4:A:LEU:HD12	1:73:A:ALA:HB3	18	0.12
(1,2493)	1:4:A:LEU:HD13	1:73:A:ALA:HB1	18	0.12
(1,2493)	1:4:A:LEU:HD13	1:73:A:ALA:HB2	18	0.12
(1,2493)	1:4:A:LEU:HD13	1:73:A:ALA:HB3	18	0.12
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	15	0.12
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	15	0.12
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	15	0.12
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB2	5	0.12
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB3	5	0.12
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB2	8	0.12
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB3	8	0.12
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD11	18	0.12
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD12	18	0.12
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD13	18	0.12
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	7	0.12
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	10	0.12
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	11	0.12
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	20	0.12
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	2	0.12
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	7	0.12
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	7	0.12
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	7	0.12
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	2	0.12
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	2	0.12
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	2	0.12
(1,2404)	1:142:A:VAL:HA	1:145:A:MET:H	16	0.12
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	4	0.12
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	11	0.12
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	13	0.12
(1,2393)	1:7:A:GLU:HA	1:10:A:ALA:H	18	0.12
(1,2389)	1:54:A:GLU:HB2	1:55:A:VAL:H	3	0.12
(1,2389)	1:54:A:GLU:HB3	1:55:A:VAL:H	3	0.12
(1,2389)	1:54:A:GLU:HB2	1:55:A:VAL:H	15	0.12
(1,2389)	1:54:A:GLU:HB3	1:55:A:VAL:H	15	0.12
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	8	0.12
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	12	0.12
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	16	0.12
(1,2374)	1:14:A:GLU:HB2	1:15:A:ALA:H	7	0.12
(1,2374)	1:14:A:GLU:HB3	1:15:A:ALA:H	7	0.12
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	8	0.12
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	11	0.12
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD11	4	0.12
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD12	4	0.12
(1,2363)	1:19:A:PHE:HB2	1:27:A:ILE:HD13	4	0.12
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD11	4	0.12
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD12	4	0.12
(1,2363)	1:19:A:PHE:HB3	1:27:A:ILE:HD13	4	0.12
(1,2362)	1:19:A:PHE:HB2	1:20:A:ASP:H	10	0.12
(1,2362)	1:19:A:PHE:HB3	1:20:A:ASP:H	10	0.12
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	4	0.12
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	9	0.12
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	11	0.12
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	18	0.12
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	2	0.12
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB2	16	0.12
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB3	16	0.12
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB2	16	0.12
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB3	16	0.12
(1,2293)	1:48:A:LEU:HA	1:51:A:MET:H	2	0.12
(1,2293)	1:48:A:LEU:HA	1:51:A:MET:H	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2293)	1:48:A:LEU:HA	1:51:A:MET:H	17	0.12
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	6	0.12
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	13	0.12
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	5	0.12
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	9	0.12
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	11	0.12
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	16	0.12
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	17	0.12
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	18	0.12
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	1	0.12
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	5	0.12
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	7	0.12
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	8	0.12
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	11	0.12
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	20	0.12
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	10	0.12
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	14	0.12
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	19	0.12
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	4	0.12
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	12	0.12
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	15	0.12
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	18	0.12
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	19	0.12
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG2	9	0.12
(1,2232)	1:125:A:ILE:HA	1:124:A:MET:HG3	9	0.12
(1,2229)	1:125:A:ILE:HA	1:126:A:ARG:H	2	0.12
(1,2226)	1:125:A:ILE:HA	1:128:A:ALA:H	20	0.12
(1,2221)	1:129:A:ASP:HB2	1:130:A:ILE:H	15	0.12
(1,2221)	1:129:A:ASP:HB3	1:130:A:ILE:H	15	0.12
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	1	0.12
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	1	0.12
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	1	0.12
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	1	0.12
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	10	0.12
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	10	0.12
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	10	0.12
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	10	0.12
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	16	0.12
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	16	0.12
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	16	0.12
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	16	0.12
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	20	0.12
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	20	0.12
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	20	0.12
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	4	0.12
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	16	0.12
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	10	0.12
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	17	0.12
(1,2168)	1:13:A:LYS:HD2	1:13:A:LYS:H	15	0.12
(1,2168)	1:13:A:LYS:HD3	1:13:A:LYS:H	15	0.12
(1,2154)	1:69:A:LEU:HB3	1:70:A:THR:H	3	0.12
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG2	3	0.12
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG3	3	0.12
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	1	0.12
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	1	0.12
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	7	0.12
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	7	0.12
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	14	0.12
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	14	0.12
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	20	0.12
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	20	0.12
(1,2128)	1:26:A:THR:HG21	1:27:A:ILE:H	10	0.12
(1,2128)	1:26:A:THR:HG22	1:27:A:ILE:H	10	0.12
(1,2128)	1:26:A:THR:HG23	1:27:A:ILE:H	10	0.12
(1,2128)	1:26:A:THR:HG21	1:27:A:ILE:H	11	0.12
(1,2128)	1:26:A:THR:HG22	1:27:A:ILE:H	11	0.12
(1,2128)	1:26:A:THR:HG23	1:27:A:ILE:H	11	0.12
(1,2128)	1:26:A:THR:HG21	1:27:A:ILE:H	14	0.12
(1,2128)	1:26:A:THR:HG22	1:27:A:ILE:H	14	0.12
(1,2128)	1:26:A:THR:HG23	1:27:A:ILE:H	14	0.12
(1,2108)	1:34:A:THR:HB	1:31:A:GLU:HA	11	0.12
(1,2108)	1:34:A:THR:HB	1:31:A:GLU:HA	15	0.12
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	11	0.12
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	14	0.12
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	19	0.12
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	2	0.12
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	2	0.12
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	2	0.12
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	2	0.12
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	3	0.12
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	3	0.12
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	3	0.12
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	5	0.12
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	5	0.12
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	5	0.12
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	5	0.12
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	6	0.12
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	6	0.12
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	6	0.12
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	6	0.12
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	17	0.12
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	17	0.12
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	17	0.12
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	17	0.12
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	18	0.12
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	18	0.12
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	18	0.12
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	18	0.12
(1,2072)	1:86:A:ARG:HA	1:89:A:PHE:H	10	0.12
(1,2072)	1:86:A:ARG:HA	1:89:A:PHE:H	15	0.12
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD1	5	0.12
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD2	5	0.12
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD1	15	0.12
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD2	15	0.12
(1,2062)	1:90:A:ARG:HA	1:91:A:VAL:H	3	0.12
(1,2046)	1:100:A:ILE:HG21	1:101:A:SER:H	5	0.12
(1,2046)	1:100:A:ILE:HG22	1:101:A:SER:H	5	0.12
(1,2046)	1:100:A:ILE:HG23	1:101:A:SER:H	5	0.12
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	2	0.12
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	2	0.12
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	2	0.12
(1,2007)	1:108:A:VAL:HG21	1:104:A:GLU:HA	16	0.12
(1,2007)	1:108:A:VAL:HG22	1:104:A:GLU:HA	16	0.12
(1,2007)	1:108:A:VAL:HG23	1:104:A:GLU:HA	16	0.12
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	3	0.12
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	3	0.12
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	3	0.12
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	3	0.12
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	3	0.12
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	3	0.12
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	5	0.12
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	5	0.12
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	5	0.12
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	5	0.12
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	5	0.12
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	9	0.12
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	9	0.12
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	9	0.12
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	9	0.12
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	9	0.12
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	9	0.12
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	19	0.12
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	19	0.12
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	19	0.12
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	19	0.12
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	19	0.12
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	19	0.12
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	20	0.12
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	20	0.12
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	20	0.12
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	20	0.12
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	20	0.12
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	20	0.12
(1,1982)	1:119:A:GLU:HA	1:122:A:ASP:H	19	0.12
(1,1962)	1:123:A:GLU:HA	1:124:A:MET:H	17	0.12
(1,1962)	1:123:A:GLU:HA	1:124:A:MET:H	19	0.12
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	18	0.12
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	18	0.12
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	3	0.12
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	6	0.12
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	14	0.12
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	17	0.12
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	18	0.12
(1,1942)	1:135:A:GLN:HG2	1:125:A:ILE:HG12	5	0.12
(1,1942)	1:135:A:GLN:HG2	1:125:A:ILE:HG13	5	0.12
(1,1942)	1:135:A:GLN:HG3	1:125:A:ILE:HG12	5	0.12
(1,1942)	1:135:A:GLN:HG3	1:125:A:ILE:HG13	5	0.12
(1,1942)	1:135:A:GLN:HG2	1:125:A:ILE:HG12	8	0.12
(1,1942)	1:135:A:GLN:HG2	1:125:A:ILE:HG13	8	0.12
(1,1942)	1:135:A:GLN:HG3	1:125:A:ILE:HG12	8	0.12
(1,1942)	1:135:A:GLN:HG3	1:125:A:ILE:HG13	8	0.12
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	8	0.12
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	8	0.12
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	8	0.12
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	9	0.12
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	9	0.12
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	9	0.12
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	9	0.12
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	12	0.12
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	12	0.12
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	12	0.12
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	12	0.12
(1,1922)	1:141:A:PHE:HA	1:141:A:PHE:HZ	14	0.12
(1,1873)	1:18:A:LEU:HD21	1:19:A:PHE:HA	4	0.12
(1,1873)	1:18:A:LEU:HD22	1:19:A:PHE:HA	4	0.12
(1,1873)	1:18:A:LEU:HD23	1:19:A:PHE:HA	4	0.12
(1,1832)	1:28:A:THR:HB	1:31:A:GLU:HA	8	0.12
(1,1832)	1:28:A:THR:HB	1:31:A:GLU:HA	11	0.12
(1,1832)	1:28:A:THR:HB	1:31:A:GLU:HA	20	0.12
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	6	0.12
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	6	0.12
(1,1569)	1:76:A:MET:HB2	1:75:A:LYS:HA	4	0.12
(1,1569)	1:76:A:MET:HB3	1:75:A:LYS:HA	4	0.12
(1,1569)	1:76:A:MET:HB2	1:75:A:LYS:HA	20	0.12
(1,1569)	1:76:A:MET:HB3	1:75:A:LYS:HA	20	0.12
(1,1531)	1:4:A:LEU:HG	1:8:A:GLN:HA	1	0.12
(1,1503)	1:45:A:GLU:HG2	1:44:A:THR:HB	9	0.12
(1,1503)	1:45:A:GLU:HG3	1:44:A:THR:HB	9	0.12
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG2	2	0.12
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG3	2	0.12
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG2	2	0.12
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG3	2	0.12
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG2	2	0.12
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG3	2	0.12
(1,1327)	1:9:A:ILE:HD11	1:5:A:THR:HG21	7	0.12
(1,1327)	1:9:A:ILE:HD11	1:5:A:THR:HG22	7	0.12
(1,1327)	1:9:A:ILE:HD11	1:5:A:THR:HG23	7	0.12
(1,1327)	1:9:A:ILE:HD12	1:5:A:THR:HG21	7	0.12
(1,1327)	1:9:A:ILE:HD12	1:5:A:THR:HG22	7	0.12
(1,1327)	1:9:A:ILE:HD12	1:5:A:THR:HG23	7	0.12
(1,1327)	1:9:A:ILE:HD13	1:5:A:THR:HG21	7	0.12
(1,1327)	1:9:A:ILE:HD13	1:5:A:THR:HG22	7	0.12
(1,1327)	1:9:A:ILE:HD13	1:5:A:THR:HG23	7	0.12
(1,1327)	1:9:A:ILE:HD11	1:5:A:THR:HG21	14	0.12
(1,1327)	1:9:A:ILE:HD11	1:5:A:THR:HG22	14	0.12
(1,1327)	1:9:A:ILE:HD11	1:5:A:THR:HG23	14	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1327)	1:9:A:ILE:HD12	1:5:A:THR:HG21	14	0.12
(1,1327)	1:9:A:ILE:HD12	1:5:A:THR:HG22	14	0.12
(1,1327)	1:9:A:ILE:HD12	1:5:A:THR:HG23	14	0.12
(1,1327)	1:9:A:ILE:HD13	1:5:A:THR:HG21	14	0.12
(1,1327)	1:9:A:ILE:HD13	1:5:A:THR:HG22	14	0.12
(1,1327)	1:9:A:ILE:HD13	1:5:A:THR:HG23	14	0.12
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	17	0.12
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	17	0.12
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	17	0.12
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	17	0.12
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	17	0.12
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	17	0.12
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	17	0.12
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	17	0.12
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	17	0.12
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG21	20	0.12
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG22	20	0.12
(1,1281)	1:69:A:LEU:HD11	1:9:A:ILE:HG23	20	0.12
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG21	20	0.12
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG22	20	0.12
(1,1281)	1:69:A:LEU:HD12	1:9:A:ILE:HG23	20	0.12
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG21	20	0.12
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG22	20	0.12
(1,1281)	1:69:A:LEU:HD13	1:9:A:ILE:HG23	20	0.12
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	7	0.12
(1,1095)	1:13:A:LYS:H	1:13:A:LYS:HA	18	0.12
(1,1092)	1:17:A:SER:H	1:14:A:GLU:HA	2	0.12
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG2	7	0.12
(1,1084)	1:21:A:LYS:H	1:21:A:LYS:HG3	7	0.12
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	4	0.12
(1,1079)	1:29:A:THR:H	1:29:A:THR:HB	15	0.12
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	1	0.12
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	3	0.12
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	6	0.12
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	13	0.12
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	19	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	1	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	1	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	2	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	2	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	4	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	5	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	5	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	7	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	7	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	8	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	8	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	9	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	9	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	10	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	10	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	12	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	12	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	13	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	13	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	16	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	16	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	17	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	17	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	18	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	18	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	20	0.12
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	20	0.12
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	7	0.12
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	10	0.12
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	11	0.12
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	20	0.12
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	20	0.12
(1,1052)	1:46:A:ALA:H	1:46:A:ALA:HA	10	0.12
(1,1052)	1:46:A:ALA:H	1:46:A:ALA:HA	11	0.12
(1,1052)	1:46:A:ALA:H	1:46:A:ALA:HA	20	0.12
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	5	0.12
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	5	0.12
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB2	13	0.12
(1,1050)	1:50:A:ASP:H	1:49:A:GLN:HB3	13	0.12
(1,1044)	1:54:A:GLU:H	1:51:A:MET:HA	6	0.12
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	3	0.12
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	4	0.12
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	12	0.12
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	14	0.12
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	19	0.12
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	1	0.12
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	8	0.12
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	13	0.12
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	17	0.12
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	19	0.12
(1,1013)	1:75:A:LYS:H	1:74:A:ARG:HG2	17	0.12
(1,1013)	1:75:A:LYS:H	1:74:A:ARG:HG3	17	0.12
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	12	0.12
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	1	0.12
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	5	0.12
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	7	0.12
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	2	0.12
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	3	0.12
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	7	0.12
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	8	0.12
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	9	0.12
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	13	0.12
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	15	0.12
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	17	0.12
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	2	0.12
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	9	0.12
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	11	0.12
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	12	0.12
(1,993)	1:91:A:VAL:H	1:90:A:ARG:HA	3	0.12
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	1	0.12
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	11	0.12
(1,992)	1:91:A:VAL:H	1:91:A:VAL:HA	15	0.12
(1,969)	1:103:A:ALA:H	1:101:A:SER:HA	6	0.12
(1,969)	1:103:A:ALA:H	1:101:A:SER:HA	7	0.12
(1,969)	1:103:A:ALA:H	1:101:A:SER:HA	14	0.12
(1,969)	1:103:A:ALA:H	1:101:A:SER:HA	16	0.12
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB2	4	0.12
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB3	4	0.12
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB2	7	0.12
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB3	7	0.12
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB2	15	0.12
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB3	15	0.12
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	3	0.12
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	3	0.12
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	7	0.12
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	7	0.12
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	20	0.12
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	14	0.12
(1,930)	1:127:A:GLU:H	1:127:A:GLU:HA	6	0.12
(1,930)	1:127:A:GLU:H	1:127:A:GLU:HA	7	0.12
(1,930)	1:127:A:GLU:H	1:127:A:GLU:HA	11	0.12
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	10	0.12
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	16	0.12
(1,925)	1:131:A:ASP:H	1:131:A:ASP:HA	8	0.12
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	2	0.12
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	2	0.12
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	7	0.12
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	7	0.12
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	14	0.12
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	14	0.12
(1,911)	1:139:A:GLU:H	1:139:A:GLU:HA	4	0.12
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	4	0.12
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	16	0.12
(1,895)	1:147:A:ALA:H	1:144:A:MET:HA	8	0.12
(1,895)	1:147:A:ALA:H	1:144:A:MET:HA	19	0.12
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	15	0.12
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	7	0.12
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	7	0.12
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB2	19	0.12
(1,881)	1:8:A:GLN:H	1:7:A:GLU:HB3	19	0.12
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB2	10	0.12
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB3	10	0.12
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	7	0.12
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	8	0.12
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	9	0.12
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	13	0.12
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	2	0.12
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	3	0.12
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	1	0.12
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	2	0.12
(1,813)	1:53:A:ASN:H	1:52:A:ILE:HA	4	0.12
(1,793)	1:70:A:THR:H	1:69:A:LEU:HB3	3	0.12
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	5	0.12
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	9	0.12
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	11	0.12
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	16	0.12
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	17	0.12
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	18	0.12
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG21	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG22	11	0.12
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG23	11	0.12
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG2	6	0.12
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG3	6	0.12
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG2	17	0.12
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG3	17	0.12
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	1	0.12
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	5	0.12
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	7	0.12
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	8	0.12
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	11	0.12
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	20	0.12
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	8	0.12
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	8	0.12
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	9	0.12
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	9	0.12
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	14	0.12
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	14	0.12
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	7	0.12
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	7	0.12
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	7	0.12
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	15	0.12
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	15	0.12
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	16	0.12
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	16	0.12
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG2	20	0.12
(1,710)	1:114:A:GLU:H	1:114:A:GLU:HG3	20	0.12
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	4	0.12
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	12	0.12
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	15	0.12
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	18	0.12
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	19	0.12
(1,698)	1:122:A:ASP:H	1:119:A:GLU:HA	19	0.12
(1,690)	1:126:A:ARG:H	1:125:A:ILE:HA	2	0.12
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB2	15	0.12
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB3	15	0.12
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG12	3	0.12
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG13	3	0.12
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG12	6	0.12
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG13	6	0.12
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG12	13	0.12
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG13	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG12	15	0.12
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG13	15	0.12
(1,668)	1:134:A:GLY:H	1:133:A:ASP:HA	2	0.12
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	4	0.12
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	6	0.12
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	8	0.12
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	11	0.12
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	12	0.12
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	13	0.12
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	14	0.12
(1,627)	1:15:A:ALA:H	1:14:A:GLU:HB2	7	0.12
(1,627)	1:15:A:ALA:H	1:14:A:GLU:HB3	7	0.12
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	14	0.12
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	14	0.12
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG21	10	0.12
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG22	10	0.12
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG23	10	0.12
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG21	11	0.12
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG22	11	0.12
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG23	11	0.12
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG21	14	0.12
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG22	14	0.12
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG23	14	0.12
(1,581)	1:44:A:THR:H	1:46:A:ALA:H	2	0.12
(1,581)	1:44:A:THR:H	1:46:A:ALA:H	12	0.12
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	17	0.12
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	17	0.12
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	18	0.12
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	18	0.12
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	20	0.12
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	20	0.12
(1,139)	1:124:A:MET:H	1:123:A:GLU:H	5	0.12
(1,45)	1:115:A:LYS:HG3	1:110:A:THR:HB	18	0.12
(1,2937)	1:145:A:MET:HB2	2:162:B:LYS:HD2	15	0.11
(1,2937)	1:145:A:MET:HB2	2:162:B:LYS:HD3	15	0.11
(1,2937)	1:145:A:MET:HB3	2:162:B:LYS:HD2	15	0.11
(1,2937)	1:145:A:MET:HB3	2:162:B:LYS:HD3	15	0.11
(1,2937)	1:145:A:MET:HB2	2:162:B:LYS:HD2	18	0.11
(1,2937)	1:145:A:MET:HB2	2:162:B:LYS:HD3	18	0.11
(1,2937)	1:145:A:MET:HB3	2:162:B:LYS:HD2	18	0.11
(1,2937)	1:145:A:MET:HB3	2:162:B:LYS:HD3	18	0.11
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB2	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2934)	1:105:A:LEU:HD21	2:154:B:PHE:HB3	19	0.11
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB2	19	0.11
(1,2934)	1:105:A:LEU:HD22	2:154:B:PHE:HB3	19	0.11
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB2	19	0.11
(1,2934)	1:105:A:LEU:HD23	2:154:B:PHE:HB3	19	0.11
(1,2932)	1:144:A:MET:HB2	2:155:B:LYS:HD2	6	0.11
(1,2932)	1:144:A:MET:HB2	2:155:B:LYS:HD3	6	0.11
(1,2932)	1:144:A:MET:HB3	2:155:B:LYS:HD2	6	0.11
(1,2932)	1:144:A:MET:HB3	2:155:B:LYS:HD3	6	0.11
(1,2930)	1:144:A:MET:HB2	2:154:B:PHE:HB2	4	0.11
(1,2930)	1:144:A:MET:HB2	2:154:B:PHE:HB3	4	0.11
(1,2930)	1:144:A:MET:HB3	2:154:B:PHE:HB2	4	0.11
(1,2930)	1:144:A:MET:HB3	2:154:B:PHE:HB3	4	0.11
(1,2930)	1:144:A:MET:HB2	2:154:B:PHE:HB2	6	0.11
(1,2930)	1:144:A:MET:HB2	2:154:B:PHE:HB3	6	0.11
(1,2930)	1:144:A:MET:HB3	2:154:B:PHE:HB2	6	0.11
(1,2930)	1:144:A:MET:HB3	2:154:B:PHE:HB3	6	0.11
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG11	6	0.11
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG12	6	0.11
(1,2927)	1:109:A:MET:HG2	2:157:B:VAL:HG13	6	0.11
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG11	6	0.11
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG12	6	0.11
(1,2927)	1:109:A:MET:HG3	2:157:B:VAL:HG13	6	0.11
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB2	6	0.11
(1,2924)	1:141:A:PHE:HB3	2:154:B:PHE:HB3	6	0.11
(1,2907)	1:75:A:LYS:HB2	2:167:B:LEU:HA	11	0.11
(1,2907)	1:75:A:LYS:HB3	2:167:B:LEU:HA	11	0.11
(1,2848)	2:158:B:ALA:H	2:162:B:LYS:H	1	0.11
(1,2833)	2:157:B:VAL:H	2:161:B:VAL:H	10	0.11
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	10	0.11
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	10	0.11
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	14	0.11
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	14	0.11
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	17	0.11
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	17	0.11
(1,2811)	1:141:A:PHE:HB2	1:141:A:PHE:HZ	18	0.11
(1,2811)	1:141:A:PHE:HB3	1:141:A:PHE:HZ	18	0.11
(1,2790)	1:62:A:THR:HA	1:62:A:THR:H	19	0.11
(1,2768)	1:21:A:LYS:HA	1:22:A:ASP:H	4	0.11
(1,2764)	1:21:A:LYS:HD2	1:19:A:PHE:HA	7	0.11
(1,2764)	1:21:A:LYS:HD3	1:19:A:PHE:HA	7	0.11
(1,2764)	1:21:A:LYS:HD2	1:19:A:PHE:HA	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2764)	1:21:A:LYS:HD3	1:19:A:PHE:HA	17	0.11
(1,2764)	1:21:A:LYS:HD2	1:19:A:PHE:HA	20	0.11
(1,2764)	1:21:A:LYS:HD3	1:19:A:PHE:HA	20	0.11
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	13	0.11
(1,2736)	1:88:A:ALA:HA	1:89:A:PHE:H	10	0.11
(1,2736)	1:88:A:ALA:HA	1:89:A:PHE:H	11	0.11
(1,2736)	1:88:A:ALA:HA	1:89:A:PHE:H	18	0.11
(1,2736)	1:88:A:ALA:HA	1:89:A:PHE:H	19	0.11
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	9	0.11
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	10	0.11
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	11	0.11
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	18	0.11
(1,2725)	1:109:A:MET:HB2	1:114:A:GLU:H	6	0.11
(1,2725)	1:109:A:MET:HB3	1:114:A:GLU:H	6	0.11
(1,2705)	1:137:A:ASN:HB2	1:140:A:GLU:H	8	0.11
(1,2705)	1:137:A:ASN:HB3	1:140:A:GLU:H	8	0.11
(1,2692)	1:9:A:ILE:HB	1:10:A:ALA:H	3	0.11
(1,2692)	1:9:A:ILE:HB	1:10:A:ALA:H	12	0.11
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	4	0.11
(1,2689)	1:55:A:VAL:HA	1:55:A:VAL:H	15	0.11
(1,2672)	1:69:A:LEU:HA	1:69:A:LEU:H	10	0.11
(1,2672)	1:69:A:LEU:HA	1:69:A:LEU:H	13	0.11
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	14	0.11
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	15	0.11
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	16	0.11
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	1	0.11
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	2	0.11
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	3	0.11
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	6	0.11
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	9	0.11
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	11	0.11
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	13	0.11
(1,2668)	1:22:A:ASP:HA	1:22:A:ASP:H	19	0.11
(1,2667)	1:77:A:LYS:HA	1:77:A:LYS:H	6	0.11
(1,2667)	1:77:A:LYS:HA	1:77:A:LYS:H	7	0.11
(1,2667)	1:77:A:LYS:HA	1:77:A:LYS:H	15	0.11
(1,2659)	1:27:A:ILE:HD11	1:63:A:ILE:HB	3	0.11
(1,2659)	1:27:A:ILE:HD12	1:63:A:ILE:HB	3	0.11
(1,2659)	1:27:A:ILE:HD13	1:63:A:ILE:HB	3	0.11
(1,2659)	1:27:A:ILE:HD11	1:63:A:ILE:HB	19	0.11
(1,2659)	1:27:A:ILE:HD12	1:63:A:ILE:HB	19	0.11
(1,2659)	1:27:A:ILE:HD13	1:63:A:ILE:HB	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2658)	1:27:A:ILE:HD11	1:27:A:ILE:H	17	0.11
(1,2658)	1:27:A:ILE:HD12	1:27:A:ILE:H	17	0.11
(1,2658)	1:27:A:ILE:HD13	1:27:A:ILE:H	17	0.11
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	4	0.11
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	5	0.11
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	6	0.11
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	7	0.11
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	8	0.11
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	9	0.11
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	10	0.11
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	11	0.11
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	16	0.11
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	20	0.11
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	4	0.11
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	4	0.11
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	13	0.11
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	13	0.11
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	14	0.11
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	14	0.11
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	15	0.11
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	15	0.11
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	15	0.11
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB2	7	0.11
(1,2641)	1:48:A:LEU:HD21	1:36:A:MET:HB3	7	0.11
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB2	7	0.11
(1,2641)	1:48:A:LEU:HD22	1:36:A:MET:HB3	7	0.11
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB2	7	0.11
(1,2641)	1:48:A:LEU:HD23	1:36:A:MET:HB3	7	0.11
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	8	0.11
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	8	0.11
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	8	0.11
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	20	0.11
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	20	0.11
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	20	0.11
(1,2633)	1:84:A:GLU:HA	1:85:A:ILE:H	1	0.11
(1,2633)	1:84:A:GLU:HA	1:85:A:ILE:H	14	0.11
(1,2632)	1:84:A:GLU:HA	1:84:A:GLU:H	2	0.11
(1,2632)	1:84:A:GLU:HA	1:84:A:GLU:H	3	0.11
(1,2632)	1:84:A:GLU:HA	1:84:A:GLU:H	9	0.11
(1,2632)	1:84:A:GLU:HA	1:84:A:GLU:H	11	0.11
(1,2632)	1:84:A:GLU:HA	1:84:A:GLU:H	15	0.11
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	4	0.11
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	6	0.11
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	10	0.11
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	12	0.11
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	14	0.11
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	16	0.11
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	18	0.11
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	19	0.11
(1,2630)	1:87:A:GLU:HA	1:87:A:GLU:H	20	0.11
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	8	0.11
(1,2629)	1:87:A:GLU:HA	1:90:A:ARG:H	13	0.11
(1,2617)	1:102:A:ALA:HA	1:105:A:LEU:H	8	0.11
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	1	0.11
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	7	0.11
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	8	0.11
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	11	0.11
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	12	0.11
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	17	0.11
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	19	0.11
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	6	0.11
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	6	0.11
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	6	0.11
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	6	0.11
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB2	13	0.11
(1,2597)	1:116:A:LEU:HB2	1:109:A:MET:HB3	13	0.11
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB2	13	0.11
(1,2597)	1:116:A:LEU:HB3	1:109:A:MET:HB3	13	0.11
(1,2570)	1:135:A:GLN:HB2	1:101:A:SER:HB2	16	0.11
(1,2570)	1:135:A:GLN:HB2	1:101:A:SER:HB3	16	0.11
(1,2570)	1:135:A:GLN:HB3	1:101:A:SER:HB2	16	0.11
(1,2570)	1:135:A:GLN:HB3	1:101:A:SER:HB3	16	0.11
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD11	1	0.11
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD12	1	0.11
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD13	1	0.11
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD11	1	0.11
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD12	1	0.11
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD13	1	0.11
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD11	1	0.11
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD12	1	0.11
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD13	1	0.11
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD11	3	0.11
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD12	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD13	3	0.11
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD11	3	0.11
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD12	3	0.11
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD13	3	0.11
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD11	3	0.11
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD12	3	0.11
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD13	3	0.11
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	1	0.11
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	1	0.11
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	1	0.11
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	1	0.11
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	1	0.11
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	1	0.11
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	1	0.11
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	1	0.11
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	1	0.11
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	10	0.11
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	10	0.11
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	10	0.11
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	10	0.11
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	10	0.11
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	10	0.11
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	10	0.11
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	10	0.11
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	10	0.11
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD11	15	0.11
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD12	15	0.11
(1,2563)	1:136:A:VAL:HG11	1:125:A:ILE:HD13	15	0.11
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD11	15	0.11
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD12	15	0.11
(1,2563)	1:136:A:VAL:HG12	1:125:A:ILE:HD13	15	0.11
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD11	15	0.11
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD12	15	0.11
(1,2563)	1:136:A:VAL:HG13	1:125:A:ILE:HD13	15	0.11
(1,2562)	1:136:A:VAL:HG11	1:129:A:ASP:H	13	0.11
(1,2562)	1:136:A:VAL:HG12	1:129:A:ASP:H	13	0.11
(1,2562)	1:136:A:VAL:HG13	1:129:A:ASP:H	13	0.11
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB2	2	0.11
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB3	2	0.11
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB2	11	0.11
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB3	11	0.11
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB2	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB3	17	0.11
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	9	0.11
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	11	0.11
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	15	0.11
(1,2526)	1:14:A:GLU:HA	1:14:A:GLU:H	7	0.11
(1,2524)	1:67:A:GLU:HA	1:70:A:THR:HB	15	0.11
(1,2524)	1:67:A:GLU:HA	1:70:A:THR:HB	18	0.11
(1,2517)	1:75:A:LYS:HG2	1:71:A:MET:HB2	16	0.11
(1,2517)	1:75:A:LYS:HG2	1:71:A:MET:HB3	16	0.11
(1,2517)	1:75:A:LYS:HG3	1:71:A:MET:HB2	16	0.11
(1,2517)	1:75:A:LYS:HG3	1:71:A:MET:HB3	16	0.11
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	1	0.11
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	1	0.11
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	1	0.11
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	1	0.11
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	1	0.11
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	1	0.11
(1,2511)	1:77:A:LYS:HG2	1:77:A:LYS:H	7	0.11
(1,2511)	1:77:A:LYS:HG3	1:77:A:LYS:H	7	0.11
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG21	16	0.11
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG22	16	0.11
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG23	16	0.11
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG21	16	0.11
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG22	16	0.11
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG23	16	0.11
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG21	16	0.11
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG22	16	0.11
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG23	16	0.11
(1,2504)	1:28:A:THR:HG21	1:28:A:THR:H	6	0.11
(1,2504)	1:28:A:THR:HG22	1:28:A:THR:H	6	0.11
(1,2504)	1:28:A:THR:HG23	1:28:A:THR:H	6	0.11
(1,2504)	1:28:A:THR:HG21	1:28:A:THR:H	11	0.11
(1,2504)	1:28:A:THR:HG22	1:28:A:THR:H	11	0.11
(1,2504)	1:28:A:THR:HG23	1:28:A:THR:H	11	0.11
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	14	0.11
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	14	0.11
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	14	0.11
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	6	0.11
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	6	0.11
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	6	0.11
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	12	0.11
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	12	0.11
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	16	0.11
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	16	0.11
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	16	0.11
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB2	7	0.11
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB3	7	0.11
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB2	12	0.11
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB3	12	0.11
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB2	14	0.11
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB3	14	0.11
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB2	17	0.11
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB3	17	0.11
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD11	11	0.11
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD12	11	0.11
(1,2481)	1:35:A:VAL:HB	1:27:A:ILE:HD13	11	0.11
(1,2478)	1:35:A:VAL:HB	1:35:A:VAL:H	8	0.11
(1,2477)	1:39:A:LEU:HG	1:39:A:LEU:H	4	0.11
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	4	0.11
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	7	0.11
(1,2464)	1:49:A:GLN:HA	1:53:A:ASN:H	18	0.11
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	8	0.11
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	8	0.11
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	8	0.11
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	9	0.11
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	9	0.11
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	9	0.11
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	12	0.11
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	12	0.11
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	12	0.11
(1,2430)	1:105:A:LEU:HD21	1:109:A:MET:H	1	0.11
(1,2430)	1:105:A:LEU:HD22	1:109:A:MET:H	1	0.11
(1,2430)	1:105:A:LEU:HD23	1:109:A:MET:H	1	0.11
(1,2418)	1:119:A:GLU:HG2	1:120:A:GLU:H	18	0.11
(1,2418)	1:119:A:GLU:HG3	1:120:A:GLU:H	18	0.11
(1,2407)	1:142:A:VAL:HA	1:145:A:MET:HB2	6	0.11
(1,2407)	1:142:A:VAL:HA	1:145:A:MET:HB3	6	0.11
(1,2404)	1:142:A:VAL:HA	1:145:A:MET:H	1	0.11
(1,2404)	1:142:A:VAL:HA	1:145:A:MET:H	10	0.11
(1,2380)	1:62:A:THR:HB	1:62:A:THR:H	6	0.11
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	1	0.11
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	2	0.11
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	17	0.11
(1,2376)	1:14:A:GLU:HB2	1:11:A:GLU:HA	19	0.11
(1,2376)	1:14:A:GLU:HB3	1:11:A:GLU:HA	19	0.11
(1,2374)	1:14:A:GLU:HB2	1:15:A:ALA:H	6	0.11
(1,2374)	1:14:A:GLU:HB3	1:15:A:ALA:H	6	0.11
(1,2366)	1:68:A:PHE:HA	1:69:A:LEU:H	13	0.11
(1,2362)	1:19:A:PHE:HB2	1:20:A:ASP:H	4	0.11
(1,2362)	1:19:A:PHE:HB3	1:20:A:ASP:H	4	0.11
(1,2362)	1:19:A:PHE:HB2	1:20:A:ASP:H	11	0.11
(1,2362)	1:19:A:PHE:HB3	1:20:A:ASP:H	11	0.11
(1,2362)	1:19:A:PHE:HB2	1:20:A:ASP:H	14	0.11
(1,2362)	1:19:A:PHE:HB3	1:20:A:ASP:H	14	0.11
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	2	0.11
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	10	0.11
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	13	0.11
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	16	0.11
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	17	0.11
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB2	2	0.11
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB3	2	0.11
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB2	2	0.11
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB3	2	0.11
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB2	6	0.11
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB3	6	0.11
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB2	6	0.11
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB3	6	0.11
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB2	13	0.11
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB3	13	0.11
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB2	13	0.11
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB3	13	0.11
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB2	20	0.11
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB3	20	0.11
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB2	20	0.11
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB3	20	0.11
(1,2293)	1:48:A:LEU:HA	1:51:A:MET:H	1	0.11
(1,2293)	1:48:A:LEU:HA	1:51:A:MET:H	10	0.11
(1,2293)	1:48:A:LEU:HA	1:51:A:MET:H	12	0.11
(1,2293)	1:48:A:LEU:HA	1:51:A:MET:H	16	0.11
(1,2289)	1:50:A:ASP:HA	1:53:A:ASN:H	15	0.11
(1,2288)	1:50:A:ASP:HA	1:51:A:MET:H	5	0.11
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	1	0.11
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	3	0.11
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	6	0.11
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	7	0.11
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	8	0.11
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	10	0.11
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	12	0.11
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	13	0.11
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	15	0.11
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	19	0.11
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	20	0.11
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	2	0.11
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	3	0.11
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	6	0.11
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	15	0.11
(1,2263)	1:108:A:VAL:HA	1:111:A:ASN:H	7	0.11
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	11	0.11
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	17	0.11
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	18	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	3	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	3	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	3	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	3	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	3	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	3	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	7	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	7	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	7	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	7	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	7	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	7	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	8	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	8	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	8	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	8	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	8	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	8	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	12	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	12	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	12	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	12	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	12	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	12	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	14	0.11
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	14	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	14	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	14	0.11
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	14	0.11
(1,2250)	1:112:A:LEU:HA	1:113:A:GLY:H	2	0.11
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	1	0.11
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	3	0.11
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	5	0.11
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	6	0.11
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	7	0.11
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	8	0.11
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	11	0.11
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	13	0.11
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	14	0.11
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	16	0.11
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	17	0.11
(1,2241)	1:121:A:VAL:HA	1:122:A:ASP:H	20	0.11
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB2	10	0.11
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB3	10	0.11
(1,2226)	1:125:A:ILE:HA	1:128:A:ALA:H	19	0.11
(1,2221)	1:129:A:ASP:HB2	1:130:A:ILE:H	11	0.11
(1,2221)	1:129:A:ASP:HB3	1:130:A:ILE:H	11	0.11
(1,2221)	1:129:A:ASP:HB2	1:130:A:ILE:H	18	0.11
(1,2221)	1:129:A:ASP:HB3	1:130:A:ILE:H	18	0.11
(1,2214)	1:130:A:ILE:HD11	1:143:A:GLN:HB2	4	0.11
(1,2214)	1:130:A:ILE:HD11	1:143:A:GLN:HB3	4	0.11
(1,2214)	1:130:A:ILE:HD12	1:143:A:GLN:HB2	4	0.11
(1,2214)	1:130:A:ILE:HD12	1:143:A:GLN:HB3	4	0.11
(1,2214)	1:130:A:ILE:HD13	1:143:A:GLN:HB2	4	0.11
(1,2214)	1:130:A:ILE:HD13	1:143:A:GLN:HB3	4	0.11
(1,2214)	1:130:A:ILE:HD11	1:143:A:GLN:HB2	15	0.11
(1,2214)	1:130:A:ILE:HD11	1:143:A:GLN:HB3	15	0.11
(1,2214)	1:130:A:ILE:HD12	1:143:A:GLN:HB2	15	0.11
(1,2214)	1:130:A:ILE:HD12	1:143:A:GLN:HB3	15	0.11
(1,2214)	1:130:A:ILE:HD13	1:143:A:GLN:HB2	15	0.11
(1,2214)	1:130:A:ILE:HD13	1:143:A:GLN:HB3	15	0.11
(1,2212)	1:136:A:VAL:HA	1:140:A:GLU:HB2	16	0.11
(1,2212)	1:136:A:VAL:HA	1:140:A:GLU:HB3	16	0.11
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	7	0.11
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	8	0.11
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	7	0.11
(1,2203)	1:139:A:GLU:HA	1:140:A:GLU:H	8	0.11
(1,2202)	1:140:A:GLU:HG2	1:130:A:ILE:HB	1	0.11
(1,2202)	1:140:A:GLU:HG3	1:130:A:ILE:HB	1	0.11
(1,2180)	1:9:A:ILE:HG21	1:10:A:ALA:H	11	0.11
(1,2180)	1:9:A:ILE:HG22	1:10:A:ALA:H	11	0.11
(1,2180)	1:9:A:ILE:HG23	1:10:A:ALA:H	11	0.11
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD11	12	0.11
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD12	12	0.11
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD13	12	0.11
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD11	12	0.11
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD12	12	0.11
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD13	12	0.11
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD11	18	0.11
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD12	18	0.11
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD13	18	0.11
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD11	18	0.11
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD12	18	0.11
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD13	18	0.11
(1,2147)	1:72:A:MET:HA	1:73:A:ALA:H	1	0.11
(1,2137)	1:77:A:LYS:HB2	1:76:A:MET:HA	10	0.11
(1,2137)	1:77:A:LYS:HB3	1:76:A:MET:HA	10	0.11
(1,2128)	1:26:A:THR:HG21	1:27:A:ILE:H	4	0.11
(1,2128)	1:26:A:THR:HG22	1:27:A:ILE:H	4	0.11
(1,2128)	1:26:A:THR:HG23	1:27:A:ILE:H	4	0.11
(1,2128)	1:26:A:THR:HG21	1:27:A:ILE:H	5	0.11
(1,2128)	1:26:A:THR:HG22	1:27:A:ILE:H	5	0.11
(1,2128)	1:26:A:THR:HG23	1:27:A:ILE:H	5	0.11
(1,2128)	1:26:A:THR:HG21	1:27:A:ILE:H	12	0.11
(1,2128)	1:26:A:THR:HG22	1:27:A:ILE:H	12	0.11
(1,2128)	1:26:A:THR:HG23	1:27:A:ILE:H	12	0.11
(1,2108)	1:34:A:THR:HB	1:31:A:GLU:HA	9	0.11
(1,2108)	1:34:A:THR:HB	1:31:A:GLU:HA	13	0.11
(1,2108)	1:34:A:THR:HB	1:31:A:GLU:HA	19	0.11
(1,2108)	1:34:A:THR:HB	1:31:A:GLU:HA	20	0.11
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	7	0.11
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	15	0.11
(1,2096)	1:46:A:ALA:HA	1:47:A:GLU:H	20	0.11
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB2	4	0.11
(1,2095)	1:48:A:LEU:HB2	1:45:A:GLU:HB3	4	0.11
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB2	4	0.11
(1,2095)	1:48:A:LEU:HB3	1:45:A:GLU:HB3	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2077)	1:86:A:ARG:HA	1:87:A:GLU:H	1	0.11
(1,2077)	1:86:A:ARG:HA	1:87:A:GLU:H	2	0.11
(1,2077)	1:86:A:ARG:HA	1:87:A:GLU:H	13	0.11
(1,2072)	1:86:A:ARG:HA	1:89:A:PHE:H	2	0.11
(1,2072)	1:86:A:ARG:HA	1:89:A:PHE:H	5	0.11
(1,2072)	1:86:A:ARG:HA	1:89:A:PHE:H	16	0.11
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD1	6	0.11
(1,2065)	1:89:A:PHE:HA	1:89:A:PHE:HD2	6	0.11
(1,2062)	1:90:A:ARG:HA	1:91:A:VAL:H	7	0.11
(1,2062)	1:90:A:ARG:HA	1:91:A:VAL:H	9	0.11
(1,2062)	1:90:A:ARG:HA	1:91:A:VAL:H	17	0.11
(1,2062)	1:90:A:ARG:HA	1:91:A:VAL:H	19	0.11
(1,2052)	1:95:A:ASP:HB2	1:96:A:GLY:H	8	0.11
(1,2052)	1:95:A:ASP:HB3	1:96:A:GLY:H	8	0.11
(1,2052)	1:95:A:ASP:HB2	1:96:A:GLY:H	19	0.11
(1,2052)	1:95:A:ASP:HB3	1:96:A:GLY:H	19	0.11
(1,2047)	1:100:A:ILE:HG21	1:93:A:ASP:H	2	0.11
(1,2047)	1:100:A:ILE:HG22	1:93:A:ASP:H	2	0.11
(1,2047)	1:100:A:ILE:HG23	1:93:A:ASP:H	2	0.11
(1,2047)	1:100:A:ILE:HG21	1:93:A:ASP:H	9	0.11
(1,2047)	1:100:A:ILE:HG22	1:93:A:ASP:H	9	0.11
(1,2047)	1:100:A:ILE:HG23	1:93:A:ASP:H	9	0.11
(1,2047)	1:100:A:ILE:HG21	1:93:A:ASP:H	12	0.11
(1,2047)	1:100:A:ILE:HG22	1:93:A:ASP:H	12	0.11
(1,2047)	1:100:A:ILE:HG23	1:93:A:ASP:H	12	0.11
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	2	0.11
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	2	0.11
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	2	0.11
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	2	0.11
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	2	0.11
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	2	0.11
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	7	0.11
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	7	0.11
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	7	0.11
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	7	0.11
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	7	0.11
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	7	0.11
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	12	0.11
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	12	0.11
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	12	0.11
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	12	0.11
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	12	0.11
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	15	0.11
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	15	0.11
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	15	0.11
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	15	0.11
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	15	0.11
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	15	0.11
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	16	0.11
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	16	0.11
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	16	0.11
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	16	0.11
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	16	0.11
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	16	0.11
(1,1982)	1:119:A:GLU:HA	1:122:A:ASP:H	3	0.11
(1,1982)	1:119:A:GLU:HA	1:122:A:ASP:H	12	0.11
(1,1978)	1:120:A:GLU:HG2	1:116:A:LEU:HB2	4	0.11
(1,1978)	1:120:A:GLU:HG2	1:116:A:LEU:HB3	4	0.11
(1,1978)	1:120:A:GLU:HG3	1:116:A:LEU:HB2	4	0.11
(1,1978)	1:120:A:GLU:HG3	1:116:A:LEU:HB3	4	0.11
(1,1962)	1:123:A:GLU:HA	1:124:A:MET:H	13	0.11
(1,1956)	1:125:A:ILE:HG12	1:124:A:MET:HA	7	0.11
(1,1956)	1:125:A:ILE:HG13	1:124:A:MET:HA	7	0.11
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	5	0.11
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	16	0.11
(1,1942)	1:135:A:GLN:HG2	1:125:A:ILE:HG12	18	0.11
(1,1942)	1:135:A:GLN:HG2	1:125:A:ILE:HG13	18	0.11
(1,1942)	1:135:A:GLN:HG3	1:125:A:ILE:HG12	18	0.11
(1,1942)	1:135:A:GLN:HG3	1:125:A:ILE:HG13	18	0.11
(1,1934)	1:136:A:VAL:HG21	1:140:A:GLU:H	13	0.11
(1,1934)	1:136:A:VAL:HG22	1:140:A:GLU:H	13	0.11
(1,1934)	1:136:A:VAL:HG23	1:140:A:GLU:H	13	0.11
(1,1922)	1:141:A:PHE:HA	1:141:A:PHE:HZ	7	0.11
(1,1876)	1:67:A:GLU:HB2	1:64:A:ASP:HA	19	0.11
(1,1876)	1:67:A:GLU:HB3	1:64:A:ASP:HA	19	0.11
(1,1873)	1:18:A:LEU:HD21	1:19:A:PHE:HA	12	0.11
(1,1873)	1:18:A:LEU:HD22	1:19:A:PHE:HA	12	0.11
(1,1873)	1:18:A:LEU:HD23	1:19:A:PHE:HA	12	0.11
(1,1873)	1:18:A:LEU:HD21	1:19:A:PHE:HA	14	0.11
(1,1873)	1:18:A:LEU:HD22	1:19:A:PHE:HA	14	0.11
(1,1873)	1:18:A:LEU:HD23	1:19:A:PHE:HA	14	0.11
(1,1873)	1:18:A:LEU:HD21	1:19:A:PHE:HA	15	0.11
(1,1873)	1:18:A:LEU:HD22	1:19:A:PHE:HA	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1873)	1:18:A:LEU:HD23	1:19:A:PHE:HA	15	0.11
(1,1873)	1:18:A:LEU:HD21	1:19:A:PHE:HA	20	0.11
(1,1873)	1:18:A:LEU:HD22	1:19:A:PHE:HA	20	0.11
(1,1873)	1:18:A:LEU:HD23	1:19:A:PHE:HA	20	0.11
(1,1832)	1:28:A:THR:HB	1:31:A:GLU:HA	14	0.11
(1,1792)	1:39:A:LEU:HD11	1:12:A:PHE:HA	16	0.11
(1,1792)	1:39:A:LEU:HD12	1:12:A:PHE:HA	16	0.11
(1,1792)	1:39:A:LEU:HD13	1:12:A:PHE:HA	16	0.11
(1,1792)	1:39:A:LEU:HD11	1:12:A:PHE:HA	20	0.11
(1,1792)	1:39:A:LEU:HD12	1:12:A:PHE:HA	20	0.11
(1,1792)	1:39:A:LEU:HD13	1:12:A:PHE:HA	20	0.11
(1,1760)	1:83:A:GLU:HG2	1:86:A:ARG:HD2	5	0.11
(1,1760)	1:83:A:GLU:HG2	1:86:A:ARG:HD3	5	0.11
(1,1760)	1:83:A:GLU:HG3	1:86:A:ARG:HD2	5	0.11
(1,1760)	1:83:A:GLU:HG3	1:86:A:ARG:HD3	5	0.11
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	3	0.11
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	3	0.11
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	4	0.11
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	4	0.11
(1,1574)	1:74:A:ARG:HB2	1:70:A:THR:HA	11	0.11
(1,1574)	1:74:A:ARG:HB3	1:70:A:THR:HA	11	0.11
(1,1569)	1:76:A:MET:HB2	1:75:A:LYS:HA	6	0.11
(1,1569)	1:76:A:MET:HB3	1:75:A:LYS:HA	6	0.11
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG2	3	0.11
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG3	3	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG2	3	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG3	3	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG2	3	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG3	3	0.11
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG2	4	0.11
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG3	4	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG2	4	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG3	4	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG2	4	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG3	4	0.11
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG2	8	0.11
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG3	8	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG2	8	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG3	8	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG2	8	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG3	8	0.11
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG2	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG3	12	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG2	12	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG3	12	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG2	12	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG3	12	0.11
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG2	13	0.11
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG3	13	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG2	13	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG3	13	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG2	13	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG3	13	0.11
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG2	17	0.11
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG3	17	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG2	17	0.11
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG3	17	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG2	17	0.11
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG3	17	0.11
(1,1489)	1:50:A:ASP:HB2	1:49:A:GLN:HA	4	0.11
(1,1489)	1:50:A:ASP:HB3	1:49:A:GLN:HA	4	0.11
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	8	0.11
(1,1475)	1:92:A:PHE:HA	1:89:A:PHE:HA	17	0.11
(1,1410)	1:121:A:VAL:HB	1:122:A:ASP:HB2	10	0.11
(1,1410)	1:121:A:VAL:HB	1:122:A:ASP:HB3	10	0.11
(1,1400)	1:124:A:MET:HB2	1:121:A:VAL:HG21	17	0.11
(1,1400)	1:124:A:MET:HB2	1:121:A:VAL:HG22	17	0.11
(1,1400)	1:124:A:MET:HB2	1:121:A:VAL:HG23	17	0.11
(1,1400)	1:124:A:MET:HB3	1:121:A:VAL:HG21	17	0.11
(1,1400)	1:124:A:MET:HB3	1:121:A:VAL:HG22	17	0.11
(1,1400)	1:124:A:MET:HB3	1:121:A:VAL:HG23	17	0.11
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	3	0.11
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	3	0.11
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	7	0.11
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	7	0.11
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	12	0.11
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	12	0.11
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	5	0.11
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	10	0.11
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	11	0.11
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	14	0.11
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	20	0.11
(1,1077)	1:29:A:THR:H	1:29:A:THR:HG21	15	0.11
(1,1077)	1:29:A:THR:H	1:29:A:THR:HG22	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1077)	1:29:A:THR:H	1:29:A:THR:HG23	15	0.11
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	2	0.11
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	5	0.11
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	7	0.11
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	9	0.11
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	12	0.11
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	16	0.11
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	4	0.11
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	5	0.11
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	6	0.11
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	7	0.11
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	8	0.11
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	9	0.11
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	10	0.11
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	11	0.11
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	16	0.11
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	20	0.11
(1,1066)	1:37:A:ARG:H	1:37:A:ARG:HD2	8	0.11
(1,1066)	1:37:A:ARG:H	1:37:A:ARG:HD3	8	0.11
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	3	0.11
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	3	0.11
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG2	6	0.11
(1,1065)	1:37:A:ARG:H	1:37:A:ARG:HG3	6	0.11
(1,1058)	1:41:A:GLN:H	1:37:A:ARG:HA	10	0.11
(1,1052)	1:46:A:ALA:H	1:46:A:ALA:HA	7	0.11
(1,1052)	1:46:A:ALA:H	1:46:A:ALA:HA	12	0.11
(1,1052)	1:46:A:ALA:H	1:46:A:ALA:HA	14	0.11
(1,1052)	1:46:A:ALA:H	1:46:A:ALA:HA	15	0.11
(1,1034)	1:62:A:THR:H	1:62:A:THR:HA	19	0.11
(1,1031)	1:62:A:THR:H	1:62:A:THR:HB	6	0.11
(1,1021)	1:71:A:MET:H	1:71:A:MET:HA	1	0.11
(1,1015)	1:75:A:LYS:H	1:75:A:LYS:HA	2	0.11
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	9	0.11
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	14	0.11
(1,1000)	1:83:A:GLU:H	1:83:A:GLU:HA	19	0.11
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	1	0.11
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	4	0.11
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	6	0.11
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	10	0.11
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	12	0.11
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	14	0.11
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	16	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	18	0.11
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	19	0.11
(1,999)	1:87:A:GLU:H	1:87:A:GLU:HA	20	0.11
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	13	0.11
(1,993)	1:91:A:VAL:H	1:90:A:ARG:HA	7	0.11
(1,993)	1:91:A:VAL:H	1:90:A:ARG:HA	9	0.11
(1,993)	1:91:A:VAL:H	1:90:A:ARG:HA	17	0.11
(1,993)	1:91:A:VAL:H	1:90:A:ARG:HA	19	0.11
(1,974)	1:103:A:ALA:H	1:101:A:SER:HB2	12	0.11
(1,974)	1:103:A:ALA:H	1:101:A:SER:HB3	12	0.11
(1,969)	1:103:A:ALA:H	1:101:A:SER:HA	5	0.11
(1,969)	1:103:A:ALA:H	1:101:A:SER:HA	11	0.11
(1,969)	1:103:A:ALA:H	1:101:A:SER:HA	19	0.11
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB2	2	0.11
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB3	2	0.11
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB2	9	0.11
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB3	9	0.11
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB2	11	0.11
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB3	11	0.11
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB2	12	0.11
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB3	12	0.11
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB2	20	0.11
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB3	20	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	2	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	3	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	5	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	6	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	9	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	11	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	12	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	13	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	14	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	16	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	17	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	18	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	19	0.11
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	20	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	5	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	5	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	6	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	6	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	9	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	11	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	11	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	12	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	12	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	14	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	14	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	15	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	15	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	16	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	16	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	17	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	17	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	19	0.11
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	19	0.11
(1,938)	1:123:A:GLU:H	1:122:A:ASP:HA	20	0.11
(1,930)	1:127:A:GLU:H	1:127:A:GLU:HA	8	0.11
(1,930)	1:127:A:GLU:H	1:127:A:GLU:HA	9	0.11
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	1	0.11
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	2	0.11
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	4	0.11
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	6	0.11
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	14	0.11
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	15	0.11
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	17	0.11
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	20	0.11
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG2	19	0.11
(1,916)	1:135:A:GLN:H	1:135:A:GLN:HG3	19	0.11
(1,911)	1:139:A:GLU:H	1:139:A:GLU:HA	9	0.11
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	7	0.11
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	8	0.11
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	10	0.11
(1,902)	1:143:A:GLN:H	1:140:A:GLU:HA	11	0.11
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	3	0.11
(1,893)	1:4:A:LEU:H	1:5:A:THR:H	5	0.11
(1,871)	1:20:A:ASP:H	1:19:A:PHE:HA	7	0.11
(1,871)	1:20:A:ASP:H	1:19:A:PHE:HA	15	0.11
(1,871)	1:20:A:ASP:H	1:19:A:PHE:HA	16	0.11
(1,871)	1:20:A:ASP:H	1:19:A:PHE:HA	18	0.11
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB2	4	0.11
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB3	4	0.11
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB2	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB3	11	0.11
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB2	14	0.11
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB3	14	0.11
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	6	0.11
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	5	0.11
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	8	0.11
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	10	0.11
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	13	0.11
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	15	0.11
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	16	0.11
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	18	0.11
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	4	0.11
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	7	0.11
(1,818)	1:53:A:ASN:H	1:49:A:GLN:HA	18	0.11
(1,816)	1:53:A:ASN:H	1:50:A:ASP:HA	15	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	1	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	2	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	3	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	4	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	5	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	7	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	8	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	9	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	10	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	12	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	13	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	14	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	17	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	18	0.11
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	20	0.11
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	1	0.11
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	3	0.11
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	4	0.11
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	6	0.11
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	7	0.11
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	8	0.11
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	10	0.11
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	12	0.11
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	13	0.11
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	15	0.11
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	19	0.11
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG21	2	0.11
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG22	2	0.11
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG23	2	0.11
(1,768)	1:86:A:ARG:H	1:85:A:ILE:HD11	2	0.11
(1,768)	1:86:A:ARG:H	1:85:A:ILE:HD12	2	0.11
(1,768)	1:86:A:ARG:H	1:85:A:ILE:HD13	2	0.11
(1,768)	1:86:A:ARG:H	1:85:A:ILE:HD11	11	0.11
(1,768)	1:86:A:ARG:H	1:85:A:ILE:HD12	11	0.11
(1,768)	1:86:A:ARG:H	1:85:A:ILE:HD13	11	0.11
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	2	0.11
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	3	0.11
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	6	0.11
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	15	0.11
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	3	0.11
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	3	0.11
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	11	0.11
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	11	0.11
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	8	0.11
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	8	0.11
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	8	0.11
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	9	0.11
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	9	0.11
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	9	0.11
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	12	0.11
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	12	0.11
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	12	0.11
(1,712)	1:114:A:GLU:H	1:112:A:LEU:HB2	1	0.11
(1,712)	1:114:A:GLU:H	1:112:A:LEU:HB3	1	0.11
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	1	0.11
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	3	0.11
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	5	0.11
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	6	0.11
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	7	0.11
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	8	0.11
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	11	0.11
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	13	0.11
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	14	0.11
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	16	0.11
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	17	0.11
(1,699)	1:122:A:ASP:H	1:121:A:VAL:HA	20	0.11
(1,698)	1:122:A:ASP:H	1:119:A:GLU:HA	3	0.11
(1,698)	1:122:A:ASP:H	1:119:A:GLU:HA	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	9	0.11
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	14	0.11
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	16	0.11
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB2	11	0.11
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB3	11	0.11
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB2	18	0.11
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB3	18	0.11
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG12	11	0.11
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG13	11	0.11
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG12	12	0.11
(1,670)	1:134:A:GLY:H	1:125:A:ILE:HG13	12	0.11
(1,668)	1:134:A:GLY:H	1:133:A:ASP:HA	3	0.11
(1,668)	1:134:A:GLY:H	1:133:A:ASP:HA	4	0.11
(1,668)	1:134:A:GLY:H	1:133:A:ASP:HA	6	0.11
(1,668)	1:134:A:GLY:H	1:133:A:ASP:HA	9	0.11
(1,668)	1:134:A:GLY:H	1:133:A:ASP:HA	11	0.11
(1,668)	1:134:A:GLY:H	1:133:A:ASP:HA	15	0.11
(1,668)	1:134:A:GLY:H	1:133:A:ASP:HA	18	0.11
(1,667)	1:138:A:TYR:H	1:138:A:TYR:HD1	14	0.11
(1,667)	1:138:A:TYR:H	1:138:A:TYR:HD2	14	0.11
(1,655)	1:142:A:VAL:H	1:141:A:PHE:HA	18	0.11
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	3	0.11
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	7	0.11
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	18	0.11
(1,640)	1:7:A:GLU:H	1:6:A:GLU:HA	20	0.11
(1,627)	1:15:A:ALA:H	1:14:A:GLU:HB2	6	0.11
(1,627)	1:15:A:ALA:H	1:14:A:GLU:HB3	6	0.11
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	20	0.11
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	20	0.11
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD11	17	0.11
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD12	17	0.11
(1,613)	1:27:A:ILE:H	1:27:A:ILE:HD13	17	0.11
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG21	4	0.11
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG22	4	0.11
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG23	4	0.11
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG21	5	0.11
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG22	5	0.11
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG23	5	0.11
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG21	12	0.11
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG22	12	0.11
(1,608)	1:27:A:ILE:H	1:26:A:THR:HG23	12	0.11
(1,581)	1:44:A:THR:H	1:46:A:ALA:H	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,581)	1:44:A:THR:H	1:46:A:ALA:H	8	0.11
(1,581)	1:44:A:THR:H	1:46:A:ALA:H	16	0.11
(1,581)	1:44:A:THR:H	1:46:A:ALA:H	19	0.11
(1,413)	1:129:A:ASP:H	1:136:A:VAL:HG11	13	0.11
(1,413)	1:129:A:ASP:H	1:136:A:VAL:HG12	13	0.11
(1,413)	1:129:A:ASP:H	1:136:A:VAL:HG13	13	0.11
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	7	0.11
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	7	0.11
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE1	14	0.11
(1,390)	1:141:A:PHE:H	1:141:A:PHE:HE2	14	0.11
(1,139)	1:124:A:MET:H	1:123:A:GLU:H	4	0.11
(1,139)	1:124:A:MET:H	1:123:A:GLU:H	7	0.11
(1,45)	1:115:A:LYS:HG3	1:110:A:THR:HB	17	0.11
(1,2937)	1:145:A:MET:HB2	2:162:B:LYS:HD2	8	0.1
(1,2937)	1:145:A:MET:HB2	2:162:B:LYS:HD3	8	0.1
(1,2937)	1:145:A:MET:HB3	2:162:B:LYS:HD2	8	0.1
(1,2937)	1:145:A:MET:HB3	2:162:B:LYS:HD3	8	0.1
(1,2930)	1:144:A:MET:HB2	2:154:B:PHE:HB2	9	0.1
(1,2930)	1:144:A:MET:HB2	2:154:B:PHE:HB3	9	0.1
(1,2930)	1:144:A:MET:HB3	2:154:B:PHE:HB2	9	0.1
(1,2930)	1:144:A:MET:HB3	2:154:B:PHE:HB3	9	0.1
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG2	13	0.1
(1,2929)	1:147:A:ALA:HB1	2:155:B:LYS:HG3	13	0.1
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG2	13	0.1
(1,2929)	1:147:A:ALA:HB2	2:155:B:LYS:HG3	13	0.1
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG2	13	0.1
(1,2929)	1:147:A:ALA:HB3	2:155:B:LYS:HG3	13	0.1
(1,2918)	1:91:A:VAL:HG21	2:161:B:VAL:HB	1	0.1
(1,2918)	1:91:A:VAL:HG22	2:161:B:VAL:HB	1	0.1
(1,2918)	1:91:A:VAL:HG23	2:161:B:VAL:HB	1	0.1
(1,2833)	2:157:B:VAL:H	2:161:B:VAL:H	9	0.1
(1,2833)	2:157:B:VAL:H	2:161:B:VAL:H	14	0.1
(1,2808)	1:143:A:GLN:HA	1:143:A:GLN:H	5	0.1
(1,2791)	1:11:A:GLU:HG2	1:11:A:GLU:H	15	0.1
(1,2791)	1:11:A:GLU:HG3	1:11:A:GLU:H	15	0.1
(1,2768)	1:21:A:LYS:HA	1:22:A:ASP:H	20	0.1
(1,2744)	1:47:A:GLU:HB2	1:44:A:THR:H	7	0.1
(1,2744)	1:47:A:GLU:HB3	1:44:A:THR:H	7	0.1
(1,2737)	1:88:A:ALA:HA	1:91:A:VAL:H	1	0.1
(1,2736)	1:88:A:ALA:HA	1:89:A:PHE:H	9	0.1
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	12	0.1
(1,2735)	1:88:A:ALA:HA	1:88:A:ALA:H	16	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2725)	1:109:A:MET:HB2	1:114:A:GLU:H	18	0.1
(1,2725)	1:109:A:MET:HB3	1:114:A:GLU:H	18	0.1
(1,2692)	1:9:A:ILE:HB	1:10:A:ALA:H	4	0.1
(1,2692)	1:9:A:ILE:HB	1:10:A:ALA:H	6	0.1
(1,2692)	1:9:A:ILE:HB	1:10:A:ALA:H	13	0.1
(1,2692)	1:9:A:ILE:HB	1:10:A:ALA:H	18	0.1
(1,2672)	1:69:A:LEU:HA	1:69:A:LEU:H	2	0.1
(1,2672)	1:69:A:LEU:HA	1:69:A:LEU:H	8	0.1
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	5	0.1
(1,2671)	1:69:A:LEU:HA	1:72:A:MET:H	20	0.1
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	2	0.1
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	14	0.1
(1,2654)	1:34:A:THR:HA	1:37:A:ARG:H	15	0.1
(1,2649)	1:37:A:ARG:HB2	1:38:A:SER:H	10	0.1
(1,2649)	1:37:A:ARG:HB3	1:38:A:SER:H	10	0.1
(1,2645)	1:44:A:THR:HG21	1:47:A:GLU:H	12	0.1
(1,2645)	1:44:A:THR:HG22	1:47:A:GLU:H	12	0.1
(1,2645)	1:44:A:THR:HG23	1:47:A:GLU:H	12	0.1
(1,2640)	1:48:A:LEU:HD21	1:48:A:LEU:H	3	0.1
(1,2640)	1:48:A:LEU:HD22	1:48:A:LEU:H	3	0.1
(1,2640)	1:48:A:LEU:HD23	1:48:A:LEU:H	3	0.1
(1,2633)	1:84:A:GLU:HA	1:85:A:ILE:H	19	0.1
(1,2632)	1:84:A:GLU:HA	1:84:A:GLU:H	4	0.1
(1,2632)	1:84:A:GLU:HA	1:84:A:GLU:H	10	0.1
(1,2617)	1:102:A:ALA:HA	1:105:A:LEU:H	7	0.1
(1,2617)	1:102:A:ALA:HA	1:105:A:LEU:H	10	0.1
(1,2617)	1:102:A:ALA:HA	1:105:A:LEU:H	12	0.1
(1,2617)	1:102:A:ALA:HA	1:105:A:LEU:H	16	0.1
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	4	0.1
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	6	0.1
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	13	0.1
(1,2616)	1:105:A:LEU:HA	1:105:A:LEU:H	16	0.1
(1,2603)	1:112:A:LEU:HD11	1:112:A:LEU:H	9	0.1
(1,2603)	1:112:A:LEU:HD12	1:112:A:LEU:H	9	0.1
(1,2603)	1:112:A:LEU:HD13	1:112:A:LEU:H	9	0.1
(1,2603)	1:112:A:LEU:HD21	1:112:A:LEU:H	9	0.1
(1,2603)	1:112:A:LEU:HD22	1:112:A:LEU:H	9	0.1
(1,2603)	1:112:A:LEU:HD23	1:112:A:LEU:H	9	0.1
(1,2583)	1:125:A:ILE:HD11	1:121:A:VAL:HG11	4	0.1
(1,2583)	1:125:A:ILE:HD11	1:121:A:VAL:HG12	4	0.1
(1,2583)	1:125:A:ILE:HD11	1:121:A:VAL:HG13	4	0.1
(1,2583)	1:125:A:ILE:HD12	1:121:A:VAL:HG11	4	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2583)	1:125:A:ILE:HD12	1:121:A:VAL:HG12	4	0.1
(1,2583)	1:125:A:ILE:HD12	1:121:A:VAL:HG13	4	0.1
(1,2583)	1:125:A:ILE:HD13	1:121:A:VAL:HG11	4	0.1
(1,2583)	1:125:A:ILE:HD13	1:121:A:VAL:HG12	4	0.1
(1,2583)	1:125:A:ILE:HD13	1:121:A:VAL:HG13	4	0.1
(1,2583)	1:125:A:ILE:HD11	1:121:A:VAL:HG11	14	0.1
(1,2583)	1:125:A:ILE:HD11	1:121:A:VAL:HG12	14	0.1
(1,2583)	1:125:A:ILE:HD11	1:121:A:VAL:HG13	14	0.1
(1,2583)	1:125:A:ILE:HD12	1:121:A:VAL:HG11	14	0.1
(1,2583)	1:125:A:ILE:HD12	1:121:A:VAL:HG12	14	0.1
(1,2583)	1:125:A:ILE:HD12	1:121:A:VAL:HG13	14	0.1
(1,2583)	1:125:A:ILE:HD13	1:121:A:VAL:HG11	14	0.1
(1,2583)	1:125:A:ILE:HD13	1:121:A:VAL:HG12	14	0.1
(1,2583)	1:125:A:ILE:HD13	1:121:A:VAL:HG13	14	0.1
(1,2570)	1:135:A:GLN:HB2	1:101:A:SER:HB2	1	0.1
(1,2570)	1:135:A:GLN:HB2	1:101:A:SER:HB3	1	0.1
(1,2570)	1:135:A:GLN:HB3	1:101:A:SER:HB2	1	0.1
(1,2570)	1:135:A:GLN:HB3	1:101:A:SER:HB3	1	0.1
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD11	4	0.1
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD12	4	0.1
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD13	4	0.1
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD11	4	0.1
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD12	4	0.1
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD13	4	0.1
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD11	4	0.1
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD12	4	0.1
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD13	4	0.1
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD11	9	0.1
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD12	9	0.1
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD13	9	0.1
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD11	9	0.1
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD12	9	0.1
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD13	9	0.1
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD11	9	0.1
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD12	9	0.1
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD13	9	0.1
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD11	17	0.1
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD12	17	0.1
(1,2564)	1:136:A:VAL:HG11	1:100:A:ILE:HD13	17	0.1
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD11	17	0.1
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD12	17	0.1
(1,2564)	1:136:A:VAL:HG12	1:100:A:ILE:HD13	17	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD11	17	0.1
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD12	17	0.1
(1,2564)	1:136:A:VAL:HG13	1:100:A:ILE:HD13	17	0.1
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB2	7	0.1
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB3	7	0.1
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB2	10	0.1
(1,2557)	1:138:A:TYR:HA	1:141:A:PHE:HB3	10	0.1
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	2	0.1
(1,2556)	1:138:A:TYR:HA	1:138:A:TYR:H	12	0.1
(1,2528)	1:14:A:GLU:HA	1:17:A:SER:HA	3	0.1
(1,2520)	1:69:A:LEU:HG	1:69:A:LEU:H	6	0.1
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB1	8	0.1
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB2	8	0.1
(1,2514)	1:77:A:LYS:HG2	1:73:A:ALA:HB3	8	0.1
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB1	8	0.1
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB2	8	0.1
(1,2514)	1:77:A:LYS:HG3	1:73:A:ALA:HB3	8	0.1
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG21	17	0.1
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG22	17	0.1
(1,2505)	1:28:A:THR:HG21	1:62:A:THR:HG23	17	0.1
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG21	17	0.1
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG22	17	0.1
(1,2505)	1:28:A:THR:HG22	1:62:A:THR:HG23	17	0.1
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG21	17	0.1
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG22	17	0.1
(1,2505)	1:28:A:THR:HG23	1:62:A:THR:HG23	17	0.1
(1,2491)	1:4:A:LEU:HD11	1:69:A:LEU:HB2	1	0.1
(1,2491)	1:4:A:LEU:HD12	1:69:A:LEU:HB2	1	0.1
(1,2491)	1:4:A:LEU:HD13	1:69:A:LEU:HB2	1	0.1
(1,2490)	1:4:A:LEU:HD11	1:4:A:LEU:H	17	0.1
(1,2490)	1:4:A:LEU:HD12	1:4:A:LEU:H	17	0.1
(1,2490)	1:4:A:LEU:HD13	1:4:A:LEU:H	17	0.1
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB2	1	0.1
(1,2488)	1:33:A:GLY:HA3	1:37:A:ARG:HB3	1	0.1
(1,2476)	1:41:A:GLN:HA	1:41:A:GLN:H	19	0.1
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	2	0.1
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	2	0.1
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	2	0.1
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	6	0.1
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	6	0.1
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	6	0.1
(1,2432)	1:105:A:LEU:HD21	1:106:A:ARG:H	11	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2432)	1:105:A:LEU:HD22	1:106:A:ARG:H	11	0.1
(1,2432)	1:105:A:LEU:HD23	1:106:A:ARG:H	11	0.1
(1,2416)	1:123:A:GLU:HG2	1:124:A:MET:H	18	0.1
(1,2416)	1:123:A:GLU:HG3	1:124:A:MET:H	18	0.1
(1,2404)	1:142:A:VAL:HA	1:145:A:MET:H	4	0.1
(1,2404)	1:142:A:VAL:HA	1:145:A:MET:H	7	0.1
(1,2404)	1:142:A:VAL:HA	1:145:A:MET:H	15	0.1
(1,2383)	1:12:A:PHE:HA	1:15:A:ALA:H	17	0.1
(1,2380)	1:62:A:THR:HB	1:62:A:THR:H	15	0.1
(1,2377)	1:65:A:PHE:HA	1:68:A:PHE:H	18	0.1
(1,2362)	1:19:A:PHE:HB2	1:20:A:ASP:H	2	0.1
(1,2362)	1:19:A:PHE:HB3	1:20:A:ASP:H	2	0.1
(1,2362)	1:19:A:PHE:HB2	1:20:A:ASP:H	5	0.1
(1,2362)	1:19:A:PHE:HB3	1:20:A:ASP:H	5	0.1
(1,2362)	1:19:A:PHE:HB2	1:20:A:ASP:H	19	0.1
(1,2362)	1:19:A:PHE:HB3	1:20:A:ASP:H	19	0.1
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	5	0.1
(1,2357)	1:71:A:MET:HA	1:72:A:MET:H	7	0.1
(1,2334)	1:26:A:THR:HB	1:26:A:THR:H	18	0.1
(1,2315)	1:4:A:LEU:HD21	1:4:A:LEU:HA	14	0.1
(1,2315)	1:4:A:LEU:HD22	1:4:A:LEU:HA	14	0.1
(1,2315)	1:4:A:LEU:HD23	1:4:A:LEU:HA	14	0.1
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB2	3	0.1
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB3	3	0.1
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB2	3	0.1
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB3	3	0.1
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB2	4	0.1
(1,2306)	1:37:A:ARG:HD2	1:36:A:MET:HB3	4	0.1
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB2	4	0.1
(1,2306)	1:37:A:ARG:HD3	1:36:A:MET:HB3	4	0.1
(1,2289)	1:50:A:ASP:HA	1:53:A:ASN:H	10	0.1
(1,2277)	1:82:A:GLU:HG3	1:82:A:GLU:H	14	0.1
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	12	0.1
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	13	0.1
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	14	0.1
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	16	0.1
(1,2268)	1:100:A:ILE:HA	1:94:A:LYS:H	19	0.1
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	6	0.1
(1,2260)	1:108:A:VAL:HA	1:109:A:MET:H	13	0.1
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	15	0.1
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	15	0.1
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	15	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	15	0.1
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	15	0.1
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	15	0.1
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	19	0.1
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	19	0.1
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	19	0.1
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	19	0.1
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	19	0.1
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	19	0.1
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG11	20	0.1
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG12	20	0.1
(1,2256)	1:109:A:MET:HG2	1:108:A:VAL:HG13	20	0.1
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG11	20	0.1
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG12	20	0.1
(1,2256)	1:109:A:MET:HG3	1:108:A:VAL:HG13	20	0.1
(1,2248)	1:117:A:THR:HA	1:118:A:ASP:HB3	4	0.1
(1,2239)	1:121:A:VAL:HA	1:124:A:MET:H	18	0.1
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB2	13	0.1
(1,2237)	1:124:A:MET:HA	1:127:A:GLU:HB3	13	0.1
(1,2221)	1:129:A:ASP:HB2	1:130:A:ILE:H	5	0.1
(1,2221)	1:129:A:ASP:HB3	1:130:A:ILE:H	5	0.1
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG2	14	0.1
(1,2220)	1:129:A:ASP:HB2	1:126:A:ARG:HG3	14	0.1
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG2	14	0.1
(1,2220)	1:129:A:ASP:HB3	1:126:A:ARG:HG3	14	0.1
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	17	0.1
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	18	0.1
(1,2206)	1:139:A:GLU:HA	1:143:A:GLN:H	19	0.1
(1,2179)	1:55:A:VAL:HB	1:52:A:ILE:HD11	18	0.1
(1,2179)	1:55:A:VAL:HB	1:52:A:ILE:HD12	18	0.1
(1,2179)	1:55:A:VAL:HB	1:52:A:ILE:HD13	18	0.1
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD11	20	0.1
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD12	20	0.1
(1,2171)	1:63:A:ILE:HG12	1:27:A:ILE:HD13	20	0.1
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD11	20	0.1
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD12	20	0.1
(1,2171)	1:63:A:ILE:HG13	1:27:A:ILE:HD13	20	0.1
(1,2168)	1:13:A:LYS:HD2	1:13:A:LYS:H	19	0.1
(1,2168)	1:13:A:LYS:HD3	1:13:A:LYS:H	19	0.1
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB2	16	0.1
(1,2155)	1:69:A:LEU:HB3	1:72:A:MET:HB3	16	0.1
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG2	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2148)	1:72:A:MET:HA	1:75:A:LYS:HG3	8	0.1
(1,2147)	1:72:A:MET:HA	1:73:A:ALA:H	11	0.1
(1,2108)	1:34:A:THR:HB	1:31:A:GLU:HA	4	0.1
(1,2077)	1:86:A:ARG:HA	1:87:A:GLU:H	10	0.1
(1,2077)	1:86:A:ARG:HA	1:87:A:GLU:H	11	0.1
(1,2077)	1:86:A:ARG:HA	1:87:A:GLU:H	19	0.1
(1,2077)	1:86:A:ARG:HA	1:87:A:GLU:H	20	0.1
(1,2062)	1:90:A:ARG:HA	1:91:A:VAL:H	12	0.1
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB2	14	0.1
(1,2006)	1:108:A:VAL:HG21	1:107:A:HIS:HB3	14	0.1
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB2	14	0.1
(1,2006)	1:108:A:VAL:HG22	1:107:A:HIS:HB3	14	0.1
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB2	14	0.1
(1,2006)	1:108:A:VAL:HG23	1:107:A:HIS:HB3	14	0.1
(1,1989)	1:116:A:LEU:HD11	1:120:A:GLU:HB2	6	0.1
(1,1989)	1:116:A:LEU:HD11	1:120:A:GLU:HB3	6	0.1
(1,1989)	1:116:A:LEU:HD12	1:120:A:GLU:HB2	6	0.1
(1,1989)	1:116:A:LEU:HD12	1:120:A:GLU:HB3	6	0.1
(1,1989)	1:116:A:LEU:HD13	1:120:A:GLU:HB2	6	0.1
(1,1989)	1:116:A:LEU:HD13	1:120:A:GLU:HB3	6	0.1
(1,1982)	1:119:A:GLU:HA	1:122:A:ASP:H	13	0.1
(1,1980)	1:119:A:GLU:HA	1:119:A:GLU:HG2	16	0.1
(1,1980)	1:119:A:GLU:HA	1:119:A:GLU:HG3	16	0.1
(1,1979)	1:119:A:GLU:HA	1:120:A:GLU:H	10	0.1
(1,1952)	1:128:A:ALA:HA	1:129:A:ASP:H	4	0.1
(1,1942)	1:135:A:GLN:HG2	1:125:A:ILE:HG12	10	0.1
(1,1942)	1:135:A:GLN:HG2	1:125:A:ILE:HG13	10	0.1
(1,1942)	1:135:A:GLN:HG3	1:125:A:ILE:HG12	10	0.1
(1,1942)	1:135:A:GLN:HG3	1:125:A:ILE:HG13	10	0.1
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB2	13	0.1
(1,1931)	1:138:A:TYR:HB2	1:137:A:ASN:HB3	13	0.1
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB2	13	0.1
(1,1931)	1:138:A:TYR:HB3	1:137:A:ASN:HB3	13	0.1
(1,1922)	1:141:A:PHE:HA	1:141:A:PHE:HZ	17	0.1
(1,1832)	1:28:A:THR:HB	1:31:A:GLU:HA	4	0.1
(1,1571)	1:76:A:MET:HB2	1:72:A:MET:HB2	8	0.1
(1,1571)	1:76:A:MET:HB2	1:72:A:MET:HB3	8	0.1
(1,1571)	1:76:A:MET:HB3	1:72:A:MET:HB2	8	0.1
(1,1571)	1:76:A:MET:HB3	1:72:A:MET:HB3	8	0.1
(1,1531)	1:4:A:LEU:HG	1:8:A:GLN:HA	8	0.1
(1,1513)	1:42:A:ASN:HB2	1:37:A:ARG:HG2	15	0.1
(1,1513)	1:42:A:ASN:HB2	1:37:A:ARG:HG3	15	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG2	5	0.1
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG3	5	0.1
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG2	5	0.1
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG3	5	0.1
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG2	5	0.1
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG3	5	0.1
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG2	18	0.1
(1,1492)	1:48:A:LEU:HD11	1:45:A:GLU:HG3	18	0.1
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG2	18	0.1
(1,1492)	1:48:A:LEU:HD12	1:45:A:GLU:HG3	18	0.1
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG2	18	0.1
(1,1492)	1:48:A:LEU:HD13	1:45:A:GLU:HG3	18	0.1
(1,1179)	1:87:A:GLU:HG2	1:90:A:ARG:HA	15	0.1
(1,1179)	1:87:A:GLU:HG3	1:90:A:ARG:HA	15	0.1
(1,1159)	1:91:A:VAL:HB	1:93:A:ASP:HB2	8	0.1
(1,1159)	1:91:A:VAL:HB	1:93:A:ASP:HB3	8	0.1
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB2	17	0.1
(1,1100)	1:9:A:ILE:H	1:8:A:GLN:HB3	17	0.1
(1,1099)	1:9:A:ILE:H	1:9:A:ILE:HA	18	0.1
(1,1098)	1:9:A:ILE:H	1:9:A:ILE:HD11	8	0.1
(1,1098)	1:9:A:ILE:H	1:9:A:ILE:HD12	8	0.1
(1,1098)	1:9:A:ILE:H	1:9:A:ILE:HD13	8	0.1
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	12	0.1
(1,1081)	1:25:A:GLY:H	1:25:A:GLY:HA3	16	0.1
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	10	0.1
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	18	0.1
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	19	0.1
(1,1076)	1:29:A:THR:H	1:29:A:THR:HA	20	0.1
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	2	0.1
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	14	0.1
(1,1069)	1:37:A:ARG:H	1:34:A:THR:HA	15	0.1
(1,1066)	1:37:A:ARG:H	1:37:A:ARG:HD2	7	0.1
(1,1066)	1:37:A:ARG:H	1:37:A:ARG:HD3	7	0.1
(1,1066)	1:37:A:ARG:H	1:37:A:ARG:HD2	12	0.1
(1,1066)	1:37:A:ARG:H	1:37:A:ARG:HD3	12	0.1
(1,1066)	1:37:A:ARG:H	1:37:A:ARG:HD2	18	0.1
(1,1066)	1:37:A:ARG:H	1:37:A:ARG:HD3	18	0.1
(1,1066)	1:37:A:ARG:H	1:37:A:ARG:HD2	20	0.1
(1,1066)	1:37:A:ARG:H	1:37:A:ARG:HD3	20	0.1
(1,1060)	1:41:A:GLN:H	1:41:A:GLN:HA	19	0.1
(1,1052)	1:46:A:ALA:H	1:46:A:ALA:HA	3	0.1
(1,1052)	1:46:A:ALA:H	1:46:A:ALA:HA	5	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1052)	1:46:A:ALA:H	1:46:A:ALA:HA	9	0.1
(1,1052)	1:46:A:ALA:H	1:46:A:ALA:HA	13	0.1
(1,1052)	1:46:A:ALA:H	1:46:A:ALA:HA	19	0.1
(1,1031)	1:62:A:THR:H	1:62:A:THR:HB	15	0.1
(1,1009)	1:79:A:THR:H	1:79:A:THR:HA	15	0.1
(1,995)	1:91:A:VAL:H	1:88:A:ALA:HA	1	0.1
(1,993)	1:91:A:VAL:H	1:90:A:ARG:HA	12	0.1
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB2	13	0.1
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB3	13	0.1
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB2	17	0.1
(1,967)	1:103:A:ALA:H	1:104:A:GLU:HB3	17	0.1
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	7	0.1
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	8	0.1
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	10	0.1
(1,954)	1:111:A:ASN:H	1:110:A:THR:HA	15	0.1
(1,951)	1:115:A:LYS:H	1:114:A:GLU:HB2	18	0.1
(1,951)	1:115:A:LYS:H	1:114:A:GLU:HB3	18	0.1
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG2	10	0.1
(1,948)	1:115:A:LYS:H	1:114:A:GLU:HG3	10	0.1
(1,930)	1:127:A:GLU:H	1:127:A:GLU:HA	10	0.1
(1,930)	1:127:A:GLU:H	1:127:A:GLU:HA	16	0.1
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	18	0.1
(1,929)	1:127:A:GLU:H	1:126:A:ARG:HA	19	0.1
(1,918)	1:135:A:GLN:H	1:134:A:GLY:HA3	2	0.1
(1,911)	1:139:A:GLU:H	1:139:A:GLU:HA	6	0.1
(1,911)	1:139:A:GLU:H	1:139:A:GLU:HA	15	0.1
(1,910)	1:139:A:GLU:H	1:138:A:TYR:HB2	14	0.1
(1,910)	1:139:A:GLU:H	1:138:A:TYR:HB3	14	0.1
(1,908)	1:143:A:GLN:H	1:143:A:GLN:HA	5	0.1
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	17	0.1
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	18	0.1
(1,904)	1:143:A:GLN:H	1:139:A:GLU:HA	19	0.1
(1,871)	1:20:A:ASP:H	1:19:A:PHE:HA	17	0.1
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB2	2	0.1
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB3	2	0.1
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB2	5	0.1
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB3	5	0.1
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB2	19	0.1
(1,869)	1:20:A:ASP:H	1:19:A:PHE:HB3	19	0.1
(1,857)	1:28:A:THR:H	1:28:A:THR:HB	19	0.1
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	1	0.1
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	6	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,840)	1:40:A:GLY:H	1:38:A:SER:HA	20	0.1
(1,816)	1:53:A:ASN:H	1:50:A:ASP:HA	10	0.1
(1,810)	1:57:A:ALA:H	1:55:A:VAL:HA	19	0.1
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	6	0.1
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	11	0.1
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	15	0.1
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	16	0.1
(1,803)	1:61:A:GLY:H	1:60:A:ASN:HA	19	0.1
(1,777)	1:82:A:GLU:H	1:82:A:GLU:HG3	14	0.1
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG21	4	0.1
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG22	4	0.1
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG23	4	0.1
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG21	5	0.1
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG22	5	0.1
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG23	5	0.1
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG21	20	0.1
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG22	20	0.1
(1,771)	1:86:A:ARG:H	1:85:A:ILE:HG23	20	0.1
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG2	12	0.1
(1,752)	1:94:A:LYS:H	1:104:A:GLU:HG3	12	0.1
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	12	0.1
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	13	0.1
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	14	0.1
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	16	0.1
(1,751)	1:94:A:LYS:H	1:100:A:ILE:HA	19	0.1
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG2	1	0.1
(1,729)	1:106:A:ARG:H	1:106:A:ARG:HG3	1	0.1
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	2	0.1
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	2	0.1
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	2	0.1
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	6	0.1
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	6	0.1
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	6	0.1
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD21	11	0.1
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD22	11	0.1
(1,728)	1:106:A:ARG:H	1:105:A:LEU:HD23	11	0.1
(1,698)	1:122:A:ASP:H	1:119:A:GLU:HA	13	0.1
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	6	0.1
(1,696)	1:122:A:ASP:H	1:121:A:VAL:HB	17	0.1
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB2	5	0.1
(1,679)	1:130:A:ILE:H	1:129:A:ASP:HB3	5	0.1
(1,668)	1:134:A:GLY:H	1:133:A:ASP:HA	12	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,668)	1:134:A:GLY:H	1:133:A:ASP:HA	13	0.1
(1,655)	1:142:A:VAL:H	1:141:A:PHE:HA	10	0.1
(1,655)	1:142:A:VAL:H	1:141:A:PHE:HA	12	0.1
(1,655)	1:142:A:VAL:H	1:141:A:PHE:HA	13	0.1
(1,655)	1:142:A:VAL:H	1:141:A:PHE:HA	14	0.1
(1,655)	1:142:A:VAL:H	1:141:A:PHE:HA	20	0.1
(1,628)	1:15:A:ALA:H	1:12:A:PHE:HA	17	0.1
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG2	9	0.1
(1,625)	1:15:A:ALA:H	1:14:A:GLU:HG3	9	0.1
(1,581)	1:44:A:THR:H	1:46:A:ALA:H	1	0.1
(1,581)	1:44:A:THR:H	1:46:A:ALA:H	5	0.1
(1,581)	1:44:A:THR:H	1:46:A:ALA:H	13	0.1
(1,581)	1:44:A:THR:H	1:46:A:ALA:H	18	0.1
(1,139)	1:124:A:MET:H	1:123:A:GLU:H	15	0.1
(1,45)	1:115:A:LYS:HG3	1:110:A:THR:HB	6	0.1

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

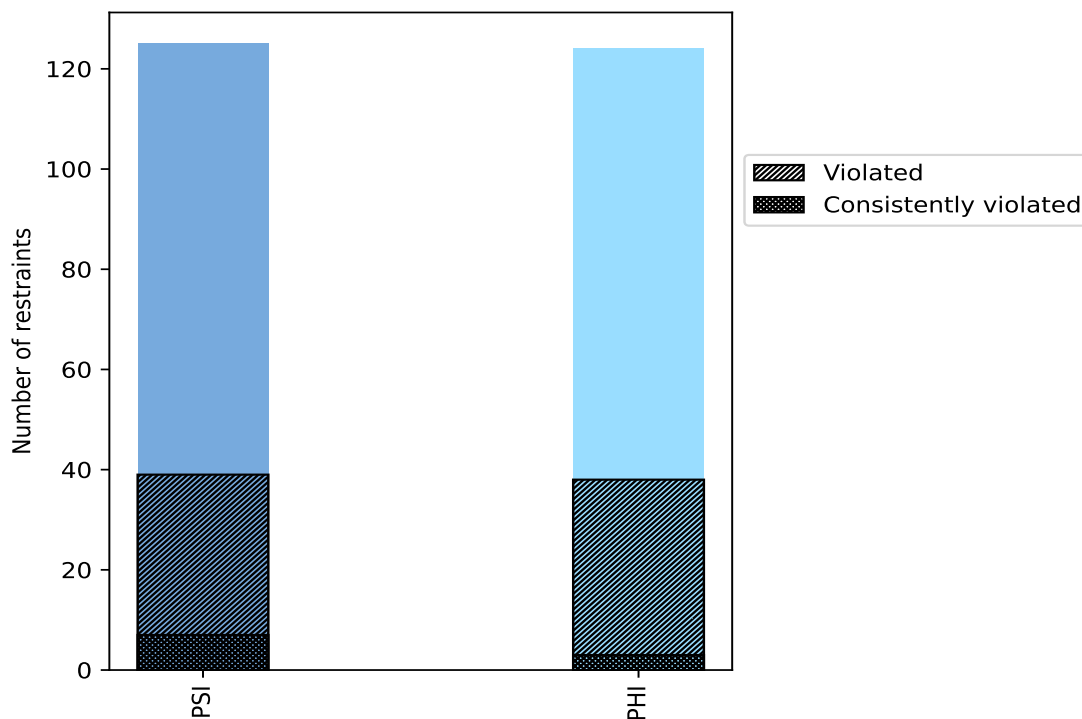
10.1 Summary of dihedral-angle violations [i](#)

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	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PSI	125	50.2	39	31.2	15.7	7	5.6	2.8
PHI	124	49.8	38	30.6	15.3	3	2.4	1.2
Total	249	100.0	77	30.9	30.9	10	4.0	4.0

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

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



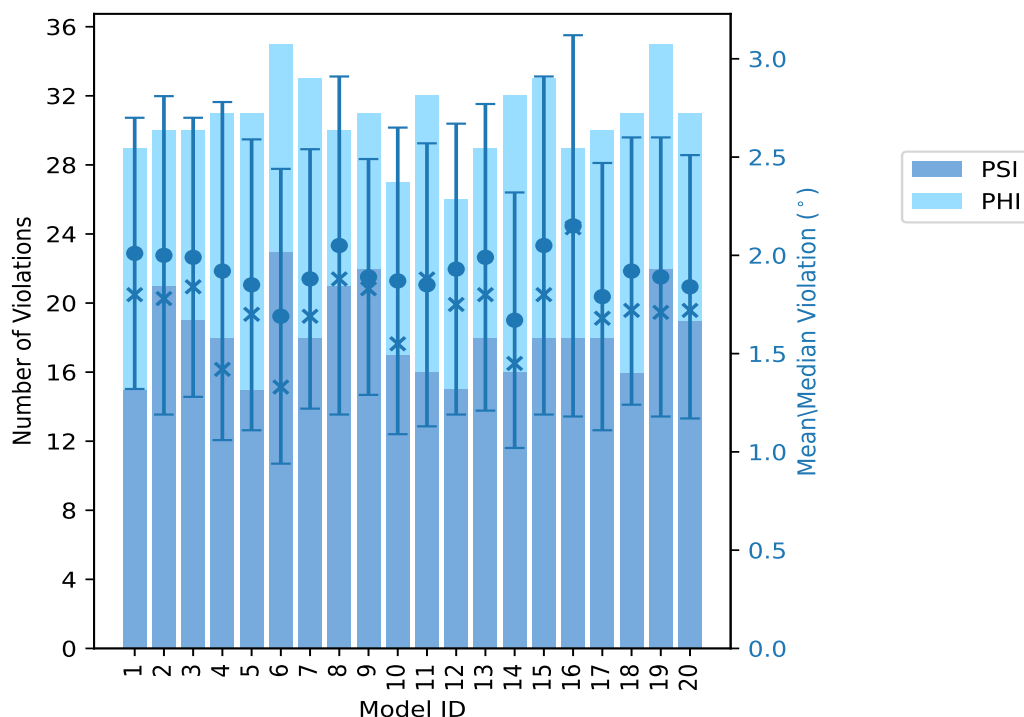
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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	14	29	2.01	3.61	0.69	1.8
2	21	9	30	2.0	3.85	0.81	1.78
3	19	11	30	1.99	3.46	0.71	1.84
4	18	13	31	1.92	3.65	0.86	1.42
5	15	16	31	1.85	3.63	0.74	1.7
6	23	12	35	1.69	3.55	0.75	1.33
7	18	15	33	1.88	3.6	0.66	1.69
8	21	9	30	2.05	4.28	0.86	1.88
9	22	9	31	1.89	3.04	0.6	1.83
10	17	10	27	1.87	3.65	0.78	1.55
11	16	16	32	1.85	3.75	0.72	1.88
12	15	11	26	1.93	3.75	0.74	1.75
13	18	11	29	1.99	3.8	0.78	1.8
14	16	16	32	1.67	3.48	0.65	1.45
15	18	15	33	2.05	4.08	0.86	1.8
16	18	11	29	2.15	4.6	0.97	2.14
17	18	12	30	1.79	3.65	0.68	1.68
18	16	15	31	1.92	3.55	0.68	1.72
19	22	13	35	1.89	3.81	0.71	1.71
20	19	12	31	1.84	3.47	0.67	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 ¹	%
5	8	13	1	5.0
3	4	7	2	10.0
5	6	11	3	15.0
2	3	5	4	20.0
1	1	2	5	25.0
2	3	5	6	30.0
3	1	4	7	35.0
0	0	0	8	40.0
2	1	3	9	45.0
0	1	1	10	50.0
0	3	3	11	55.0

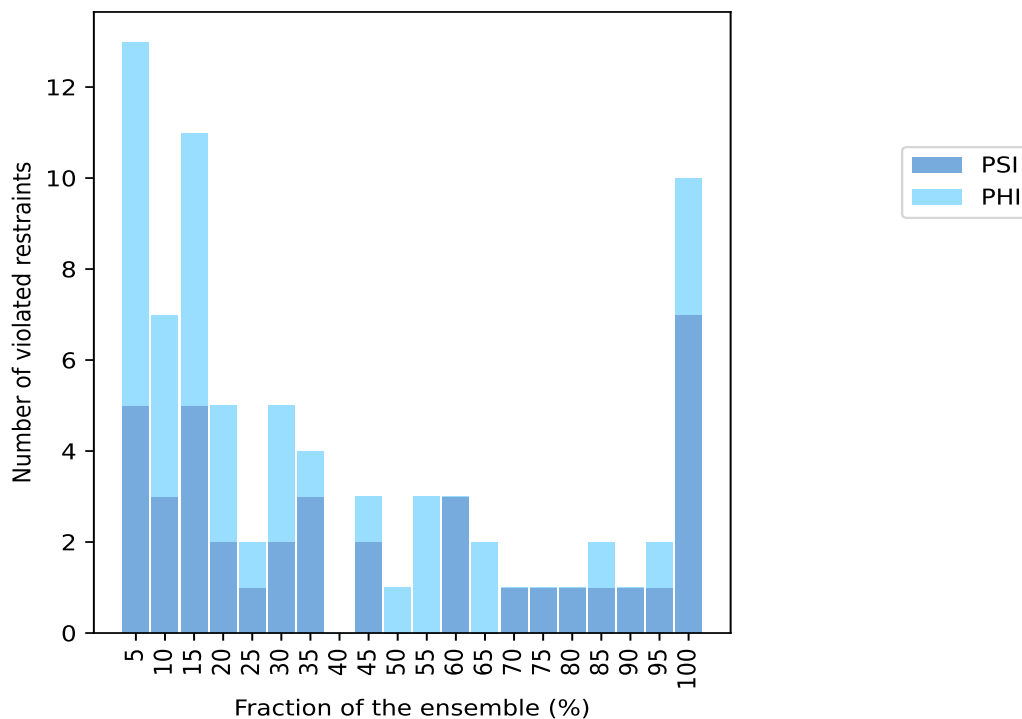
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Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count ¹	%
3	0	3	12	60.0
0	2	2	13	65.0
1	0	1	14	70.0
1	0	1	15	75.0
1	0	1	16	80.0
1	1	2	17	85.0
1	0	1	18	90.0
1	1	2	19	95.0
7	3	10	20	100.0

¹ Number of models with violations

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

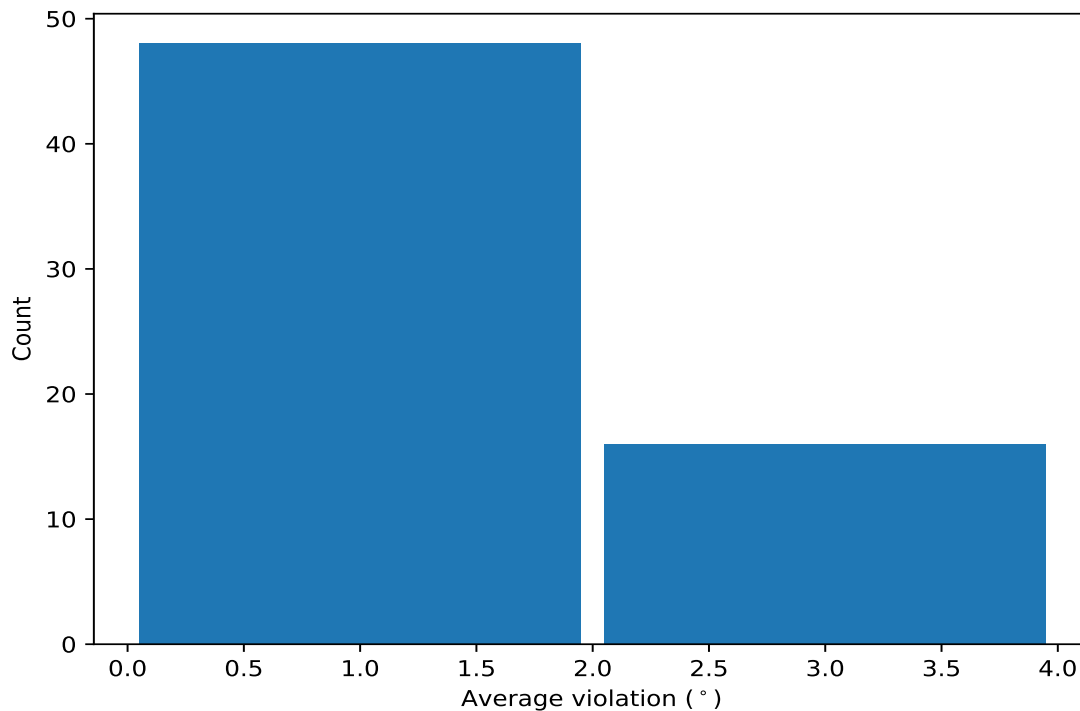


10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

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 ¹	Mean	SD ²	Median
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	20	3.49	0.22	3.56
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	20	3.18	0.63	3.38
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	20	2.9	0.3	2.9
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	20	2.6	0.31	2.56
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	20	2.55	0.86	2.38
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	20	2.49	0.41	2.58
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	20	2.3	0.55	2.28
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	20	2.25	0.54	2.36
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	20	2.05	0.25	2.12
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	20	1.72	0.25	1.76
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	19	2.12	0.6	2.18
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	19	1.39	0.23	1.42
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	18	1.34	0.24	1.32
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	17	2.05	0.62	2.08
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	17	1.86	0.58	1.78
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	16	2.08	0.34	2.06
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	15	1.17	0.1	1.15
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	14	1.76	0.49	1.62
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	13	2.03	0.56	1.8
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	13	1.42	0.27	1.27

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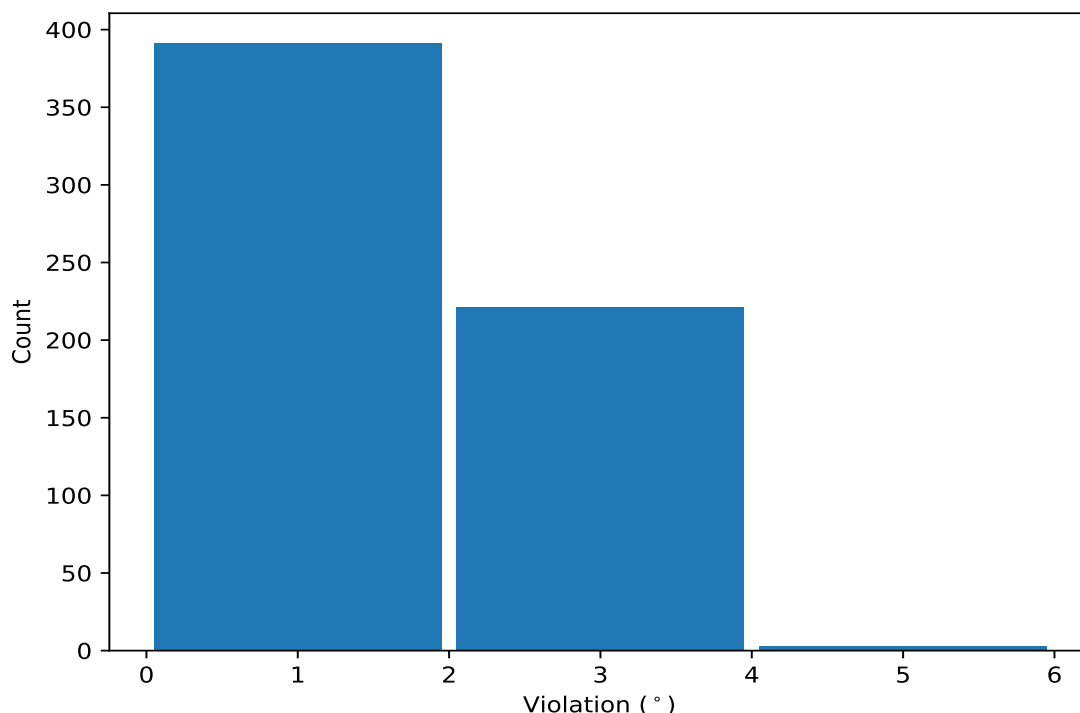
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,15)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:LYS:N	12	2.05	0.79	1.92
(1,38)	1:24:A:ASP:N	1:24:A:ASP:CA	1:24:A:ASP:C	1:25:A:GLY:N	12	1.63	0.32	1.78
(1,47)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:LYS:N	12	1.37	0.31	1.22
(1,40)	1:25:A:GLY:C	1:26:A:THR:N	1:26:A:THR:CA	1:26:A:THR:C	11	1.83	0.8	1.6
(1,22)	1:15:A:ALA:C	1:16:A:PHE:N	1:16:A:PHE:CA	1:16:A:PHE:C	11	1.25	0.13	1.29
(1,82)	1:50:A:ASP:C	1:51:A:MET:N	1:51:A:MET:CA	1:51:A:MET:C	11	1.16	0.17	1.08
(1,238)	2:155:B:LYS:C	2:156:B:GLU:N	2:156:B:GLU:CA	2:156:B:GLU:C	10	1.73	0.78	1.5
(1,43)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	9	1.77	0.95	1.41
(1,132)	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	1:88:A:ALA:N	9	1.72	0.47	1.62
(1,1)	1:4:A:LEU:C	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	9	1.63	0.54	1.71
(1,30)	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	1:21:A:LYS:N	7	1.73	0.51	1.6
(1,243)	2:154:B:PHE:N	2:154:B:PHE:CA	2:154:B:PHE:C	2:155:B:LYS:N	7	1.44	0.18	1.41
(1,242)	2:159:B:ASN:C	2:160:B:ALA:N	2:160:B:ALA:CA	2:160:B:ALA:C	7	1.31	0.17	1.28
(1,136)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	1:90:A:ARG:N	7	1.15	0.1	1.11
(1,29)	1:19:A:PHE:C	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	6	2.25	0.78	2.3
(1,202)	1:128:A:ALA:C	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	6	1.88	0.69	1.82
(1,79)	1:48:A:LEU:N	1:48:A:LEU:CA	1:48:A:LEU:C	1:49:A:GLN:N	6	1.81	0.62	1.8
(1,124)	1:83:A:GLU:N	1:83:A:GLU:CA	1:83:A:GLU:C	1:84:A:GLU:N	6	1.2	0.15	1.19
(1,141)	1:91:A:VAL:C	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	6	1.14	0.13	1.08
(1,34)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:GLY:N	5	1.41	0.32	1.34
(1,106)	1:71:A:MET:C	1:72:A:MET:N	1:72:A:MET:CA	1:72:A:MET:C	5	1.37	0.13	1.31
(1,246)	2:157:B:VAL:N	2:157:B:VAL:CA	2:157:B:VAL:C	2:158:B:ALA:N	4	1.82	1.1	1.27
(1,147)	1:94:A:LYS:C	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	4	1.46	0.22	1.56
(1,110)	1:73:A:ALA:C	1:74:A:ARG:N	1:74:A:ARG:CA	1:74:A:ARG:C	4	1.41	0.33	1.23
(1,161)	1:102:A:ALA:N	1:102:A:ALA:CA	1:102:A:ALA:C	1:103:A:ALA:N	4	1.35	0.35	1.18
(1,240)	2:157:B:VAL:C	2:158:B:ALA:N	2:158:B:ALA:CA	2:158:B:ALA:C	4	1.2	0.12	1.16
(1,72)	1:44:A:THR:C	1:45:A:GLU:N	1:45:A:GLU:CA	1:45:A:GLU:C	3	1.65	0.61	1.39
(1,62)	1:39:A:LEU:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	3	1.61	0.28	1.71
(1,87)	1:56:A:ASP:C	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	3	1.48	0.2	1.5
(1,71)	1:44:A:THR:N	1:44:A:THR:CA	1:44:A:THR:C	1:45:A:GLU:N	3	1.44	0.16	1.43
(1,144)	1:93:A:ASP:N	1:93:A:ASP:CA	1:93:A:ASP:C	1:94:A:LYS:N	3	1.43	0.15	1.36
(1,177)	1:111:A:ASN:N	1:111:A:ASN:CA	1:111:A:ASN:C	1:112:A:LEU:N	3	1.38	0.31	1.3
(1,194)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	3	1.34	0.18	1.36
(1,2)	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	1:6:A:GLU:N	3	1.26	0.2	1.25
(1,33)	1:21:A:LYS:C	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	3	1.26	0.14	1.26
(1,21)	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	1:16:A:PHE:N	3	1.23	0.17	1.21
(1,119)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	3	1.19	0.13	1.19
(1,211)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	2	2.05	0.99	2.05
(1,192)	1:120:A:GLU:C	1:121:A:VAL:N	1:121:A:VAL:CA	1:121:A:VAL:C	2	1.64	0.24	1.64
(1,118)	1:78:A:ASP:N	1:78:A:ASP:CA	1:78:A:ASP:C	1:79:A:THR:N	2	1.34	0.08	1.34
(1,117)	1:77:A:LYS:C	1:78:A:ASP:N	1:78:A:ASP:CA	1:78:A:ASP:C	2	1.32	0.28	1.32
(1,234)	1:64:A:ASP:C	1:65:A:PHE:N	1:65:A:PHE:CA	1:65:A:PHE:C	2	1.22	0.11	1.22
(1,25)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	2	1.07	0.04	1.07
(1,90)	1:58:A:ASP:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	2	1.02	0.01	1.02

¹ Number of violated models, ²Standard 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 (°)
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	16	4.6
(1,43)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	8	4.28
(1,40)	1:25:A:GLY:C	1:26:A:THR:N	1:26:A:THR:CA	1:26:A:THR:C	15	4.08
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	16	3.92
(1,238)	2:155:B:LYS:C	2:156:B:GLU:N	2:156:B:GLU:CA	2:156:B:GLU:C	2	3.85
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	19	3.81
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	13	3.8
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	11	3.75
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	12	3.75
(1,246)	2:157:B:VAL:N	2:157:B:VAL:CA	2:157:B:VAL:C	2:158:B:ALA:N	15	3.7
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	16	3.66
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	4	3.65
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	10	3.65
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	17	3.65

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	19	3.64
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	5	3.63
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	1	3.61
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	11	3.61
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	13	3.6
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	7	3.6
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	4	3.59
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	12	3.57
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	15	3.56
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	6	3.55
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	17	3.55
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	18	3.55
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	6	3.53
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	15	3.49
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	14	3.48
(1,15)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:LYS:N	2	3.48
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	8	3.47
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	20	3.47
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	3	3.46
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	10	3.46
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	4	3.42
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	15	3.41
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	5	3.4
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	2	3.39
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	8	3.38
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	2	3.38
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	16	3.36
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	1	3.36
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	10	3.34
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	18	3.34
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	5	3.33
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	4	3.32
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	14	3.29
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	4	3.28
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	10	3.27
(1,202)	1:128:A:ALA:C	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	13	3.26
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	7	3.25
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	16	3.25
(1,29)	1:19:A:PHE:C	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	16	3.21
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	5	3.19
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	8	3.19
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	3	3.19
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	8	3.19
(1,15)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:LYS:N	3	3.17
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	14	3.16
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	1	3.11
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	7	3.09
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	4	3.08
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	13	3.07
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	2	3.06
(1,211)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	9	3.04

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,44)	1:27:A:ILE:C	1:28:A:THR:N	1:28:A:THR:CA	1:28:A:THR:C	8	3.03
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	1	3.0
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	2	3.0
(1,29)	1:19:A:PHE:C	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	12	2.99
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	8	2.98
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	9	2.95
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	10	2.95
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	7	2.94
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	3	2.94
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	9	2.93
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	15	2.9
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	16	2.89
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	3	2.89
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	14	2.86
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	20	2.86
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	19	2.85
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	18	2.85
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	19	2.82
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	1	2.81
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	13	2.81
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	12	2.81
(1,30)	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	1:21:A:LYS:N	6	2.81
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	3	2.8
(1,29)	1:19:A:PHE:C	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	18	2.8
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	3	2.79
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	7	2.79
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	15	2.79
(1,79)	1:48:A:LEU:N	1:48:A:LEU:CA	1:48:A:LEU:C	1:49:A:GLN:N	11	2.79
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	20	2.78
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	4	2.78
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	11	2.78
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	16	2.77
(1,207)	1:131:A:ASP:N	1:131:A:ASP:CA	1:131:A:ASP:C	1:132:A:GLY:N	9	2.75
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	13	2.75
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	6	2.74
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	20	2.73
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	1	2.72
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	9	2.71
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	19	2.7
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	11	2.69
(1,15)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:LYS:N	8	2.69
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	9	2.68
(1,1)	1:4:A:LEU:C	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	19	2.68
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	18	2.66
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	12	2.66
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	17	2.66
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	8	2.65
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	2	2.65
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	16	2.64
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	19	2.63
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	5	2.63

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	20	2.62
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	4	2.62
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	7	2.62
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	7	2.61
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	13	2.61
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	15	2.61
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	18	2.61
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	11	2.6
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	17	2.6
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	17	2.59
(1,15)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:LYS:N	18	2.59
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	5	2.57
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	20	2.56
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	1	2.56
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	20	2.56
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	6	2.56
(1,132)	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	1:88:A:ALA:N	6	2.55
(1,40)	1:25:A:GLY:C	1:26:A:THR:N	1:26:A:THR:CA	1:26:A:THR:C	18	2.55
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	20	2.54
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	18	2.53
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	5	2.53
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	13	2.53
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	13	2.53
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	3	2.52
(1,132)	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	1:88:A:ALA:N	4	2.52
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	17	2.49
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	6	2.49
(1,72)	1:44:A:THR:C	1:45:A:GLU:N	1:45:A:GLU:CA	1:45:A:GLU:C	11	2.49
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	15	2.48
(1,15)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:LYS:N	15	2.48
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	19	2.47
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	15	2.47
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	9	2.47
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	20	2.47
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	16	2.46
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	3	2.45
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	9	2.45
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	19	2.45
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	17	2.44
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	6	2.43
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	16	2.42
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	6	2.42
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	20	2.41
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	2	2.4
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	3	2.4
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	12	2.39
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	12	2.37
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	12	2.37
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	1	2.37
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	4	2.36
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	6	2.35

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	13	2.33
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	2	2.33
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	16	2.32
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	16	2.32
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	10	2.32
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1	2.32
(1,1)	1:4:A:LEU:C	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	1	2.32
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	6	2.31
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	2	2.29
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	9	2.29
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	9	2.28
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	8	2.27
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	16	2.26
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	2	2.26
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	5	2.26
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	11	2.26
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	11	2.23
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	14	2.23
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	18	2.23
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	4	2.22
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	5	2.22
(1,49)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLU:N	15	2.22
(1,43)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	3	2.22
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	19	2.21
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	8	2.2
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	7	2.19
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	3	2.19
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	6	2.19
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	15	2.18
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	18	2.18
(1,79)	1:48:A:LEU:N	1:48:A:LEU:CA	1:48:A:LEU:C	1:49:A:GLN:N	19	2.18
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	10	2.17
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	18	2.16
(1,79)	1:48:A:LEU:N	1:48:A:LEU:CA	1:48:A:LEU:C	1:49:A:GLN:N	15	2.15
(1,238)	2:155:B:LYS:C	2:156:B:GLU:N	2:156:B:GLU:CA	2:156:B:GLU:C	16	2.14
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	12	2.14
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	19	2.14
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	15	2.13
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	1	2.12
(1,162)	1:102:A:ALA:C	1:103:A:ALA:N	1:103:A:ALA:CA	1:103:A:ALA:C	11	2.12
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	8	2.12
(1,47)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:LYS:N	1	2.11
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	19	2.09
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	10	2.08
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	7	2.08
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	12	2.07
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	9	2.06
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	2	2.05
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	20	2.04
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	9	2.03
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	15	2.03

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	7	2.02
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	18	2.01
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	4	2.01
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	3	2.0
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	13	2.0
(1,38)	1:24:A:ASP:N	1:24:A:ASP:CA	1:24:A:ASP:C	1:25:A:GLY:N	13	2.0
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	11	1.99
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	19	1.99
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	17	1.99
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	11	1.99
(1,238)	2:155:B:LYS:C	2:156:B:GLU:N	2:156:B:GLU:CA	2:156:B:GLU:C	5	1.98
(1,110)	1:73:A:ALA:C	1:74:A:ARG:N	1:74:A:ARG:CA	1:74:A:ARG:C	7	1.98
(1,15)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:LYS:N	19	1.98
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	11	1.97
(1,202)	1:128:A:ALA:C	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	1	1.96
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	14	1.96
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	2	1.96
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	10	1.95
(1,161)	1:102:A:ALA:N	1:102:A:ALA:CA	1:102:A:ALA:C	1:103:A:ALA:N	8	1.95
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	7	1.95
(1,34)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:GLY:N	8	1.95
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	8	1.94
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	12	1.92
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	11	1.91
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	2	1.91
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	13	1.91
(1,30)	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	1:21:A:LYS:N	1	1.91
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	9	1.9
(1,30)	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	1:21:A:LYS:N	9	1.9
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	13	1.89
(1,62)	1:39:A:LEU:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	11	1.89
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	11	1.88
(1,202)	1:128:A:ALA:C	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	5	1.88
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	7	1.88
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	11	1.88
(1,192)	1:120:A:GLU:C	1:121:A:VAL:N	1:121:A:VAL:CA	1:121:A:VAL:C	10	1.87
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	18	1.87
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	3	1.87
(1,38)	1:24:A:ASP:N	1:24:A:ASP:CA	1:24:A:ASP:C	1:25:A:GLY:N	2	1.87
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	17	1.86
(1,15)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:LYS:N	7	1.86
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	12	1.85
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	5	1.85
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	9	1.85
(1,38)	1:24:A:ASP:N	1:24:A:ASP:CA	1:24:A:ASP:C	1:25:A:GLY:N	3	1.85
(1,38)	1:24:A:ASP:N	1:24:A:ASP:CA	1:24:A:ASP:C	1:25:A:GLY:N	19	1.85
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	20	1.84
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	10	1.84
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	14	1.84
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	3	1.83
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	20	1.83

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	18	1.83
(1,38)	1:24:A:ASP:N	1:24:A:ASP:CA	1:24:A:ASP:C	1:25:A:GLY:N	9	1.83
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	5	1.82
(1,38)	1:24:A:ASP:N	1:24:A:ASP:CA	1:24:A:ASP:C	1:25:A:GLY:N	8	1.82
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	17	1.81
(1,40)	1:25:A:GLY:C	1:26:A:THR:N	1:26:A:THR:CA	1:26:A:THR:C	14	1.81
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	13	1.8
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	15	1.8
(1,177)	1:111:A:ASN:N	1:111:A:ASN:CA	1:111:A:ASN:C	1:112:A:LEU:N	1	1.8
(1,29)	1:19:A:PHE:C	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	7	1.8
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	17	1.79
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	10	1.78
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	20	1.78
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	8	1.78
(1,202)	1:128:A:ALA:C	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	4	1.77
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	19	1.77
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	5	1.77
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	12	1.76
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	10	1.76
(1,1)	1:4:A:LEU:C	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	9	1.76
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	15	1.75
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	17	1.75
(1,88)	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	1:58:A:ASP:N	14	1.75
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	17	1.75
(1,1)	1:4:A:LEU:C	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	20	1.75
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	12	1.74
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	8	1.74
(1,243)	2:154:B:PHE:N	2:154:B:PHE:CA	2:154:B:PHE:C	2:155:B:LYS:N	7	1.73
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	14	1.73
(1,38)	1:24:A:ASP:N	1:24:A:ASP:CA	1:24:A:ASP:C	1:25:A:GLY:N	1	1.73
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	5	1.72
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	20	1.72
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	9	1.72
(1,87)	1:56:A:ASP:C	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	18	1.72
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	15	1.72
(1,132)	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	1:88:A:ALA:N	12	1.71
(1,62)	1:39:A:LEU:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	19	1.71
(1,1)	1:4:A:LEU:C	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	14	1.71
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	14	1.7
(1,43)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	17	1.7
(1,40)	1:25:A:GLY:C	1:26:A:THR:N	1:26:A:THR:CA	1:26:A:THR:C	16	1.7
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	5	1.7
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	7	1.69
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	1	1.69
(1,239)	2:156:B:GLU:C	2:157:B:VAL:N	2:157:B:VAL:CA	2:157:B:VAL:C	2	1.68
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	17	1.68
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	14	1.68
(1,40)	1:25:A:GLY:C	1:26:A:THR:N	1:26:A:THR:CA	1:26:A:THR:C	17	1.68
(1,47)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:LYS:N	13	1.67
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	1	1.66
(1,38)	1:24:A:ASP:N	1:24:A:ASP:CA	1:24:A:ASP:C	1:25:A:GLY:N	7	1.66

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	18	1.66
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	3	1.65
(1,71)	1:44:A:THR:N	1:44:A:THR:CA	1:44:A:THR:C	1:45:A:GLU:N	20	1.65
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	14	1.65
(1,242)	2:159:B:ASN:C	2:160:B:ALA:N	2:160:B:ALA:CA	2:160:B:ALA:C	1	1.64
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	19	1.64
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	7	1.64
(1,180)	1:113:A:GLY:C	1:114:A:GLU:N	1:114:A:GLU:CA	1:114:A:GLU:C	1	1.64
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	2	1.64
(1,47)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:LYS:N	3	1.64
(1,38)	1:24:A:ASP:N	1:24:A:ASP:CA	1:24:A:ASP:C	1:25:A:GLY:N	6	1.64
(1,144)	1:93:A:ASP:N	1:93:A:ASP:CA	1:93:A:ASP:C	1:94:A:LYS:N	1	1.63
(1,243)	2:154:B:PHE:N	2:154:B:PHE:CA	2:154:B:PHE:C	2:155:B:LYS:N	12	1.62
(1,147)	1:94:A:LYS:C	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	4	1.62
(1,132)	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	1:88:A:ALA:N	3	1.62
(1,132)	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	1:88:A:ALA:N	18	1.62
(1,132)	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	1:88:A:ALA:N	19	1.62
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	13	1.61
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	13	1.61
(1,238)	2:155:B:LYS:C	2:156:B:GLU:N	2:156:B:GLU:CA	2:156:B:GLU:C	1	1.6
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	2	1.6
(1,117)	1:77:A:LYS:C	1:78:A:ASP:N	1:78:A:ASP:CA	1:78:A:ASP:C	19	1.6
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	18	1.6
(1,40)	1:25:A:GLY:C	1:26:A:THR:N	1:26:A:THR:CA	1:26:A:THR:C	20	1.6
(1,30)	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	1:21:A:LYS:N	13	1.6
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	4	1.59
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	15	1.58
(1,147)	1:94:A:LYS:C	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	18	1.58
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	8	1.58
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	9	1.57
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	3	1.57
(1,47)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:LYS:N	16	1.57
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	3	1.56
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	7	1.56
(1,243)	2:154:B:PHE:N	2:154:B:PHE:CA	2:154:B:PHE:C	2:155:B:LYS:N	10	1.55
(1,238)	2:155:B:LYS:C	2:156:B:GLU:N	2:156:B:GLU:CA	2:156:B:GLU:C	3	1.55
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	19	1.55
(1,194)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	7	1.55
(1,106)	1:71:A:MET:C	1:72:A:MET:N	1:72:A:MET:CA	1:72:A:MET:C	17	1.55
(1,43)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	7	1.55
(1,40)	1:25:A:GLY:C	1:26:A:THR:N	1:26:A:THR:CA	1:26:A:THR:C	5	1.55
(1,15)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:LYS:N	20	1.55
(1,147)	1:94:A:LYS:C	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	14	1.54
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	20	1.54
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	12	1.53
(1,34)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:GLY:N	18	1.53
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	5	1.52
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	9	1.52
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	8	1.51
(1,2)	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	1:6:A:GLU:N	7	1.51
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	5	1.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	17	1.5
(1,132)	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	1:88:A:ALA:N	10	1.5
(1,87)	1:56:A:ASP:C	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	7	1.5
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	5	1.49
(1,98)	1:67:A:GLU:C	1:68:A:PHE:N	1:68:A:PHE:CA	1:68:A:PHE:C	15	1.49
(1,82)	1:50:A:ASP:C	1:51:A:MET:N	1:51:A:MET:CA	1:51:A:MET:C	13	1.49
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	3	1.48
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	3	1.48
(1,106)	1:71:A:MET:C	1:72:A:MET:N	1:72:A:MET:CA	1:72:A:MET:C	2	1.48
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	16	1.48
(1,29)	1:19:A:PHE:C	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	15	1.48
(1,124)	1:83:A:GLU:N	1:83:A:GLU:CA	1:83:A:GLU:C	1:84:A:GLU:N	18	1.47
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	8	1.47
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	14	1.47
(1,30)	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	1:21:A:LYS:N	19	1.47
(1,22)	1:15:A:ALA:C	1:16:A:PHE:N	1:16:A:PHE:CA	1:16:A:PHE:C	16	1.47
(1,246)	2:157:B:VAL:N	2:157:B:VAL:CA	2:157:B:VAL:C	2:158:B:ALA:N	16	1.46
(1,238)	2:155:B:LYS:C	2:156:B:GLU:N	2:156:B:GLU:CA	2:156:B:GLU:C	13	1.46
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	9	1.46
(1,82)	1:50:A:ASP:C	1:51:A:MET:N	1:51:A:MET:CA	1:51:A:MET:C	11	1.45
(1,79)	1:48:A:LEU:N	1:48:A:LEU:CA	1:48:A:LEU:C	1:49:A:GLN:N	10	1.45
(1,40)	1:25:A:GLY:C	1:26:A:THR:N	1:26:A:THR:CA	1:26:A:THR:C	10	1.45
(1,21)	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	1:16:A:PHE:N	8	1.45
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	19	1.44
(1,33)	1:21:A:LYS:C	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	7	1.44
(1,154)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:TYR:N	1	1.43
(1,71)	1:44:A:THR:N	1:44:A:THR:CA	1:44:A:THR:C	1:45:A:GLU:N	14	1.43
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	4	1.42
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	15	1.42
(1,118)	1:78:A:ASP:N	1:78:A:ASP:CA	1:78:A:ASP:C	1:79:A:THR:N	19	1.42
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	12	1.42
(1,243)	2:154:B:PHE:N	2:154:B:PHE:CA	2:154:B:PHE:C	2:155:B:LYS:N	9	1.41
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	14	1.41
(1,47)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:LYS:N	2	1.41
(1,43)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	10	1.41
(1,242)	2:159:B:ASN:C	2:160:B:ALA:N	2:160:B:ALA:CA	2:160:B:ALA:C	6	1.4
(1,240)	2:157:B:VAL:C	2:158:B:ALA:N	2:158:B:ALA:CA	2:158:B:ALA:C	7	1.4
(1,192)	1:120:A:GLU:C	1:121:A:VAL:N	1:121:A:VAL:CA	1:121:A:VAL:C	18	1.4
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	17	1.4
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	12	1.39
(1,72)	1:44:A:THR:C	1:45:A:GLU:N	1:45:A:GLU:CA	1:45:A:GLU:C	7	1.39
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	17	1.39
(1,232)	1:63:A:ILE:C	1:64:A:ASP:N	1:64:A:ASP:CA	1:64:A:ASP:C	6	1.37
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	14	1.37
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	13	1.37
(1,43)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	15	1.37
(1,24)	1:16:A:PHE:C	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	10	1.37
(1,22)	1:15:A:ALA:C	1:16:A:PHE:N	1:16:A:PHE:CA	1:16:A:PHE:C	12	1.37
(1,22)	1:15:A:ALA:C	1:16:A:PHE:N	1:16:A:PHE:CA	1:16:A:PHE:C	17	1.37
(1,15)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:LYS:N	9	1.37
(1,194)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	4	1.36

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,191)	1:120:A:GLU:N	1:120:A:GLU:CA	1:120:A:GLU:C	1:121:A:VAL:N	6	1.36
(1,144)	1:93:A:ASP:N	1:93:A:ASP:CA	1:93:A:ASP:C	1:94:A:LYS:N	4	1.36
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	2	1.36
(1,202)	1:128:A:ALA:C	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	9	1.35
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	17	1.35
(1,141)	1:91:A:VAL:C	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	14	1.35
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	2	1.35
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	6	1.35
(1,40)	1:25:A:GLY:C	1:26:A:THR:N	1:26:A:THR:CA	1:26:A:THR:C	11	1.35
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	15	1.34
(1,119)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	19	1.34
(1,34)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:GLY:N	16	1.34
(1,22)	1:15:A:ALA:C	1:16:A:PHE:N	1:16:A:PHE:CA	1:16:A:PHE:C	14	1.34
(1,234)	1:64:A:ASP:C	1:65:A:PHE:N	1:65:A:PHE:CA	1:65:A:PHE:C	15	1.33
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	6	1.33
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	11	1.33
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	11	1.32
(1,82)	1:50:A:ASP:C	1:51:A:MET:N	1:51:A:MET:CA	1:51:A:MET:C	6	1.32
(1,30)	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	1:21:A:LYS:N	2	1.32
(1,15)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:LYS:N	4	1.32
(1,106)	1:71:A:MET:C	1:72:A:MET:N	1:72:A:MET:CA	1:72:A:MET:C	16	1.31
(1,185)	1:117:A:THR:N	1:117:A:THR:CA	1:117:A:THR:C	1:118:A:ASP:N	18	1.3
(1,177)	1:111:A:ASN:N	1:111:A:ASN:CA	1:111:A:ASN:C	1:112:A:LEU:N	4	1.3
(1,145)	1:93:A:ASP:C	1:94:A:LYS:N	1:94:A:LYS:CA	1:94:A:LYS:C	4	1.3
(1,136)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	1:90:A:ARG:N	19	1.3
(1,43)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	14	1.3
(1,22)	1:15:A:ALA:C	1:16:A:PHE:N	1:16:A:PHE:CA	1:16:A:PHE:C	10	1.3
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	13	1.29
(1,144)	1:93:A:ASP:N	1:93:A:ASP:CA	1:93:A:ASP:C	1:94:A:LYS:N	14	1.29
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	9	1.29
(1,22)	1:15:A:ALA:C	1:16:A:PHE:N	1:16:A:PHE:CA	1:16:A:PHE:C	11	1.29
(1,242)	2:159:B:ASN:C	2:160:B:ALA:N	2:160:B:ALA:CA	2:160:B:ALA:C	9	1.28
(1,242)	2:159:B:ASN:C	2:160:B:ALA:N	2:160:B:ALA:CA	2:160:B:ALA:C	14	1.28
(1,238)	2:155:B:LYS:C	2:156:B:GLU:N	2:156:B:GLU:CA	2:156:B:GLU:C	19	1.28
(1,141)	1:91:A:VAL:C	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	11	1.28
(1,79)	1:48:A:LEU:N	1:48:A:LEU:CA	1:48:A:LEU:C	1:49:A:GLN:N	8	1.28
(1,243)	2:154:B:PHE:N	2:154:B:PHE:CA	2:154:B:PHE:C	2:155:B:LYS:N	17	1.27
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	1	1.27
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	5	1.27
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	10	1.27
(1,243)	2:154:B:PHE:N	2:154:B:PHE:CA	2:154:B:PHE:C	2:155:B:LYS:N	20	1.26
(1,242)	2:159:B:ASN:C	2:160:B:ALA:N	2:160:B:ALA:CA	2:160:B:ALA:C	17	1.26
(1,238)	2:155:B:LYS:C	2:156:B:GLU:N	2:156:B:GLU:CA	2:156:B:GLU:C	11	1.26
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	4	1.26
(1,161)	1:102:A:ALA:N	1:102:A:ALA:CA	1:102:A:ALA:C	1:103:A:ALA:N	12	1.26
(1,136)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	1:90:A:ARG:N	9	1.26
(1,118)	1:78:A:ASP:N	1:78:A:ASP:CA	1:78:A:ASP:C	1:79:A:THR:N	17	1.26
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	2	1.26
(1,41)	1:26:A:THR:N	1:26:A:THR:CA	1:26:A:THR:C	1:27:A:ILE:N	6	1.26
(1,33)	1:21:A:LYS:C	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	20	1.26
(1,242)	2:159:B:ASN:C	2:160:B:ALA:N	2:160:B:ALA:CA	2:160:B:ALA:C	4	1.25

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	18	1.25
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	15	1.25
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	7	1.25
(1,110)	1:73:A:ALA:C	1:74:A:ARG:N	1:74:A:ARG:CA	1:74:A:ARG:C	16	1.25
(1,106)	1:71:A:MET:C	1:72:A:MET:N	1:72:A:MET:CA	1:72:A:MET:C	5	1.25
(1,71)	1:44:A:THR:N	1:44:A:THR:CA	1:44:A:THR:C	1:45:A:GLU:N	10	1.25
(1,2)	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	1:6:A:GLU:N	2	1.25
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	1	1.24
(1,124)	1:83:A:GLU:N	1:83:A:GLU:CA	1:83:A:GLU:C	1:84:A:GLU:N	1	1.24
(1,124)	1:83:A:GLU:N	1:83:A:GLU:CA	1:83:A:GLU:C	1:84:A:GLU:N	5	1.24
(1,106)	1:71:A:MET:C	1:72:A:MET:N	1:72:A:MET:CA	1:72:A:MET:C	6	1.24
(1,243)	2:154:B:PHE:N	2:154:B:PHE:CA	2:154:B:PHE:C	2:155:B:LYS:N	19	1.23
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	11	1.23
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	5	1.23
(1,62)	1:39:A:LEU:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	15	1.23
(1,61)	1:38:A:SER:N	1:38:A:SER:CA	1:38:A:SER:C	1:39:A:LEU:N	4	1.23
(1,47)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:LYS:N	10	1.23
(1,29)	1:19:A:PHE:C	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	20	1.23
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	20	1.22
(1,110)	1:73:A:ALA:C	1:74:A:ARG:N	1:74:A:ARG:CA	1:74:A:ARG:C	5	1.22
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	1	1.22
(1,87)	1:56:A:ASP:C	1:57:A:ALA:N	1:57:A:ALA:CA	1:57:A:ALA:C	14	1.22
(1,236)	2:153:B:THR:C	2:154:B:PHE:N	2:154:B:PHE:CA	2:154:B:PHE:C	13	1.21
(1,136)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	1:90:A:ARG:N	20	1.21
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	4	1.21
(1,80)	1:49:A:GLN:C	1:50:A:ASP:N	1:50:A:ASP:CA	1:50:A:ASP:C	11	1.21
(1,47)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:LYS:N	9	1.21
(1,40)	1:25:A:GLY:C	1:26:A:THR:N	1:26:A:THR:CA	1:26:A:THR:C	12	1.21
(1,22)	1:15:A:ALA:C	1:16:A:PHE:N	1:16:A:PHE:CA	1:16:A:PHE:C	5	1.21
(1,21)	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	1:16:A:PHE:N	2	1.21
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	6	1.2
(1,110)	1:73:A:ALA:C	1:74:A:ARG:N	1:74:A:ARG:CA	1:74:A:ARG:C	18	1.2
(1,240)	2:157:B:VAL:C	2:158:B:ALA:N	2:158:B:ALA:CA	2:158:B:ALA:C	8	1.19
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	11	1.19
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	4	1.19
(1,119)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	18	1.19
(1,34)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:GLY:N	7	1.19
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	2	1.18
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	6	1.18
(1,132)	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	1:88:A:ALA:N	9	1.17
(1,132)	1:87:A:GLU:N	1:87:A:GLU:CA	1:87:A:GLU:C	1:88:A:ALA:N	20	1.17
(1,47)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:LYS:N	6	1.17
(1,1)	1:4:A:LEU:C	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	13	1.17
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	16	1.16
(1,113)	1:75:A:LYS:N	1:75:A:LYS:CA	1:75:A:LYS:C	1:76:A:MET:N	11	1.16
(1,38)	1:24:A:ASP:N	1:24:A:ASP:CA	1:24:A:ASP:C	1:25:A:GLY:N	4	1.16
(1,22)	1:15:A:ALA:C	1:16:A:PHE:N	1:16:A:PHE:CA	1:16:A:PHE:C	7	1.16
(1,1)	1:4:A:LEU:C	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	18	1.16
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	3	1.15
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	5	1.15
(1,124)	1:83:A:GLU:N	1:83:A:GLU:CA	1:83:A:GLU:C	1:84:A:GLU:N	16	1.15

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	16	1.15
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	13	1.15
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	16	1.15
(1,240)	2:157:B:VAL:C	2:158:B:ALA:N	2:158:B:ALA:CA	2:158:B:ALA:C	5	1.14
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	13	1.14
(1,97)	1:66:A:PRO:N	1:66:A:PRO:CA	1:66:A:PRO:C	1:67:A:GLU:N	19	1.14
(1,1)	1:4:A:LEU:C	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	11	1.14
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	20	1.13
(1,30)	1:20:A:ASP:N	1:20:A:ASP:CA	1:20:A:ASP:C	1:21:A:LYS:N	3	1.13
(1,22)	1:15:A:ALA:C	1:16:A:PHE:N	1:16:A:PHE:CA	1:16:A:PHE:C	18	1.13
(1,139)	1:90:A:ARG:C	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	17	1.12
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	19	1.12
(1,234)	1:64:A:ASP:C	1:65:A:PHE:N	1:65:A:PHE:CA	1:65:A:PHE:C	5	1.11
(1,194)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	15	1.11
(1,161)	1:102:A:ALA:N	1:102:A:ALA:CA	1:102:A:ALA:C	1:103:A:ALA:N	2	1.11
(1,136)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	1:90:A:ARG:N	8	1.11
(1,82)	1:50:A:ASP:C	1:51:A:MET:N	1:51:A:MET:CA	1:51:A:MET:C	3	1.11
(1,82)	1:50:A:ASP:C	1:51:A:MET:N	1:51:A:MET:CA	1:51:A:MET:C	14	1.11
(1,47)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:LYS:N	12	1.11
(1,40)	1:25:A:GLY:C	1:26:A:THR:N	1:26:A:THR:CA	1:26:A:THR:C	4	1.11
(1,25)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	14	1.11
(1,238)	2:155:B:LYS:C	2:156:B:GLU:N	2:156:B:GLU:CA	2:156:B:GLU:C	20	1.1
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	8	1.1
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	9	1.1
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	14	1.1
(1,47)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:LYS:N	5	1.1
(1,47)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:LYS:N	14	1.1
(1,47)	1:29:A:THR:N	1:29:A:THR:CA	1:29:A:THR:C	1:30:A:LYS:N	17	1.1
(1,43)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	9	1.1
(1,246)	2:157:B:VAL:N	2:157:B:VAL:CA	2:157:B:VAL:C	2:158:B:ALA:N	6	1.09
(1,240)	2:157:B:VAL:C	2:158:B:ALA:N	2:158:B:ALA:CA	2:158:B:ALA:C	3	1.09
(1,141)	1:91:A:VAL:C	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	4	1.09
(1,124)	1:83:A:GLU:N	1:83:A:GLU:CA	1:83:A:GLU:C	1:84:A:GLU:N	13	1.09
(1,33)	1:21:A:LYS:C	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	8	1.09
(1,238)	2:155:B:LYS:C	2:156:B:GLU:N	2:156:B:GLU:CA	2:156:B:GLU:C	6	1.08
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	17	1.08
(1,204)	1:129:A:ASP:C	1:130:A:ILE:N	1:130:A:ILE:CA	1:130:A:ILE:C	8	1.08
(1,161)	1:102:A:ALA:N	1:102:A:ALA:CA	1:102:A:ALA:C	1:103:A:ALA:N	4	1.08
(1,147)	1:94:A:LYS:C	1:95:A:ASP:N	1:95:A:ASP:CA	1:95:A:ASP:C	8	1.08
(1,82)	1:50:A:ASP:C	1:51:A:MET:N	1:51:A:MET:CA	1:51:A:MET:C	12	1.08
(1,82)	1:50:A:ASP:C	1:51:A:MET:N	1:51:A:MET:CA	1:51:A:MET:C	17	1.08
(1,38)	1:24:A:ASP:N	1:24:A:ASP:CA	1:24:A:ASP:C	1:25:A:GLY:N	11	1.08
(1,141)	1:91:A:VAL:C	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	6	1.07
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	18	1.07
(1,116)	1:77:A:LYS:N	1:77:A:LYS:CA	1:77:A:LYS:C	1:78:A:ASP:N	19	1.07
(1,211)	1:133:A:ASP:N	1:133:A:ASP:CA	1:133:A:ASP:C	1:134:A:GLY:N	2	1.06
(1,196)	1:124:A:MET:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	6	1.06
(1,136)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	1:90:A:ARG:N	2	1.06
(1,82)	1:50:A:ASP:C	1:51:A:MET:N	1:51:A:MET:CA	1:51:A:MET:C	7	1.06
(1,82)	1:50:A:ASP:C	1:51:A:MET:N	1:51:A:MET:CA	1:51:A:MET:C	10	1.06
(1,72)	1:44:A:THR:C	1:45:A:GLU:N	1:45:A:GLU:CA	1:45:A:GLU:C	10	1.06

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,22)	1:15:A:ALA:C	1:16:A:PHE:N	1:16:A:PHE:CA	1:16:A:PHE:C	15	1.06
(1,15)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:LYS:N	11	1.06
(1,202)	1:128:A:ALA:C	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	3	1.05
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	7	1.05
(1,177)	1:111:A:ASN:N	1:111:A:ASN:CA	1:111:A:ASN:C	1:112:A:LEU:N	6	1.05
(1,141)	1:91:A:VAL:C	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	15	1.05
(1,136)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	1:90:A:ARG:N	15	1.05
(1,22)	1:15:A:ALA:C	1:16:A:PHE:N	1:16:A:PHE:CA	1:16:A:PHE:C	1	1.05
(1,242)	2:159:B:ASN:C	2:160:B:ALA:N	2:160:B:ALA:CA	2:160:B:ALA:C	8	1.04
(1,117)	1:77:A:LYS:C	1:78:A:ASP:N	1:78:A:ASP:CA	1:78:A:ASP:C	3	1.04
(1,89)	1:57:A:ALA:C	1:58:A:ASP:N	1:58:A:ASP:CA	1:58:A:ASP:C	14	1.04
(1,38)	1:24:A:ASP:N	1:24:A:ASP:CA	1:24:A:ASP:C	1:25:A:GLY:N	20	1.04
(1,34)	1:22:A:ASP:N	1:22:A:ASP:CA	1:22:A:ASP:C	1:23:A:GLY:N	6	1.04
(1,21)	1:15:A:ALA:N	1:15:A:ALA:CA	1:15:A:ALA:C	1:16:A:PHE:N	19	1.04
(1,220)	1:141:A:PHE:C	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	14	1.03
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	12	1.03
(1,136)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	1:90:A:ARG:N	13	1.03
(1,120)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:GLU:N	10	1.03
(1,119)	1:80:A:ASP:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1	1.03
(1,93)	1:60:A:ASN:N	1:60:A:ASN:CA	1:60:A:ASN:C	1:61:A:GLY:N	10	1.03
(1,90)	1:58:A:ASP:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	14	1.03
(1,43)	1:27:A:ILE:N	1:27:A:ILE:CA	1:27:A:ILE:C	1:28:A:THR:N	6	1.03
(1,25)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:LEU:N	17	1.03
(1,2)	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	1:6:A:GLU:N	16	1.03
(1,219)	1:141:A:PHE:N	1:141:A:PHE:CA	1:141:A:PHE:C	1:142:A:VAL:N	18	1.02
(1,189)	1:119:A:GLU:N	1:119:A:GLU:CA	1:119:A:GLU:C	1:120:A:GLU:N	4	1.02
(1,179)	1:112:A:LEU:N	1:112:A:LEU:CA	1:112:A:LEU:C	1:113:A:GLY:N	19	1.02
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	20	1.02
(1,90)	1:58:A:ASP:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	20	1.02
(1,15)	1:12:A:PHE:N	1:12:A:PHE:CA	1:12:A:PHE:C	1:13:A:LYS:N	6	1.02
(1,246)	2:157:B:VAL:N	2:157:B:VAL:CA	2:157:B:VAL:C	2:158:B:ALA:N	11	1.01
(1,141)	1:91:A:VAL:C	1:92:A:PHE:N	1:92:A:PHE:CA	1:92:A:PHE:C	12	1.01
(1,124)	1:83:A:GLU:N	1:83:A:GLU:CA	1:83:A:GLU:C	1:84:A:GLU:N	6	1.01
(1,111)	1:74:A:ARG:N	1:74:A:ARG:CA	1:74:A:ARG:C	1:75:A:LYS:N	6	1.01
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	6	1.01
(1,82)	1:50:A:ASP:C	1:51:A:MET:N	1:51:A:MET:CA	1:51:A:MET:C	5	1.01
(1,82)	1:50:A:ASP:C	1:51:A:MET:N	1:51:A:MET:CA	1:51:A:MET:C	19	1.01
(1,1)	1:4:A:LEU:C	1:5:A:THR:N	1:5:A:THR:CA	1:5:A:THR:C	7	1.01
(1,95)	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	1:62:A:THR:N	15	1.0
(1,79)	1:48:A:LEU:N	1:48:A:LEU:CA	1:48:A:LEU:C	1:49:A:GLN:N	16	1.0