Full wwPDB NMR Structure Validation Report (i)

Mar 8, 2026 – 01:51 PM UTC

PDB ID	:	7PVC / pdb_00007pvc
BMRB ID	:	25839
Title	:	The structure of Kbp.K from E. coli with potassium bound.
Authors	:	Smith, B.O.
Deposited on	:	2021-10-01

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 (i) 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 (i)) were used in the production of this report:

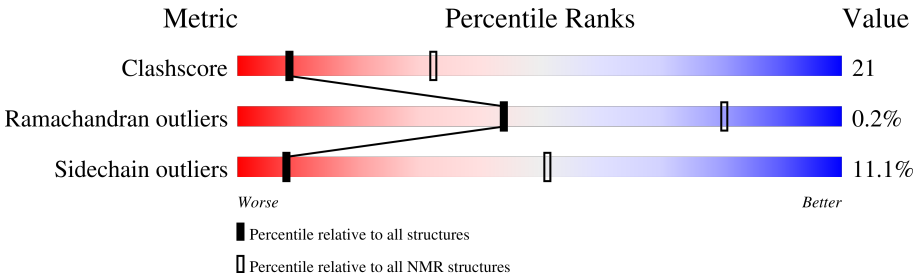
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
SOLUTION NMR

The overall completeness of chemical shifts assignment is 95%.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for >=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 <=5%

Mol	Chain	Length	Quality of chain
1	A	157	50% 34% · 13%

2 Ensemble composition and analysis (i)

This entry contains 20 models. Model 9 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

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

Well-defined (core) protein residues			
Well-defined core	**Residue range (total)**	**Backbone RMSD (Å)**	**Medoid model**
1	A:3-A:15, A:25-A:148 (137)	0.51	9

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 2 single-model clusters were found.

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

3 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 2413 atoms, of which 1204 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Potassium binding protein Kbp.

Mol	Chain	Residues	Atoms						Trace
1	A	157	Total	C	H	N	O	S	0
			2412	757	1204	211	238	2	

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	150	LEU	-	expression tag	UNP P0ADE6
A	151	GLU	-	expression tag	UNP P0ADE6
A	152	HIS	-	expression tag	UNP P0ADE6
A	153	HIS	-	expression tag	UNP P0ADE6
A	154	HIS	-	expression tag	UNP P0ADE6
A	155	HIS	-	expression tag	UNP P0ADE6
A	156	HIS	-	expression tag	UNP P0ADE6
A	157	HIS	-	expression tag	UNP P0ADE6

- Molecule 2 is POTASSIUM ION (CCD ID: K) (formula: K) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	
2	A	1	Total	K
			1	1

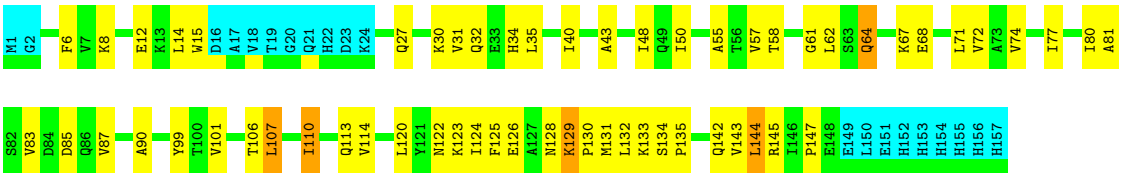
4 Residue-property plots

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: Potassium binding protein Kbp

Chain A:



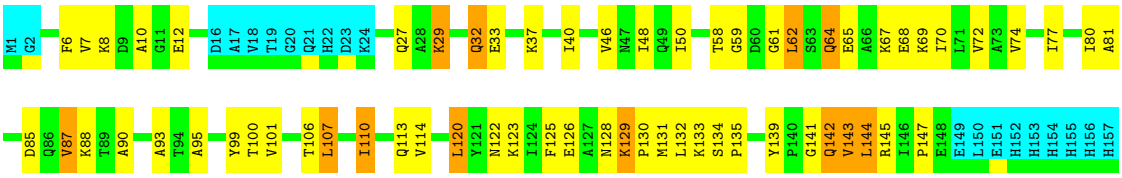
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: Potassium binding protein Kbp

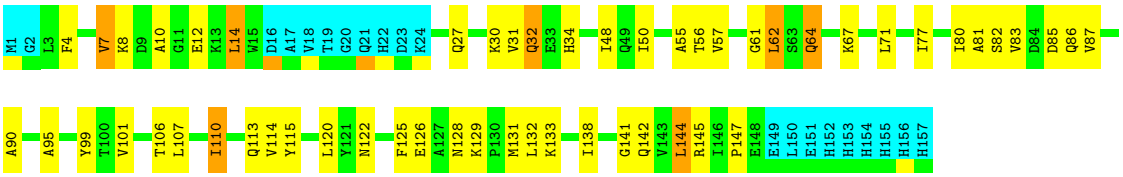
Chain A:



4.2.2 Score per residue for model 2

• Molecule 1: Potassium binding protein Kbp

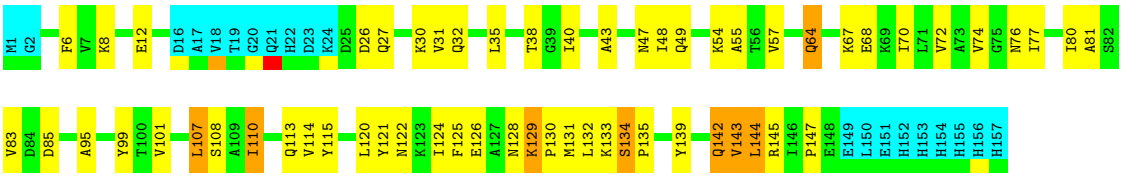
Chain A:



4.2.3 Score per residue for model 3

• Molecule 1: Potassium binding protein Kbp

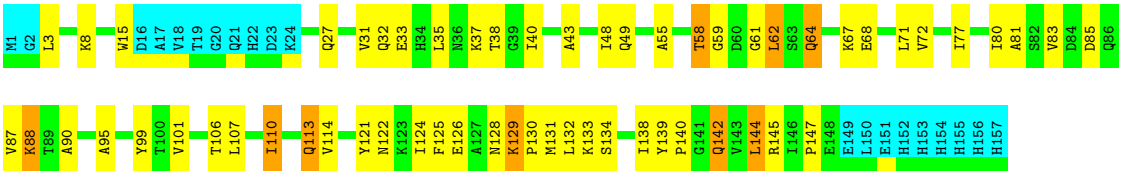
Chain A:



4.2.4 Score per residue for model 4

• Molecule 1: Potassium binding protein Kbp

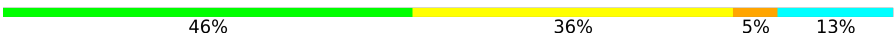
Chain A:

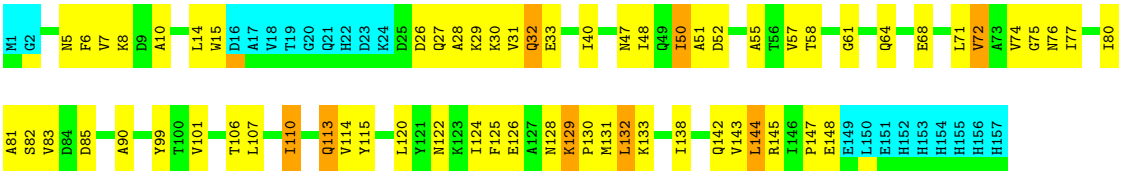


4.2.5 Score per residue for model 5

• Molecule 1: Potassium binding protein Kbp

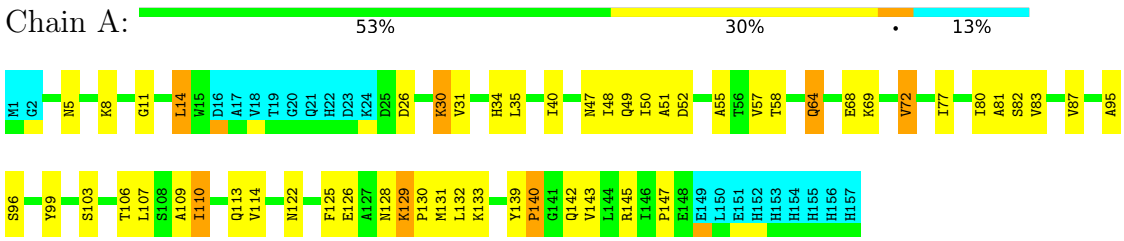
Chain A:





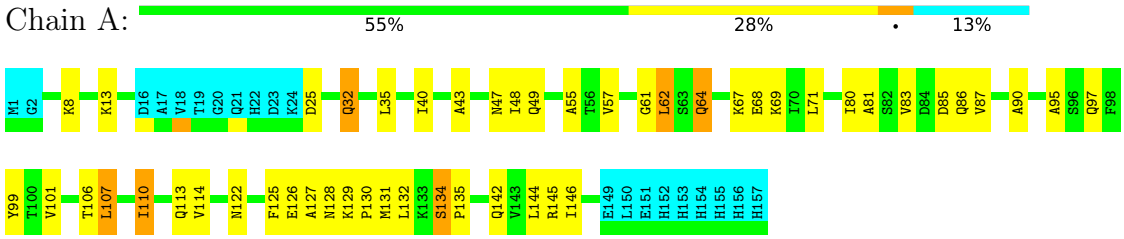
4.2.6 Score per residue for model 6

• Molecule 1: Potassium binding protein Kbp



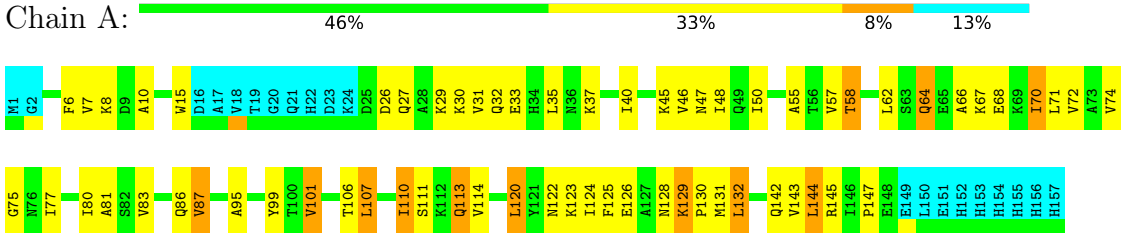
4.2.7 Score per residue for model 7

• Molecule 1: Potassium binding protein Kbp



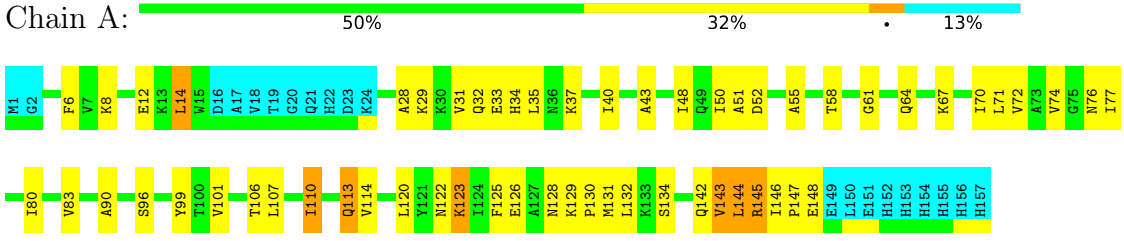
4.2.8 Score per residue for model 8

• Molecule 1: Potassium binding protein Kbp



4.2.9 Score per residue for model 9 (medoid)

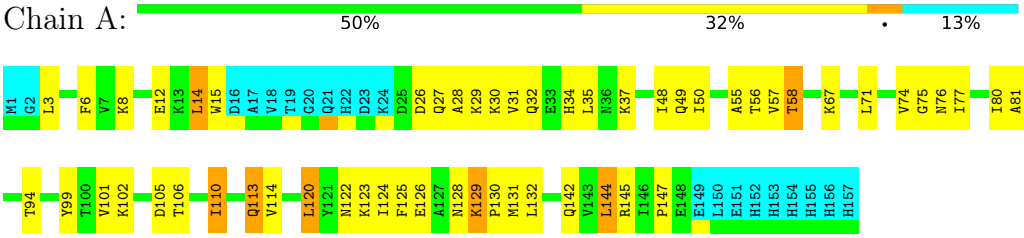
• Molecule 1: Potassium binding protein Kbp



4.2.10 Score per residue for model 10

• Molecule 1: Potassium binding protein Kbp

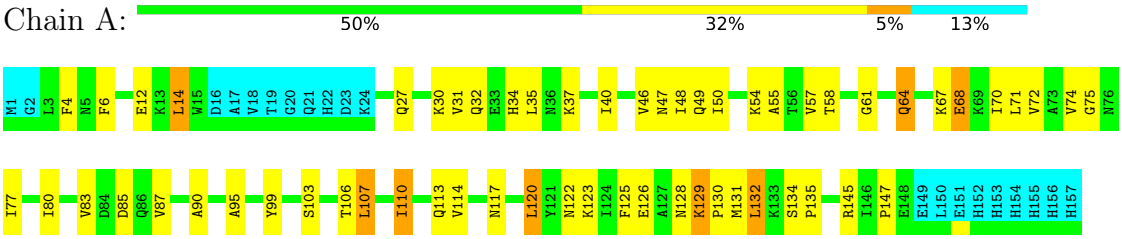
Chain A:



4.2.11 Score per residue for model 11

• Molecule 1: Potassium binding protein Kbp

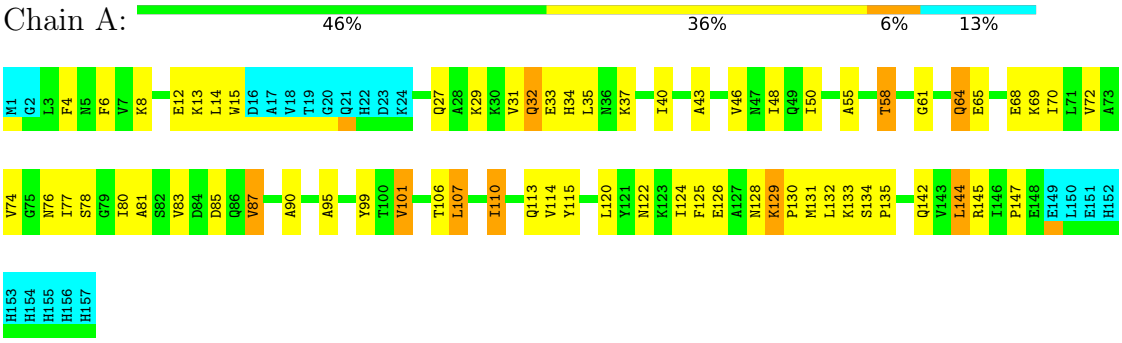
Chain A:



4.2.12 Score per residue for model 12

• Molecule 1: Potassium binding protein Kbp

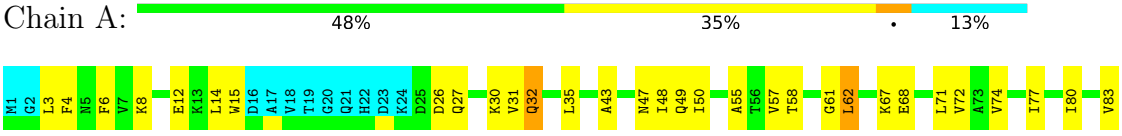
Chain A:

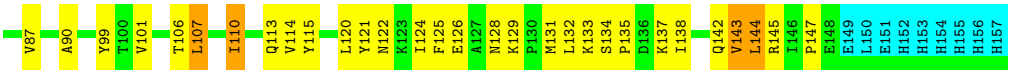


4.2.13 Score per residue for model 13

• Molecule 1: Potassium binding protein Kbp

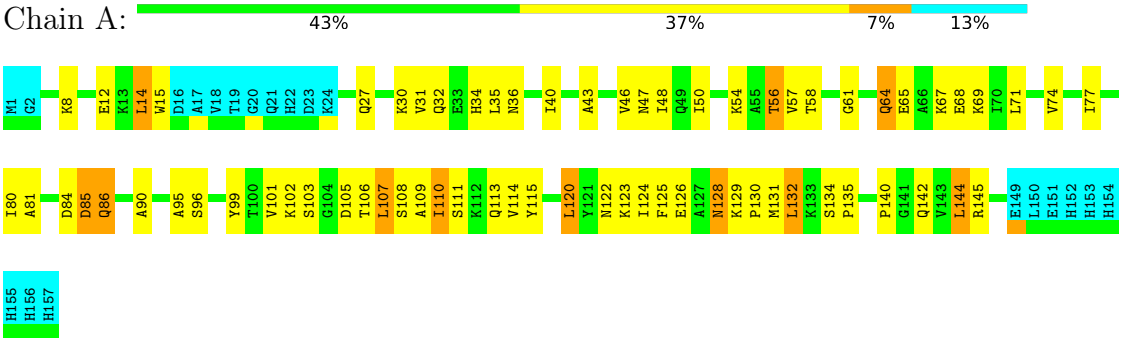
Chain A:





4.2.14 Score per residue for model 14

• Molecule 1: Potassium binding protein Kbp

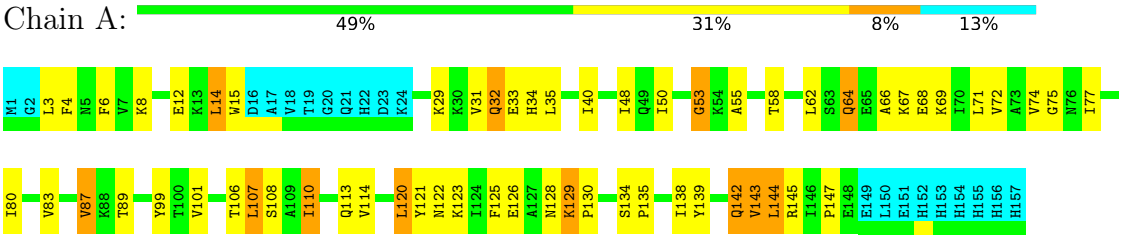


4.2.15 Score per residue for model 15

• Molecule 1: Potassium binding protein Kbp

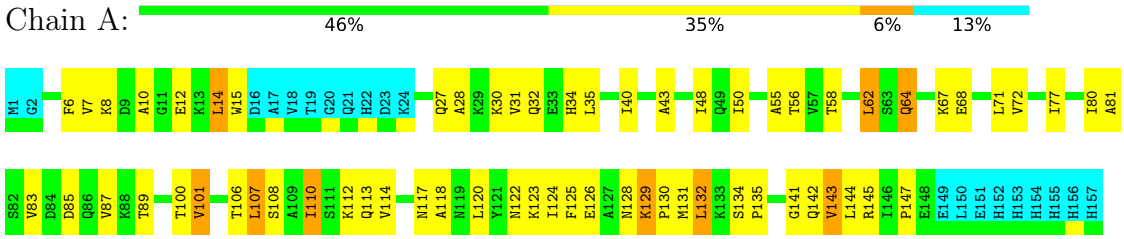
4.2.16 Score per residue for model 16

• Molecule 1: Potassium binding protein Kbp



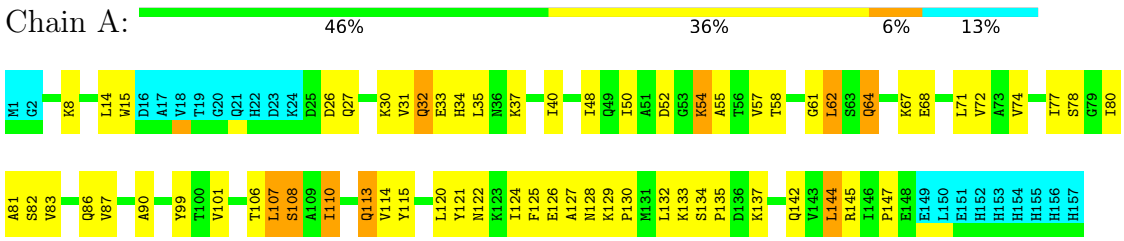
4.2.17 Score per residue for model 17

• Molecule 1: Potassium binding protein Kbp



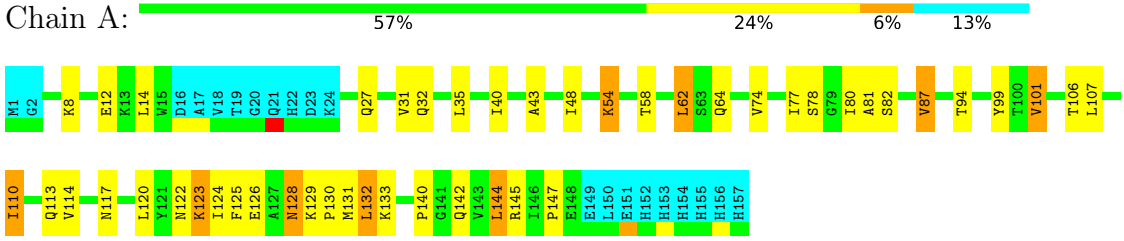
4.2.18 Score per residue for model 18

• Molecule 1: Potassium binding protein Kbp



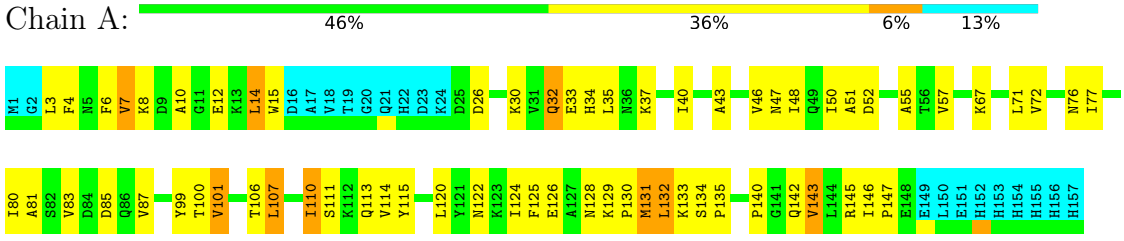
4.2.19 Score per residue for model 19

• Molecule 1: Potassium binding protein Kbp



4.2.20 Score per residue for model 20

• Molecule 1: Potassium binding protein Kbp



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *structures with the least restraint violations.*

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

Software name	Classification	Version
ARIA	structure calculation	2.3
CNS	structure calculation	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1879
Number of shifts mapped to atoms	1879
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	95%

6 Model quality

6.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: K

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

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

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.1±0.2
All	All	0	1

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

All unique planar outliers are listed below.

Mol	Chain	Res	Type	Group	Models (Total)
1	A	121	TYR	Sidechain	1

6.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1042	1058	1057	45±6
All	All	20860	21160	21140	894

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 21.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:7:VAL:HG11	1:A:10:ALA:HB3	0.94	1.37	8	5
1:A:35:LEU:HB3	1:A:43:ALA:HB1	0.87	1.47	19	10
1:A:32:GLN:NE2	1:A:48:ILE:HB	0.80	1.90	1	5
1:A:107:LEU:HD23	1:A:135:PRO:HA	0.79	1.55	16	5
1:A:125:PHE:CE1	1:A:129:LYS:HD3	0.78	2.14	2	2
1:A:4:PHE:HB2	1:A:83:VAL:HG12	0.77	1.55	12	2
1:A:6:PHE:CD2	1:A:143:VAL:HG11	0.75	2.15	16	8
1:A:56:THR:HG22	1:A:86:GLN:CD	0.74	2.06	14	1
1:A:107:LEU:HD13	1:A:121:TYR:HB2	0.73	1.60	18	2
1:A:128:ASN:OD1	1:A:144:LEU:HG	0.72	1.84	1	13
1:A:56:THR:HG22	1:A:86:GLN:NE2	0.72	1.99	14	1
1:A:31:VAL:O	1:A:35:LEU:HG	0.72	1.85	15	6
1:A:40:ILE:HD13	1:A:130:PRO:HD2	0.71	1.63	20	15
1:A:8:LYS:HB3	1:A:81:ALA:HB2	0.70	1.63	14	6
1:A:7:VAL:CG1	1:A:10:ALA:HB3	0.68	2.17	5	6
1:A:32:GLN:HA	1:A:35:LEU:HD12	0.68	1.65	4	3
1:A:46:VAL:HG22	1:A:47:ASN:H	0.68	1.46	14	4
1:A:8:LYS:HD3	1:A:81:ALA:HB2	0.67	1.64	20	4
1:A:40:ILE:HB	1:A:43:ALA:HB2	0.67	1.66	19	2
1:A:125:PHE:CZ	1:A:134:SER:HA	0.66	2.25	9	3
1:A:122:ASN:O	1:A:126:GLU:HG3	0.66	1.90	1	18
1:A:99:TYR:CE1	1:A:110:ILE:HB	0.66	2.26	16	17
1:A:64:GLN:NE2	1:A:95:ALA:HA	0.66	2.06	2	6
1:A:128:ASN:O	1:A:131:MET:HG3	0.65	1.91	10	5
1:A:64:GLN:CD	1:A:95:ALA:HA	0.65	2.17	14	4
1:A:132:LEU:HD12	1:A:133:LYS:N	0.65	2.07	5	9
1:A:126:GLU:HA	1:A:129:LYS:CG	0.64	2.22	17	17
1:A:64:GLN:O	1:A:68:GLU:HG2	0.64	1.92	12	4
1:A:74:VAL:O	1:A:77:ILE:HG12	0.64	1.93	3	13
1:A:55:ALA:O	1:A:83:VAL:HA	0.63	1.93	3	17
1:A:110:ILE:O	1:A:114:VAL:HG22	0.63	1.94	13	20
1:A:67:LYS:O	1:A:71:LEU:HG	0.63	1.93	9	9
1:A:107:LEU:HD11	1:A:124:ILE:HB	0.62	1.71	8	3
1:A:125:PHE:O	1:A:129:LYS:HG2	0.62	1.95	13	15
1:A:6:PHE:CE1	1:A:75:GLY:HA3	0.61	2.30	11	1
1:A:68:GLU:O	1:A:72:VAL:HG23	0.61	1.95	18	10
1:A:6:PHE:HD2	1:A:143:VAL:HG11	0.60	1.57	17	2
1:A:14:LEU:HD23	1:A:77:ILE:HG23	0.60	1.73	9	8
1:A:50:ILE:HD12	1:A:80:ILE:HD11	0.60	1.72	8	14
1:A:120:LEU:HG	1:A:123:LYS:HD3	0.59	1.73	10	10
1:A:106:THR:O	1:A:110:ILE:HG23	0.59	1.97	13	19
1:A:107:LEU:HD21	1:A:124:ILE:HB	0.59	1.74	17	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:107:LEU:HD12	1:A:135:PRO:HA	0.58	1.75	11	5
1:A:145:ARG:O	1:A:147:PRO:HD3	0.57	1.99	9	18
1:A:70:ILE:O	1:A:74:VAL:HG12	0.57	1.98	3	2
1:A:128:ASN:O	1:A:131:MET:HB3	0.57	1.99	19	12
1:A:107:LEU:HB2	1:A:135:PRO:O	0.57	1.99	17	2
1:A:110:ILE:HD11	1:A:124:ILE:HD13	0.57	1.76	15	9
1:A:125:PHE:CE2	1:A:134:SER:HA	0.57	2.34	1	9
1:A:64:GLN:HG3	1:A:93:ALA:HB3	0.57	1.75	1	1
1:A:142:GLN:HG3	1:A:144:LEU:HD13	0.57	1.77	12	2
1:A:101:VAL:HG13	1:A:142:GLN:O	0.56	2.00	15	6
1:A:14:LEU:HB3	1:A:30:LYS:CG	0.56	2.31	17	2
1:A:67:LYS:HG3	1:A:87:VAL:HG13	0.56	1.77	1	2
1:A:107:LEU:CD1	1:A:125:PHE:HB2	0.56	2.31	4	1
1:A:62:LEU:HD11	1:A:87:VAL:HG21	0.56	1.77	19	1
1:A:101:VAL:HG23	1:A:142:GLN:O	0.55	2.01	9	12
1:A:69:LYS:HE2	1:A:129:LYS:O	0.55	2.01	6	2
1:A:27:GLN:O	1:A:31:VAL:HG23	0.55	2.01	18	11
1:A:96:SER:HB3	1:A:146:ILE:O	0.55	2.01	9	1
1:A:107:LEU:HD11	1:A:135:PRO:HB3	0.55	1.79	18	2
1:A:3:LEU:HD13	1:A:4:PHE:N	0.55	2.17	13	3
1:A:120:LEU:HB3	1:A:123:LYS:HZ3	0.54	1.62	19	1
1:A:99:TYR:O	1:A:143:VAL:HA	0.54	2.02	20	5
1:A:125:PHE:O	1:A:129:LYS:HG3	0.54	2.02	2	2
1:A:46:VAL:HG21	1:A:70:ILE:HG12	0.54	1.78	1	1
1:A:62:LEU:H	1:A:62:LEU:HD13	0.54	1.62	4	4
1:A:14:LEU:HD11	1:A:34:HIS:HB2	0.54	1.80	20	11
1:A:125:PHE:CZ	1:A:129:LYS:HD3	0.54	2.38	7	6
1:A:120:LEU:HG	1:A:123:LYS:CD	0.54	2.32	10	3
1:A:115:TYR:CD1	1:A:120:LEU:HD23	0.54	2.38	14	1
1:A:58:THR:C	1:A:87:VAL:HB	0.54	2.28	1	3
1:A:8:LYS:HA	1:A:80:ILE:O	0.54	2.03	14	15
1:A:33:GLU:O	1:A:37:LYS:HG2	0.54	2.03	4	5
1:A:31:VAL:HG21	1:A:48:ILE:HG21	0.54	1.80	10	3
1:A:29:LYS:O	1:A:33:GLU:HG3	0.53	2.03	5	6
1:A:14:LEU:CD2	1:A:77:ILE:HG23	0.53	2.33	14	8
1:A:128:ASN:HB3	1:A:131:MET:HE3	0.53	1.81	3	5
1:A:127:ALA:O	1:A:145:ARG:HD2	0.53	2.03	15	1
1:A:65:GLU:O	1:A:69:LYS:HB2	0.53	2.03	1	1
1:A:49:GLN:O	1:A:55:ALA:HA	0.53	2.02	13	7
1:A:54:LYS:HA	1:A:82:SER:OG	0.53	2.03	19	2
1:A:114:VAL:HB	1:A:146:ILE:HG21	0.53	1.81	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:115:TYR:HB3	1:A:120:LEU:HD12	0.53	1.81	2	7
1:A:122:ASN:O	1:A:126:GLU:HG2	0.53	2.03	13	2
1:A:6:PHE:CE2	1:A:75:GLY:HA3	0.53	2.38	16	4
1:A:32:GLN:HG2	1:A:48:ILE:CG1	0.53	2.33	8	3
1:A:46:VAL:HG21	1:A:57:VAL:HG23	0.53	1.79	14	1
1:A:57:VAL:CG1	1:A:85:ASP:HA	0.52	2.34	14	7
1:A:124:ILE:HG22	1:A:128:ASN:OD1	0.52	2.02	3	6
1:A:14:LEU:HD22	1:A:77:ILE:HD12	0.52	1.81	13	3
1:A:106:THR:HA	1:A:138:ILE:HD11	0.52	1.82	13	3
1:A:7:VAL:O	1:A:81:ALA:HA	0.52	2.05	17	2
1:A:125:PHE:CE1	1:A:129:LYS:HG2	0.52	2.40	15	3
1:A:139:TYR:CE2	1:A:142:GLN:HG2	0.52	2.40	3	2
1:A:40:ILE:CD1	1:A:130:PRO:HD2	0.52	2.35	12	2
1:A:26:ASP:O	1:A:30:LYS:HD3	0.52	2.05	8	2
1:A:67:LYS:O	1:A:71:LEU:HD13	0.51	2.05	11	2
1:A:126:GLU:HA	1:A:129:LYS:HG3	0.51	1.82	17	13
1:A:30:LYS:N	1:A:30:LYS:HD2	0.51	2.19	11	1
1:A:50:ILE:HD12	1:A:80:ILE:CD1	0.51	2.34	9	2
1:A:6:PHE:CD2	1:A:143:VAL:CG1	0.51	2.91	16	4
1:A:8:LYS:O	1:A:78:SER:HA	0.51	2.05	18	2
1:A:26:ASP:O	1:A:30:LYS:HG2	0.51	2.06	5	4
1:A:57:VAL:HG11	1:A:71:LEU:CD2	0.51	2.36	20	6
1:A:125:PHE:CD1	1:A:129:LYS:HG2	0.50	2.41	15	3
1:A:32:GLN:HG2	1:A:48:ILE:HD13	0.50	1.83	11	5
1:A:115:TYR:OH	1:A:147:PRO:HD2	0.50	2.07	13	4
1:A:14:LEU:CD2	1:A:77:ILE:HD12	0.50	2.37	20	5
1:A:64:GLN:HE22	1:A:68:GLU:CD	0.50	2.15	8	1
1:A:110:ILE:HA	1:A:113:GLN:HG3	0.50	1.83	10	7
1:A:7:VAL:HG11	1:A:141:GLY:O	0.50	2.06	17	1
1:A:132:LEU:HD23	1:A:133:LYS:N	0.50	2.22	1	3
1:A:77:ILE:HB	1:A:80:ILE:CG1	0.50	2.37	16	6
1:A:64:GLN:OE1	1:A:95:ALA:HA	0.50	2.07	7	1
1:A:68:GLU:O	1:A:72:VAL:HG22	0.49	2.07	6	2
1:A:132:LEU:HG	1:A:142:GLN:NE2	0.49	2.22	14	3
1:A:61:GLY:HA2	1:A:90:ALA:HB2	0.49	1.85	15	12
1:A:112:LYS:HB2	1:A:118:ALA:HB2	0.49	1.84	15	2
1:A:126:GLU:HA	1:A:129:LYS:HG2	0.49	1.84	17	2
1:A:72:VAL:O	1:A:76:ASN:HB2	0.49	2.08	3	4
1:A:5:ASN:HA	1:A:82:SER:OG	0.49	2.08	6	2
1:A:109:ALA:O	1:A:113:GLN:HG2	0.49	2.08	6	2
1:A:142:GLN:HG3	1:A:144:LEU:CD1	0.49	2.38	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:107:LEU:HD21	1:A:125:PHE:HB2	0.48	1.83	9	3
1:A:127:ALA:O	1:A:145:ARG:HD3	0.48	2.09	18	2
1:A:111:SER:HA	1:A:114:VAL:CG2	0.48	2.38	8	2
1:A:132:LEU:HG	1:A:142:GLN:HE22	0.48	1.68	14	2
1:A:129:LYS:HB2	1:A:130:PRO:HA	0.48	1.85	10	3
1:A:46:VAL:HG21	1:A:70:ILE:HG21	0.48	1.83	11	2
1:A:67:LYS:HD2	1:A:85:ASP:OD1	0.48	2.09	4	2
1:A:48:ILE:HA	1:A:56:THR:O	0.48	2.09	17	4
1:A:111:SER:O	1:A:115:TYR:HB2	0.48	2.09	14	1
1:A:72:VAL:HG21	1:A:145:ARG:HG2	0.48	1.86	15	1
1:A:139:TYR:CZ	1:A:142:GLN:HG2	0.48	2.43	16	4
1:A:58:THR:C	1:A:87:VAL:HG22	0.47	2.34	4	1
1:A:32:GLN:HE21	1:A:48:ILE:HB	0.47	1.69	5	2
1:A:8:LYS:HD2	1:A:81:ALA:HB2	0.47	1.87	5	5
1:A:100:THR:HA	1:A:143:VAL:HA	0.47	1.86	17	4
1:A:69:LYS:HA	1:A:145:ARG:NE	0.47	2.23	15	1
1:A:107:LEU:HB3	1:A:121:TYR:HB2	0.47	1.86	15	1
1:A:26:ASP:O	1:A:30:LYS:HE3	0.47	2.10	6	1
1:A:55:ALA:HB2	1:A:80:ILE:HD12	0.47	1.86	10	2
1:A:120:LEU:CD1	1:A:120:LEU:N	0.47	2.78	15	1
1:A:57:VAL:O	1:A:86:GLN:HB2	0.46	2.10	15	4
1:A:15:TRP:CH2	1:A:77:ILE:HG21	0.46	2.45	14	6
1:A:52:ASP:C	1:A:54:LYS:H	0.46	2.18	18	2
1:A:7:VAL:HG11	1:A:141:GLY:CA	0.46	2.39	2	1
1:A:107:LEU:CD1	1:A:135:PRO:HA	0.46	2.40	3	3
1:A:72:VAL:HG21	1:A:145:ARG:CG	0.46	2.40	13	4
1:A:6:PHE:HD2	1:A:143:VAL:CG1	0.46	2.23	15	2
1:A:62:LEU:HD13	1:A:62:LEU:N	0.46	2.25	4	3
1:A:14:LEU:HB3	1:A:30:LYS:HB3	0.46	1.88	14	4
1:A:107:LEU:CD1	1:A:121:TYR:HB2	0.46	2.38	18	2
1:A:46:VAL:HG21	1:A:57:VAL:CG2	0.46	2.39	14	1
1:A:35:LEU:HB3	1:A:43:ALA:CB	0.46	2.41	13	3
1:A:11:GLY:HA2	1:A:139:TYR:OH	0.46	2.10	6	1
1:A:32:GLN:HG2	1:A:48:ILE:HG12	0.46	1.86	8	3
1:A:6:PHE:CD2	1:A:75:GLY:HA3	0.46	2.46	16	1
1:A:103:SER:HA	1:A:140:PRO:HG3	0.46	1.88	6	2
1:A:46:VAL:HG21	1:A:57:VAL:HG13	0.45	1.87	11	2
1:A:114:VAL:HG23	1:A:115:TYR:CD2	0.45	2.46	14	1
1:A:58:THR:HG23	1:A:86:GLN:HB2	0.45	1.87	10	2
1:A:102:LYS:HB2	1:A:105:ASP:OD2	0.45	2.11	14	2
1:A:57:VAL:HG13	1:A:87:VAL:HG23	0.45	1.86	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:28:ALA:HA	1:A:31:VAL:HG22	0.45	1.87	10	3
1:A:6:PHE:CZ	1:A:75:GLY:HA3	0.45	2.46	11	1
1:A:69:LYS:HA	1:A:145:ARG:CZ	0.45	2.41	15	1
1:A:132:LEU:HD12	1:A:133:LYS:H	0.45	1.70	2	4
1:A:7:VAL:HG22	1:A:8:LYS:N	0.45	2.26	8	2
1:A:117:ASN:HB3	1:A:120:LEU:HD22	0.44	1.89	17	2
1:A:125:PHE:CE2	1:A:129:LYS:HD3	0.44	2.47	1	1
1:A:77:ILE:HB	1:A:80:ILE:HG12	0.44	1.87	16	4
1:A:107:LEU:HD11	1:A:135:PRO:CB	0.44	2.40	18	1
1:A:14:LEU:HG	1:A:30:LYS:HB3	0.44	1.89	13	2
1:A:57:VAL:HG11	1:A:71:LEU:HD23	0.44	1.89	18	1
1:A:126:GLU:HA	1:A:129:LYS:HE2	0.44	1.90	2	1
1:A:57:VAL:CG2	1:A:70:ILE:HG21	0.44	2.43	15	1
1:A:7:VAL:HG13	1:A:10:ALA:HB3	0.44	1.89	2	1
1:A:48:ILE:HD12	1:A:48:ILE:N	0.44	2.27	19	4
1:A:108:SER:HA	1:A:121:TYR:HB3	0.44	1.89	18	3
1:A:38:THR:OG1	1:A:40:ILE:HG12	0.44	2.13	4	2
1:A:3:LEU:HD12	1:A:83:VAL:O	0.44	2.13	4	2
1:A:6:PHE:CD2	1:A:143:VAL:HG21	0.44	2.48	5	1
1:A:14:LEU:HB3	1:A:30:LYS:HG3	0.43	1.90	6	2
1:A:107:LEU:CD2	1:A:125:PHE:HB2	0.43	2.42	9	1
1:A:132:LEU:HG	1:A:142:GLN:HE21	0.43	1.72	12	1
1:A:138:ILE:HA	1:A:142:GLN:OE1	0.43	2.12	2	2
1:A:51:ALA:O	1:A:52:ASP:HB2	0.43	2.12	20	3
1:A:69:LYS:HD2	1:A:129:LYS:O	0.43	2.13	7	1
1:A:129:LYS:HA	1:A:131:MET:N	0.43	2.28	19	1
1:A:76:ASN:OD1	1:A:142:GLN:HA	0.43	2.12	10	2
1:A:128:ASN:HA	1:A:145:ARG:NH1	0.43	2.28	15	1
1:A:33:GLU:O	1:A:37:LYS:HG3	0.43	2.13	1	2
1:A:67:LYS:HG3	1:A:87:VAL:CG1	0.43	2.43	1	1
1:A:64:GLN:HA	1:A:67:LYS:HG2	0.43	1.91	3	1
1:A:72:VAL:HG23	1:A:143:VAL:O	0.43	2.13	8	1
1:A:26:ASP:O	1:A:29:LYS:HB3	0.43	2.14	10	1
1:A:107:LEU:HA	1:A:110:ILE:CG1	0.43	2.43	13	1
1:A:57:VAL:HG12	1:A:85:ASP:HA	0.43	1.90	3	2
1:A:53:GLY:O	1:A:80:ILE:HA	0.43	2.14	16	1
1:A:59:GLY:N	1:A:87:VAL:HB	0.43	2.28	1	1
1:A:139:TYR:O	1:A:142:GLN:HB2	0.43	2.14	16	2
1:A:57:VAL:HG12	1:A:87:VAL:CG2	0.43	2.44	10	3
1:A:65:GLU:O	1:A:69:LYS:HG3	0.43	2.13	14	1
1:A:59:GLY:O	1:A:88:LYS:HG2	0.43	2.13	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:88:LYS:N	1:A:88:LYS:HD3	0.43	2.29	4	1
1:A:28:ALA:N	1:A:50:ILE:HG13	0.43	2.29	5	2
1:A:64:GLN:HG3	1:A:65:GLU:N	0.43	2.29	14	2
1:A:64:GLN:HA	1:A:89:THR:HG21	0.43	1.90	16	1
1:A:57:VAL:O	1:A:57:VAL:HG13	0.42	2.14	14	1
1:A:10:ALA:CB	1:A:141:GLY:HA3	0.42	2.44	1	1
1:A:31:VAL:HG11	1:A:74:VAL:HG23	0.42	1.90	3	1
1:A:4:PHE:O	1:A:82:SER:HA	0.42	2.14	2	1
1:A:57:VAL:HG13	1:A:85:ASP:HA	0.42	1.91	14	1
1:A:65:GLU:O	1:A:69:LYS:HD3	0.42	2.14	15	1
1:A:125:PHE:HD2	1:A:132:LEU:HD13	0.42	1.74	11	1
1:A:27:GLN:O	1:A:31:VAL:HG13	0.42	2.14	5	1
1:A:110:ILE:HA	1:A:113:GLN:CG	0.42	2.45	14	1
1:A:32:GLN:HB2	1:A:48:ILE:HD12	0.42	1.91	4	1
1:A:31:VAL:CG2	1:A:48:ILE:HG21	0.42	2.44	6	1
1:A:32:GLN:O	1:A:35:LEU:HB2	0.42	2.15	4	1
1:A:14:LEU:HD23	1:A:77:ILE:CG2	0.42	2.43	9	2
1:A:35:LEU:HD13	1:A:43:ALA:HB1	0.41	1.91	4	1
1:A:66:ALA:O	1:A:70:ILE:HD12	0.41	2.15	8	1
1:A:128:ASN:OD1	1:A:144:LEU:HA	0.41	2.14	16	1
1:A:67:LYS:NZ	1:A:71:LEU:HD11	0.41	2.30	2	2
1:A:64:GLN:O	1:A:67:LYS:HB3	0.41	2.14	15	2
1:A:45:LYS:HB2	1:A:62:LEU:CD2	0.41	2.44	8	1
1:A:97:GLN:HB3	1:A:146:ILE:HB	0.41	1.92	7	1
1:A:120:LEU:N	1:A:120:LEU:HD12	0.41	2.30	15	1
1:A:101:VAL:O	1:A:140:PRO:HA	0.41	2.15	4	1
1:A:131:MET:SD	1:A:131:MET:C	0.41	3.04	11	1
1:A:6:PHE:HE1	1:A:83:VAL:HG12	0.41	1.76	12	1
1:A:62:LEU:HD23	1:A:62:LEU:N	0.41	2.31	18	2
1:A:62:LEU:O	1:A:89:THR:HA	0.41	2.16	17	1
1:A:64:GLN:O	1:A:68:GLU:HG3	0.41	2.15	17	2
1:A:128:ASN:HB3	1:A:131:MET:CE	0.41	2.46	17	1
1:A:12:GLU:HG2	1:A:34:HIS:ND1	0.41	2.31	2	1
1:A:57:VAL:CG2	1:A:74:VAL:HG21	0.41	2.46	13	1
1:A:31:VAL:HG11	1:A:74:VAL:HG13	0.41	1.93	16	1
1:A:66:ALA:O	1:A:69:LYS:HB2	0.41	2.15	16	1
1:A:35:LEU:HD23	1:A:40:ILE:HG13	0.41	1.93	12	1
1:A:124:ILE:HG23	1:A:145:ARG:O	0.41	2.16	14	1
1:A:50:ILE:HD13	1:A:80:ILE:HD11	0.41	1.93	16	1
1:A:134:SER:OG	1:A:137:LYS:HG3	0.41	2.15	18	1
1:A:107:LEU:CB	1:A:121:TYR:HB2	0.40	2.46	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:14:LEU:HB2	1:A:15:TRP:CE3	0.40	2.51	5	1
1:A:28:ALA:O	1:A:31:VAL:HG22	0.40	2.16	5	1
1:A:67:LYS:HB2	1:A:87:VAL:CG1	0.40	2.46	11	1
1:A:120:LEU:CG	1:A:123:LYS:HD3	0.40	2.46	15	1
1:A:67:LYS:CG	1:A:87:VAL:HG13	0.40	2.46	16	1
1:A:48:ILE:N	1:A:48:ILE:HD12	0.40	2.30	20	1
1:A:107:LEU:O	1:A:110:ILE:HG13	0.40	2.15	5	2
1:A:46:VAL:CG2	1:A:57:VAL:HG13	0.40	2.46	11	1
1:A:85:ASP:OD1	1:A:87:VAL:HG12	0.40	2.15	11	1
1:A:14:LEU:CD1	1:A:34:HIS:HB2	0.40	2.46	18	1
1:A:51:ALA:O	1:A:52:ASP:HB3	0.40	2.16	9	1
1:A:46:VAL:CG2	1:A:70:ILE:HG12	0.40	2.47	1	1
1:A:125:PHE:CE1	1:A:135:PRO:HD3	0.40	2.52	7	1
1:A:134:SER:HB2	1:A:137:LYS:CG	0.40	2.47	13	1
1:A:84:ASP:O	1:A:85:ASP:C	0.40	2.65	14	1

6.3 Torsion angles (i)

6.3.1 Protein backbone (i)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	137/157 (87%)	127±2 (93±2%)	10±2 (7±2%)	0±0 (0±0%)	44	80
All	All	2740/3140 (87%)	2538 (93%)	196 (7%)	6 (0%)	44	80

All 4 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	140	PRO	3
1	A	103	SER	1
1	A	85	ASP	1
1	A	53	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	113/130 (87%)	100±2 (89±2%)	12±2 (11±2%)	8 51
All	All	2260/2600 (87%)	2010 (89%)	250 (11%)	8 51

All 44 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	110	ILE	20
1	A	113	GLN	18
1	A	144	LEU	17
1	A	64	GLN	16
1	A	32	GLN	14
1	A	107	LEU	14
1	A	58	THR	14
1	A	12	GLU	12
1	A	129	LYS	11
1	A	132	LEU	11
1	A	62	LEU	9
1	A	87	VAL	9
1	A	14	LEU	9
1	A	143	VAL	8
1	A	120	LEU	6
1	A	54	LYS	6
1	A	101	VAL	6
1	A	47	ASN	5
1	A	142	GLN	4
1	A	96	SER	3
1	A	108	SER	3
1	A	88	LYS	2
1	A	7	VAL	2
1	A	30	LYS	2
1	A	134	SER	2
1	A	72	VAL	2
1	A	13	LYS	2
1	A	123	LYS	2
1	A	37	LYS	2

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Mol	Chain	Res	Type	Models (Total)
1	A	94	THR	2
1	A	68	GLU	2
1	A	128	ASN	2
1	A	131	MET	2
1	A	29	LYS	1
1	A	50	ILE	1
1	A	25	ASP	1
1	A	70	ILE	1
1	A	145	ARG	1
1	A	36	ASN	1
1	A	56	THR	1
1	A	86	GLN	1
1	A	5	ASN	1
1	A	85	ASP	1
1	A	26	ASP	1

6.3.3 RNA

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates

There are no oligosaccharides in this entry.

6.6 Ligand geometry

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 95% for the well-defined parts and 91% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *nef_chemical_shift_list_K*

7.1.1 Bookkeeping

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

Total number of shifts	1879
Number of shifts mapped to atoms	1879
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	4

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	153	-0.26 ± 0.11	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	141	0.04 ± 0.11	None needed (< 0.5 ppm)
$^{13}C'$	153	-0.19 ± 0.15	None needed (< 0.5 ppm)
^{15}N	141	0.28 ± 0.37	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 95%, i.e. 1715 atoms were assigned a chemical shift out of a possible 1806. 0 out of 20 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	676/683 (99%)	274/278 (99%)	274/274 (100%)	128/131 (98%)
Sidechain	959/1027 (93%)	656/666 (98%)	286/326 (88%)	17/35 (49%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	80/96 (83%)	40/46 (87%)	39/47 (83%)	1/3 (33%)
Overall	1715/1806 (95%)	970/990 (98%)	599/647 (93%)	146/169 (86%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 91%, i.e. 1879 atoms were assigned a chemical shift out of a possible 2073. 0 out of 22 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	752/785 (96%)	305/320 (95%)	306/314 (97%)	141/151 (93%)
Sidechain	1045/1136 (92%)	715/736 (97%)	312/363 (86%)	18/37 (49%)
Aromatic	82/152 (54%)	41/74 (55%)	40/61 (66%)	1/17 (6%)
Overall	1879/2073 (91%)	1061/1130 (94%)	658/738 (89%)	160/205 (78%)

7.1.4 Statistically unusual chemical shifts (i)

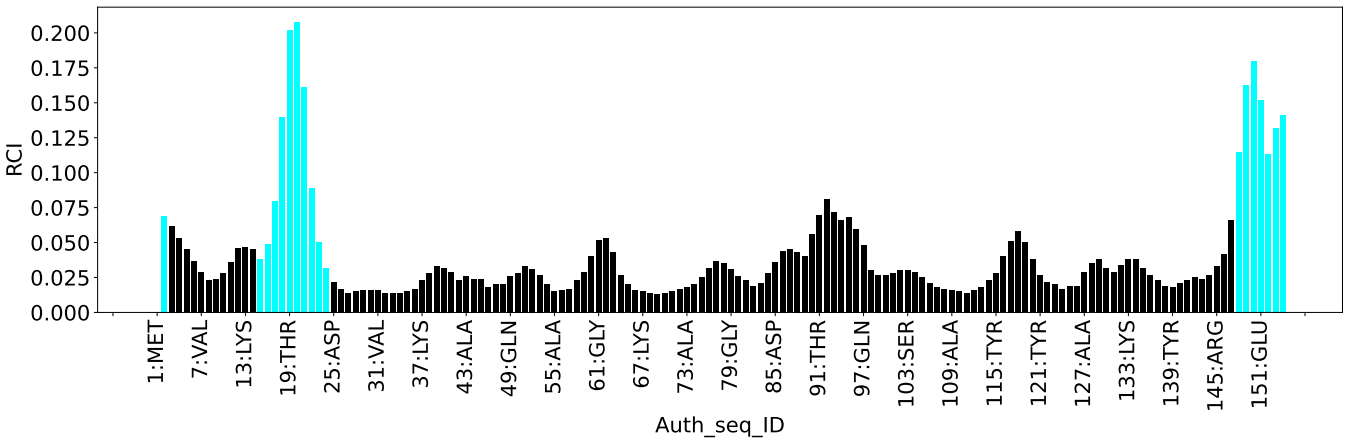
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, *ppm*	Expected range, *ppm*	Z-score
1	A	75	GLY	HA3	0.74	2.08 – 5.71	-8.7
1	A	27	GLN	HG3	0.24	0.91 – 3.68	-7.4
1	A	142	GLN	HB3	0.24	0.71 – 3.33	-6.8
1	A	142	GLN	NE2	103.33	103.38 – 120.35	-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:


RCI
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
1:MET
7:VAL
13:LYS
19:THR
25:ASP
31:VAL
37:LYS
43:ALA
49:GLN
55:ALA
61:GLY
67:LYS
73:ALA
79:GLY
85:ASP
91:THR
97:GLN
103:SER
109:ALA
115:TYR
121:TYR
127:ALA
133:LYS
139:TYR
145:ARG
151:GLU
Auth_seq_ID

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	5562
Intra-residue (|i-j|=0)	1786
Sequential (|i-j|=1)	1086
Medium range (|i-j|>1 and |i-j|<5)	929
Long range (|i-j|≥5)	1756
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	162
Number of unmapped restraints	0
Number of restraints per residue	36.2
Number of long range restraints per residue[1]	11.1

[1]Long range hydrogen bonds and disulfide bonds are counted as long range restraints while calculating the number of long range restraints per residue

8.2 Residual restraint violations

This section provides the overview of the restraint violations analysis. The violations are binned as small, medium and large violations based on its absolute value. Average number of violations per model is calculated by dividing the total number of violations in each bin by the size of the ensemble.

8.2.1 Average number of distance violations per model

Distance violations less than 0.1 Å
are not included in the calculation.

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	165.7	0.2
0.2-0.5 (Medium)	320.4	0.5
>0.5 (Large)	396.7	4.2

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)	5.0	9.96
10.0-20.0 (Medium)	2.9	19.94
>20.0 (Large)	7.2	137.44

9 Distance violation analysis (i)

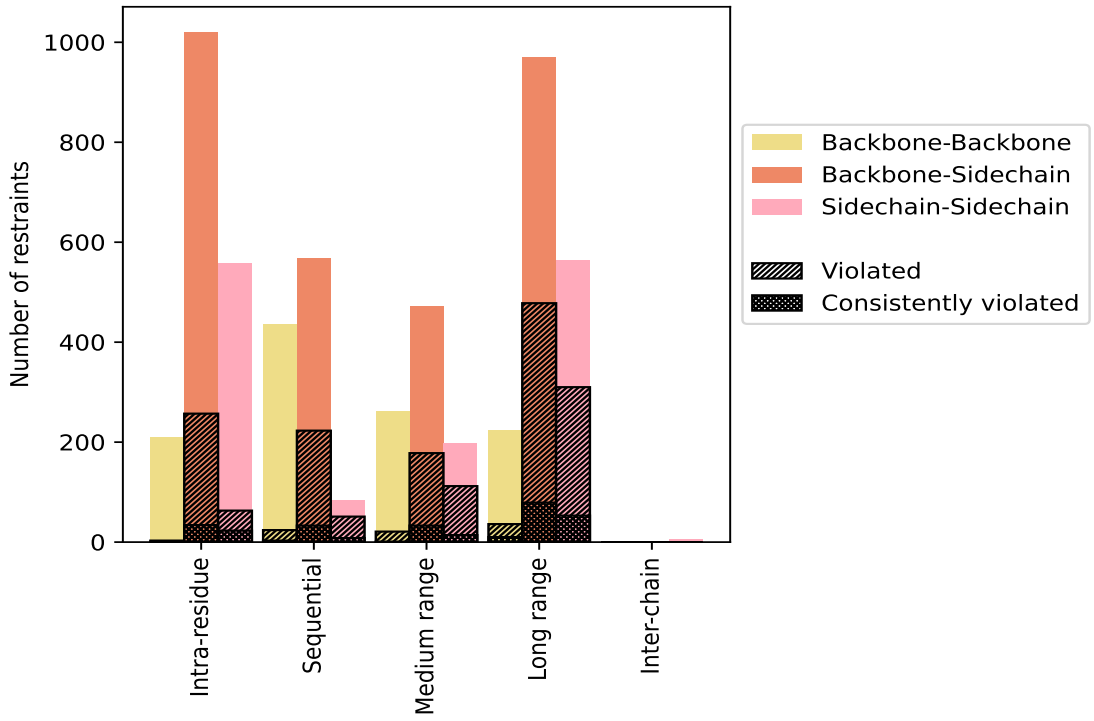
9.1 Summary of distance violations (i)

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.

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	1786	32.1	323	18.1	5.8	58	3.2	1.0
Backbone-Backbone	209	3.8	3	1.4	0.1	1	0.5	0.0
Backbone-Sidechain	1020	18.3	257	25.2	4.6	34	3.3	0.6
Sidechain-Sidechain	557	10.0	63	11.3	1.1	23	4.1	0.4
Sequential (|i-j|=1)	1086	19.5	298	27.4	5.4	44	4.1	0.8
Backbone-Backbone	436	7.8	24	5.5	0.4	3	0.7	0.1
Backbone-Sidechain	567	10.2	223	39.3	4.0	33	5.8	0.6
Sidechain-Sidechain	83	1.5	51	61.4	0.9	8	9.6	0.1
Medium range (|i-j|>1 & |i-j|<5)	929	16.7	311	33.5	5.6	48	5.2	0.9
Backbone-Backbone	261	4.7	21	8.0	0.4	1	0.4	0.0
Backbone-Sidechain	471	8.5	178	37.8	3.2	33	7.0	0.6
Sidechain-Sidechain	197	3.5	112	56.9	2.0	14	7.1	0.3
Long range (|i-j|≥5)	1756	31.6	824	46.9	14.8	142	8.1	2.6
Backbone-Backbone	223	4.0	36	16.1	0.6	10	4.5	0.2
Backbone-Sidechain	970	17.4	478	49.3	8.6	79	8.1	1.4
Sidechain-Sidechain	563	10.1	310	55.1	5.6	53	9.4	1.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
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	5562	100.0	1756	31.6	31.6	292	5.2	5.2
Backbone-Backbone	1129	20.3	84	7.4	1.5	15	1.3	0.3
Backbone-Sidechain	3028	54.4	1136	37.5	20.4	179	5.9	3.2
Sidechain-Sidechain	1405	25.3	536	38.1	9.6	98	7.0	1.8

[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



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

9.2 Distance violation statistics for each model

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	180	195	159	333	0	867	0.57	3.28	0.46	0.43
2	186	193	170	361	0	910	0.61	3.35	0.51	0.46
3	188	197	165	350	0	900	0.59	3.75	0.5	0.43
4	175	200	166	355	0	896	0.6	3.57	0.5	0.45
5	186	195	172	344	0	897	0.62	3.58	0.52	0.47
6	187	197	172	356	0	912	0.65	4.01	0.57	0.47
7	172	202	155	345	0	874	0.6	3.18	0.49	0.45
8	173	193	163	347	0	876	0.57	2.68	0.45	0.45
9	178	186	163	346	0	873	0.59	3.44	0.5	0.44
10	179	188	176	354	0	897	0.6	3.6	0.5	0.44

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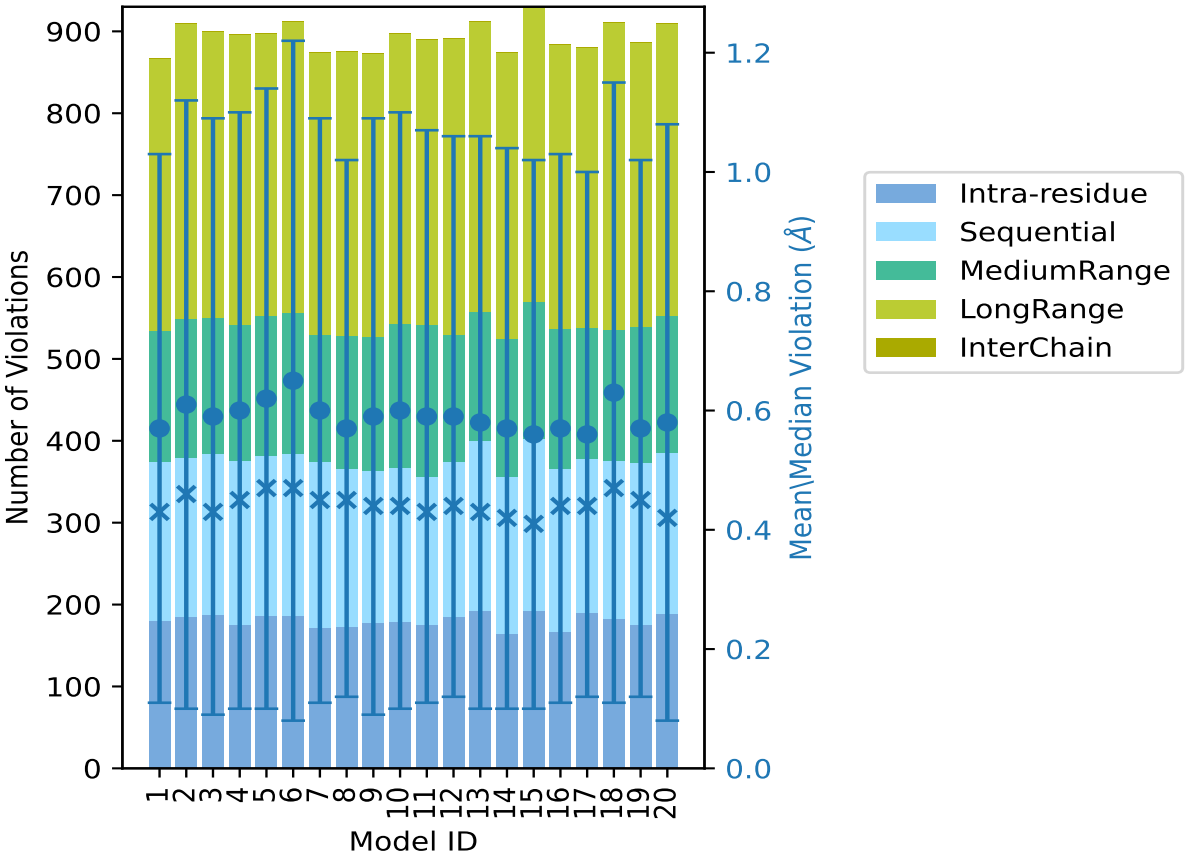
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
11	175	181	186	348	0	890	0.59	4.2	0.48	0.43
12	185	189	156	361	0	891	0.59	2.79	0.47	0.44
13	192	208	157	355	0	912	0.58	3.62	0.48	0.43
14	164	192	169	349	0	874	0.57	3.01	0.47	0.42
15	192	210	168	360	0	930	0.56	3.45	0.46	0.41
16	167	199	171	347	0	884	0.57	3.12	0.46	0.44
17	190	188	160	342	0	880	0.56	3.08	0.44	0.44
18	183	192	161	375	0	911	0.63	3.65	0.52	0.47
19	176	197	167	347	0	887	0.57	3.01	0.45	0.45
20	189	196	168	357	0	910	0.58	4.0	0.5	0.42

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

9.2.1 Bar graph : Distance Violation statistics for each model



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

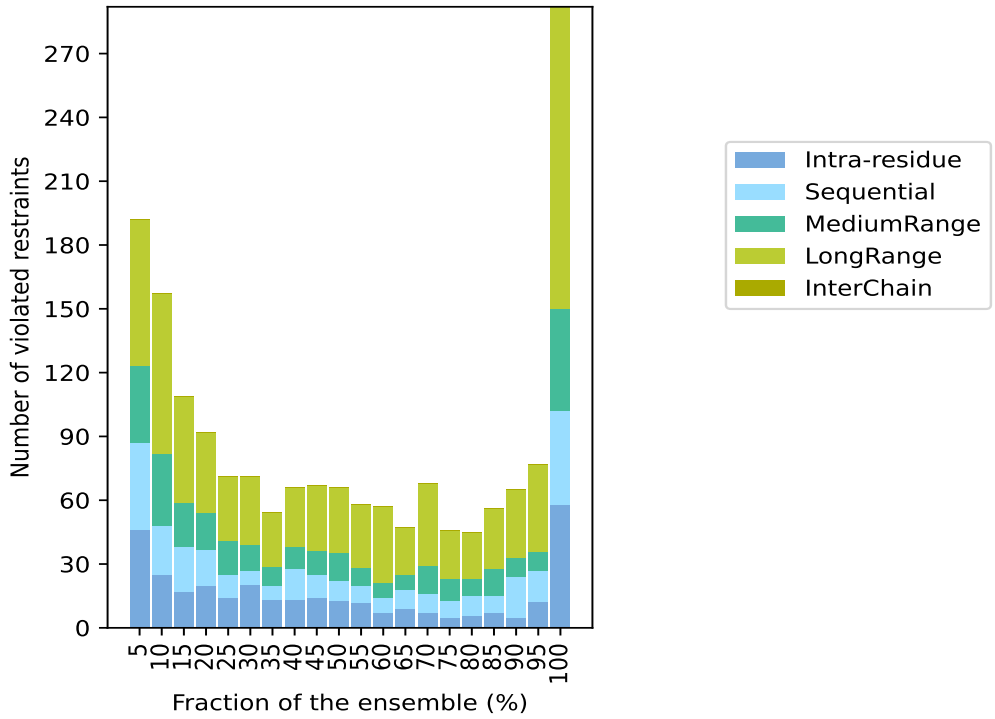
9.3 Distance violation statistics for the ensemble (i)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 3801(IR:1463, SQ:788, MR:618, LR:932, IC:0) 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]	%
46	41	36	69	0	192	1	5.0
25	23	34	75	0	157	2	10.0
17	21	21	50	0	109	3	15.0
20	17	17	38	0	92	4	20.0
14	11	16	30	0	71	5	25.0
20	7	12	32	0	71	6	30.0
13	7	9	25	0	54	7	35.0
13	15	10	28	0	66	8	40.0
14	11	11	31	0	67	9	45.0
13	9	13	31	0	66	10	50.0
12	8	8	30	0	58	11	55.0
7	7	7	36	0	57	12	60.0
9	9	7	22	0	47	13	65.0
7	9	13	39	0	68	14	70.0
5	8	10	23	0	46	15	75.0
6	9	8	22	0	45	16	80.0
7	8	13	28	0	56	17	85.0
5	19	9	32	0	65	18	90.0
12	15	9	41	0	77	19	95.0
58	44	48	142	0	292	20	100.0

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

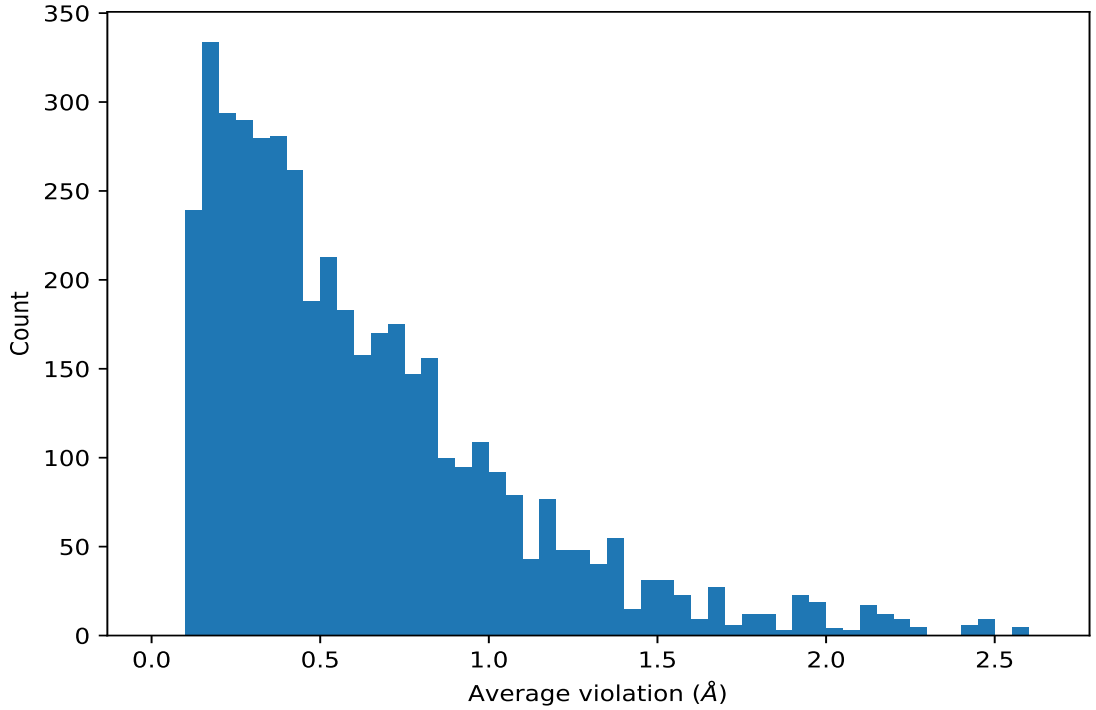
9.3.1 Bar graph : Distance violation statistics for the ensemble



9.4 Most violated distance restraints in the ensemble

9.4.1 Histogram : Distribution of mean distance violations

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

The following table provides the mean and the standard deviation of theviolation 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)
(3,1531)	1:113:A:GLN:HG3	1:146:A:ILE:HD12	20	2.48	0.15	2.47
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD12	20	2.48	0.15	2.47
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD11	20	2.48	0.15	2.47
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD13	20	2.48	0.15	2.47
(3,1531)	1:113:A:GLN:HG3	1:146:A:ILE:HD11	20	2.48	0.15	2.47
(3,1531)	1:113:A:GLN:HG3	1:146:A:ILE:HD13	20	2.48	0.15	2.47
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD23	20	2.42	0.71	2.18
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	20	2.42	0.71	2.18
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD22	20	2.42	0.71	2.18
(3,1753)	1:14:A:LEU:HD22	1:33:A:GLU:HB3	20	2.24	0.8	2.12
(3,1753)	1:14:A:LEU:HD21	1:33:A:GLU:HB3	20	2.24	0.8	2.12
(3,1753)	1:14:A:LEU:HD23	1:33:A:GLU:HB3	20	2.24	0.8	2.12
(3,450)	1:99:A:TYR:HB2	1:110:A:ILE:HG12	20	2.16	0.19	2.21
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	20	2.16	0.19	2.21
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD13	20	2.16	0.19	2.21
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD22	20	2.16	0.19	2.21

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD23	20	2.16	0.19	2.21
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD11	20	2.16	0.19	2.21
(3,1291)	1:101:A:VAL:HG13	1:110:A:ILE:HB	20	2.13	0.61	2.4
(3,1291)	1:101:A:VAL:HG12	1:110:A:ILE:HB	20	2.13	0.61	2.4
(3,1291)	1:101:A:VAL:HG11	1:110:A:ILE:HB	20	2.13	0.61	2.4
(3,2364)	1:46:A:VAL:HG11	1:47:A:ASN:HB3	20	1.98	0.5	2.22
(3,2364)	1:46:A:VAL:HG13	1:47:A:ASN:HB2	20	1.98	0.5	2.22
(3,2364)	1:46:A:VAL:HG12	1:47:A:ASN:HB2	20	1.98	0.5	2.22
(3,2364)	1:46:A:VAL:HG11	1:47:A:ASN:HB2	20	1.98	0.5	2.22
(3,2364)	1:46:A:VAL:HG12	1:47:A:ASN:HB3	20	1.98	0.5	2.22
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG23	20	1.96	0.08	1.97
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG21	20	1.96	0.08	1.97
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG22	20	1.96	0.08	1.97
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG21	20	1.91	1.4	0.93
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG23	20	1.91	1.4	0.93
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG22	20	1.91	1.4	0.93
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HB3	20	1.87	0.76	1.67
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HD3	20	1.87	0.76	1.67
(1,1593)	1:64:A:GLN:HE21	1:145:A:ARG:HB3	20	1.87	0.76	1.67
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	20	1.79	0.05	1.8
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	20	1.76	0.59	2.04
(3,692)	1:133:A:LYS:HB3	1:134:A:SER:HB3	20	1.76	0.59	2.04
(3,692)	1:107:A:LEU:HB2	1:111:A:SER:HB3	20	1.76	0.59	2.04
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	20	1.7	0.9	2.33
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	20	1.7	0.9	2.33
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	20	1.7	0.9	2.33
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG12	20	1.67	0.68	1.89
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG11	20	1.67	0.68	1.89
(1,733)	1:70:A:ILE:H	1:74:A:VAL:HG12	20	1.67	0.68	1.89
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG13	20	1.67	0.68	1.89
(1,733)	1:70:A:ILE:H	1:74:A:VAL:HG11	20	1.67	0.68	1.89
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG22	20	1.58	0.35	1.62
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG21	20	1.58	0.35	1.62
(1,117)	1:10:A:ALA:H	1:143:A:VAL:HG13	20	1.58	0.35	1.62
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG23	20	1.58	0.35	1.62
(1,117)	1:10:A:ALA:H	1:143:A:VAL:HG12	20	1.58	0.35	1.62
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG12	20	1.5	0.28	1.4
(1,530)	1:3:A:LEU:HD13	1:51:A:ALA:H	20	1.5	0.28	1.4
(1,530)	1:31:A:VAL:HG11	1:51:A:ALA:H	20	1.5	0.28	1.4
(1,530)	1:31:A:VAL:HG13	1:51:A:ALA:H	20	1.5	0.28	1.4
(1,530)	1:3:A:LEU:HD11	1:51:A:ALA:H	20	1.5	0.28	1.4
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG13	20	1.5	0.28	1.4

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG11	20	1.5	0.28	1.4
(1,530)	1:3:A:LEU:HD22	1:51:A:ALA:H	20	1.5	0.28	1.4
(1,530)	1:3:A:LEU:HD23	1:51:A:ALA:H	20	1.5	0.28	1.4
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG22	20	1.49	0.13	1.47
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG23	20	1.49	0.13	1.47
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG21	20	1.49	0.13	1.47
(1,998)	1:72:A:VAL:HG23	1:98:A:PHE:H	20	1.46	0.41	1.38
(1,998)	1:72:A:VAL:HG21	1:98:A:PHE:H	20	1.46	0.41	1.38
(1,998)	1:72:A:VAL:HG22	1:98:A:PHE:H	20	1.46	0.41	1.38
(1,998)	1:72:A:VAL:HG13	1:98:A:PHE:H	20	1.46	0.41	1.38
(1,998)	1:72:A:VAL:HG12	1:98:A:PHE:H	20	1.46	0.41	1.38
(1,998)	1:71:A:LEU:HD11	1:98:A:PHE:H	20	1.46	0.41	1.38
(1,998)	1:71:A:LEU:HD23	1:98:A:PHE:H	20	1.46	0.41	1.38
(3,2479)	1:132:A:LEU:HD22	1:139:A:TYR:H	20	1.45	0.51	1.14
(3,2479)	1:132:A:LEU:HD23	1:139:A:TYR:H	20	1.45	0.51	1.14
(3,2479)	1:132:A:LEU:HD21	1:139:A:TYR:H	20	1.45	0.51	1.14
(3,2479)	1:132:A:LEU:HD21	1:139:A:TYR:HD1	20	1.45	0.51	1.14
(3,2479)	1:132:A:LEU:HD22	1:139:A:TYR:HD1	20	1.45	0.51	1.14
(3,1122)	1:57:A:VAL:HG12	1:58:A:THR:HB	20	1.38	0.24	1.35
(3,1122)	1:57:A:VAL:HG21	1:58:A:THR:HB	20	1.38	0.24	1.35
(3,1122)	1:57:A:VAL:HG22	1:58:A:THR:HB	20	1.38	0.24	1.35
(3,1122)	1:57:A:VAL:HG13	1:58:A:THR:HB	20	1.38	0.24	1.35
(3,1122)	1:57:A:VAL:HG11	1:58:A:THR:HB	20	1.38	0.24	1.35
(3,1122)	1:57:A:VAL:HG23	1:58:A:THR:HB	20	1.38	0.24	1.35
(3,1122)	1:46:A:VAL:HG23	1:58:A:THR:HB	20	1.38	0.24	1.35
(3,1122)	1:46:A:VAL:HG22	1:58:A:THR:HB	20	1.38	0.24	1.35
(3,2159)	1:113:A:GLN:H	1:124:A:ILE:HD13	20	1.36	0.06	1.37
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD11	20	1.36	0.06	1.37
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD13	20	1.36	0.06	1.37
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD12	20	1.36	0.06	1.37
(3,2159)	1:113:A:GLN:H	1:124:A:ILE:HD11	20	1.36	0.06	1.37
(3,1355)	1:48:A:ILE:HG22	1:49:A:GLN:HG3	20	1.36	0.14	1.32
(3,1355)	1:48:A:ILE:HG23	1:49:A:GLN:HG2	20	1.36	0.14	1.32
(3,1355)	1:48:A:ILE:HG23	1:49:A:GLN:HG3	20	1.36	0.14	1.32
(3,1355)	1:49:A:GLN:HG2	1:50:A:ILE:HD13	20	1.36	0.14	1.32
(3,1355)	1:48:A:ILE:HG21	1:49:A:GLN:HG3	20	1.36	0.14	1.32
(3,1355)	1:49:A:GLN:HG2	1:50:A:ILE:HD11	20	1.36	0.14	1.32
(3,1401)	1:29:A:LYS:HG3	1:33:A:GLU:HB2	20	1.36	0.19	1.43
(3,1401)	1:113:A:GLN:HB2	1:114:A:VAL:HB	20	1.36	0.19	1.43
(3,1401)	1:33:A:GLU:HB2	1:37:A:LYS:HG2	20	1.36	0.19	1.43
(1,1849)	1:101:A:VAL:HG23	1:106:A:THR:H	20	1.34	0.26	1.42
(1,1849)	1:101:A:VAL:HG21	1:106:A:THR:H	20	1.34	0.26	1.42

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1849)	1:101:A:VAL:HG22	1:106:A:THR:H	20	1.34	0.26	1.42
(1,797)	1:43:A:ALA:HB1	1:73:A:ALA:H	20	1.32	0.2	1.31
(1,797)	1:43:A:ALA:HB3	1:73:A:ALA:H	20	1.32	0.2	1.31
(1,797)	1:43:A:ALA:HB2	1:73:A:ALA:H	20	1.32	0.2	1.31
(3,1423)	1:46:A:VAL:HG23	1:47:A:ASN:HB2	20	1.3	0.36	1.38
(3,1423)	1:47:A:ASN:HB3	1:48:A:ILE:HD13	20	1.3	0.36	1.38
(3,1423)	1:47:A:ASN:HB3	1:48:A:ILE:HD11	20	1.3	0.36	1.38
(3,1423)	1:46:A:VAL:HG21	1:47:A:ASN:HB2	20	1.3	0.36	1.38
(3,1423)	1:46:A:VAL:HG22	1:47:A:ASN:HB2	20	1.3	0.36	1.38
(3,1423)	1:46:A:VAL:HG21	1:47:A:ASN:HB3	20	1.3	0.36	1.38
(3,1423)	1:47:A:ASN:HB2	1:48:A:ILE:HD12	20	1.3	0.36	1.38
(3,1423)	1:47:A:ASN:HB2	1:48:A:ILE:HD11	20	1.3	0.36	1.38
(3,1423)	1:46:A:VAL:HG23	1:47:A:ASN:HB3	20	1.3	0.36	1.38
(3,1423)	1:47:A:ASN:HB3	1:48:A:ILE:HD12	20	1.3	0.36	1.38
(3,2012)	1:31:A:VAL:HG12	1:32:A:GLN:HG3	20	1.29	0.72	0.94
(3,2012)	1:31:A:VAL:HG11	1:32:A:GLN:HG2	20	1.29	0.72	0.94
(3,2012)	1:31:A:VAL:HG13	1:32:A:GLN:HG2	20	1.29	0.72	0.94
(3,2012)	1:97:A:GLN:HG2	1:143:A:VAL:HG12	20	1.29	0.72	0.94
(3,2012)	1:97:A:GLN:HG2	1:124:A:ILE:HG22	20	1.29	0.72	0.94
(3,2012)	1:97:A:GLN:HG2	1:143:A:VAL:HG13	20	1.29	0.72	0.94
(3,2012)	1:31:A:VAL:HG12	1:32:A:GLN:HG2	20	1.29	0.72	0.94
(3,2012)	1:31:A:VAL:HG13	1:32:A:GLN:HG3	20	1.29	0.72	0.94
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	20	1.28	0.33	1.43
(3,2417)	1:6:A:PHE:HB2	1:143:A:VAL:HG12	20	1.26	0.63	1.67
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG12	20	1.26	0.63	1.67
(3,2417)	1:6:A:PHE:HB2	1:143:A:VAL:HG11	20	1.26	0.63	1.67
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG13	20	1.26	0.63	1.67
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG11	20	1.26	0.63	1.67
(3,2417)	1:6:A:PHE:HB2	1:143:A:VAL:HG13	20	1.26	0.63	1.67
(1,1023)	1:100:A:THR:H	1:146:A:ILE:HG13	20	1.25	0.27	1.33
(1,1023)	1:100:A:THR:H	1:101:A:VAL:HG13	20	1.25	0.27	1.33
(1,1023)	1:100:A:THR:H	1:101:A:VAL:HG12	20	1.25	0.27	1.33
(1,1023)	1:7:A:VAL:HG23	1:100:A:THR:H	20	1.25	0.27	1.33
(1,1023)	1:7:A:VAL:HG21	1:100:A:THR:H	20	1.25	0.27	1.33
(1,1023)	1:100:A:THR:H	1:101:A:VAL:HG11	20	1.25	0.27	1.33
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB1	20	1.25	0.33	1.36
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB3	20	1.25	0.33	1.36
(1,489)	1:48:A:ILE:H	1:50:A:ILE:HG13	20	1.25	0.33	1.36
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB2	20	1.25	0.33	1.36
(1,489)	1:48:A:ILE:H	1:58:A:THR:HG21	20	1.25	0.33	1.36
(3,1743)	1:47:A:ASN:HB3	1:58:A:THR:HG23	20	1.25	0.2	1.2
(3,1743)	1:47:A:ASN:HB3	1:58:A:THR:HG21	20	1.25	0.2	1.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG22	20	1.25	0.2	1.2
(3,1743)	1:47:A:ASN:HB3	1:58:A:THR:HG22	20	1.25	0.2	1.2
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG23	20	1.25	0.2	1.2
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG21	20	1.25	0.2	1.2
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB1	20	1.24	0.1	1.27
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB2	20	1.24	0.1	1.27
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB3	20	1.24	0.1	1.27
(3,1013)	1:17:A:ALA:HB2	1:18:A:VAL:HA	20	1.24	0.1	1.27
(3,1013)	1:93:A:ALA:HB1	1:94:A:THR:HA	20	1.24	0.1	1.27
(3,1013)	1:17:A:ALA:HB1	1:18:A:VAL:HA	20	1.24	0.1	1.27
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD11	20	1.24	0.12	1.22
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD13	20	1.24	0.12	1.22
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD12	20	1.24	0.12	1.22
(3,2320)	1:107:A:LEU:HA	1:146:A:ILE:HD13	20	1.24	0.12	1.22
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD13	20	1.22	0.6	1.26
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD12	20	1.22	0.6	1.26
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD11	20	1.22	0.6	1.26
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	20	1.2	0.31	1.25
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE2	20	1.2	0.31	1.25
(3,1912)	1:12:A:GLU:HG3	1:77:A:ILE:HD12	20	1.19	0.15	1.19
(3,1912)	1:12:A:GLU:HG2	1:77:A:ILE:HD11	20	1.19	0.15	1.19
(3,1912)	1:35:A:LEU:HG	1:77:A:ILE:HD11	20	1.19	0.15	1.19
(3,1912)	1:12:A:GLU:HG2	1:77:A:ILE:HD13	20	1.19	0.15	1.19
(3,1912)	1:35:A:LEU:HG	1:77:A:ILE:HD13	20	1.19	0.15	1.19
(3,1912)	1:12:A:GLU:HG3	1:77:A:ILE:HD11	20	1.19	0.15	1.19
(3,1912)	1:12:A:GLU:HG3	1:77:A:ILE:HD13	20	1.19	0.15	1.19
(3,1912)	1:35:A:LEU:HG	1:77:A:ILE:HD12	20	1.19	0.15	1.19
(3,1912)	1:12:A:GLU:HG2	1:77:A:ILE:HD12	20	1.19	0.15	1.19
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	20	1.18	0.17	1.16
(1,815)	1:35:A:LEU:HB2	1:43:A:ALA:H	20	1.18	0.17	1.16
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG11	20	1.18	0.35	1.0
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG22	20	1.18	0.35	1.0
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG21	20	1.18	0.35	1.0
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG12	20	1.18	0.35	1.0
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG13	20	1.18	0.35	1.0
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG23	20	1.18	0.35	1.0
(3,1274)	1:101:A:VAL:HG13	1:106:A:THR:HA	20	1.17	0.56	1.44
(3,1274)	1:101:A:VAL:HG12	1:105:A:ASP:HA	20	1.17	0.56	1.44
(3,1274)	1:101:A:VAL:HG11	1:105:A:ASP:HA	20	1.17	0.56	1.44
(3,1274)	1:101:A:VAL:HG13	1:105:A:ASP:HA	20	1.17	0.56	1.44
(3,1274)	1:100:A:THR:HA	1:101:A:VAL:HG12	20	1.17	0.56	1.44
(3,1274)	1:101:A:VAL:HG11	1:106:A:THR:HA	20	1.17	0.56	1.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1274)	1:100:A:THR:HA	1:101:A:VAL:HG13	20	1.17	0.56	1.44
(3,1274)	1:101:A:VAL:HG12	1:106:A:THR:HA	20	1.17	0.56	1.44
(3,1274)	1:100:A:THR:HA	1:101:A:VAL:HG11	20	1.17	0.56	1.44
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	20	1.15	0.24	1.22
(1,1853)	1:11:A:GLY:H	1:133:A:LYS:HD2	20	1.15	0.24	1.22
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG22	20	1.14	0.84	0.74
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG23	20	1.14	0.84	0.74
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG21	20	1.14	0.84	0.74
(3,481)	1:115:A:TYR:HA	1:120:A:LEU:HD22	20	1.12	0.45	1.1
(3,481)	1:115:A:TYR:HA	1:146:A:ILE:HG21	20	1.12	0.45	1.1
(3,481)	1:115:A:TYR:HA	1:146:A:ILE:HG23	20	1.12	0.45	1.1
(3,481)	1:115:A:TYR:HA	1:146:A:ILE:HG22	20	1.12	0.45	1.1
(3,481)	1:115:A:TYR:HA	1:120:A:LEU:HD23	20	1.12	0.45	1.1
(3,481)	1:115:A:TYR:HA	1:120:A:LEU:HD21	20	1.12	0.45	1.1
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG22	20	1.12	0.05	1.11
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG21	20	1.12	0.05	1.11
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG23	20	1.12	0.05	1.11
(3,93)	1:50:A:ILE:HG21	1:54:A:LYS:H	20	1.12	0.05	1.11
(3,2363)	1:50:A:ILE:HG21	1:52:A:ASP:HB3	20	1.09	0.32	1.03
(3,2363)	1:50:A:ILE:HG22	1:52:A:ASP:HB3	20	1.09	0.32	1.03
(3,2363)	1:50:A:ILE:HG23	1:52:A:ASP:HB3	20	1.09	0.32	1.03
(3,2363)	1:8:A:LYS:HE2	1:50:A:ILE:HG21	20	1.09	0.32	1.03
(3,2363)	1:8:A:LYS:HE2	1:50:A:ILE:HG23	20	1.09	0.32	1.03
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	20	1.08	0.37	1.02
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	20	1.08	0.37	1.02
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	20	1.08	0.37	1.02
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG21	20	1.08	0.39	1.2
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG22	20	1.08	0.39	1.2
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG23	20	1.08	0.39	1.2
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD12	20	1.06	0.15	1.08
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD13	20	1.06	0.15	1.08
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD11	20	1.06	0.15	1.08
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD23	20	1.06	0.15	1.08
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD22	20	1.06	0.15	1.08
(3,490)	1:138:A:ILE:HA	1:138:A:ILE:HD11	20	1.06	0.15	1.08
(3,490)	1:138:A:ILE:HA	1:138:A:ILE:HD13	20	1.06	0.15	1.08
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG21	20	1.05	0.27	1.19
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG22	20	1.05	0.27	1.19
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG23	20	1.05	0.27	1.19
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG22	20	1.05	0.1	1.04
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG23	20	1.05	0.1	1.04
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG21	20	1.05	0.1	1.04

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1316)	1:31:A:VAL:HG21	1:77:A:ILE:HA	20	1.05	0.1	1.04
(3,1316)	1:31:A:VAL:HG23	1:77:A:ILE:HA	20	1.05	0.1	1.04
(3,1316)	1:31:A:VAL:HG22	1:77:A:ILE:HA	20	1.05	0.1	1.04
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	20	1.05	0.3	1.12
(1,1285)	1:69:A:LYS:HD2	1:127:A:ALA:H	20	1.05	0.3	1.12
(1,1285)	1:69:A:LYS:HD3	1:127:A:ALA:H	20	1.05	0.3	1.12
(1,1285)	1:127:A:ALA:H	1:132:A:LEU:HG	20	1.05	0.3	1.12
(3,1545)	1:146:A:ILE:HG23	1:147:A:PRO:HB2	20	1.03	0.15	1.04
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG21	20	1.03	0.15	1.04
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG23	20	1.03	0.15	1.04
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG22	20	1.03	0.15	1.04
(3,1545)	1:146:A:ILE:HG21	1:147:A:PRO:HB2	20	1.03	0.15	1.04
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	20	1.03	0.12	1.04
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG22	20	1.02	0.14	1.03
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG23	20	1.02	0.14	1.03
(3,728)	1:7:A:VAL:HG22	1:100:A:THR:HB	20	1.02	0.14	1.03
(3,728)	1:7:A:VAL:HG21	1:100:A:THR:HB	20	1.02	0.14	1.03
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG21	20	1.02	0.14	1.03
(3,728)	1:7:A:VAL:HG23	1:100:A:THR:HB	20	1.02	0.14	1.03
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	20	1.01	0.16	1.06
(3,50)	1:36:A:ASN:H	1:37:A:LYS:HG2	20	1.01	0.16	1.06
(3,50)	1:37:A:LYS:HG2	1:38:A:THR:H	20	1.01	0.16	1.06
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG21	20	1.01	0.17	1.06
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG22	20	1.01	0.17	1.06
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG23	20	1.01	0.17	1.06
(3,837)	1:118:A:ALA:HB2	1:120:A:LEU:H	20	1.01	0.05	1.0
(3,837)	1:118:A:ALA:HB1	1:120:A:LEU:H	20	1.01	0.05	1.0
(3,837)	1:118:A:ALA:HB3	1:120:A:LEU:H	20	1.01	0.05	1.0
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG22	20	1.0	0.15	1.03
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG23	20	1.0	0.15	1.03
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG21	20	1.0	0.15	1.03
(1,1140)	1:107:A:LEU:HD23	1:114:A:VAL:H	20	1.0	0.15	1.03
(1,1140)	1:107:A:LEU:HD22	1:114:A:VAL:H	20	1.0	0.15	1.03
(1,1140)	1:107:A:LEU:HD21	1:114:A:VAL:H	20	1.0	0.15	1.03
(3,2415)	1:70:A:ILE:H	1:71:A:LEU:HD13	20	1.0	0.25	1.07
(3,2415)	1:62:A:LEU:HD13	1:70:A:ILE:H	20	1.0	0.25	1.07
(3,2415)	1:71:A:LEU:HD12	1:72:A:VAL:H	20	1.0	0.25	1.07
(3,2415)	1:71:A:LEU:HD11	1:72:A:VAL:H	20	1.0	0.25	1.07
(3,2415)	1:70:A:ILE:H	1:71:A:LEU:HD11	20	1.0	0.25	1.07
(3,2415)	1:71:A:LEU:HD13	1:72:A:VAL:H	20	1.0	0.25	1.07
(3,2415)	1:70:A:ILE:H	1:71:A:LEU:HD12	20	1.0	0.25	1.07
(3,1224)	1:28:A:ALA:HB1	1:31:A:VAL:HB	20	0.99	0.14	1.0

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1224)	1:28:A:ALA:HB2	1:49:A:GLN:HG3	20	0.99	0.14	1.0
(3,1224)	1:28:A:ALA:HB3	1:31:A:VAL:HB	20	0.99	0.14	1.0
(3,1224)	1:28:A:ALA:HB3	1:49:A:GLN:HG2	20	0.99	0.14	1.0
(3,1224)	1:28:A:ALA:HB2	1:31:A:VAL:HB	20	0.99	0.14	1.0
(3,1224)	1:28:A:ALA:HB3	1:49:A:GLN:HG3	20	0.99	0.14	1.0
(3,1224)	1:28:A:ALA:HB1	1:49:A:GLN:HG2	20	0.99	0.14	1.0
(3,1224)	1:28:A:ALA:HB2	1:49:A:GLN:HG2	20	0.99	0.14	1.0
(3,334)	1:115:A:TYR:HD2	1:123:A:LYS:HD3	20	0.99	0.39	0.83
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	20	0.99	0.39	0.83
(3,1692)	1:50:A:ILE:HG23	1:56:A:THR:H	20	0.98	0.24	1.06
(3,1692)	1:50:A:ILE:HG21	1:56:A:THR:H	20	0.98	0.24	1.06
(3,1692)	1:50:A:ILE:HG22	1:56:A:THR:H	20	0.98	0.24	1.06
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD12	20	0.98	0.3	0.9
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD23	20	0.98	0.3	0.9
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD13	20	0.98	0.3	0.9
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD21	20	0.98	0.3	0.9
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD22	20	0.98	0.3	0.9
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD11	20	0.98	0.3	0.9
(3,2142)	1:62:A:LEU:HD13	1:66:A:ALA:H	20	0.98	0.3	0.9
(3,2099)	1:110:A:ILE:HD12	1:115:A:TYR:HD2	20	0.95	0.17	0.95
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	20	0.95	0.17	0.95
(3,2099)	1:110:A:ILE:HD11	1:115:A:TYR:HD2	20	0.95	0.17	0.95
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG22	20	0.95	0.16	0.94
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG21	20	0.95	0.16	0.94
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG23	20	0.95	0.16	0.94
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	20	0.95	0.24	0.94
(3,182)	1:125:A:PHE:HE1	1:135:A:PRO:HD2	20	0.95	0.24	0.94
(1,1415)	1:137:A:LYS:HD2	1:138:A:ILE:H	20	0.94	0.21	0.96
(1,1415)	1:138:A:ILE:H	1:142:A:GLN:HB3	20	0.94	0.21	0.96
(1,1415)	1:107:A:LEU:HB3	1:138:A:ILE:H	20	0.94	0.21	0.96
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG21	20	0.93	0.03	0.93
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG23	20	0.93	0.03	0.93
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG22	20	0.93	0.03	0.93
(3,1511)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	20	0.93	0.08	0.92
(3,1511)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	20	0.93	0.08	0.92
(3,1511)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	20	0.93	0.08	0.92
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG22	20	0.92	0.17	0.9
(3,1215)	1:106:A:THR:HA	1:138:A:ILE:HG22	20	0.92	0.17	0.9
(3,1215)	1:106:A:THR:HA	1:138:A:ILE:HG23	20	0.92	0.17	0.9
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG23	20	0.92	0.17	0.9
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG21	20	0.92	0.17	0.9
(3,1215)	1:106:A:THR:HA	1:138:A:ILE:HG21	20	0.92	0.17	0.9

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2238)	1:107:A:LEU:HD23	1:135:A:PRO:HD2	20	0.9	0.29	0.93
(3,2238)	1:107:A:LEU:HD11	1:135:A:PRO:HD2	20	0.9	0.29	0.93
(3,2238)	1:107:A:LEU:HD12	1:135:A:PRO:HD2	20	0.9	0.29	0.93
(3,2238)	1:107:A:LEU:HD13	1:135:A:PRO:HD2	20	0.9	0.29	0.93
(3,2238)	1:107:A:LEU:HD22	1:135:A:PRO:HD2	20	0.9	0.29	0.93
(3,2238)	1:107:A:LEU:HD21	1:135:A:PRO:HD2	20	0.9	0.29	0.93
(3,910)	1:62:A:LEU:HD21	1:89:A:THR:HB	20	0.89	0.18	0.86
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD23	20	0.89	0.18	0.86
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD13	20	0.89	0.18	0.86
(3,910)	1:62:A:LEU:HD22	1:89:A:THR:HB	20	0.89	0.18	0.86
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD12	20	0.89	0.18	0.86
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD21	20	0.89	0.18	0.86
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD22	20	0.89	0.18	0.86
(3,910)	1:62:A:LEU:HD23	1:89:A:THR:HB	20	0.89	0.18	0.86
(3,910)	1:62:A:LEU:HD11	1:87:A:VAL:HA	20	0.89	0.18	0.86
(3,910)	1:62:A:LEU:HD22	1:87:A:VAL:HA	20	0.89	0.18	0.86
(3,1739)	1:98:A:PHE:HE2	1:143:A:VAL:HG23	20	0.89	0.18	0.96
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG23	20	0.89	0.18	0.96
(3,1739)	1:98:A:PHE:HE2	1:143:A:VAL:HG22	20	0.89	0.18	0.96
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG21	20	0.89	0.18	0.96
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG22	20	0.89	0.18	0.96
(3,1739)	1:98:A:PHE:HE2	1:143:A:VAL:HG21	20	0.89	0.18	0.96
(3,926)	1:35:A:LEU:HD21	1:43:A:ALA:HA	20	0.88	0.79	0.42
(3,926)	1:35:A:LEU:HD23	1:43:A:ALA:HA	20	0.88	0.79	0.42
(3,926)	1:32:A:GLN:HA	1:35:A:LEU:HD23	20	0.88	0.79	0.42
(3,926)	1:32:A:GLN:HA	1:35:A:LEU:HD21	20	0.88	0.79	0.42
(3,926)	1:35:A:LEU:HD22	1:43:A:ALA:HA	20	0.88	0.79	0.42
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD12	20	0.87	0.2	0.9
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD23	20	0.87	0.2	0.9
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD13	20	0.87	0.2	0.9
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD21	20	0.87	0.2	0.9
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD22	20	0.87	0.2	0.9
(3,1034)	1:56:A:THR:HG22	1:85:A:ASP:HA	20	0.87	0.13	0.86
(3,1034)	1:56:A:THR:HG23	1:85:A:ASP:HA	20	0.87	0.13	0.86
(3,1034)	1:56:A:THR:HG21	1:85:A:ASP:HA	20	0.87	0.13	0.86
(3,1034)	1:62:A:LEU:HA	1:91:A:THR:HG21	20	0.87	0.13	0.86
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	20	0.86	0.13	0.92
(1,307)	1:33:A:GLU:H	1:35:A:LEU:HG	20	0.86	0.13	0.92
(1,307)	1:29:A:LYS:HB3	1:33:A:GLU:H	20	0.86	0.13	0.92
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	20	0.86	0.03	0.86
(3,948)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	20	0.86	0.5	0.84
(3,948)	1:107:A:LEU:HD11	1:125:A:PHE:HB3	20	0.86	0.5	0.84

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,948)	1:107:A:LEU:HD13	1:125:A:PHE:HB3	20	0.86	0.5	0.84
(3,948)	1:125:A:PHE:HB3	1:132:A:LEU:HD12	20	0.86	0.5	0.84
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	20	0.85	0.03	0.84
(3,2080)	1:110:A:ILE:HD12	1:113:A:GLN:HG3	20	0.84	0.26	0.74
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	20	0.84	0.26	0.74
(3,2080)	1:110:A:ILE:HD11	1:113:A:GLN:HG3	20	0.84	0.26	0.74
(3,2080)	1:101:A:VAL:HB	1:110:A:ILE:HD13	20	0.84	0.26	0.74
(3,1008)	1:15:A:TRP:H	1:17:A:ALA:HB3	20	0.83	0.19	0.87
(3,1008)	1:15:A:TRP:HZ2	1:17:A:ALA:HB1	20	0.83	0.19	0.87
(3,1008)	1:118:A:ALA:HB3	1:121:A:TYR:HD1	20	0.83	0.19	0.87
(3,1008)	1:15:A:TRP:HZ2	1:17:A:ALA:HB2	20	0.83	0.19	0.87
(3,1008)	1:118:A:ALA:HB1	1:121:A:TYR:HD1	20	0.83	0.19	0.87
(3,1008)	1:15:A:TRP:H	1:17:A:ALA:HB2	20	0.83	0.19	0.87
(3,1008)	1:118:A:ALA:HB2	1:121:A:TYR:HD1	20	0.83	0.19	0.87
(3,1008)	1:15:A:TRP:HZ2	1:17:A:ALA:HB3	20	0.83	0.19	0.87
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG22	20	0.82	0.03	0.82
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG23	20	0.82	0.03	0.82
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG21	20	0.82	0.03	0.82
(1,1024)	1:100:A:THR:H	1:100:A:THR:HG23	20	0.82	0.13	0.86
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG12	20	0.82	0.13	0.86
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG13	20	0.82	0.13	0.86
(1,1024)	1:100:A:THR:H	1:100:A:THR:HG21	20	0.82	0.13	0.86
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG11	20	0.82	0.13	0.86
(1,1024)	1:100:A:THR:H	1:100:A:THR:HG22	20	0.82	0.13	0.86
(1,644)	1:62:A:LEU:H	1:66:A:ALA:HB1	20	0.81	0.29	0.83
(1,644)	1:45:A:LYS:HG3	1:62:A:LEU:H	20	0.81	0.29	0.83
(1,644)	1:62:A:LEU:H	1:67:A:LYS:HB3	20	0.81	0.29	0.83
(1,644)	1:62:A:LEU:H	1:66:A:ALA:HB3	20	0.81	0.29	0.83
(1,644)	1:62:A:LEU:H	1:88:A:LYS:HG3	20	0.81	0.29	0.83
(3,71)	1:50:A:ILE:HD12	1:51:A:ALA:H	20	0.81	0.14	0.78
(3,71)	1:50:A:ILE:HD11	1:51:A:ALA:H	20	0.81	0.14	0.78
(3,71)	1:50:A:ILE:HD13	1:51:A:ALA:H	20	0.81	0.14	0.78
(3,71)	1:31:A:VAL:H	1:50:A:ILE:HD12	20	0.81	0.14	0.78
(3,71)	1:31:A:VAL:H	1:50:A:ILE:HD13	20	0.81	0.14	0.78
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD11	20	0.8	0.12	0.78
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD13	20	0.8	0.12	0.78
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD12	20	0.8	0.12	0.78
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD11	20	0.8	0.15	0.83
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD12	20	0.8	0.15	0.83
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD13	20	0.8	0.15	0.83
(1,842)	1:12:A:GLU:HG3	1:77:A:ILE:H	20	0.8	0.42	0.68
(1,842)	1:77:A:ILE:H	1:143:A:VAL:HB	20	0.8	0.42	0.68

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,842)	1:12:A:GLU:HG2	1:77:A:ILE:H	20	0.8	0.42	0.68
(3,420)	1:131:A:MET:HE2	1:132:A:LEU:HD11	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE2	1:132:A:LEU:HD22	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE3	1:132:A:LEU:HD13	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE3	1:132:A:LEU:HD23	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE1	1:132:A:LEU:HD23	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE2	1:132:A:LEU:HD12	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE1	1:132:A:LEU:HD12	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE1	1:132:A:LEU:HD13	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE3	1:132:A:LEU:HD11	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE2	1:132:A:LEU:HD13	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE3	1:132:A:LEU:HD21	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE3	1:132:A:LEU:HD12	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE1	1:132:A:LEU:HD11	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE1	1:132:A:LEU:HD21	20	0.8	0.2	0.8
(3,420)	1:131:A:MET:HE2	1:132:A:LEU:HD23	20	0.8	0.2	0.8
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD11	20	0.8	0.49	0.77
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD12	20	0.8	0.49	0.77
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD13	20	0.8	0.49	0.77
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	20	0.79	0.24	0.9
(3,2124)	1:115:A:TYR:HA	1:149:A:GLU:HB3	20	0.79	0.24	0.9
(1,1977)	1:55:A:ALA:HB2	1:74:A:VAL:H	20	0.79	0.2	0.77
(1,1977)	1:55:A:ALA:HB1	1:74:A:VAL:H	20	0.79	0.2	0.77
(1,1977)	1:55:A:ALA:HB3	1:74:A:VAL:H	20	0.79	0.2	0.77
(1,1977)	1:43:A:ALA:HB2	1:74:A:VAL:H	20	0.79	0.2	0.77
(1,848)	1:7:A:VAL:H	1:75:A:GLY:HA2	20	0.78	0.21	0.82
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG23	20	0.78	0.21	0.82
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG22	20	0.78	0.21	0.82
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG21	20	0.78	0.21	0.82
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	20	0.78	0.1	0.78
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD13	20	0.78	0.08	0.76
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD12	20	0.78	0.08	0.76
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD11	20	0.78	0.08	0.76
(1,1282)	1:107:A:LEU:HD12	1:126:A:GLU:H	20	0.78	0.38	0.67
(1,1282)	1:107:A:LEU:HD11	1:126:A:GLU:H	20	0.78	0.38	0.67
(1,1282)	1:107:A:LEU:HD13	1:126:A:GLU:H	20	0.78	0.38	0.67
(1,1282)	1:126:A:GLU:H	1:132:A:LEU:HD11	20	0.78	0.38	0.67
(1,1282)	1:126:A:GLU:H	1:132:A:LEU:HD12	20	0.78	0.38	0.67
(1,1282)	1:124:A:ILE:HG13	1:126:A:GLU:H	20	0.78	0.38	0.67
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG12	20	0.77	0.34	0.68
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG11	20	0.77	0.34	0.68
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG13	20	0.77	0.34	0.68

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1043)	1:114:A:VAL:HG11	1:115:A:TYR:HD2	20	0.77	0.34	0.68
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG12	20	0.77	0.07	0.8
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG11	20	0.77	0.07	0.8
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG13	20	0.77	0.07	0.8
(3,1578)	1:127:A:ALA:HB2	1:147:A:PRO:HD2	20	0.74	0.08	0.72
(3,1578)	1:127:A:ALA:HB3	1:147:A:PRO:HD2	20	0.74	0.08	0.72
(3,1578)	1:127:A:ALA:HB1	1:147:A:PRO:HD2	20	0.74	0.08	0.72
(3,2100)	1:110:A:ILE:HD12	1:113:A:GLN:H	20	0.74	0.05	0.75
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	20	0.74	0.05	0.75
(3,2100)	1:110:A:ILE:HD11	1:113:A:GLN:H	20	0.74	0.05	0.75
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD12	20	0.73	0.07	0.73
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD11	20	0.73	0.07	0.73
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD13	20	0.73	0.07	0.73
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD11	20	0.73	0.16	0.76
(1,389)	1:31:A:VAL:HG13	1:38:A:THR:H	20	0.73	0.16	0.76
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD13	20	0.73	0.16	0.76
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD12	20	0.73	0.16	0.76
(1,389)	1:31:A:VAL:HG12	1:38:A:THR:H	20	0.73	0.16	0.76
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	20	0.73	0.18	0.7
(3,2256)	1:44:A:ASP:HB2	1:46:A:VAL:H	20	0.73	0.18	0.7
(3,1275)	1:6:A:PHE:HA	1:143:A:VAL:HG12	20	0.73	0.42	1.0
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG12	20	0.73	0.42	1.0
(3,1275)	1:6:A:PHE:HA	1:143:A:VAL:HG11	20	0.73	0.42	1.0
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG13	20	0.73	0.42	1.0
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG11	20	0.73	0.42	1.0
(3,1275)	1:6:A:PHE:HA	1:143:A:VAL:HG13	20	0.73	0.42	1.0
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	20	0.73	0.43	0.67
(3,1246)	1:122:A:ASN:HD21	1:123:A:LYS:HD2	20	0.73	0.43	0.67
(3,1246)	1:115:A:TYR:HE1	1:123:A:LYS:HD3	20	0.73	0.43	0.67
(3,1246)	1:122:A:ASN:HD21	1:123:A:LYS:HD3	20	0.73	0.43	0.67
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	20	0.72	0.12	0.72
(1,1727)	1:60:A:ASP:H	1:89:A:THR:H	20	0.72	0.12	0.72
(3,753)	1:132:A:LEU:HG	1:144:A:LEU:HD12	20	0.72	0.38	0.65
(3,753)	1:144:A:LEU:HB3	1:144:A:LEU:HD12	20	0.72	0.38	0.65
(3,753)	1:144:A:LEU:HB3	1:144:A:LEU:HD13	20	0.72	0.38	0.65
(3,753)	1:132:A:LEU:HG	1:144:A:LEU:HD13	20	0.72	0.38	0.65
(3,753)	1:144:A:LEU:HB3	1:144:A:LEU:HD11	20	0.72	0.38	0.65
(3,753)	1:132:A:LEU:HG	1:144:A:LEU:HD11	20	0.72	0.38	0.65
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG22	20	0.72	0.14	0.7
(3,430)	1:99:A:TYR:HD2	1:114:A:VAL:HG21	20	0.72	0.14	0.7
(3,430)	1:99:A:TYR:HD2	1:114:A:VAL:HG22	20	0.72	0.14	0.7
(3,430)	1:99:A:TYR:HD2	1:114:A:VAL:HG23	20	0.72	0.14	0.7

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG21	20	0.72	0.14	0.7
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG23	20	0.72	0.14	0.7
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG23	20	0.71	0.08	0.72
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG21	20	0.71	0.08	0.72
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG22	20	0.71	0.08	0.72
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG21	20	0.7	0.02	0.71
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG22	20	0.7	0.02	0.71
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG23	20	0.7	0.02	0.71
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	20	0.7	0.12	0.68
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD12	20	0.7	0.18	0.7
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD13	20	0.7	0.18	0.7
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD11	20	0.7	0.18	0.7
(3,715)	1:128:A:ASN:HA	1:144:A:LEU:HD11	20	0.7	0.18	0.7
(3,715)	1:128:A:ASN:HA	1:144:A:LEU:HD12	20	0.7	0.18	0.7
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD12	20	0.7	0.24	0.74
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD11	20	0.7	0.24	0.74
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD13	20	0.7	0.24	0.74
(3,1662)	1:121:A:TYR:HB3	1:124:A:ILE:HD11	20	0.7	0.24	0.74
(1,1265)	1:124:A:ILE:H	1:124:A:ILE:HG23	20	0.7	0.15	0.75
(1,1265)	1:107:A:LEU:HD21	1:124:A:ILE:H	20	0.7	0.15	0.75
(1,1265)	1:107:A:LEU:HD23	1:124:A:ILE:H	20	0.7	0.15	0.75
(1,1265)	1:124:A:ILE:H	1:124:A:ILE:HG22	20	0.7	0.15	0.75
(1,1265)	1:107:A:LEU:HD22	1:124:A:ILE:H	20	0.7	0.15	0.75
(1,1265)	1:124:A:ILE:H	1:124:A:ILE:HG21	20	0.7	0.15	0.75
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG13	20	0.69	0.2	0.73
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG12	20	0.69	0.2	0.73
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG11	20	0.69	0.2	0.73
(3,1558)	1:44:A:ASP:HA	1:46:A:VAL:HG11	20	0.69	0.2	0.73
(3,1558)	1:44:A:ASP:HA	1:46:A:VAL:HG13	20	0.69	0.2	0.73
(3,1558)	1:44:A:ASP:HA	1:46:A:VAL:HG12	20	0.69	0.2	0.73
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	20	0.69	0.01	0.68
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	20	0.69	0.08	0.71
(1,1133)	1:113:A:GLN:H	1:118:A:ALA:HB2	20	0.69	0.08	0.71
(3,2348)	1:31:A:VAL:HG12	1:35:A:LEU:HB2	20	0.68	0.25	0.7
(3,2348)	1:31:A:VAL:HG11	1:35:A:LEU:HB2	20	0.68	0.25	0.7
(3,2348)	1:31:A:VAL:HG13	1:35:A:LEU:HB2	20	0.68	0.25	0.7
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG11	20	0.68	0.25	0.7
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG13	20	0.68	0.25	0.7
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG12	20	0.68	0.25	0.7
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD12	20	0.68	0.12	0.68
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD13	20	0.68	0.12	0.68
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD11	20	0.68	0.12	0.68

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG22	20	0.68	0.22	0.76
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG23	20	0.68	0.22	0.76
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG21	20	0.68	0.22	0.76
(1,487)	1:31:A:VAL:HG12	1:48:A:ILE:H	20	0.68	0.45	0.51
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG13	20	0.68	0.45	0.51
(1,487)	1:31:A:VAL:HG13	1:48:A:ILE:H	20	0.68	0.45	0.51
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG11	20	0.68	0.45	0.51
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG12	20	0.68	0.45	0.51
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD13	20	0.66	0.04	0.68
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD11	20	0.66	0.04	0.68
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD12	20	0.66	0.04	0.68
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	20	0.65	0.03	0.65
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	20	0.65	0.18	0.7
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	20	0.65	0.18	0.7
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	20	0.65	0.18	0.7
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	20	0.65	0.15	0.6
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB3	20	0.65	0.11	0.65
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB1	20	0.65	0.11	0.65
(3,2182)	1:17:A:ALA:HB2	1:21:A:GLN:HB3	20	0.65	0.11	0.65
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB2	20	0.65	0.11	0.65
(3,2182)	1:126:A:GLU:HB2	1:129:A:LYS:HB2	20	0.65	0.11	0.65
(3,2182)	1:126:A:GLU:HB3	1:129:A:LYS:HB2	20	0.65	0.11	0.65
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG23	20	0.65	0.08	0.63
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG21	20	0.65	0.08	0.63
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG22	20	0.65	0.08	0.63
(1,793)	1:40:A:ILE:HG12	1:73:A:ALA:H	20	0.64	0.23	0.68
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HB2	20	0.64	0.23	0.68
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HG3	20	0.64	0.23	0.68
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HG2	20	0.64	0.23	0.68
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	20	0.64	0.05	0.64
(3,1496)	1:99:A:TYR:HD1	1:110:A:ILE:HG13	20	0.64	0.05	0.64
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB3	20	0.64	0.12	0.68
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB2	20	0.64	0.12	0.68
(3,2174)	1:50:A:ILE:HA	1:50:A:ILE:HG13	20	0.64	0.12	0.68
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB1	20	0.64	0.12	0.68
(3,125)	1:100:A:THR:HG22	1:142:A:GLN:H	20	0.64	0.15	0.69
(3,125)	1:100:A:THR:HG23	1:142:A:GLN:H	20	0.64	0.15	0.69
(3,125)	1:100:A:THR:HG21	1:142:A:GLN:H	20	0.64	0.15	0.69
(3,988)	1:114:A:VAL:HG23	1:115:A:TYR:HB3	20	0.64	0.08	0.66
(3,988)	1:114:A:VAL:HG21	1:115:A:TYR:HB3	20	0.64	0.08	0.66
(3,988)	1:114:A:VAL:HG22	1:115:A:TYR:HB3	20	0.64	0.08	0.66
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG11	20	0.63	0.17	0.6

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG13	20	0.63	0.17	0.6
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG12	20	0.63	0.17	0.6
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG21	20	0.63	0.25	0.7
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG22	20	0.63	0.25	0.7
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG23	20	0.63	0.25	0.7
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD11	20	0.63	0.09	0.64
(3,1602)	1:42:A:ASP:HA	1:62:A:LEU:HD23	20	0.63	0.09	0.64
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD13	20	0.63	0.09	0.64
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD12	20	0.63	0.09	0.64
(3,1005)	1:114:A:VAL:HG22	1:115:A:TYR:HE2	20	0.62	0.14	0.62
(3,1005)	1:114:A:VAL:HG23	1:115:A:TYR:HE2	20	0.62	0.14	0.62
(3,1005)	1:114:A:VAL:HG21	1:115:A:TYR:HE2	20	0.62	0.14	0.62
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	20	0.61	0.1	0.61
(3,2114)	1:27:A:GLN:HA	1:30:A:LYS:HA	20	0.61	0.1	0.61
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	20	0.61	0.21	0.62
(3,677)	1:105:A:ASP:HB2	1:109:A:ALA:HB2	20	0.61	0.21	0.62
(3,677)	1:105:A:ASP:HB2	1:109:A:ALA:HB3	20	0.61	0.21	0.62
(3,677)	1:105:A:ASP:HB2	1:109:A:ALA:HB1	20	0.61	0.21	0.62
(3,677)	1:3:A:LEU:HG	1:84:A:ASP:HB2	20	0.61	0.21	0.62
(1,600)	1:59:A:GLY:H	1:87:A:VAL:H	20	0.6	0.05	0.62
(1,600)	1:58:A:THR:H	1:59:A:GLY:H	20	0.6	0.05	0.62
(1,600)	1:59:A:GLY:H	1:60:A:ASP:H	20	0.6	0.05	0.62
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD1	20	0.6	0.14	0.59
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD2	20	0.6	0.14	0.59
(3,1860)	1:66:A:ALA:HB3	1:70:A:ILE:HD12	20	0.6	0.17	0.6
(3,1860)	1:66:A:ALA:HB1	1:70:A:ILE:HD12	20	0.6	0.17	0.6
(3,1860)	1:66:A:ALA:HB2	1:70:A:ILE:HD11	20	0.6	0.17	0.6
(3,1860)	1:66:A:ALA:HB2	1:70:A:ILE:HD12	20	0.6	0.17	0.6
(3,1860)	1:66:A:ALA:HB1	1:70:A:ILE:HD13	20	0.6	0.17	0.6
(3,1860)	1:66:A:ALA:HB3	1:70:A:ILE:HD13	20	0.6	0.17	0.6
(3,1860)	1:66:A:ALA:HB3	1:70:A:ILE:HD11	20	0.6	0.17	0.6
(3,1860)	1:66:A:ALA:HB2	1:70:A:ILE:HD13	20	0.6	0.17	0.6
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	20	0.59	0.14	0.62
(3,1481)	1:38:A:THR:HB	1:130:A:PRO:HD3	20	0.59	0.14	0.62
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD23	20	0.59	0.06	0.6
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD13	20	0.59	0.06	0.6
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD12	20	0.59	0.06	0.6
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD21	20	0.59	0.06	0.6
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD11	20	0.59	0.06	0.6
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG22	20	0.59	0.2	0.62
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG21	20	0.59	0.2	0.62
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG23	20	0.59	0.2	0.62

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	20	0.59	0.08	0.6
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	20	0.58	0.08	0.61
(1,1558)	1:148:A:GLU:HB2	1:149:A:GLU:H	20	0.58	0.08	0.61
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	20	0.58	0.08	0.57
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	20	0.58	0.18	0.55
(3,505)	1:125:A:PHE:HB3	1:125:A:PHE:HE1	20	0.58	0.18	0.55
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD12	20	0.58	0.01	0.58
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD11	20	0.58	0.01	0.58
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD13	20	0.58	0.01	0.58
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	20	0.57	0.12	0.58
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD11	20	0.57	0.09	0.56
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD13	20	0.57	0.09	0.56
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD12	20	0.57	0.09	0.56
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	20	0.57	0.04	0.56
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD13	20	0.56	0.15	0.59
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	20	0.56	0.15	0.59
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD12	20	0.56	0.15	0.59
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	20	0.55	0.16	0.56
(3,1518)	1:146:A:ILE:HD13	1:147:A:PRO:HD3	20	0.55	0.04	0.56
(3,1518)	1:146:A:ILE:HD12	1:147:A:PRO:HD3	20	0.55	0.04	0.56
(3,1518)	1:146:A:ILE:HD11	1:147:A:PRO:HD3	20	0.55	0.04	0.56
(1,579)	1:55:A:ALA:HB1	1:57:A:VAL:H	20	0.55	0.2	0.54
(1,579)	1:55:A:ALA:HB3	1:57:A:VAL:H	20	0.55	0.2	0.54
(1,579)	1:55:A:ALA:HB2	1:57:A:VAL:H	20	0.55	0.2	0.54
(1,579)	1:57:A:VAL:H	1:58:A:THR:HG22	20	0.55	0.2	0.54
(1,579)	1:57:A:VAL:H	1:58:A:THR:HG23	20	0.55	0.2	0.54
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	20	0.55	0.03	0.55
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	20	0.54	0.02	0.55
(1,614)	1:59:A:GLY:H	1:67:A:LYS:HG3	20	0.54	0.2	0.56
(1,614)	1:56:A:THR:HG21	1:59:A:GLY:H	20	0.54	0.2	0.56
(1,614)	1:56:A:THR:HG23	1:59:A:GLY:H	20	0.54	0.2	0.56
(1,614)	1:56:A:THR:HG22	1:59:A:GLY:H	20	0.54	0.2	0.56
(1,614)	1:59:A:GLY:H	1:62:A:LEU:HB2	20	0.54	0.2	0.56
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	20	0.53	0.14	0.52
(3,853)	1:10:A:ALA:HB1	1:11:A:GLY:HA3	20	0.53	0.14	0.52
(3,853)	1:10:A:ALA:HB2	1:11:A:GLY:HA3	20	0.53	0.14	0.52
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE3	20	0.53	0.31	0.48
(3,317)	1:67:A:LYS:HA	1:67:A:LYS:HE2	20	0.53	0.31	0.48
(3,317)	1:112:A:LYS:HA	1:115:A:TYR:HB3	20	0.53	0.31	0.48
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE2	20	0.53	0.31	0.48
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG23	20	0.53	0.16	0.54
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG21	20	0.53	0.16	0.54

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG22	20	0.53	0.16	0.54
(3,1232)	1:28:A:ALA:HB2	1:29:A:LYS:HB2	20	0.53	0.11	0.55
(3,1232)	1:28:A:ALA:HB1	1:29:A:LYS:HB2	20	0.53	0.11	0.55
(3,1232)	1:28:A:ALA:HB3	1:29:A:LYS:HB2	20	0.53	0.11	0.55
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	20	0.52	0.08	0.52
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	20	0.52	0.03	0.52
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG22	20	0.52	0.18	0.54
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	20	0.52	0.18	0.54
(3,2084)	1:110:A:ILE:HG23	1:113:A:GLN:HG3	20	0.52	0.18	0.54
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG21	20	0.52	0.18	0.54
(1,563)	1:56:A:THR:H	1:56:A:THR:HG23	20	0.51	0.04	0.52
(1,563)	1:56:A:THR:H	1:56:A:THR:HG21	20	0.51	0.04	0.52
(1,563)	1:56:A:THR:H	1:56:A:THR:HG22	20	0.51	0.04	0.52
(1,563)	1:54:A:LYS:HG3	1:56:A:THR:H	20	0.51	0.04	0.52
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	20	0.51	0.07	0.5
(3,2135)	1:122:A:ASN:HB3	1:125:A:PHE:H	20	0.51	0.07	0.5
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	20	0.5	0.19	0.61
(1,304)	1:40:A:ILE:HD11	1:132:A:LEU:H	20	0.5	0.14	0.49
(1,304)	1:40:A:ILE:HD13	1:132:A:LEU:H	20	0.5	0.14	0.49
(1,304)	1:40:A:ILE:HD12	1:132:A:LEU:H	20	0.5	0.14	0.49
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	20	0.5	0.07	0.5
(3,48)	1:59:A:GLY:H	1:88:A:LYS:HG3	20	0.5	0.07	0.5
(3,48)	1:122:A:ASN:H	1:123:A:LYS:HG3	20	0.5	0.07	0.5
(3,94)	1:138:A:ILE:HG23	1:139:A:TYR:H	20	0.5	0.04	0.5
(3,94)	1:138:A:ILE:HG21	1:139:A:TYR:H	20	0.5	0.04	0.5
(3,94)	1:138:A:ILE:HG22	1:139:A:TYR:H	20	0.5	0.04	0.5
(3,1928)	1:77:A:ILE:HD12	1:78:A:SER:H	20	0.5	0.07	0.48
(3,1928)	1:77:A:ILE:HD11	1:78:A:SER:H	20	0.5	0.07	0.48
(3,1928)	1:77:A:ILE:HD13	1:78:A:SER:H	20	0.5	0.07	0.48
(3,520)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	20	0.5	0.24	0.44
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	20	0.5	0.24	0.44
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	20	0.5	0.06	0.5
(3,1923)	1:77:A:ILE:HG21	1:80:A:ILE:HB	20	0.49	0.16	0.42
(3,1923)	1:77:A:ILE:HG22	1:80:A:ILE:HB	20	0.49	0.16	0.42
(3,1923)	1:77:A:ILE:HG23	1:80:A:ILE:HB	20	0.49	0.16	0.42
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	20	0.49	0.07	0.49
(1,1170)	1:112:A:LYS:HD2	1:116:A:GLY:H	20	0.49	0.07	0.49
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB3	20	0.49	0.11	0.49
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB2	20	0.49	0.11	0.49
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB1	20	0.49	0.11	0.49
(1,528)	1:50:A:ILE:HG13	1:51:A:ALA:H	20	0.49	0.11	0.49
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	20	0.47	0.17	0.48

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	20	0.47	0.17	0.48
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	20	0.47	0.17	0.48
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	20	0.47	0.08	0.46
(1,273)	1:28:A:ALA:HB1	1:31:A:VAL:H	20	0.47	0.16	0.42
(1,273)	1:29:A:LYS:HG3	1:31:A:VAL:H	20	0.47	0.16	0.42
(1,273)	1:28:A:ALA:HB3	1:31:A:VAL:H	20	0.47	0.16	0.42
(1,273)	1:28:A:ALA:HB2	1:31:A:VAL:H	20	0.47	0.16	0.42
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD11	20	0.47	0.09	0.47
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD13	20	0.47	0.09	0.47
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD12	20	0.47	0.09	0.47
(1,342)	1:31:A:VAL:HG22	1:34:A:HIS:H	20	0.47	0.11	0.44
(1,342)	1:31:A:VAL:HG21	1:34:A:HIS:H	20	0.47	0.11	0.44
(1,342)	1:31:A:VAL:HG23	1:34:A:HIS:H	20	0.47	0.11	0.44
(3,2092)	1:110:A:ILE:HD12	1:111:A:SER:HB2	20	0.47	0.47	0.22
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	20	0.47	0.47	0.22
(3,2092)	1:110:A:ILE:HD11	1:111:A:SER:HB2	20	0.47	0.47	0.22
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	20	0.46	0.02	0.46
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	20	0.46	0.13	0.47
(3,2193)	1:3:A:LEU:HD13	1:85:A:ASP:H	20	0.44	0.11	0.43
(3,2193)	1:3:A:LEU:HD12	1:85:A:ASP:H	20	0.44	0.11	0.43
(3,2193)	1:3:A:LEU:HD11	1:85:A:ASP:H	20	0.44	0.11	0.43
(3,2193)	1:3:A:LEU:HD21	1:85:A:ASP:H	20	0.44	0.11	0.43
(3,2193)	1:3:A:LEU:HD22	1:85:A:ASP:H	20	0.44	0.11	0.43
(3,2193)	1:3:A:LEU:HD23	1:85:A:ASP:H	20	0.44	0.11	0.43
(3,2164)	1:80:A:ILE:HG21	1:83:A:VAL:HA	20	0.44	0.15	0.45
(3,2164)	1:80:A:ILE:HG22	1:83:A:VAL:HA	20	0.44	0.15	0.45
(3,2164)	1:80:A:ILE:HG23	1:83:A:VAL:HA	20	0.44	0.15	0.45
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	20	0.44	0.05	0.44
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	20	0.43	0.04	0.44
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	20	0.43	0.06	0.44
(1,1074)	1:109:A:ALA:H	1:112:A:LYS:HB2	20	0.43	0.06	0.44
(3,2510)	1:110:A:ILE:HD12	1:114:A:VAL:HG11	20	0.42	0.11	0.43
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG13	20	0.42	0.11	0.43
(3,2510)	1:110:A:ILE:HD12	1:114:A:VAL:HG13	20	0.42	0.11	0.43
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG12	20	0.42	0.11	0.43
(3,2510)	1:110:A:ILE:HD11	1:114:A:VAL:HG13	20	0.42	0.11	0.43
(3,2510)	1:110:A:ILE:HD11	1:114:A:VAL:HG11	20	0.42	0.11	0.43
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG11	20	0.42	0.11	0.43
(3,807)	1:72:A:VAL:HG13	1:73:A:ALA:HA	20	0.42	0.23	0.34
(3,807)	1:72:A:VAL:HG12	1:73:A:ALA:HA	20	0.42	0.23	0.34
(3,807)	1:72:A:VAL:HG23	1:73:A:ALA:HA	20	0.42	0.23	0.34
(3,807)	1:72:A:VAL:HG21	1:73:A:ALA:HA	20	0.42	0.23	0.34

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,807)	1:72:A:VAL:HG22	1:73:A:ALA:HA	20	0.42	0.23	0.34
(3,807)	1:72:A:VAL:HG11	1:73:A:ALA:HA	20	0.42	0.23	0.34
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG21	20	0.42	0.05	0.4
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG22	20	0.42	0.05	0.4
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG23	20	0.42	0.05	0.4
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	20	0.42	0.06	0.42
(3,383)	1:64:A:GLN:HG2	1:65:A:GLU:H	20	0.42	0.06	0.42
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	20	0.42	0.02	0.42
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	20	0.41	0.04	0.4
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG21	20	0.41	0.09	0.44
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG22	20	0.41	0.09	0.44
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG23	20	0.41	0.09	0.44
(3,984)	1:114:A:VAL:HG23	1:146:A:ILE:HA	20	0.41	0.09	0.44
(3,2160)	1:124:A:ILE:HG21	1:128:A:ASN:H	20	0.41	0.09	0.38
(3,2160)	1:124:A:ILE:HG22	1:128:A:ASN:H	20	0.41	0.09	0.38
(3,2160)	1:124:A:ILE:HG23	1:128:A:ASN:H	20	0.41	0.09	0.38
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	20	0.4	0.08	0.42
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	20	0.4	0.08	0.42
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	20	0.4	0.14	0.36
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	20	0.4	0.07	0.41
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	20	0.39	0.13	0.38
(3,1229)	1:28:A:ALA:HB1	1:48:A:ILE:HG22	20	0.39	0.16	0.4
(3,1229)	1:28:A:ALA:HB3	1:48:A:ILE:HG23	20	0.39	0.16	0.4
(3,1229)	1:28:A:ALA:HB3	1:48:A:ILE:HG22	20	0.39	0.16	0.4
(3,1229)	1:28:A:ALA:HB3	1:50:A:ILE:HD12	20	0.39	0.16	0.4
(3,1229)	1:28:A:ALA:HB2	1:48:A:ILE:HG23	20	0.39	0.16	0.4
(3,1229)	1:28:A:ALA:HB1	1:48:A:ILE:HG21	20	0.39	0.16	0.4
(3,1229)	1:28:A:ALA:HB3	1:48:A:ILE:HG21	20	0.39	0.16	0.4
(3,1229)	1:28:A:ALA:HB2	1:48:A:ILE:HG22	20	0.39	0.16	0.4
(3,1229)	1:28:A:ALA:HB2	1:48:A:ILE:HG21	20	0.39	0.16	0.4
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	20	0.39	0.12	0.31
(3,164)	1:107:A:LEU:HG	1:122:A:ASN:HA	20	0.39	0.12	0.31
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	20	0.39	0.03	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	20	0.39	0.0	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	20	0.39	0.0	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	20	0.39	0.0	0.39
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	20	0.38	0.03	0.38
(3,95)	1:138:A:ILE:HD13	1:139:A:TYR:H	20	0.38	0.04	0.38
(3,95)	1:138:A:ILE:HD12	1:139:A:TYR:H	20	0.38	0.04	0.38
(3,95)	1:138:A:ILE:HD11	1:139:A:TYR:H	20	0.38	0.04	0.38
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG12	20	0.38	0.06	0.38
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG11	20	0.38	0.06	0.38

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG13	20	0.38	0.06	0.38
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	20	0.38	0.09	0.38
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD11	20	0.37	0.07	0.37
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	20	0.37	0.07	0.37
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD13	20	0.37	0.07	0.37
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	20	0.37	0.14	0.38
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	20	0.37	0.06	0.39
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG21	20	0.37	0.02	0.38
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG22	20	0.37	0.02	0.38
(3,732)	1:19:A:THR:HA	1:19:A:THR:HG22	20	0.37	0.02	0.38
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG23	20	0.37	0.02	0.38
(3,732)	1:19:A:THR:HA	1:19:A:THR:HG23	20	0.37	0.02	0.38
(3,732)	1:19:A:THR:HA	1:19:A:THR:HG21	20	0.37	0.02	0.38
(3,1425)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	20	0.37	0.07	0.38
(3,1425)	1:13:A:LYS:HD2	1:13:A:LYS:HG2	20	0.37	0.07	0.38
(3,1425)	1:13:A:LYS:HD3	1:13:A:LYS:HG2	20	0.37	0.07	0.38
(3,1425)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	20	0.37	0.07	0.38
(3,1425)	1:112:A:LYS:HD2	1:112:A:LYS:HG2	20	0.37	0.07	0.38
(3,791)	1:88:A:LYS:HD3	1:88:A:LYS:HE2	20	0.37	0.02	0.36
(3,791)	1:88:A:LYS:HD2	1:88:A:LYS:HE3	20	0.37	0.02	0.36
(3,791)	1:37:A:LYS:HD2	1:37:A:LYS:HE3	20	0.37	0.02	0.36
(3,791)	1:8:A:LYS:HD3	1:8:A:LYS:HE3	20	0.37	0.02	0.36
(3,791)	1:24:A:LYS:HD2	1:24:A:LYS:HE3	20	0.37	0.02	0.36
(3,791)	1:29:A:LYS:HD3	1:29:A:LYS:HE2	20	0.37	0.02	0.36
(3,791)	1:24:A:LYS:HD3	1:24:A:LYS:HE2	20	0.37	0.02	0.36
(3,791)	1:29:A:LYS:HD2	1:29:A:LYS:HE2	20	0.37	0.02	0.36
(3,791)	1:29:A:LYS:HD2	1:29:A:LYS:HE3	20	0.37	0.02	0.36
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	20	0.37	0.06	0.36
(3,971)	1:38:A:THR:HB	1:131:A:MET:H	20	0.37	0.06	0.36
(1,1166)	1:114:A:VAL:HG12	1:115:A:TYR:H	20	0.36	0.04	0.37
(1,1166)	1:114:A:VAL:HG11	1:115:A:TYR:H	20	0.36	0.04	0.37
(1,1166)	1:114:A:VAL:HG13	1:115:A:TYR:H	20	0.36	0.04	0.37
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	20	0.36	0.07	0.38
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	20	0.36	0.07	0.38
(3,1405)	1:126:A:GLU:HB3	1:126:A:GLU:HG2	20	0.36	0.07	0.38
(3,66)	1:80:A:ILE:HD12	1:81:A:ALA:H	20	0.36	0.06	0.36
(3,66)	1:80:A:ILE:HD13	1:81:A:ALA:H	20	0.36	0.06	0.36
(3,66)	1:80:A:ILE:HD11	1:81:A:ALA:H	20	0.36	0.06	0.36
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	20	0.36	0.14	0.35
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	20	0.35	0.04	0.37
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	20	0.35	0.04	0.37
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	20	0.35	0.04	0.37

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2424)	1:114:A:VAL:HG11	1:146:A:ILE:HG12	20	0.35	0.04	0.37
(3,1268)	1:31:A:VAL:HG11	1:31:A:VAL:HG23	20	0.35	0.05	0.36
(3,1268)	1:31:A:VAL:HG12	1:31:A:VAL:HG22	20	0.35	0.05	0.36
(3,1268)	1:31:A:VAL:HG13	1:31:A:VAL:HG22	20	0.35	0.05	0.36
(3,1268)	1:31:A:VAL:HG11	1:31:A:VAL:HG22	20	0.35	0.05	0.36
(3,1268)	1:31:A:VAL:HG12	1:31:A:VAL:HG23	20	0.35	0.05	0.36
(3,1268)	1:31:A:VAL:HG13	1:31:A:VAL:HG23	20	0.35	0.05	0.36
(3,1268)	1:31:A:VAL:HG11	1:31:A:VAL:HG21	20	0.35	0.05	0.36
(3,1268)	1:31:A:VAL:HG12	1:31:A:VAL:HG21	20	0.35	0.05	0.36
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	20	0.34	0.04	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	20	0.34	0.04	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	20	0.34	0.04	0.33
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	20	0.34	0.04	0.34
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD12	20	0.34	0.05	0.35
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD11	20	0.34	0.05	0.35
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD13	20	0.34	0.05	0.35
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	20	0.34	0.09	0.32
(3,662)	1:23:A:ASP:HB2	1:24:A:LYS:HA	20	0.34	0.09	0.32
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE2	20	0.34	0.09	0.32
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	20	0.33	0.01	0.33
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	20	0.33	0.01	0.33
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	20	0.33	0.06	0.34
(3,990)	1:113:A:GLN:HB3	1:114:A:VAL:HG21	20	0.33	0.15	0.25
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG21	20	0.33	0.15	0.25
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG22	20	0.33	0.15	0.25
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG23	20	0.33	0.15	0.25
(3,990)	1:113:A:GLN:HB3	1:114:A:VAL:HG22	20	0.33	0.15	0.25
(3,990)	1:113:A:GLN:HB3	1:114:A:VAL:HG23	20	0.33	0.15	0.25
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	20	0.33	0.07	0.32
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	20	0.32	0.08	0.32
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	20	0.32	0.08	0.32
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	20	0.32	0.08	0.32
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB2	20	0.32	0.06	0.32
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB1	20	0.32	0.06	0.32
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB3	20	0.32	0.06	0.32
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	20	0.32	0.07	0.35
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB3	20	0.32	0.03	0.33
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB2	20	0.32	0.03	0.33
(3,2004)	1:17:A:ALA:HA	1:17:A:ALA:HB2	20	0.32	0.03	0.33
(3,2004)	1:17:A:ALA:HA	1:17:A:ALA:HB1	20	0.32	0.03	0.33
(3,2004)	1:17:A:ALA:HA	1:17:A:ALA:HB3	20	0.32	0.03	0.33
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB1	20	0.32	0.03	0.33

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,246)	1:29:A:LYS:H	1:30:A:LYS:HD2	20	0.31	0.15	0.27
(1,246)	1:29:A:LYS:H	1:29:A:LYS:HD3	20	0.31	0.15	0.27
(1,246)	1:29:A:LYS:H	1:29:A:LYS:HD2	20	0.31	0.15	0.27
(1,246)	1:29:A:LYS:H	1:30:A:LYS:HD3	20	0.31	0.15	0.27
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	20	0.31	0.1	0.27
(3,733)	1:94:A:THR:HA	1:94:A:THR:HG23	20	0.3	0.02	0.31
(3,733)	1:58:A:THR:HB	1:58:A:THR:HG23	20	0.3	0.02	0.31
(3,733)	1:58:A:THR:HB	1:58:A:THR:HG22	20	0.3	0.02	0.31
(3,733)	1:94:A:THR:HA	1:94:A:THR:HG21	20	0.3	0.02	0.31
(3,733)	1:94:A:THR:HA	1:94:A:THR:HG22	20	0.3	0.02	0.31
(3,733)	1:94:A:THR:HB	1:94:A:THR:HG22	20	0.3	0.02	0.31
(3,733)	1:58:A:THR:HB	1:58:A:THR:HG21	20	0.3	0.02	0.31
(3,733)	1:94:A:THR:HB	1:94:A:THR:HG21	20	0.3	0.02	0.31
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	20	0.3	0.07	0.28
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	20	0.29	0.06	0.29
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	20	0.29	0.06	0.29
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	20	0.29	0.06	0.29
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG21	20	0.29	0.03	0.29
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG22	20	0.29	0.03	0.29
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG23	20	0.29	0.03	0.29
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	20	0.29	0.04	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	20	0.29	0.04	0.31
(1,1217)	1:120:A:LEU:H	1:123:A:LYS:HG3	20	0.29	0.07	0.3
(1,1217)	1:118:A:ALA:HB1	1:120:A:LEU:H	20	0.29	0.07	0.3
(1,1217)	1:118:A:ALA:HB3	1:120:A:LEU:H	20	0.29	0.07	0.3
(1,1217)	1:118:A:ALA:HB2	1:120:A:LEU:H	20	0.29	0.07	0.3
(1,1217)	1:120:A:LEU:H	1:123:A:LYS:HD3	20	0.29	0.07	0.3
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	20	0.29	0.09	0.3
(3,540)	1:150:A:LEU:HB3	1:150:A:LEU:HD22	20	0.28	0.03	0.28
(3,540)	1:3:A:LEU:HD13	1:3:A:LEU:HG	20	0.28	0.03	0.28
(3,540)	1:150:A:LEU:HD23	1:150:A:LEU:HG	20	0.28	0.03	0.28
(3,540)	1:150:A:LEU:HB2	1:150:A:LEU:HD21	20	0.28	0.03	0.28
(3,540)	1:3:A:LEU:HB3	1:3:A:LEU:HD22	20	0.28	0.03	0.28
(3,540)	1:150:A:LEU:HB2	1:150:A:LEU:HD22	20	0.28	0.03	0.28
(3,540)	1:150:A:LEU:HD22	1:150:A:LEU:HG	20	0.28	0.03	0.28
(3,540)	1:3:A:LEU:HB3	1:3:A:LEU:HD13	20	0.28	0.03	0.28
(3,540)	1:3:A:LEU:HD11	1:3:A:LEU:HG	20	0.28	0.03	0.28
(3,540)	1:3:A:LEU:HB3	1:3:A:LEU:HD23	20	0.28	0.03	0.28
(3,540)	1:3:A:LEU:HD12	1:3:A:LEU:HG	20	0.28	0.03	0.28
(3,540)	1:3:A:LEU:HD21	1:3:A:LEU:HG	20	0.28	0.03	0.28
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD11	20	0.28	0.09	0.28
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD13	20	0.28	0.09	0.28

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD12	20	0.28	0.09	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	20	0.28	0.0	0.28
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	20	0.28	0.03	0.28
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	20	0.27	0.03	0.28
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	20	0.27	0.08	0.26
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	20	0.27	0.02	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	20	0.27	0.0	0.27
(3,2352)	1:38:A:THR:HG22	1:40:A:ILE:HD11	20	0.27	0.07	0.26
(3,2352)	1:38:A:THR:HG23	1:40:A:ILE:HD13	20	0.27	0.07	0.26
(3,2352)	1:38:A:THR:HG23	1:40:A:ILE:HD12	20	0.27	0.07	0.26
(3,2352)	1:38:A:THR:HG21	1:40:A:ILE:HD13	20	0.27	0.07	0.26
(3,2352)	1:38:A:THR:HG23	1:40:A:ILE:HD11	20	0.27	0.07	0.26
(3,2352)	1:38:A:THR:HG21	1:40:A:ILE:HD12	20	0.27	0.07	0.26
(3,2352)	1:38:A:THR:HG21	1:40:A:ILE:HD11	20	0.27	0.07	0.26
(3,2352)	1:38:A:THR:HG22	1:40:A:ILE:HD13	20	0.27	0.07	0.26
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	20	0.27	0.11	0.23
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB3	20	0.27	0.11	0.23
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	20	0.26	0.06	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	20	0.26	0.06	0.24
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	20	0.26	0.05	0.26
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	20	0.26	0.16	0.23
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	20	0.26	0.16	0.23
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	20	0.26	0.16	0.23
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	20	0.26	0.02	0.25
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	20	0.25	0.01	0.26
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	20	0.25	0.01	0.25
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	20	0.25	0.05	0.25
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	20	0.25	0.04	0.24
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	20	0.25	0.14	0.2
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	20	0.24	0.03	0.24
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	20	0.24	0.03	0.24
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	20	0.24	0.03	0.24
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	20	0.24	0.08	0.22
(3,1296)	1:87:A:VAL:HB	1:87:A:VAL:HG13	20	0.23	0.06	0.23
(3,1296)	1:46:A:VAL:HB	1:46:A:VAL:HG23	20	0.23	0.06	0.23
(3,1296)	1:87:A:VAL:HB	1:87:A:VAL:HG11	20	0.23	0.06	0.23
(3,1296)	1:46:A:VAL:HB	1:46:A:VAL:HG21	20	0.23	0.06	0.23
(3,1296)	1:87:A:VAL:HB	1:87:A:VAL:HG12	20	0.23	0.06	0.23
(3,1296)	1:46:A:VAL:HB	1:46:A:VAL:HG22	20	0.23	0.06	0.23
(3,1296)	1:83:A:VAL:HB	1:83:A:VAL:HG22	20	0.23	0.06	0.23
(3,1296)	1:46:A:VAL:HG21	1:87:A:VAL:HB	20	0.23	0.06	0.23
(3,1836)	1:148:A:GLU:HB3	1:148:A:GLU:HG2	20	0.23	0.03	0.23

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1836)	1:97:A:GLN:HB2	1:97:A:GLN:HG3	20	0.23	0.03	0.23
(3,1836)	1:148:A:GLU:HB2	1:148:A:GLU:HG3	20	0.23	0.03	0.23
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	20	0.22	0.01	0.22
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB2	20	0.22	0.09	0.2
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB1	20	0.22	0.09	0.2
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB3	20	0.22	0.09	0.2
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	20	0.21	0.04	0.21
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	20	0.21	0.04	0.21
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	20	0.21	0.01	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	20	0.2	0.02	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	20	0.2	0.02	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	20	0.2	0.02	0.21
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	20	0.2	0.03	0.21
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	20	0.2	0.03	0.21
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	20	0.2	0.03	0.21
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	20	0.2	0.01	0.2
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	20	0.2	0.04	0.2
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	20	0.2	0.04	0.2
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	20	0.18	0.03	0.19
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	20	0.18	0.03	0.17
(3,1111)	1:112:A:LYS:HD2	1:112:A:LYS:HE3	20	0.18	0.01	0.18
(3,1111)	1:137:A:LYS:HD3	1:137:A:LYS:HE2	20	0.18	0.01	0.18
(3,1111)	1:45:A:LYS:HD2	1:45:A:LYS:HE3	20	0.18	0.01	0.18
(3,1111)	1:137:A:LYS:HD2	1:137:A:LYS:HE3	20	0.18	0.01	0.18
(3,1111)	1:112:A:LYS:HD3	1:112:A:LYS:HE2	20	0.18	0.01	0.18
(3,1111)	1:112:A:LYS:HD3	1:112:A:LYS:HE3	20	0.18	0.01	0.18
(3,1111)	1:102:A:LYS:HD3	1:102:A:LYS:HE3	20	0.18	0.01	0.18
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	20	0.18	0.02	0.17
(3,1553)	1:48:A:ILE:HB	1:48:A:ILE:HG22	20	0.17	0.01	0.17
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG21	20	0.17	0.01	0.17
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG23	20	0.17	0.01	0.17
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG22	20	0.17	0.01	0.17
(3,1553)	1:48:A:ILE:HB	1:48:A:ILE:HG23	20	0.17	0.01	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	20	0.16	0.02	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	20	0.16	0.02	0.17
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	20	0.16	0.03	0.17
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	20	0.16	0.03	0.17
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	20	0.16	0.03	0.17
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	20	0.16	0.02	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	20	0.16	0.01	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	20	0.16	0.01	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	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)
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	20	0.16	0.03	0.16
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	20	0.15	0.02	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	20	0.15	0.0	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	20	0.14	0.01	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	20	0.14	0.01	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	20	0.14	0.01	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG23	20	0.14	0.01	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG21	20	0.14	0.01	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG22	20	0.14	0.01	0.14
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	20	0.12	0.0	0.12
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG21	19	1.44	0.38	1.54
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG22	19	1.44	0.38	1.54
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG23	19	1.44	0.38	1.54
(1,1583)	1:3:A:LEU:HD12	1:86:A:GLN:HE22	19	1.22	0.49	1.02
(1,1583)	1:3:A:LEU:HD11	1:86:A:GLN:HE22	19	1.22	0.49	1.02
(1,1583)	1:3:A:LEU:HD13	1:86:A:GLN:HE22	19	1.22	0.49	1.02
(1,1583)	1:3:A:LEU:HD23	1:86:A:GLN:HE22	19	1.22	0.49	1.02
(1,1583)	1:3:A:LEU:HD21	1:86:A:GLN:HE22	19	1.22	0.49	1.02
(1,1583)	1:3:A:LEU:HD22	1:86:A:GLN:HE22	19	1.22	0.49	1.02
(3,893)	1:67:A:LYS:HB3	1:87:A:VAL:HG22	19	1.15	0.44	1.05
(3,893)	1:62:A:LEU:HD13	1:67:A:LYS:HB3	19	1.15	0.44	1.05
(3,893)	1:67:A:LYS:HB3	1:71:A:LEU:HD13	19	1.15	0.44	1.05
(3,893)	1:67:A:LYS:HB3	1:71:A:LEU:HD11	19	1.15	0.44	1.05
(3,893)	1:67:A:LYS:HB3	1:71:A:LEU:HD12	19	1.15	0.44	1.05
(3,893)	1:67:A:LYS:HB3	1:87:A:VAL:HG21	19	1.15	0.44	1.05
(3,893)	1:62:A:LEU:HD11	1:67:A:LYS:HB3	19	1.15	0.44	1.05
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	19	1.14	0.95	0.62
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	19	1.14	0.95	0.62
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	19	1.14	0.95	0.62
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	19	1.12	0.13	1.15
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD13	19	1.06	0.32	1.14
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD12	19	1.06	0.32	1.14
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD11	19	1.06	0.32	1.14
(3,1786)	1:128:A:ASN:H	1:132:A:LEU:HD13	19	1.02	0.74	0.48
(3,1786)	1:107:A:LEU:HD12	1:128:A:ASN:H	19	1.02	0.74	0.48
(3,1786)	1:107:A:LEU:HD11	1:128:A:ASN:H	19	1.02	0.74	0.48
(3,1786)	1:128:A:ASN:H	1:132:A:LEU:HD12	19	1.02	0.74	0.48
(3,1786)	1:107:A:LEU:HD13	1:128:A:ASN:H	19	1.02	0.74	0.48
(3,1786)	1:128:A:ASN:H	1:132:A:LEU:HD11	19	1.02	0.74	0.48
(3,1786)	1:107:A:LEU:HD11	1:123:A:LYS:H	19	1.02	0.74	0.48
(3,1786)	1:107:A:LEU:HD13	1:123:A:LYS:H	19	1.02	0.74	0.48
(3,1786)	1:107:A:LEU:HD12	1:123:A:LYS:H	19	1.02	0.74	0.48

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,235)	1:37:A:LYS:HD2	1:38:A:THR:H	19	0.97	0.18	0.99
(3,235)	1:59:A:GLY:H	1:88:A:LYS:HD3	19	0.97	0.18	0.99
(3,235)	1:29:A:LYS:H	1:29:A:LYS:HD2	19	0.97	0.18	0.99
(3,235)	1:29:A:LYS:H	1:29:A:LYS:HD3	19	0.97	0.18	0.99
(3,235)	1:37:A:LYS:HD3	1:38:A:THR:H	19	0.97	0.18	0.99
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	19	0.94	0.12	0.97
(3,1914)	1:77:A:ILE:HD13	1:80:A:ILE:HG13	19	0.93	0.3	1.03
(3,1914)	1:14:A:LEU:HB3	1:77:A:ILE:HD13	19	0.93	0.3	1.03
(3,1914)	1:77:A:ILE:HD12	1:80:A:ILE:HG13	19	0.93	0.3	1.03
(3,1914)	1:77:A:ILE:HD11	1:80:A:ILE:HG13	19	0.93	0.3	1.03
(3,1914)	1:14:A:LEU:HB3	1:77:A:ILE:HD11	19	0.93	0.3	1.03
(3,2368)	1:122:A:ASN:H	1:126:A:GLU:HG3	19	0.92	0.29	0.99
(3,2368)	1:33:A:GLU:HG2	1:36:A:ASN:H	19	0.92	0.29	0.99
(3,2368)	1:66:A:ALA:H	1:68:A:GLU:HG3	19	0.92	0.29	0.99
(3,1057)	1:18:A:VAL:HG11	1:19:A:THR:HA	19	0.87	0.54	0.67
(3,1057)	1:18:A:VAL:HG22	1:19:A:THR:HA	19	0.87	0.54	0.67
(3,1057)	1:107:A:LEU:HD22	1:108:A:SER:HA	19	0.87	0.54	0.67
(3,1057)	1:18:A:VAL:HG13	1:19:A:THR:HA	19	0.87	0.54	0.67
(3,1057)	1:18:A:VAL:HG12	1:19:A:THR:HA	19	0.87	0.54	0.67
(3,1057)	1:18:A:VAL:HG23	1:19:A:THR:HA	19	0.87	0.54	0.67
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	19	0.86	0.41	0.85
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	19	0.85	0.34	0.89
(3,2282)	1:41:A:PRO:HD2	1:66:A:ALA:HB2	19	0.85	0.34	0.89
(3,2282)	1:10:A:ALA:HB1	1:140:A:PRO:HD2	19	0.85	0.34	0.89
(3,2282)	1:41:A:PRO:HD2	1:66:A:ALA:HB3	19	0.85	0.34	0.89
(3,2282)	1:10:A:ALA:HB3	1:140:A:PRO:HD2	19	0.85	0.34	0.89
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	19	0.85	0.34	0.86
(3,916)	1:15:A:TRP:HE3	1:21:A:GLN:HB3	19	0.85	0.34	0.86
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	19	0.83	0.14	0.88
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	19	0.83	0.15	0.88
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG22	19	0.79	0.17	0.75
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG23	19	0.79	0.17	0.75
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HD11	19	0.79	0.17	0.75
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG21	19	0.79	0.17	0.75
(1,1479)	1:98:A:PHE:HE2	1:143:A:VAL:H	19	0.77	0.53	0.6
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	19	0.77	0.53	0.6
(3,1693)	1:40:A:ILE:HG23	1:70:A:ILE:H	19	0.77	0.19	0.82
(3,1693)	1:40:A:ILE:HG22	1:70:A:ILE:H	19	0.77	0.19	0.82
(3,1693)	1:40:A:ILE:HG21	1:70:A:ILE:H	19	0.77	0.19	0.82
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	19	0.76	0.52	0.56
(3,1322)	1:74:A:VAL:HG21	1:75:A:GLY:H	19	0.75	0.15	0.8
(3,1322)	1:74:A:VAL:HG22	1:75:A:GLY:H	19	0.75	0.15	0.8

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1322)	1:74:A:VAL:HG23	1:75:A:GLY:H	19	0.75	0.15	0.8
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	19	0.75	0.3	0.76
(3,2187)	1:26:A:ASP:HB3	1:29:A:LYS:HB3	19	0.75	0.3	0.76
(3,2187)	1:24:A:LYS:HB3	1:26:A:ASP:HB2	19	0.75	0.3	0.76
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE3	19	0.75	0.14	0.8
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE1	19	0.75	0.14	0.8
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE2	19	0.75	0.14	0.8
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	19	0.72	0.15	0.75
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD11	19	0.72	0.15	0.75
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD13	19	0.72	0.15	0.75
(3,1709)	1:27:A:GLN:HB3	1:50:A:ILE:HD11	19	0.72	0.15	0.75
(3,1709)	1:27:A:GLN:HB3	1:50:A:ILE:HD12	19	0.72	0.15	0.75
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	19	0.71	0.14	0.68
(1,1949)	1:137:A:LYS:HD3	1:138:A:ILE:H	19	0.71	0.14	0.68
(1,1949)	1:138:A:ILE:H	1:142:A:GLN:HB3	19	0.71	0.14	0.68
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	19	0.71	0.27	0.67
(3,2275)	1:7:A:VAL:HG12	1:139:A:TYR:HD2	19	0.67	0.23	0.66
(3,2275)	1:132:A:LEU:HD13	1:139:A:TYR:HD1	19	0.67	0.23	0.66
(3,2275)	1:132:A:LEU:HD11	1:139:A:TYR:HD1	19	0.67	0.23	0.66
(3,2275)	1:132:A:LEU:HD23	1:139:A:TYR:HD1	19	0.67	0.23	0.66
(3,2275)	1:7:A:VAL:HG13	1:139:A:TYR:HD2	19	0.67	0.23	0.66
(3,2275)	1:138:A:ILE:HG22	1:139:A:TYR:HD1	19	0.67	0.23	0.66
(3,2275)	1:132:A:LEU:HD22	1:139:A:TYR:HD1	19	0.67	0.23	0.66
(3,2275)	1:132:A:LEU:HD21	1:139:A:TYR:HD1	19	0.67	0.23	0.66
(3,2275)	1:132:A:LEU:HD12	1:139:A:TYR:HD1	19	0.67	0.23	0.66
(3,2275)	1:138:A:ILE:HG23	1:139:A:TYR:HD1	19	0.67	0.23	0.66
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD11	19	0.66	0.11	0.67
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD13	19	0.66	0.11	0.67
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD12	19	0.66	0.11	0.67
(1,75)	1:4:A:PHE:H	1:71:A:LEU:HD21	19	0.65	0.18	0.67
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG22	19	0.65	0.18	0.67
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG21	19	0.65	0.18	0.67
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG23	19	0.65	0.18	0.67
(1,75)	1:4:A:PHE:H	1:71:A:LEU:HD22	19	0.65	0.18	0.67
(1,75)	1:4:A:PHE:H	1:71:A:LEU:HD23	19	0.65	0.18	0.67
(1,75)	1:4:A:PHE:H	1:71:A:LEU:HD13	19	0.65	0.18	0.67
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	19	0.63	0.25	0.59
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	19	0.63	0.17	0.67
(1,732)	1:40:A:ILE:HG22	1:69:A:LYS:H	19	0.62	0.25	0.59
(1,732)	1:40:A:ILE:HG23	1:69:A:LYS:H	19	0.62	0.25	0.59
(1,732)	1:40:A:ILE:HG21	1:69:A:LYS:H	19	0.62	0.25	0.59
(3,1146)	1:23:A:ASP:HB2	1:24:A:LYS:HA	19	0.62	0.29	0.54

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB3	19	0.62	0.29	0.54
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB2	19	0.62	0.29	0.54
(3,1292)	1:120:A:LEU:HD11	1:123:A:LYS:HD3	19	0.61	0.21	0.6
(3,1292)	1:120:A:LEU:HD12	1:123:A:LYS:HD3	19	0.61	0.21	0.6
(3,1292)	1:120:A:LEU:HD13	1:123:A:LYS:HD3	19	0.61	0.21	0.6
(3,1292)	1:120:A:LEU:HD12	1:123:A:LYS:HD2	19	0.61	0.21	0.6
(3,1292)	1:120:A:LEU:HD11	1:123:A:LYS:HD2	19	0.61	0.21	0.6
(3,272)	1:65:A:GLU:HA	1:93:A:ALA:HB2	19	0.6	0.12	0.54
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB3	19	0.6	0.12	0.54
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB1	19	0.6	0.12	0.54
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB2	19	0.6	0.12	0.54
(3,272)	1:65:A:GLU:HA	1:93:A:ALA:HB1	19	0.6	0.12	0.54
(3,1738)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	19	0.6	0.34	0.55
(3,1738)	1:12:A:GLU:H	1:14:A:LEU:HD23	19	0.6	0.34	0.55
(3,1738)	1:14:A:LEU:HD22	1:34:A:HIS:HE1	19	0.6	0.34	0.55
(3,1738)	1:12:A:GLU:H	1:14:A:LEU:HD22	19	0.6	0.34	0.55
(3,1738)	1:14:A:LEU:HD21	1:34:A:HIS:HE1	19	0.6	0.34	0.55
(3,1738)	1:12:A:GLU:H	1:14:A:LEU:HD21	19	0.6	0.34	0.55
(1,375)	1:35:A:LEU:HD11	1:36:A:ASN:H	19	0.56	0.12	0.55
(1,375)	1:35:A:LEU:HD13	1:36:A:ASN:H	19	0.56	0.12	0.55
(1,375)	1:35:A:LEU:HD12	1:36:A:ASN:H	19	0.56	0.12	0.55
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	19	0.52	0.16	0.56
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	19	0.52	0.25	0.5
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG21	19	0.51	0.16	0.5
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG23	19	0.51	0.16	0.5
(3,887)	1:13:A:LYS:HA	1:14:A:LEU:HD22	19	0.51	0.16	0.5
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG22	19	0.51	0.16	0.5
(3,887)	1:13:A:LYS:HA	1:14:A:LEU:HD21	19	0.51	0.16	0.5
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG22	19	0.5	0.24	0.45
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG21	19	0.5	0.24	0.45
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG23	19	0.5	0.24	0.45
(3,1696)	1:115:A:TYR:HD1	1:146:A:ILE:HG21	19	0.5	0.24	0.45
(3,1696)	1:115:A:TYR:HD1	1:146:A:ILE:HG23	19	0.5	0.24	0.45
(3,1573)	1:40:A:ILE:HD13	1:41:A:PRO:HD2	19	0.47	0.17	0.5
(3,1573)	1:40:A:ILE:HD12	1:41:A:PRO:HD2	19	0.47	0.17	0.5
(3,1573)	1:40:A:ILE:HD11	1:41:A:PRO:HD2	19	0.47	0.17	0.5
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	19	0.47	0.19	0.48
(3,1219)	1:28:A:ALA:HB3	1:50:A:ILE:HA	19	0.45	0.15	0.42
(3,1219)	1:28:A:ALA:HB3	1:48:A:ILE:HA	19	0.45	0.15	0.42
(3,1219)	1:28:A:ALA:HB1	1:48:A:ILE:HA	19	0.45	0.15	0.42
(3,1219)	1:28:A:ALA:HB2	1:48:A:ILE:HA	19	0.45	0.15	0.42
(3,1219)	1:28:A:ALA:HB2	1:50:A:ILE:HA	19	0.45	0.15	0.42

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1219)	1:28:A:ALA:HB1	1:50:A:ILE:HA	19	0.45	0.15	0.42
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB3	19	0.43	0.09	0.46
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB2	19	0.43	0.09	0.46
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB1	19	0.43	0.09	0.46
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB3	19	0.43	0.16	0.41
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB2	19	0.43	0.16	0.41
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB1	19	0.43	0.16	0.41
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	19	0.43	0.25	0.39
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HG3	19	0.43	0.25	0.39
(3,2123)	1:115:A:TYR:HE1	1:123:A:LYS:HD3	19	0.43	0.25	0.39
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG22	19	0.43	0.19	0.41
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG23	19	0.43	0.19	0.41
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG21	19	0.43	0.19	0.41
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB1	19	0.43	0.13	0.43
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB3	19	0.43	0.13	0.43
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB2	19	0.43	0.13	0.43
(1,109)	1:9:A:ASP:H	1:81:A:ALA:HB1	19	0.43	0.13	0.43
(1,109)	1:9:A:ASP:H	1:81:A:ALA:HB3	19	0.43	0.13	0.43
(1,109)	1:9:A:ASP:H	1:81:A:ALA:HB2	19	0.43	0.13	0.43
(3,1539)	1:40:A:ILE:HD11	1:73:A:ALA:HB3	19	0.42	0.12	0.43
(3,1539)	1:40:A:ILE:HD12	1:73:A:ALA:HB3	19	0.42	0.12	0.43
(3,1539)	1:40:A:ILE:HD13	1:73:A:ALA:HB3	19	0.42	0.12	0.43
(3,1539)	1:40:A:ILE:HD11	1:73:A:ALA:HB2	19	0.42	0.12	0.43
(3,1539)	1:40:A:ILE:HD13	1:73:A:ALA:HB2	19	0.42	0.12	0.43
(3,1539)	1:40:A:ILE:HD12	1:73:A:ALA:HB2	19	0.42	0.12	0.43
(3,1539)	1:40:A:ILE:HD11	1:73:A:ALA:HB1	19	0.42	0.12	0.43
(3,1539)	1:40:A:ILE:HD13	1:73:A:ALA:HB1	19	0.42	0.12	0.43
(3,2087)	1:101:A:VAL:HG13	1:110:A:ILE:HG23	19	0.42	0.18	0.39
(3,2087)	1:101:A:VAL:HG12	1:110:A:ILE:HG21	19	0.42	0.18	0.39
(3,2087)	1:101:A:VAL:HG11	1:110:A:ILE:HG21	19	0.42	0.18	0.39
(3,2087)	1:101:A:VAL:HG12	1:110:A:ILE:HG23	19	0.42	0.18	0.39
(3,2087)	1:101:A:VAL:HG13	1:110:A:ILE:HG21	19	0.42	0.18	0.39
(3,2087)	1:101:A:VAL:HG13	1:110:A:ILE:HG22	19	0.42	0.18	0.39
(3,2087)	1:101:A:VAL:HG11	1:110:A:ILE:HG23	19	0.42	0.18	0.39
(3,2087)	1:101:A:VAL:HG12	1:110:A:ILE:HG22	19	0.42	0.18	0.39
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	19	0.41	0.07	0.44
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB2	19	0.39	0.09	0.41
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB1	19	0.39	0.09	0.41
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB3	19	0.39	0.09	0.41
(3,1009)	1:118:A:ALA:HB3	1:119:A:ASN:HD21	19	0.39	0.09	0.41
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG22	19	0.37	0.14	0.36
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	19	0.37	0.14	0.36

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,674)	1:105:A:ASP:HB2	1:138:A:ILE:HD13	19	0.37	0.14	0.36
(3,674)	1:105:A:ASP:HB2	1:138:A:ILE:HD12	19	0.37	0.14	0.36
(3,674)	1:105:A:ASP:HB2	1:138:A:ILE:HD11	19	0.37	0.14	0.36
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG21	19	0.37	0.14	0.36
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	19	0.37	0.06	0.35
(3,2051)	1:102:A:LYS:HB2	1:103:A:SER:HB3	19	0.37	0.06	0.35
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG12	19	0.37	0.04	0.36
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG11	19	0.37	0.04	0.36
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG13	19	0.37	0.04	0.36
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD13	19	0.34	0.27	0.21
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD12	19	0.34	0.27	0.21
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD11	19	0.34	0.27	0.21
(3,60)	1:48:A:ILE:HD11	1:49:A:GLN:H	19	0.34	0.27	0.21
(3,60)	1:48:A:ILE:HD13	1:49:A:GLN:H	19	0.34	0.27	0.21
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	19	0.33	0.11	0.33
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	19	0.32	0.21	0.24
(3,690)	1:37:A:LYS:HB3	1:38:A:THR:HA	19	0.32	0.21	0.24
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	19	0.31	0.07	0.3
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	19	0.29	0.08	0.27
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG21	19	0.28	0.08	0.32
(3,731)	1:38:A:THR:HG23	1:131:A:MET:HA	19	0.28	0.08	0.32
(3,731)	1:38:A:THR:HG22	1:131:A:MET:HA	19	0.28	0.08	0.32
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG23	19	0.28	0.08	0.32
(3,731)	1:38:A:THR:HB	1:38:A:THR:HG21	19	0.28	0.08	0.32
(3,731)	1:38:A:THR:HG21	1:131:A:MET:HA	19	0.28	0.08	0.32
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG22	19	0.28	0.08	0.32
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	19	0.27	0.14	0.21
(3,1994)	1:128:A:ASN:H	1:145:A:ARG:HB3	19	0.27	0.14	0.21
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	19	0.27	0.11	0.24
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	19	0.27	0.11	0.24
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	19	0.26	0.02	0.26
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG12	19	0.25	0.05	0.26
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG11	19	0.25	0.05	0.26
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG13	19	0.25	0.05	0.26
(3,1010)	1:127:A:ALA:HB2	1:128:A:ASN:HA	19	0.24	0.07	0.25
(3,1010)	1:127:A:ALA:HB3	1:128:A:ASN:HA	19	0.24	0.07	0.25
(3,1010)	1:127:A:ALA:HB1	1:128:A:ASN:HA	19	0.24	0.07	0.25
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	19	0.22	0.04	0.22
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	19	0.22	0.04	0.22
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	19	0.22	0.04	0.22
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	19	0.2	0.05	0.21
(3,315)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	19	0.2	0.03	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,315)	1:13:A:LYS:HD2	1:13:A:LYS:HG2	19	0.2	0.03	0.2
(3,315)	1:13:A:LYS:HD3	1:13:A:LYS:HG2	19	0.2	0.03	0.2
(3,315)	1:112:A:LYS:HD2	1:112:A:LYS:HG2	19	0.2	0.03	0.2
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	19	0.19	0.06	0.18
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	19	0.19	0.04	0.18
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	19	0.19	0.04	0.18
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	19	0.19	0.04	0.18
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	19	0.17	0.02	0.18
(3,2042)	1:35:A:LEU:HD12	1:35:A:LEU:HG	19	0.15	0.02	0.16
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG21	19	0.15	0.02	0.16
(3,2042)	1:35:A:LEU:HD13	1:35:A:LEU:HG	19	0.15	0.02	0.16
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG23	19	0.15	0.02	0.16
(3,2042)	1:35:A:LEU:HB3	1:35:A:LEU:HD12	19	0.15	0.02	0.16
(3,2042)	1:35:A:LEU:HD11	1:35:A:LEU:HG	19	0.15	0.02	0.16
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG22	19	0.15	0.02	0.16
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	19	0.12	0.01	0.12
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	19	0.12	0.01	0.12
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD13	18	1.68	1.12	1.64
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD12	18	1.68	1.12	1.64
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD11	18	1.68	1.12	1.64
(3,2337)	1:68:A:GLU:HG3	1:72:A:VAL:HG13	18	1.68	1.12	1.64
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	18	1.65	0.38	1.74
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	18	1.65	0.38	1.74
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	18	1.65	0.38	1.74
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	18	1.65	0.38	1.74
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	18	1.65	0.38	1.74
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	18	1.65	0.38	1.74
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	18	1.65	0.38	1.74
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	18	1.65	0.38	1.74
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	18	1.65	0.38	1.74
(3,2144)	1:115:A:TYR:HE2	1:120:A:LEU:HD21	18	1.51	1.06	2.24
(3,2144)	1:115:A:TYR:HE1	1:120:A:LEU:HD22	18	1.51	1.06	2.24
(3,2144)	1:115:A:TYR:HE1	1:120:A:LEU:HD23	18	1.51	1.06	2.24
(3,2144)	1:115:A:TYR:HE2	1:120:A:LEU:HD23	18	1.51	1.06	2.24
(3,2144)	1:115:A:TYR:HE2	1:120:A:LEU:HD22	18	1.51	1.06	2.24
(3,2144)	1:117:A:ASN:H	1:120:A:LEU:HD23	18	1.51	1.06	2.24
(3,2144)	1:117:A:ASN:H	1:120:A:LEU:HD21	18	1.51	1.06	2.24
(3,2144)	1:117:A:ASN:H	1:120:A:LEU:HD22	18	1.51	1.06	2.24
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	18	1.35	0.27	1.3
(3,631)	1:136:A:ASP:HB2	1:137:A:LYS:HD2	18	1.35	0.27	1.3
(3,631)	1:135:A:PRO:HB3	1:136:A:ASP:HB2	18	1.35	0.27	1.3
(3,2091)	1:110:A:ILE:HD12	1:111:A:SER:HB3	18	0.97	0.36	1.1

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2091)	1:110:A:ILE:HD13	1:111:A:SER:HB3	18	0.97	0.36	1.1
(3,2091)	1:110:A:ILE:HD11	1:111:A:SER:HB3	18	0.97	0.36	1.1
(1,77)	1:6:A:PHE:H	1:143:A:VAL:HG12	18	0.96	0.48	1.04
(1,77)	1:3:A:LEU:HD11	1:6:A:PHE:H	18	0.96	0.48	1.04
(1,77)	1:6:A:PHE:H	1:143:A:VAL:HG11	18	0.96	0.48	1.04
(1,77)	1:3:A:LEU:HD21	1:6:A:PHE:H	18	0.96	0.48	1.04
(1,77)	1:3:A:LEU:HD12	1:6:A:PHE:H	18	0.96	0.48	1.04
(1,77)	1:6:A:PHE:H	1:100:A:THR:HG22	18	0.96	0.48	1.04
(1,77)	1:6:A:PHE:H	1:143:A:VAL:HG13	18	0.96	0.48	1.04
(1,77)	1:3:A:LEU:HD22	1:6:A:PHE:H	18	0.96	0.48	1.04
(3,1787)	1:107:A:LEU:HD11	1:111:A:SER:HB3	18	0.86	0.36	0.98
(3,1787)	1:107:A:LEU:HD11	1:135:A:PRO:HD3	18	0.86	0.36	0.98
(3,1787)	1:107:A:LEU:HD12	1:135:A:PRO:HD3	18	0.86	0.36	0.98
(3,1787)	1:107:A:LEU:HD13	1:135:A:PRO:HD3	18	0.86	0.36	0.98
(3,1787)	1:107:A:LEU:HD11	1:124:A:ILE:HA	18	0.86	0.36	0.98
(3,1787)	1:107:A:LEU:HD13	1:124:A:ILE:HA	18	0.86	0.36	0.98
(3,1787)	1:107:A:LEU:HD13	1:111:A:SER:HB3	18	0.86	0.36	0.98
(3,1787)	1:107:A:LEU:HD12	1:124:A:ILE:HA	18	0.86	0.36	0.98
(3,1787)	1:132:A:LEU:HD13	1:135:A:PRO:HD3	18	0.86	0.36	0.98
(3,1787)	1:107:A:LEU:HD12	1:108:A:SER:HB3	18	0.86	0.36	0.98
(3,1787)	1:107:A:LEU:HD12	1:111:A:SER:HB3	18	0.86	0.36	0.98
(3,1787)	1:107:A:LEU:HD13	1:108:A:SER:HB3	18	0.86	0.36	0.98
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD2	18	0.84	0.35	0.84
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HB2	18	0.84	0.35	0.84
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD3	18	0.84	0.35	0.84
(1,1854)	1:11:A:GLY:H	1:142:A:GLN:HB3	18	0.84	0.35	0.84
(1,1854)	1:11:A:GLY:H	1:12:A:GLU:HB3	18	0.84	0.35	0.84
(3,1302)	1:83:A:VAL:HG11	1:85:A:ASP:HB3	18	0.79	0.34	0.78
(3,1302)	1:83:A:VAL:HG13	1:85:A:ASP:HB3	18	0.79	0.34	0.78
(3,1302)	1:83:A:VAL:HG12	1:85:A:ASP:HB3	18	0.79	0.34	0.78
(1,924)	1:74:A:VAL:HG23	1:84:A:ASP:H	18	0.79	0.25	0.82
(1,924)	1:74:A:VAL:HG21	1:84:A:ASP:H	18	0.79	0.25	0.82
(1,924)	1:84:A:ASP:H	1:87:A:VAL:HG23	18	0.79	0.25	0.82
(1,924)	1:74:A:VAL:HG22	1:84:A:ASP:H	18	0.79	0.25	0.82
(1,924)	1:84:A:ASP:H	1:87:A:VAL:HG21	18	0.79	0.25	0.82
(1,924)	1:84:A:ASP:H	1:87:A:VAL:HG22	18	0.79	0.25	0.82
(3,1746)	1:94:A:THR:HG22	1:148:A:GLU:HG2	18	0.78	0.5	0.66
(3,1746)	1:65:A:GLU:HG3	1:94:A:THR:HG22	18	0.78	0.5	0.66
(3,1746)	1:18:A:VAL:HB	1:19:A:THR:HG21	18	0.78	0.5	0.66
(3,1746)	1:18:A:VAL:HB	1:19:A:THR:HG22	18	0.78	0.5	0.66
(3,1746)	1:58:A:THR:HG22	1:86:A:GLN:HG3	18	0.78	0.5	0.66
(3,1746)	1:58:A:THR:HG23	1:86:A:GLN:HG3	18	0.78	0.5	0.66

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1746)	1:18:A:VAL:HB	1:19:A:THR:HG23	18	0.78	0.5	0.66
(3,1746)	1:65:A:GLU:HG3	1:94:A:THR:HG21	18	0.78	0.5	0.66
(3,1875)	1:35:A:LEU:HA	1:35:A:LEU:HD13	18	0.76	0.55	0.48
(3,1875)	1:72:A:VAL:HG21	1:145:A:ARG:HD2	18	0.76	0.55	0.48
(3,1875)	1:72:A:VAL:HG22	1:145:A:ARG:HD2	18	0.76	0.55	0.48
(3,1875)	1:35:A:LEU:HA	1:35:A:LEU:HD12	18	0.76	0.55	0.48
(3,1875)	1:72:A:VAL:HG22	1:76:A:ASN:HB2	18	0.76	0.55	0.48
(3,1875)	1:72:A:VAL:HG23	1:76:A:ASN:HB2	18	0.76	0.55	0.48
(3,1875)	1:72:A:VAL:HG23	1:145:A:ARG:HD2	18	0.76	0.55	0.48
(3,1875)	1:72:A:VAL:HG21	1:76:A:ASN:HB2	18	0.76	0.55	0.48
(1,1675)	1:32:A:GLN:HG3	1:45:A:LYS:H	18	0.76	0.11	0.75
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	18	0.76	0.11	0.75
(3,316)	1:112:A:LYS:H	1:112:A:LYS:HD2	18	0.71	0.22	0.75
(3,316)	1:61:A:GLY:H	1:62:A:LEU:HG	18	0.71	0.22	0.75
(3,316)	1:13:A:LYS:HD3	1:14:A:LEU:H	18	0.71	0.22	0.75
(3,316)	1:112:A:LYS:H	1:112:A:LYS:HD3	18	0.71	0.22	0.75
(3,316)	1:13:A:LYS:HD2	1:14:A:LEU:H	18	0.71	0.22	0.75
(3,1437)	1:62:A:LEU:HD13	1:89:A:THR:HA	18	0.7	0.37	0.68
(3,1437)	1:62:A:LEU:HD12	1:89:A:THR:HA	18	0.7	0.37	0.68
(3,1437)	1:62:A:LEU:HD11	1:89:A:THR:HA	18	0.7	0.37	0.68
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE1	18	0.68	0.22	0.69
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE2	18	0.68	0.22	0.69
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE3	18	0.68	0.22	0.69
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD11	18	0.68	0.2	0.72
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD13	18	0.68	0.2	0.72
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD12	18	0.68	0.2	0.72
(1,241)	1:28:A:ALA:H	1:48:A:ILE:HG21	18	0.68	0.2	0.72
(1,241)	1:28:A:ALA:H	1:48:A:ILE:HG22	18	0.68	0.2	0.72
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD11	18	0.68	0.54	0.59
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD12	18	0.68	0.54	0.59
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD13	18	0.68	0.54	0.59
(3,2355)	1:128:A:ASN:HD21	1:144:A:LEU:HD12	18	0.68	0.54	0.59
(3,2355)	1:71:A:LEU:HD23	1:87:A:VAL:H	18	0.68	0.54	0.59
(3,2355)	1:128:A:ASN:HD21	1:144:A:LEU:HD11	18	0.68	0.54	0.59
(3,2355)	1:128:A:ASN:HD21	1:144:A:LEU:HD13	18	0.68	0.54	0.59
(1,1059)	1:103:A:SER:HB2	1:105:A:ASP:H	18	0.63	0.34	0.73
(1,1059)	1:103:A:SER:HB3	1:105:A:ASP:H	18	0.63	0.34	0.73
(1,1059)	1:105:A:ASP:H	1:140:A:PRO:HA	18	0.63	0.34	0.73
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	18	0.59	0.35	0.66
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	18	0.59	0.35	0.66
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	18	0.59	0.35	0.66
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG22	18	0.59	0.41	0.48

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG23	18	0.59	0.41	0.48
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG21	18	0.59	0.41	0.48
(3,1304)	1:31:A:VAL:HG23	1:35:A:LEU:HG	18	0.59	0.41	0.48
(3,1304)	1:31:A:VAL:HG21	1:35:A:LEU:HG	18	0.59	0.41	0.48
(3,1304)	1:31:A:VAL:HG22	1:35:A:LEU:HG	18	0.59	0.41	0.48
(3,1882)	1:63:A:SER:HB3	1:65:A:GLU:HB2	18	0.59	0.33	0.54
(3,1882)	1:63:A:SER:HB3	1:64:A:GLN:HB3	18	0.59	0.33	0.54
(3,1882)	1:62:A:LEU:HB3	1:63:A:SER:HB3	18	0.59	0.33	0.54
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD11	18	0.55	0.55	0.3
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD13	18	0.55	0.55	0.3
(3,2153)	1:48:A:ILE:HD11	1:58:A:THR:H	18	0.55	0.55	0.3
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD12	18	0.55	0.55	0.3
(1,367)	1:32:A:GLN:HG3	1:36:A:ASN:H	18	0.55	0.13	0.59
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	18	0.55	0.13	0.59
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	18	0.55	0.08	0.55
(3,349)	1:29:A:LYS:HD2	1:33:A:GLU:H	18	0.54	0.14	0.57
(3,349)	1:17:A:ALA:H	1:21:A:GLN:HB2	18	0.54	0.14	0.57
(3,349)	1:88:A:LYS:H	1:88:A:LYS:HD2	18	0.54	0.14	0.57
(3,349)	1:29:A:LYS:HD3	1:33:A:GLU:H	18	0.54	0.14	0.57
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE1	18	0.53	0.22	0.56
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE2	18	0.53	0.22	0.56
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE3	18	0.53	0.22	0.56
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	18	0.51	0.24	0.48
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	18	0.51	0.24	0.48
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG12	18	0.49	0.23	0.39
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG22	18	0.49	0.23	0.39
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG23	18	0.49	0.23	0.39
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG21	18	0.49	0.23	0.39
(3,1037)	1:15:A:TRP:HA	1:18:A:VAL:HG12	18	0.49	0.23	0.39
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG11	18	0.49	0.23	0.39
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG13	18	0.49	0.23	0.39
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	18	0.47	0.07	0.5
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	18	0.47	0.17	0.48
(1,1280)	1:126:A:GLU:H	1:135:A:PRO:HB3	18	0.47	0.17	0.48
(3,1789)	1:3:A:LEU:HD11	1:82:A:SER:HA	18	0.46	0.16	0.5
(3,1789)	1:3:A:LEU:HD13	1:82:A:SER:HA	18	0.46	0.16	0.5
(3,1789)	1:3:A:LEU:HD12	1:82:A:SER:HA	18	0.46	0.16	0.5
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	18	0.45	0.14	0.48
(3,2497)	1:56:A:THR:HG23	1:58:A:THR:H	18	0.44	0.1	0.44
(3,2497)	1:56:A:THR:HG21	1:58:A:THR:H	18	0.44	0.1	0.44
(3,2497)	1:56:A:THR:HG22	1:58:A:THR:H	18	0.44	0.1	0.44
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	18	0.44	0.19	0.4

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,440)	1:99:A:TYR:HE1	1:100:A:THR:H	18	0.44	0.19	0.4
(3,1059)	1:103:A:SER:HB3	1:140:A:PRO:HG3	18	0.44	0.21	0.43
(3,1059)	1:103:A:SER:HB2	1:140:A:PRO:HG3	18	0.44	0.21	0.43
(3,1059)	1:102:A:LYS:HB3	1:103:A:SER:HB2	18	0.44	0.21	0.43
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD12	18	0.43	0.16	0.46
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD13	18	0.43	0.16	0.46
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD11	18	0.43	0.16	0.46
(3,1665)	1:32:A:GLN:HB2	1:48:A:ILE:HD13	18	0.43	0.16	0.46
(3,1665)	1:32:A:GLN:HB2	1:48:A:ILE:HD11	18	0.43	0.16	0.46
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD13	18	0.4	0.17	0.34
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD11	18	0.4	0.17	0.34
(3,69)	1:53:A:GLY:H	1:80:A:ILE:HD12	18	0.4	0.17	0.34
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD12	18	0.4	0.17	0.34
(3,69)	1:53:A:GLY:H	1:80:A:ILE:HD13	18	0.4	0.17	0.34
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	18	0.4	0.25	0.29
(3,553)	1:29:A:LYS:HA	1:29:A:LYS:HG2	18	0.4	0.25	0.29
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG11	18	0.38	0.17	0.42
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG13	18	0.38	0.17	0.42
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG12	18	0.38	0.17	0.42
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG22	18	0.38	0.07	0.36
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG23	18	0.38	0.07	0.36
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG21	18	0.38	0.07	0.36
(1,485)	1:46:A:VAL:HG11	1:48:A:ILE:H	18	0.38	0.07	0.36
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	18	0.38	0.13	0.41
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	18	0.38	0.13	0.41
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	18	0.38	0.13	0.41
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG12	18	0.38	0.12	0.38
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG11	18	0.38	0.12	0.38
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG13	18	0.38	0.12	0.38
(3,630)	1:24:A:LYS:HB2	1:25:A:ASP:HB3	18	0.35	0.14	0.36
(3,630)	1:8:A:LYS:HB3	1:9:A:ASP:HB3	18	0.35	0.14	0.36
(3,630)	1:135:A:PRO:HB2	1:136:A:ASP:HB2	18	0.35	0.14	0.36
(3,630)	1:24:A:LYS:HB3	1:25:A:ASP:HB3	18	0.35	0.14	0.36
(3,630)	1:135:A:PRO:HG2	1:136:A:ASP:HB2	18	0.35	0.14	0.36
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG22	18	0.35	0.16	0.36
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG21	18	0.35	0.16	0.36
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG23	18	0.35	0.16	0.36
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	18	0.34	0.15	0.27
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	18	0.34	0.15	0.27
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	18	0.34	0.15	0.27
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG22	18	0.34	0.08	0.34
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG23	18	0.34	0.08	0.34

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG21	18	0.34	0.08	0.34
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	18	0.33	0.18	0.27
(3,2463)	1:82:A:SER:HB3	1:84:A:ASP:H	18	0.32	0.13	0.32
(3,2463)	1:81:A:ALA:H	1:82:A:SER:HB3	18	0.32	0.13	0.32
(3,1185)	1:27:A:GLN:HB3	1:28:A:ALA:H	18	0.31	0.05	0.32
(3,1185)	1:27:A:GLN:H	1:27:A:GLN:HB3	18	0.31	0.05	0.32
(3,1377)	1:38:A:THR:HG21	1:130:A:PRO:HB2	18	0.3	0.15	0.28
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	18	0.3	0.15	0.28
(3,1377)	1:38:A:THR:HG22	1:130:A:PRO:HB2	18	0.3	0.15	0.28
(3,1377)	1:38:A:THR:HG23	1:130:A:PRO:HB2	18	0.3	0.15	0.28
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	18	0.26	0.11	0.24
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	18	0.26	0.11	0.24
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	18	0.26	0.11	0.24
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	18	0.26	0.09	0.25
(3,1676)	1:50:A:ILE:HG21	1:51:A:ALA:HA	18	0.24	0.05	0.25
(3,1676)	1:50:A:ILE:HG22	1:51:A:ALA:HA	18	0.24	0.05	0.25
(3,1676)	1:50:A:ILE:HG23	1:51:A:ALA:HA	18	0.24	0.05	0.25
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	18	0.24	0.09	0.22
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	18	0.24	0.09	0.22
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	18	0.24	0.09	0.22
(1,1290)	1:124:A:ILE:HD12	1:127:A:ALA:H	18	0.23	0.06	0.23
(1,1290)	1:124:A:ILE:HD11	1:127:A:ALA:H	18	0.23	0.06	0.23
(1,1290)	1:124:A:ILE:HD13	1:127:A:ALA:H	18	0.23	0.06	0.23
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	18	0.2	0.08	0.18
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	18	0.2	0.07	0.18
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	18	0.19	0.04	0.2
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	18	0.19	0.06	0.16
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	18	0.18	0.04	0.18
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	18	0.18	0.05	0.18
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	18	0.17	0.04	0.16
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	18	0.17	0.04	0.16
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	18	0.15	0.02	0.14
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	18	0.13	0.02	0.13
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG12	17	2.14	0.2	2.14
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG11	17	2.14	0.2	2.14
(1,799)	1:73:A:ALA:H	1:74:A:VAL:HG12	17	2.14	0.2	2.14
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG13	17	2.14	0.2	2.14
(1,799)	1:73:A:ALA:H	1:74:A:VAL:HG11	17	2.14	0.2	2.14
(3,1309)	1:28:A:ALA:HB1	1:31:A:VAL:HG13	17	1.76	0.51	1.77
(3,1309)	1:31:A:VAL:HG12	1:80:A:ILE:HG12	17	1.76	0.51	1.77
(3,1309)	1:28:A:ALA:HB1	1:31:A:VAL:HG11	17	1.76	0.51	1.77
(3,1309)	1:31:A:VAL:HG13	1:80:A:ILE:HG12	17	1.76	0.51	1.77

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1309)	1:31:A:VAL:HG11	1:80:A:ILE:HG12	17	1.76	0.51	1.77
(3,1309)	1:3:A:LEU:HG	1:83:A:VAL:HG12	17	1.76	0.51	1.77
(3,1309)	1:3:A:LEU:HG	1:83:A:VAL:HG13	17	1.76	0.51	1.77
(3,1309)	1:28:A:ALA:HB3	1:31:A:VAL:HG13	17	1.76	0.51	1.77
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	17	1.62	0.15	1.62
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	17	1.62	0.15	1.62
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	17	1.62	0.15	1.62
(3,708)	1:99:A:TYR:H	1:143:A:VAL:HG22	17	1.26	0.64	1.64
(3,708)	1:143:A:VAL:HG22	1:144:A:LEU:H	17	1.26	0.64	1.64
(3,708)	1:99:A:TYR:H	1:143:A:VAL:HG21	17	1.26	0.64	1.64
(3,708)	1:143:A:VAL:HG23	1:144:A:LEU:H	17	1.26	0.64	1.64
(3,708)	1:143:A:VAL:HG21	1:144:A:LEU:H	17	1.26	0.64	1.64
(3,708)	1:99:A:TYR:H	1:143:A:VAL:HG23	17	1.26	0.64	1.64
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	17	1.24	0.01	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	17	1.24	0.01	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	17	1.24	0.01	1.24
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	17	1.06	0.56	1.49
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	17	0.99	0.08	1.02
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	17	0.98	0.16	0.94
(1,1325)	1:128:A:ASN:H	1:129:A:LYS:HB3	17	0.83	0.16	0.86
(1,1325)	1:128:A:ASN:H	1:132:A:LEU:HG	17	0.83	0.16	0.86
(1,1325)	1:69:A:LYS:HD3	1:128:A:ASN:H	17	0.83	0.16	0.86
(1,1325)	1:69:A:LYS:HD2	1:128:A:ASN:H	17	0.83	0.16	0.86
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG13	17	0.82	0.52	0.75
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG12	17	0.82	0.52	0.75
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG11	17	0.82	0.52	0.75
(1,615)	1:46:A:VAL:HG23	1:59:A:GLY:H	17	0.82	0.52	0.75
(1,615)	1:46:A:VAL:HG22	1:59:A:GLY:H	17	0.82	0.52	0.75
(1,615)	1:57:A:VAL:HG12	1:59:A:GLY:H	17	0.82	0.52	0.75
(1,615)	1:57:A:VAL:HG11	1:59:A:GLY:H	17	0.82	0.52	0.75
(1,615)	1:46:A:VAL:HG21	1:59:A:GLY:H	17	0.82	0.52	0.75
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG12	17	0.78	0.25	0.85
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG22	17	0.78	0.25	0.85
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG23	17	0.78	0.25	0.85
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG21	17	0.78	0.25	0.85
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG11	17	0.78	0.25	0.85
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG13	17	0.78	0.25	0.85
(3,1045)	1:18:A:VAL:HG21	1:21:A:GLN:HE21	17	0.78	0.25	0.85
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	17	0.74	0.01	0.73
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	17	0.74	0.01	0.73
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	17	0.74	0.01	0.73
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD23	17	0.73	0.76	0.45

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD21	17	0.73	0.76	0.45
(3,2093)	1:135:A:PRO:HA	1:144:A:LEU:HD22	17	0.73	0.76	0.45
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD22	17	0.73	0.76	0.45
(3,2093)	1:135:A:PRO:HA	1:144:A:LEU:HD21	17	0.73	0.76	0.45
(3,2093)	1:135:A:PRO:HA	1:144:A:LEU:HD23	17	0.73	0.76	0.45
(3,1399)	1:29:A:LYS:HD3	1:33:A:GLU:HG2	17	0.71	0.29	0.73
(3,1399)	1:29:A:LYS:HD2	1:33:A:GLU:HG2	17	0.71	0.29	0.73
(3,1399)	1:148:A:GLU:HG3	1:149:A:GLU:HB3	17	0.71	0.29	0.73
(3,1399)	1:30:A:LYS:HD3	1:33:A:GLU:HG2	17	0.71	0.29	0.73
(3,1399)	1:33:A:GLU:HG2	1:37:A:LYS:HD2	17	0.71	0.29	0.73
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD21	17	0.64	0.38	0.6
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD23	17	0.64	0.38	0.6
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD22	17	0.64	0.38	0.6
(3,2288)	1:12:A:GLU:HA	1:77:A:ILE:HG21	17	0.64	0.38	0.6
(3,2288)	1:12:A:GLU:HA	1:77:A:ILE:HG22	17	0.64	0.38	0.6
(3,556)	1:3:A:LEU:HD11	1:54:A:LYS:HA	17	0.6	0.17	0.63
(3,556)	1:3:A:LEU:HD13	1:54:A:LYS:HA	17	0.6	0.17	0.63
(3,556)	1:3:A:LEU:HD11	1:5:A:ASN:HA	17	0.6	0.17	0.63
(3,556)	1:3:A:LEU:HD12	1:54:A:LYS:HA	17	0.6	0.17	0.63
(3,556)	1:3:A:LEU:HD22	1:5:A:ASN:HA	17	0.6	0.17	0.63
(3,1317)	1:58:A:THR:HA	1:87:A:VAL:HG13	17	0.59	0.27	0.48
(3,1317)	1:72:A:VAL:HG11	1:144:A:LEU:HA	17	0.59	0.27	0.48
(3,1317)	1:58:A:THR:HA	1:87:A:VAL:HG11	17	0.59	0.27	0.48
(3,1317)	1:87:A:VAL:HG13	1:88:A:LYS:HA	17	0.59	0.27	0.48
(3,1317)	1:87:A:VAL:HG12	1:88:A:LYS:HA	17	0.59	0.27	0.48
(3,1317)	1:72:A:VAL:HG13	1:144:A:LEU:HA	17	0.59	0.27	0.48
(3,1317)	1:46:A:VAL:HG22	1:58:A:THR:HA	17	0.59	0.27	0.48
(3,1317)	1:72:A:VAL:HG12	1:144:A:LEU:HA	17	0.59	0.27	0.48
(3,1317)	1:58:A:THR:HA	1:87:A:VAL:HG12	17	0.59	0.27	0.48
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB3	17	0.59	0.22	0.6
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB1	17	0.59	0.22	0.6
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB2	17	0.59	0.22	0.6
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB2	17	0.57	0.24	0.64
(3,1088)	1:5:A:ASN:HA	1:81:A:ALA:HB3	17	0.57	0.24	0.64
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB3	17	0.57	0.24	0.64
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB1	17	0.57	0.24	0.64
(3,1088)	1:5:A:ASN:HA	1:81:A:ALA:HB1	17	0.57	0.24	0.64
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG13	17	0.56	0.34	0.51
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG11	17	0.56	0.34	0.51
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG12	17	0.56	0.34	0.51
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG22	17	0.51	0.24	0.46
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG23	17	0.51	0.24	0.46

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,243)	1:29:A:LYS:H	1:50:A:ILE:HD12	17	0.51	0.24	0.46
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG21	17	0.51	0.24	0.46
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD21	17	0.51	0.13	0.53
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD22	17	0.51	0.13	0.53
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD23	17	0.51	0.13	0.53
(1,678)	1:66:A:ALA:H	1:69:A:LYS:HB2	17	0.5	0.22	0.42
(1,678)	1:65:A:GLU:HG2	1:66:A:ALA:H	17	0.5	0.22	0.42
(1,678)	1:66:A:ALA:H	1:67:A:LYS:HB2	17	0.5	0.22	0.42
(3,2059)	1:51:A:ALA:H	1:54:A:LYS:HG2	17	0.46	0.21	0.53
(3,2059)	1:130:A:PRO:HG3	1:131:A:MET:H	17	0.46	0.21	0.53
(3,2059)	1:24:A:LYS:HG2	1:51:A:ALA:H	17	0.46	0.21	0.53
(3,2396)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	17	0.43	0.32	0.27
(3,2396)	1:14:A:LEU:HD21	1:34:A:HIS:HE1	17	0.43	0.32	0.27
(3,2396)	1:14:A:LEU:HD22	1:34:A:HIS:HE1	17	0.43	0.32	0.27
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG21	17	0.43	0.15	0.43
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG22	17	0.43	0.15	0.43
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG23	17	0.43	0.15	0.43
(3,2514)	1:99:A:TYR:HD1	1:110:A:ILE:HG23	17	0.43	0.15	0.43
(3,533)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	17	0.42	0.21	0.4
(3,533)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	17	0.42	0.21	0.4
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD11	17	0.41	0.2	0.31
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD13	17	0.41	0.2	0.31
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD12	17	0.41	0.2	0.31
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG11	17	0.4	0.15	0.43
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG13	17	0.4	0.15	0.43
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG12	17	0.4	0.15	0.43
(3,2002)	1:55:A:ALA:H	1:83:A:VAL:HG12	17	0.4	0.15	0.43
(1,249)	1:26:A:ASP:HB3	1:29:A:LYS:H	17	0.4	0.14	0.35
(1,249)	1:25:A:ASP:HB3	1:29:A:LYS:H	17	0.4	0.14	0.35
(1,249)	1:25:A:ASP:HB2	1:29:A:LYS:H	17	0.4	0.14	0.35
(1,249)	1:26:A:ASP:HB2	1:29:A:LYS:H	17	0.4	0.14	0.35
(3,234)	1:29:A:LYS:H	1:29:A:LYS:HE3	17	0.4	0.18	0.31
(3,234)	1:45:A:LYS:H	1:45:A:LYS:HE3	17	0.4	0.18	0.31
(3,234)	1:45:A:LYS:H	1:45:A:LYS:HE2	17	0.4	0.18	0.31
(3,234)	1:59:A:GLY:H	1:88:A:LYS:HE3	17	0.4	0.18	0.31
(3,234)	1:29:A:LYS:H	1:29:A:LYS:HE2	17	0.4	0.18	0.31
(3,234)	1:59:A:GLY:H	1:88:A:LYS:HE2	17	0.4	0.18	0.31
(3,1223)	1:25:A:ASP:HB3	1:28:A:ALA:HB1	17	0.4	0.12	0.41
(3,1223)	1:25:A:ASP:HB3	1:28:A:ALA:HB2	17	0.4	0.12	0.41
(3,1223)	1:25:A:ASP:HB2	1:28:A:ALA:HB2	17	0.4	0.12	0.41
(3,1223)	1:25:A:ASP:HB2	1:28:A:ALA:HB3	17	0.4	0.12	0.41
(3,1223)	1:25:A:ASP:HB3	1:28:A:ALA:HB3	17	0.4	0.12	0.41

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1223)	1:25:A:ASP:HB2	1:28:A:ALA:HB1	17	0.4	0.12	0.41
(3,632)	1:25:A:ASP:HB3	1:28:A:ALA:HB1	17	0.39	0.09	0.38
(3,632)	1:25:A:ASP:HB3	1:28:A:ALA:HB2	17	0.39	0.09	0.38
(3,632)	1:9:A:ASP:HB3	1:10:A:ALA:HB3	17	0.39	0.09	0.38
(3,632)	1:9:A:ASP:HB3	1:10:A:ALA:HB2	17	0.39	0.09	0.38
(3,632)	1:9:A:ASP:HB3	1:10:A:ALA:HB1	17	0.39	0.09	0.38
(3,632)	1:25:A:ASP:HB3	1:28:A:ALA:HB3	17	0.39	0.09	0.38
(3,632)	1:25:A:ASP:HB2	1:28:A:ALA:HB1	17	0.39	0.09	0.38
(3,632)	1:25:A:ASP:HB2	1:28:A:ALA:HB2	17	0.39	0.09	0.38
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	17	0.38	0.25	0.55
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	17	0.38	0.25	0.55
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	17	0.38	0.25	0.55
(3,1577)	1:40:A:ILE:HD12	1:41:A:PRO:HD3	17	0.38	0.11	0.38
(3,1577)	1:40:A:ILE:HD11	1:41:A:PRO:HD3	17	0.38	0.11	0.38
(3,1577)	1:40:A:ILE:HD13	1:41:A:PRO:HD3	17	0.38	0.11	0.38
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG21	17	0.36	0.19	0.36
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG23	17	0.36	0.19	0.36
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG22	17	0.36	0.19	0.36
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB3	17	0.36	0.16	0.34
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB1	17	0.36	0.16	0.34
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB2	17	0.36	0.16	0.34
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	17	0.33	0.16	0.31
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	17	0.33	0.16	0.31
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	17	0.33	0.12	0.31
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD23	17	0.32	0.04	0.32
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD21	17	0.32	0.04	0.32
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD22	17	0.32	0.04	0.32
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	17	0.31	0.07	0.32
(1,346)	1:124:A:ILE:HD13	1:125:A:PHE:H	17	0.31	0.12	0.31
(1,346)	1:124:A:ILE:HD12	1:125:A:PHE:H	17	0.31	0.12	0.31
(1,346)	1:124:A:ILE:HD11	1:125:A:PHE:H	17	0.31	0.12	0.31
(3,1766)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	17	0.3	0.08	0.33
(3,1766)	1:47:A:ASN:HB2	1:59:A:GLY:HA2	17	0.3	0.08	0.33
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	17	0.28	0.25	0.21
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG12	17	0.27	0.05	0.28
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG11	17	0.27	0.05	0.28
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG13	17	0.27	0.05	0.28
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	17	0.27	0.11	0.27
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	17	0.27	0.11	0.27
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	17	0.25	0.12	0.24
(3,1961)	1:17:A:ALA:HA	1:21:A:GLN:HG2	17	0.25	0.12	0.24
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	17	0.25	0.13	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	17	0.25	0.13	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	17	0.25	0.13	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	17	0.25	0.13	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	17	0.25	0.13	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	17	0.25	0.13	0.16
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	17	0.24	0.05	0.25
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	17	0.22	0.05	0.22
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	17	0.21	0.0	0.21
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	17	0.21	0.04	0.22
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	17	0.21	0.04	0.22
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	17	0.21	0.04	0.22
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	17	0.19	0.09	0.17
(3,1311)	1:150:A:LEU:HD11	1:150:A:LEU:HG	17	0.16	0.02	0.16
(3,1311)	1:150:A:LEU:HB3	1:150:A:LEU:HD13	17	0.16	0.02	0.16
(3,1311)	1:150:A:LEU:HD13	1:150:A:LEU:HG	17	0.16	0.02	0.16
(3,1311)	1:72:A:VAL:HG11	1:145:A:ARG:HB2	17	0.16	0.02	0.16
(3,1311)	1:150:A:LEU:HD12	1:150:A:LEU:HG	17	0.16	0.02	0.16
(3,1311)	1:150:A:LEU:HB3	1:150:A:LEU:HD11	17	0.16	0.02	0.16
(3,1311)	1:150:A:LEU:HB3	1:150:A:LEU:HD12	17	0.16	0.02	0.16
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	17	0.15	0.02	0.15
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	17	0.14	0.02	0.14
(3,2362)	1:47:A:ASN:HA	1:48:A:ILE:HG21	16	2.56	0.09	2.54
(3,2362)	1:46:A:VAL:HG13	1:47:A:ASN:HA	16	2.56	0.09	2.54
(3,2362)	1:47:A:ASN:HA	1:48:A:ILE:HG22	16	2.56	0.09	2.54
(3,2362)	1:46:A:VAL:HG12	1:47:A:ASN:HA	16	2.56	0.09	2.54
(3,2362)	1:47:A:ASN:HA	1:48:A:ILE:HG23	16	2.56	0.09	2.54
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	16	1.32	0.11	1.31
(3,1025)	1:100:A:THR:HG21	1:102:A:LYS:HE3	16	1.27	0.72	1.66
(3,1025)	1:100:A:THR:HG23	1:102:A:LYS:HE3	16	1.27	0.72	1.66
(3,1025)	1:100:A:THR:HG22	1:102:A:LYS:HE3	16	1.27	0.72	1.66
(3,1915)	1:77:A:ILE:HD12	1:80:A:ILE:HB	16	1.24	0.1	1.25
(3,1915)	1:77:A:ILE:HD11	1:80:A:ILE:HB	16	1.24	0.1	1.25
(3,1915)	1:31:A:VAL:HB	1:77:A:ILE:HD13	16	1.24	0.1	1.25
(3,1915)	1:31:A:VAL:HB	1:77:A:ILE:HD12	16	1.24	0.1	1.25
(3,1915)	1:31:A:VAL:HB	1:77:A:ILE:HD11	16	1.24	0.1	1.25
(3,1915)	1:77:A:ILE:HD13	1:80:A:ILE:HB	16	1.24	0.1	1.25
(1,1896)	1:102:A:LYS:HD2	1:113:A:GLN:HE22	16	1.21	0.41	1.29
(1,1896)	1:112:A:LYS:HD2	1:113:A:GLN:HE22	16	1.21	0.41	1.29
(1,1896)	1:102:A:LYS:HD3	1:113:A:GLN:HE22	16	1.21	0.41	1.29
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG23	16	1.19	0.02	1.19
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG21	16	1.19	0.02	1.19
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG22	16	1.19	0.02	1.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1996)	1:57:A:VAL:HA	1:87:A:VAL:HG13	16	1.16	0.28	1.21
(3,1996)	1:46:A:VAL:HG23	1:48:A:ILE:HA	16	1.16	0.28	1.21
(3,1996)	1:46:A:VAL:HG23	1:57:A:VAL:HA	16	1.16	0.28	1.21
(3,1996)	1:46:A:VAL:HG21	1:48:A:ILE:HA	16	1.16	0.28	1.21
(3,1996)	1:46:A:VAL:HG22	1:48:A:ILE:HA	16	1.16	0.28	1.21
(3,1996)	1:46:A:VAL:HG21	1:57:A:VAL:HA	16	1.16	0.28	1.21
(3,1996)	1:57:A:VAL:HA	1:87:A:VAL:HG11	16	1.16	0.28	1.21
(3,1996)	1:46:A:VAL:HG22	1:57:A:VAL:HA	16	1.16	0.28	1.21
(3,1996)	1:57:A:VAL:HA	1:87:A:VAL:HG12	16	1.16	0.28	1.21
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG23	16	1.15	0.19	1.08
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG22	16	1.15	0.19	1.08
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG21	16	1.15	0.19	1.08
(1,1539)	1:43:A:ALA:HB1	1:47:A:ASN:HD21	16	1.15	0.19	1.08
(1,1246)	1:123:A:LYS:H	1:124:A:ILE:HG21	16	1.05	0.66	0.97
(1,1246)	1:107:A:LEU:HD21	1:123:A:LYS:H	16	1.05	0.66	0.97
(1,1246)	1:107:A:LEU:HD23	1:123:A:LYS:H	16	1.05	0.66	0.97
(1,1246)	1:123:A:LYS:H	1:124:A:ILE:HG23	16	1.05	0.66	0.97
(1,1246)	1:123:A:LYS:H	1:124:A:ILE:HG22	16	1.05	0.66	0.97
(1,1246)	1:107:A:LEU:HD22	1:123:A:LYS:H	16	1.05	0.66	0.97
(3,1940)	1:106:A:THR:HG22	1:109:A:ALA:H	16	1.02	0.17	1.04
(3,1940)	1:106:A:THR:HG21	1:109:A:ALA:H	16	1.02	0.17	1.04
(3,1940)	1:106:A:THR:HG23	1:109:A:ALA:H	16	1.02	0.17	1.04
(3,1940)	1:49:A:GLN:HE22	1:58:A:THR:HG22	16	1.02	0.17	1.04
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB2	16	0.97	0.39	1.02
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB3	16	0.97	0.39	1.02
(3,2184)	1:127:A:ALA:HB2	1:147:A:PRO:HB2	16	0.97	0.39	1.02
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB1	16	0.97	0.39	1.02
(3,2184)	1:105:A:ASP:HB2	1:109:A:ALA:HB1	16	0.97	0.39	1.02
(3,2184)	1:127:A:ALA:HB1	1:147:A:PRO:HB2	16	0.97	0.39	1.02
(3,2069)	1:62:A:LEU:HD22	1:89:A:THR:HA	16	0.95	0.16	0.9
(3,2069)	1:62:A:LEU:HD12	1:89:A:THR:HA	16	0.95	0.16	0.9
(3,2069)	1:62:A:LEU:HD11	1:89:A:THR:HA	16	0.95	0.16	0.9
(3,2069)	1:87:A:VAL:HG22	1:89:A:THR:HA	16	0.95	0.16	0.9
(3,2069)	1:87:A:VAL:HG21	1:89:A:THR:HA	16	0.95	0.16	0.9
(3,2069)	1:62:A:LEU:HD23	1:89:A:THR:HA	16	0.95	0.16	0.9
(3,2069)	1:62:A:LEU:HD13	1:89:A:THR:HA	16	0.95	0.16	0.9
(3,914)	1:120:A:LEU:HD21	1:123:A:LYS:HB2	16	0.95	0.38	0.98
(3,914)	1:120:A:LEU:HD22	1:123:A:LYS:HB2	16	0.95	0.38	0.98
(3,914)	1:120:A:LEU:HD23	1:149:A:GLU:HG2	16	0.95	0.38	0.98
(3,914)	1:120:A:LEU:HD23	1:123:A:LYS:HB2	16	0.95	0.38	0.98
(3,914)	1:120:A:LEU:HD22	1:149:A:GLU:HB2	16	0.95	0.38	0.98
(3,914)	1:120:A:LEU:HD23	1:149:A:GLU:HG3	16	0.95	0.38	0.98

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,914)	1:120:A:LEU:HD21	1:149:A:GLU:HG3	16	0.95	0.38	0.98
(3,914)	1:120:A:LEU:HD22	1:149:A:GLU:HG3	16	0.95	0.38	0.98
(3,2451)	1:7:A:VAL:HA	1:81:A:ALA:HB1	16	0.87	0.5	0.82
(3,2451)	1:81:A:ALA:HB2	1:82:A:SER:HB3	16	0.87	0.5	0.82
(3,2451)	1:7:A:VAL:HA	1:81:A:ALA:HB2	16	0.87	0.5	0.82
(3,2451)	1:7:A:VAL:HA	1:81:A:ALA:HB3	16	0.87	0.5	0.82
(3,2451)	1:81:A:ALA:HB1	1:82:A:SER:HB3	16	0.87	0.5	0.82
(3,2451)	1:81:A:ALA:HB3	1:82:A:SER:HB3	16	0.87	0.5	0.82
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	16	0.8	0.22	0.88
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	16	0.8	0.22	0.88
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	16	0.8	0.22	0.88
(3,1318)	1:99:A:TYR:HD1	1:101:A:VAL:HG13	16	0.8	0.22	0.88
(3,2474)	1:107:A:LEU:H	1:144:A:LEU:HD21	16	0.79	0.23	0.84
(3,2474)	1:144:A:LEU:HD23	1:145:A:ARG:H	16	0.79	0.23	0.84
(3,2474)	1:107:A:LEU:H	1:144:A:LEU:HD22	16	0.79	0.23	0.84
(3,2474)	1:144:A:LEU:HD21	1:145:A:ARG:H	16	0.79	0.23	0.84
(3,2474)	1:107:A:LEU:H	1:144:A:LEU:HD23	16	0.79	0.23	0.84
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG11	16	0.7	0.04	0.72
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG13	16	0.7	0.04	0.72
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG12	16	0.7	0.04	0.72
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG13	16	0.67	0.22	0.68
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG12	16	0.67	0.22	0.68
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG11	16	0.67	0.22	0.68
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG21	16	0.65	0.16	0.69
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG22	16	0.65	0.16	0.69
(3,2294)	1:19:A:THR:HG23	1:20:A:GLY:H	16	0.65	0.16	0.69
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG23	16	0.65	0.16	0.69
(3,2294)	1:19:A:THR:HG21	1:20:A:GLY:H	16	0.65	0.16	0.69
(3,1752)	1:14:A:LEU:HD22	1:30:A:LYS:HB2	16	0.63	0.38	0.48
(3,1752)	1:14:A:LEU:HD21	1:30:A:LYS:HB2	16	0.63	0.38	0.48
(3,1752)	1:14:A:LEU:HD23	1:30:A:LYS:HB2	16	0.63	0.38	0.48
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	16	0.59	0.0	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	16	0.59	0.0	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	16	0.59	0.0	0.59
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	16	0.58	0.28	0.66
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	16	0.58	0.28	0.66
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	16	0.58	0.28	0.66
(3,878)	1:12:A:GLU:HB2	1:77:A:ILE:HG21	16	0.58	0.28	0.66
(3,878)	1:12:A:GLU:HB2	1:77:A:ILE:HG22	16	0.58	0.28	0.66
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	16	0.57	0.12	0.6
(3,305)	1:55:A:ALA:HB3	1:56:A:THR:H	16	0.53	0.19	0.56
(3,305)	1:106:A:THR:HG23	1:107:A:LEU:H	16	0.53	0.19	0.56

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,305)	1:55:A:ALA:HB2	1:56:A:THR:H	16	0.53	0.19	0.56
(3,305)	1:55:A:ALA:HB1	1:56:A:THR:H	16	0.53	0.19	0.56
(3,305)	1:106:A:THR:HG22	1:107:A:LEU:H	16	0.53	0.19	0.56
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG12	16	0.52	0.12	0.53
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG11	16	0.52	0.12	0.53
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG13	16	0.52	0.12	0.53
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG22	16	0.51	0.13	0.52
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG23	16	0.51	0.13	0.52
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG21	16	0.51	0.13	0.52
(3,1426)	1:62:A:LEU:HD23	1:66:A:ALA:HB1	16	0.51	0.24	0.48
(3,1426)	1:62:A:LEU:HD13	1:66:A:ALA:HB2	16	0.51	0.24	0.48
(3,1426)	1:62:A:LEU:HD21	1:66:A:ALA:HB3	16	0.51	0.24	0.48
(3,1426)	1:62:A:LEU:HD22	1:66:A:ALA:HB2	16	0.51	0.24	0.48
(3,1426)	1:62:A:LEU:HD23	1:66:A:ALA:HB2	16	0.51	0.24	0.48
(3,1426)	1:45:A:LYS:HG3	1:62:A:LEU:HD23	16	0.51	0.24	0.48
(3,1426)	1:62:A:LEU:HD21	1:66:A:ALA:HB1	16	0.51	0.24	0.48
(3,1426)	1:62:A:LEU:HD22	1:66:A:ALA:HB1	16	0.51	0.24	0.48
(3,1426)	1:62:A:LEU:HD23	1:66:A:ALA:HB3	16	0.51	0.24	0.48
(3,1426)	1:62:A:LEU:HD11	1:66:A:ALA:HB3	16	0.51	0.24	0.48
(3,1426)	1:62:A:LEU:HD12	1:66:A:ALA:HB3	16	0.51	0.24	0.48
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	16	0.51	0.0	0.51
(3,2487)	1:35:A:LEU:HD21	1:43:A:ALA:HA	16	0.49	0.24	0.42
(3,2487)	1:35:A:LEU:HD23	1:43:A:ALA:HA	16	0.49	0.24	0.42
(3,2487)	1:43:A:ALA:HA	1:46:A:VAL:HG13	16	0.49	0.24	0.42
(3,2487)	1:43:A:ALA:HA	1:46:A:VAL:HG12	16	0.49	0.24	0.42
(3,2487)	1:43:A:ALA:HA	1:46:A:VAL:HG11	16	0.49	0.24	0.42
(3,2487)	1:35:A:LEU:HD22	1:43:A:ALA:HA	16	0.49	0.24	0.42
(3,1478)	1:134:A:SER:H	1:134:A:SER:HB3	16	0.47	0.08	0.5
(3,1478)	1:134:A:SER:HB3	1:137:A:LYS:H	16	0.47	0.08	0.5
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB1	16	0.46	0.16	0.52
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB2	16	0.46	0.16	0.52
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB3	16	0.46	0.16	0.52
(1,588)	1:58:A:THR:H	1:83:A:VAL:HG13	16	0.43	0.23	0.46
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG13	16	0.43	0.23	0.46
(1,588)	1:58:A:THR:H	1:83:A:VAL:HG12	16	0.43	0.23	0.46
(1,588)	1:58:A:THR:H	1:83:A:VAL:HG11	16	0.43	0.23	0.46
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG11	16	0.43	0.23	0.46
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG12	16	0.43	0.23	0.46
(3,1920)	1:77:A:ILE:HG22	1:80:A:ILE:HG13	16	0.43	0.16	0.4
(3,1920)	1:77:A:ILE:HG21	1:80:A:ILE:HG13	16	0.43	0.16	0.4
(3,1920)	1:77:A:ILE:HG23	1:80:A:ILE:HG13	16	0.43	0.16	0.4
(3,1850)	1:54:A:LYS:HD3	1:82:A:SER:HB3	16	0.43	0.2	0.38

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1850)	1:54:A:LYS:HD2	1:82:A:SER:HB3	16	0.43	0.2	0.38
(3,113)	1:74:A:VAL:HG12	1:75:A:GLY:H	16	0.38	0.08	0.36
(3,113)	1:74:A:VAL:HG13	1:75:A:GLY:H	16	0.38	0.08	0.36
(3,113)	1:74:A:VAL:HG11	1:75:A:GLY:H	16	0.38	0.08	0.36
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	16	0.38	0.07	0.38
(3,1374)	1:32:A:GLN:HG3	1:48:A:ILE:H	16	0.36	0.11	0.34
(3,1374)	1:32:A:GLN:HG2	1:48:A:ILE:H	16	0.36	0.11	0.34
(3,1374)	1:32:A:GLN:HG2	1:33:A:GLU:H	16	0.36	0.11	0.34
(3,1294)	1:31:A:VAL:HG11	1:35:A:LEU:HD12	16	0.34	0.1	0.33
(3,1294)	1:31:A:VAL:HG13	1:35:A:LEU:HD11	16	0.34	0.1	0.33
(3,1294)	1:71:A:LEU:HD21	1:83:A:VAL:HG11	16	0.34	0.1	0.33
(3,1294)	1:31:A:VAL:HG13	1:77:A:ILE:HG13	16	0.34	0.1	0.33
(3,1294)	1:83:A:VAL:HG12	1:83:A:VAL:HG22	16	0.34	0.1	0.33
(3,1294)	1:83:A:VAL:HG11	1:83:A:VAL:HG21	16	0.34	0.1	0.33
(3,1294)	1:83:A:VAL:HG12	1:83:A:VAL:HG21	16	0.34	0.1	0.33
(3,1294)	1:71:A:LEU:HD23	1:83:A:VAL:HG13	16	0.34	0.1	0.33
(3,1294)	1:71:A:LEU:HD23	1:83:A:VAL:HG12	16	0.34	0.1	0.33
(3,1294)	1:31:A:VAL:HG12	1:35:A:LEU:HD13	16	0.34	0.1	0.33
(3,1294)	1:71:A:LEU:HD22	1:83:A:VAL:HG11	16	0.34	0.1	0.33
(3,1294)	1:71:A:LEU:HD21	1:83:A:VAL:HG12	16	0.34	0.1	0.33
(3,1294)	1:71:A:LEU:HD22	1:83:A:VAL:HG13	16	0.34	0.1	0.33
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	16	0.3	0.1	0.31
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD13	16	0.26	0.1	0.26
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD12	16	0.26	0.1	0.26
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD11	16	0.26	0.1	0.26
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	16	0.25	0.1	0.27
(3,823)	1:65:A:GLU:HA	1:68:A:GLU:HG3	16	0.25	0.1	0.27
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB2	16	0.25	0.1	0.27
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	16	0.23	0.05	0.22
(3,1756)	1:49:A:GLN:HG2	1:56:A:THR:HB	16	0.23	0.05	0.22
(3,994)	1:35:A:LEU:HD23	1:73:A:ALA:HB2	16	0.21	0.08	0.21
(3,994)	1:35:A:LEU:HD22	1:73:A:ALA:HB2	16	0.21	0.08	0.21
(3,994)	1:35:A:LEU:HD21	1:73:A:ALA:HB2	16	0.21	0.08	0.21
(3,994)	1:35:A:LEU:HD22	1:73:A:ALA:HB1	16	0.21	0.08	0.21
(3,994)	1:35:A:LEU:HD23	1:73:A:ALA:HB1	16	0.21	0.08	0.21
(3,994)	1:35:A:LEU:HD21	1:73:A:ALA:HB3	16	0.21	0.08	0.21
(3,994)	1:35:A:LEU:HD22	1:73:A:ALA:HB3	16	0.21	0.08	0.21
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG22	16	0.21	0.04	0.22
(3,1843)	1:35:A:LEU:HD21	1:70:A:ILE:HA	16	0.21	0.04	0.22
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG23	16	0.21	0.04	0.22
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG21	16	0.21	0.04	0.22
(3,1843)	1:35:A:LEU:HD23	1:70:A:ILE:HA	16	0.21	0.04	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	16	0.12	0.02	0.11
(3,1712)	1:57:A:VAL:HG21	1:84:A:ASP:H	15	1.97	1.29	2.74
(3,1712)	1:57:A:VAL:HG23	1:84:A:ASP:H	15	1.97	1.29	2.74
(3,1712)	1:56:A:THR:H	1:57:A:VAL:HG21	15	1.97	1.29	2.74
(3,1712)	1:57:A:VAL:HG22	1:84:A:ASP:H	15	1.97	1.29	2.74
(3,1712)	1:56:A:THR:H	1:57:A:VAL:HG22	15	1.97	1.29	2.74
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	15	1.36	0.68	1.27
(1,237)	1:24:A:LYS:HG2	1:28:A:ALA:H	15	0.94	0.35	1.07
(1,237)	1:28:A:ALA:H	1:29:A:LYS:HG2	15	0.94	0.35	1.07
(1,237)	1:24:A:LYS:HG3	1:28:A:ALA:H	15	0.94	0.35	1.07
(1,237)	1:28:A:ALA:H	1:48:A:ILE:HG13	15	0.94	0.35	1.07
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	15	0.93	0.46	1.16
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	15	0.93	0.46	1.16
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	15	0.93	0.46	1.16
(3,1618)	1:65:A:GLU:HB2	1:66:A:ALA:HA	15	0.87	0.27	0.88
(3,1618)	1:66:A:ALA:HA	1:69:A:LYS:HG3	15	0.87	0.27	0.88
(3,1763)	1:31:A:VAL:HG11	1:32:A:GLN:HA	15	0.83	1.0	0.3
(3,1763)	1:31:A:VAL:HG12	1:32:A:GLN:HA	15	0.83	1.0	0.3
(3,1763)	1:32:A:GLN:HA	1:74:A:VAL:HG12	15	0.83	1.0	0.3
(3,1763)	1:31:A:VAL:HG13	1:32:A:GLN:HA	15	0.83	1.0	0.3
(3,1763)	1:68:A:GLU:HA	1:83:A:VAL:HG13	15	0.83	1.0	0.3
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	15	0.8	0.72	0.24
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	15	0.77	0.05	0.78
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	15	0.77	0.05	0.78
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	15	0.77	0.05	0.78
(3,1424)	1:26:A:ASP:HB3	1:27:A:GLN:HG2	15	0.77	0.26	0.8
(3,1424)	1:26:A:ASP:HB3	1:30:A:LYS:HD2	15	0.77	0.26	0.8
(3,1424)	1:21:A:GLN:HB2	1:26:A:ASP:HB3	15	0.77	0.26	0.8
(3,1424)	1:26:A:ASP:HB3	1:30:A:LYS:HG3	15	0.77	0.26	0.8
(3,1424)	1:26:A:ASP:HB3	1:30:A:LYS:HD3	15	0.77	0.26	0.8
(3,1424)	1:21:A:GLN:HB2	1:26:A:ASP:HB2	15	0.77	0.26	0.8
(3,1424)	1:26:A:ASP:HB2	1:27:A:GLN:HG2	15	0.77	0.26	0.8
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG21	15	0.74	0.49	0.59
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG23	15	0.74	0.49	0.59
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG22	15	0.74	0.49	0.59
(1,62)	1:74:A:VAL:HG23	1:83:A:VAL:H	15	0.74	0.49	0.59
(3,1946)	1:12:A:GLU:HG3	1:14:A:LEU:HG	15	0.73	0.22	0.79
(3,1946)	1:12:A:GLU:HG2	1:14:A:LEU:HG	15	0.73	0.22	0.79
(3,1946)	1:12:A:GLU:HG3	1:38:A:THR:HG22	15	0.73	0.22	0.79
(3,1946)	1:12:A:GLU:HG3	1:38:A:THR:HG21	15	0.73	0.22	0.79
(3,1946)	1:12:A:GLU:HG3	1:38:A:THR:HG23	15	0.73	0.22	0.79
(3,1946)	1:12:A:GLU:HG2	1:38:A:THR:HG23	15	0.73	0.22	0.79

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD13	15	0.73	0.42	0.94
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD12	15	0.73	0.42	0.94
(3,1361)	1:32:A:GLN:HB3	1:35:A:LEU:HD13	15	0.73	0.42	0.94
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD11	15	0.73	0.42	0.94
(3,1361)	1:32:A:GLN:HB2	1:35:A:LEU:HD12	15	0.73	0.42	0.94
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	15	0.67	0.03	0.67
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD22	15	0.63	0.45	0.38
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD23	15	0.63	0.45	0.38
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD21	15	0.63	0.45	0.38
(3,1430)	1:131:A:MET:HE2	1:132:A:LEU:HD13	15	0.63	0.39	0.48
(3,1430)	1:131:A:MET:HE2	1:132:A:LEU:HD11	15	0.63	0.39	0.48
(3,1430)	1:131:A:MET:HE3	1:132:A:LEU:HD12	15	0.63	0.39	0.48
(3,1430)	1:131:A:MET:HE1	1:132:A:LEU:HD11	15	0.63	0.39	0.48
(3,1430)	1:131:A:MET:HE1	1:132:A:LEU:HD12	15	0.63	0.39	0.48
(3,1430)	1:131:A:MET:HE1	1:132:A:LEU:HD13	15	0.63	0.39	0.48
(3,1430)	1:131:A:MET:HE3	1:132:A:LEU:HD13	15	0.63	0.39	0.48
(3,1430)	1:131:A:MET:HE3	1:132:A:LEU:HD11	15	0.63	0.39	0.48
(3,243)	1:29:A:LYS:HG2	1:30:A:LYS:H	15	0.59	0.23	0.63
(3,243)	1:112:A:LYS:H	1:112:A:LYS:HG3	15	0.59	0.23	0.63
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	15	0.59	0.1	0.57
(1,694)	1:67:A:LYS:H	1:87:A:VAL:HB	15	0.59	0.1	0.57
(1,912)	1:54:A:LYS:HB3	1:82:A:SER:H	15	0.54	0.18	0.53
(1,912)	1:54:A:LYS:HD2	1:82:A:SER:H	15	0.54	0.18	0.53
(1,912)	1:54:A:LYS:HD3	1:82:A:SER:H	15	0.54	0.18	0.53
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	15	0.51	0.3	0.38
(3,2120)	1:7:A:VAL:HG12	1:139:A:TYR:HE2	15	0.47	0.26	0.44
(3,2120)	1:132:A:LEU:HD13	1:139:A:TYR:HE1	15	0.47	0.26	0.44
(3,2120)	1:132:A:LEU:HD21	1:139:A:TYR:HE1	15	0.47	0.26	0.44
(3,2120)	1:132:A:LEU:HD12	1:139:A:TYR:HE1	15	0.47	0.26	0.44
(3,2120)	1:132:A:LEU:HD11	1:139:A:TYR:HE1	15	0.47	0.26	0.44
(3,2120)	1:132:A:LEU:HD23	1:139:A:TYR:HE1	15	0.47	0.26	0.44
(3,2120)	1:132:A:LEU:HD22	1:139:A:TYR:HE1	15	0.47	0.26	0.44
(3,2120)	1:7:A:VAL:HG13	1:139:A:TYR:HE2	15	0.47	0.26	0.44
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	15	0.41	0.23	0.31
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	15	0.4	0.17	0.45
(1,1352)	1:38:A:THR:HG22	1:131:A:MET:H	15	0.4	0.17	0.42
(1,1352)	1:38:A:THR:HG23	1:131:A:MET:H	15	0.4	0.17	0.42
(1,1352)	1:38:A:THR:HG21	1:131:A:MET:H	15	0.4	0.17	0.42
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	15	0.38	0.16	0.31
(3,1468)	1:15:A:TRP:HE3	1:30:A:LYS:HD2	15	0.37	0.2	0.33
(3,1468)	1:15:A:TRP:HE3	1:21:A:GLN:HB2	15	0.37	0.2	0.33
(3,1468)	1:15:A:TRP:HE3	1:30:A:LYS:HD3	15	0.37	0.2	0.33

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	15	0.35	0.11	0.36
(3,1388)	1:37:A:LYS:HA	1:39:A:GLY:H	15	0.35	0.11	0.36
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG13	15	0.35	0.12	0.34
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG12	15	0.35	0.12	0.34
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG11	15	0.35	0.12	0.34
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	15	0.32	0.1	0.33
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG21	15	0.32	0.1	0.36
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG22	15	0.32	0.1	0.36
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG23	15	0.32	0.1	0.36
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	15	0.31	0.1	0.28
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	15	0.31	0.1	0.28
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	15	0.31	0.1	0.28
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG12	15	0.3	0.13	0.33
(1,550)	1:55:A:ALA:H	1:83:A:VAL:HG12	15	0.3	0.13	0.33
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG13	15	0.3	0.13	0.33
(1,550)	1:55:A:ALA:H	1:83:A:VAL:HG11	15	0.3	0.13	0.33
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG11	15	0.3	0.13	0.33
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	15	0.29	0.01	0.29
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	15	0.28	0.1	0.29
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	15	0.28	0.1	0.29
(3,1555)	1:40:A:ILE:HG23	1:73:A:ALA:HB3	15	0.28	0.14	0.22
(3,1555)	1:48:A:ILE:HG13	1:48:A:ILE:HG22	15	0.28	0.14	0.22
(3,1555)	1:48:A:ILE:HG13	1:48:A:ILE:HG21	15	0.28	0.14	0.22
(3,1555)	1:40:A:ILE:HG22	1:73:A:ALA:HB2	15	0.28	0.14	0.22
(3,1555)	1:40:A:ILE:HG23	1:73:A:ALA:HB2	15	0.28	0.14	0.22
(3,1555)	1:48:A:ILE:HG13	1:48:A:ILE:HG23	15	0.28	0.14	0.22
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	15	0.26	0.03	0.26
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	15	0.26	0.05	0.26
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	15	0.26	0.05	0.26
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	15	0.26	0.05	0.26
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	15	0.26	0.05	0.26
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	15	0.26	0.05	0.26
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	15	0.26	0.05	0.26
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	15	0.25	0.08	0.24
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD12	15	0.24	0.08	0.24
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD11	15	0.24	0.08	0.24
(3,1492)	1:115:A:TYR:HE2	1:146:A:ILE:HD12	15	0.24	0.08	0.24
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD13	15	0.24	0.08	0.24
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	15	0.24	0.06	0.28
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	15	0.24	0.07	0.23
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	15	0.24	0.07	0.23
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	15	0.19	0.06	0.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	15	0.19	0.03	0.2
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	15	0.18	0.02	0.18
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	15	0.16	0.03	0.16
(3,1604)	1:109:A:ALA:HB2	1:110:A:ILE:H	15	0.15	0.02	0.15
(3,1604)	1:109:A:ALA:HB1	1:110:A:ILE:H	15	0.15	0.02	0.15
(3,1604)	1:109:A:ALA:HB3	1:110:A:ILE:H	15	0.15	0.02	0.15
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	15	0.12	0.01	0.12
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	14	2.11	0.12	2.12
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	14	2.11	0.12	2.12
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	14	2.11	0.12	2.12
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	14	1.95	0.1	1.98
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	14	1.95	0.1	1.98
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	14	1.95	0.1	1.98
(1,1495)	1:132:A:LEU:HD11	1:144:A:LEU:H	14	1.94	0.45	2.08
(1,1495)	1:101:A:VAL:HG12	1:144:A:LEU:H	14	1.94	0.45	2.08
(1,1495)	1:101:A:VAL:HG13	1:144:A:LEU:H	14	1.94	0.45	2.08
(1,1495)	1:132:A:LEU:HD13	1:144:A:LEU:H	14	1.94	0.45	2.08
(1,1495)	1:132:A:LEU:HD12	1:144:A:LEU:H	14	1.94	0.45	2.08
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	14	1.93	1.15	2.55
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	14	1.93	1.15	2.55
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	14	1.93	1.15	2.55
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	14	1.92	0.59	1.78
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	14	1.92	0.59	1.78
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	14	1.92	0.59	1.78
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	14	1.92	0.59	1.78
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	14	1.92	0.59	1.78
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	14	1.92	0.59	1.78
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	14	1.92	0.59	1.78
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	14	1.92	0.59	1.78
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	14	1.92	0.59	1.78
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	14	1.74	0.13	1.72
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	14	1.74	0.13	1.72
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	14	1.74	0.13	1.72
(3,1777)	1:8:A:LYS:HG2	1:79:A:GLY:HA3	14	1.29	0.74	1.03
(3,1777)	1:69:A:LYS:HG2	1:145:A:ARG:HD2	14	1.29	0.74	1.03
(3,1831)	1:14:A:LEU:HD12	1:30:A:LYS:HB2	14	1.26	0.63	1.04
(3,1831)	1:14:A:LEU:HD11	1:30:A:LYS:HB2	14	1.26	0.63	1.04
(3,1831)	1:14:A:LEU:HD13	1:30:A:LYS:HB2	14	1.26	0.63	1.04
(3,433)	1:99:A:TYR:HD1	1:146:A:ILE:HG13	14	1.22	0.16	1.23
(3,433)	1:99:A:TYR:HD2	1:146:A:ILE:HG13	14	1.22	0.16	1.23
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	14	1.09	0.1	1.08
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	14	1.09	0.1	1.08

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	14	1.09	0.1	1.08
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	14	1.09	0.1	1.08
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	14	1.09	0.1	1.08
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	14	1.09	0.1	1.08
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	14	1.09	0.1	1.08
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	14	1.09	0.1	1.08
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	14	1.09	0.1	1.08
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	14	1.09	0.01	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	14	1.09	0.01	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	14	1.09	0.01	1.09
(3,242)	1:29:A:LYS:HE3	1:30:A:LYS:H	14	1.03	0.27	1.06
(3,242)	1:29:A:LYS:HE2	1:30:A:LYS:H	14	1.03	0.27	1.06
(3,242)	1:13:A:LYS:HE2	1:14:A:LEU:H	14	1.03	0.27	1.06
(3,242)	1:13:A:LYS:HE3	1:14:A:LEU:H	14	1.03	0.27	1.06
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	14	1.0	0.05	0.98
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	14	1.0	0.05	0.98
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	14	1.0	0.05	0.98
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	14	0.96	0.39	1.1
(1,274)	1:31:A:VAL:H	1:80:A:ILE:HG12	14	0.96	0.39	1.1
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	14	0.9	0.42	0.92
(1,1851)	1:7:A:VAL:HG13	1:11:A:GLY:H	14	0.87	0.11	0.91
(1,1851)	1:7:A:VAL:HG11	1:11:A:GLY:H	14	0.87	0.11	0.91
(1,1851)	1:7:A:VAL:HG12	1:11:A:GLY:H	14	0.87	0.11	0.91
(1,302)	1:129:A:LYS:HG3	1:132:A:LEU:H	14	0.82	0.22	0.9
(1,302)	1:31:A:VAL:HG21	1:33:A:GLU:H	14	0.82	0.22	0.9
(1,302)	1:31:A:VAL:HG23	1:33:A:GLU:H	14	0.82	0.22	0.9
(1,302)	1:31:A:VAL:HG22	1:33:A:GLU:H	14	0.82	0.22	0.9
(1,290)	1:30:A:LYS:HB3	1:32:A:GLN:H	14	0.76	0.17	0.72
(1,290)	1:32:A:GLN:H	1:35:A:LEU:HG	14	0.76	0.17	0.72
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	14	0.74	0.01	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	14	0.74	0.01	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	14	0.74	0.01	0.74
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG11	14	0.74	0.05	0.74
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG13	14	0.74	0.05	0.74
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG12	14	0.74	0.05	0.74
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG21	14	0.73	0.31	0.65
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG22	14	0.73	0.31	0.65
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG23	14	0.73	0.31	0.65
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	14	0.62	0.05	0.61
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	14	0.62	0.05	0.61
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	14	0.62	0.05	0.61
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	14	0.62	0.22	0.6

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	14	0.62	0.22	0.6
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	14	0.62	0.22	0.6
(3,416)	1:131:A:MET:HE2	1:144:A:LEU:HD11	14	0.61	0.57	0.38
(3,416)	1:72:A:VAL:HG22	1:131:A:MET:HE1	14	0.61	0.57	0.38
(3,416)	1:131:A:MET:HE2	1:144:A:LEU:HD13	14	0.61	0.57	0.38
(3,416)	1:131:A:MET:HE3	1:144:A:LEU:HD12	14	0.61	0.57	0.38
(3,416)	1:72:A:VAL:HG23	1:131:A:MET:HE3	14	0.61	0.57	0.38
(3,416)	1:72:A:VAL:HG22	1:131:A:MET:HE2	14	0.61	0.57	0.38
(3,416)	1:131:A:MET:HE3	1:144:A:LEU:HD11	14	0.61	0.57	0.38
(3,416)	1:72:A:VAL:HG23	1:131:A:MET:HE1	14	0.61	0.57	0.38
(3,1325)	1:99:A:TYR:HE1	1:101:A:VAL:HG21	14	0.59	0.37	0.46
(3,1325)	1:99:A:TYR:HE1	1:101:A:VAL:HG22	14	0.59	0.37	0.46
(3,1325)	1:99:A:TYR:HE1	1:101:A:VAL:HG23	14	0.59	0.37	0.46
(3,1325)	1:6:A:PHE:HZ	1:83:A:VAL:HG22	14	0.59	0.37	0.46
(3,1325)	1:72:A:VAL:HG12	1:98:A:PHE:HE2	14	0.59	0.37	0.46
(3,1325)	1:6:A:PHE:HZ	1:83:A:VAL:HG23	14	0.59	0.37	0.46
(3,1325)	1:6:A:PHE:HZ	1:83:A:VAL:HG21	14	0.59	0.37	0.46
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	14	0.59	0.27	0.76
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG22	14	0.54	0.15	0.6
(1,1104)	1:107:A:LEU:HD23	1:111:A:SER:H	14	0.54	0.15	0.6
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG23	14	0.54	0.15	0.6
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG21	14	0.54	0.15	0.6
(1,1104)	1:107:A:LEU:HD22	1:111:A:SER:H	14	0.54	0.15	0.6
(3,2130)	1:122:A:ASN:HB2	1:125:A:PHE:HD1	14	0.52	0.18	0.51
(3,2130)	1:121:A:TYR:HD1	1:122:A:ASN:HB2	14	0.52	0.18	0.51
(3,2130)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	14	0.52	0.18	0.51
(3,2130)	1:121:A:TYR:HD2	1:122:A:ASN:HB2	14	0.52	0.18	0.51
(3,2130)	1:122:A:ASN:HB3	1:125:A:PHE:HD1	14	0.52	0.18	0.51
(3,2130)	1:121:A:TYR:H	1:122:A:ASN:HB2	14	0.52	0.18	0.51
(3,2129)	1:122:A:ASN:HB2	1:125:A:PHE:HD1	14	0.52	0.18	0.51
(3,2129)	1:121:A:TYR:HD1	1:122:A:ASN:HB2	14	0.52	0.18	0.51
(3,2129)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	14	0.52	0.18	0.51
(3,2129)	1:121:A:TYR:HD2	1:122:A:ASN:HB2	14	0.52	0.18	0.51
(3,2129)	1:122:A:ASN:HB3	1:125:A:PHE:HD1	14	0.52	0.18	0.51
(3,2129)	1:121:A:TYR:H	1:122:A:ASN:HB2	14	0.52	0.18	0.51
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	14	0.52	0.07	0.52
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	14	0.52	0.07	0.52
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	14	0.52	0.07	0.52
(3,1475)	1:142:A:GLN:HB3	1:143:A:VAL:HA	14	0.51	0.17	0.5
(3,1475)	1:54:A:LYS:HD2	1:84:A:ASP:HA	14	0.51	0.17	0.5
(3,1475)	1:54:A:LYS:HD2	1:56:A:THR:HA	14	0.51	0.17	0.5
(3,41)	1:40:A:ILE:HG21	1:43:A:ALA:H	14	0.5	0.23	0.48

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,41)	1:40:A:ILE:HG23	1:43:A:ALA:H	14	0.5	0.23	0.48
(3,41)	1:40:A:ILE:HG22	1:43:A:ALA:H	14	0.5	0.23	0.48
(3,41)	1:32:A:GLN:HE22	1:48:A:ILE:HG22	14	0.5	0.23	0.48
(3,41)	1:32:A:GLN:HE22	1:48:A:ILE:HG21	14	0.5	0.23	0.48
(3,1664)	1:101:A:VAL:HB	1:138:A:ILE:HD13	14	0.49	0.18	0.52
(3,1664)	1:105:A:ASP:HB2	1:138:A:ILE:HD12	14	0.49	0.18	0.52
(3,1664)	1:105:A:ASP:HB2	1:138:A:ILE:HD13	14	0.49	0.18	0.52
(3,1664)	1:101:A:VAL:HB	1:138:A:ILE:HD12	14	0.49	0.18	0.52
(3,1664)	1:105:A:ASP:HB2	1:138:A:ILE:HD11	14	0.49	0.18	0.52
(3,2214)	1:107:A:LEU:HD11	1:108:A:SER:H	14	0.49	0.26	0.38
(3,2214)	1:107:A:LEU:HD13	1:108:A:SER:H	14	0.49	0.26	0.38
(3,2214)	1:107:A:LEU:HD11	1:128:A:ASN:HD22	14	0.49	0.26	0.38
(3,2214)	1:128:A:ASN:HD22	1:132:A:LEU:HD13	14	0.49	0.26	0.38
(3,2214)	1:107:A:LEU:HD13	1:128:A:ASN:HD22	14	0.49	0.26	0.38
(3,2214)	1:128:A:ASN:HD22	1:132:A:LEU:HD11	14	0.49	0.26	0.38
(3,2214)	1:128:A:ASN:HD22	1:132:A:LEU:HD12	14	0.49	0.26	0.38
(3,2214)	1:107:A:LEU:HD12	1:108:A:SER:H	14	0.49	0.26	0.38
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD11	14	0.48	0.28	0.43
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD12	14	0.48	0.28	0.43
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD13	14	0.48	0.28	0.43
(1,1330)	1:72:A:VAL:HG22	1:128:A:ASN:H	14	0.48	0.28	0.43
(1,1330)	1:72:A:VAL:HG23	1:128:A:ASN:H	14	0.48	0.28	0.43
(3,1851)	1:3:A:LEU:HG	1:82:A:SER:HB3	14	0.47	0.15	0.5
(3,1851)	1:81:A:ALA:HB2	1:82:A:SER:HB3	14	0.47	0.15	0.5
(3,1851)	1:81:A:ALA:HB3	1:82:A:SER:HB3	14	0.47	0.15	0.5
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	14	0.45	0.11	0.5
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	14	0.45	0.11	0.5
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	14	0.45	0.11	0.5
(1,1283)	1:124:A:ILE:HG21	1:126:A:GLU:H	14	0.45	0.14	0.44
(1,1283)	1:107:A:LEU:HD23	1:126:A:GLU:H	14	0.45	0.14	0.44
(1,1283)	1:107:A:LEU:HD22	1:126:A:GLU:H	14	0.45	0.14	0.44
(1,1283)	1:107:A:LEU:HD21	1:126:A:GLU:H	14	0.45	0.14	0.44
(1,1283)	1:124:A:ILE:HG23	1:126:A:GLU:H	14	0.45	0.14	0.44
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG12	14	0.45	0.15	0.43
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG11	14	0.45	0.15	0.43
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG13	14	0.45	0.15	0.43
(1,1462)	1:101:A:VAL:HG12	1:142:A:GLN:H	14	0.43	0.03	0.43
(1,1462)	1:101:A:VAL:HG13	1:142:A:GLN:H	14	0.43	0.03	0.43
(1,1462)	1:101:A:VAL:HG11	1:142:A:GLN:H	14	0.43	0.03	0.43
(1,1457)	1:138:A:ILE:HD13	1:141:A:GLY:H	14	0.42	0.21	0.38
(1,1457)	1:138:A:ILE:HD12	1:141:A:GLY:H	14	0.42	0.21	0.38
(1,1457)	1:138:A:ILE:HD11	1:141:A:GLY:H	14	0.42	0.21	0.38

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1457)	1:141:A:GLY:H	1:144:A:LEU:HD11	14	0.42	0.21	0.38
(3,906)	1:120:A:LEU:HD21	1:123:A:LYS:HE2	14	0.39	0.14	0.38
(3,906)	1:120:A:LEU:HD22	1:123:A:LYS:HE2	14	0.39	0.14	0.38
(3,906)	1:120:A:LEU:HD23	1:123:A:LYS:HE2	14	0.39	0.14	0.38
(3,906)	1:117:A:ASN:HB2	1:120:A:LEU:HD21	14	0.39	0.14	0.38
(3,906)	1:117:A:ASN:HB2	1:120:A:LEU:HD23	14	0.39	0.14	0.38
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD13	14	0.39	0.2	0.35
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD21	14	0.39	0.2	0.35
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD11	14	0.39	0.2	0.35
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD23	14	0.39	0.2	0.35
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD22	14	0.39	0.2	0.35
(3,2346)	1:85:A:ASP:HA	1:87:A:VAL:HG13	14	0.39	0.15	0.48
(3,2346)	1:100:A:THR:HA	1:101:A:VAL:HG21	14	0.39	0.15	0.48
(3,2346)	1:100:A:THR:HA	1:101:A:VAL:HG23	14	0.39	0.15	0.48
(3,2346)	1:100:A:THR:HA	1:101:A:VAL:HG22	14	0.39	0.15	0.48
(3,2346)	1:85:A:ASP:HA	1:87:A:VAL:HG11	14	0.39	0.15	0.48
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	14	0.36	0.16	0.42
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	14	0.35	0.13	0.37
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	14	0.35	0.13	0.37
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	14	0.35	0.13	0.37
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	14	0.35	0.13	0.37
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	14	0.35	0.13	0.37
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	14	0.35	0.13	0.37
(3,1177)	1:38:A:THR:HB	1:130:A:PRO:HB2	14	0.33	0.11	0.33
(3,1177)	1:113:A:GLN:HA	1:113:A:GLN:HG3	14	0.33	0.11	0.33
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	14	0.32	0.16	0.32
(3,2278)	1:139:A:TYR:HD2	1:140:A:PRO:HD3	14	0.32	0.16	0.32
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	14	0.31	0.09	0.36
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD23	14	0.31	0.1	0.32
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD11	14	0.31	0.1	0.32
(1,1173)	1:114:A:VAL:HG13	1:116:A:GLY:H	14	0.31	0.1	0.32
(1,1173)	1:114:A:VAL:HG11	1:116:A:GLY:H	14	0.31	0.1	0.32
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD21	14	0.31	0.1	0.32
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD22	14	0.31	0.1	0.32
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	14	0.31	0.02	0.31
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	14	0.31	0.02	0.31
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	14	0.31	0.02	0.31
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	14	0.29	0.05	0.3
(3,2465)	1:110:A:ILE:HD11	1:144:A:LEU:H	14	0.28	0.15	0.26
(3,2465)	1:110:A:ILE:HD12	1:144:A:LEU:H	14	0.28	0.15	0.26
(3,2465)	1:110:A:ILE:HD13	1:144:A:LEU:H	14	0.28	0.15	0.26
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	14	0.27	0.05	0.3

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG11	14	0.27	0.15	0.24
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG12	14	0.27	0.15	0.24
(1,765)	1:71:A:LEU:H	1:74:A:VAL:HG12	14	0.27	0.15	0.24
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG13	14	0.27	0.15	0.24
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD2	14	0.27	0.14	0.24
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD3	14	0.27	0.14	0.24
(3,2045)	1:111:A:SER:HB3	1:120:A:LEU:HB2	14	0.27	0.14	0.24
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD12	14	0.26	0.09	0.25
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD13	14	0.26	0.09	0.25
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD11	14	0.26	0.09	0.25
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	14	0.25	0.09	0.24
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:HD1	14	0.25	0.09	0.24
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE3	14	0.24	0.09	0.21
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE1	14	0.24	0.09	0.21
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE2	14	0.24	0.09	0.21
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG22	14	0.24	0.03	0.24
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG12	14	0.24	0.03	0.24
(3,1635)	1:100:A:THR:HG23	1:141:A:GLY:HA2	14	0.24	0.03	0.24
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG21	14	0.24	0.03	0.24
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG11	14	0.24	0.03	0.24
(3,1635)	1:100:A:THR:HG21	1:141:A:GLY:HA2	14	0.24	0.03	0.24
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	14	0.23	0.09	0.2
(3,1370)	1:49:A:GLN:HG2	1:50:A:ILE:HA	14	0.23	0.09	0.2
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	14	0.22	0.03	0.22
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	14	0.22	0.03	0.22
(3,2168)	1:124:A:ILE:HG21	1:128:A:ASN:HB2	14	0.22	0.06	0.22
(3,2168)	1:124:A:ILE:HG22	1:128:A:ASN:HB2	14	0.22	0.06	0.22
(3,2168)	1:124:A:ILE:HG23	1:128:A:ASN:HB2	14	0.22	0.06	0.22
(1,1149)	1:99:A:TYR:HE2	1:114:A:VAL:H	14	0.21	0.07	0.19
(1,1149)	1:114:A:VAL:H	1:117:A:ASN:H	14	0.21	0.07	0.19
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	14	0.19	0.05	0.18
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	14	0.19	0.06	0.17
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	14	0.19	0.06	0.17
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	14	0.19	0.07	0.16
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	14	0.19	0.07	0.16
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	14	0.19	0.07	0.16
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB3	14	0.18	0.05	0.18
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB2	14	0.18	0.05	0.18
(3,934)	1:14:A:LEU:HD13	1:35:A:LEU:H	13	1.49	0.2	1.55
(3,934)	1:14:A:LEU:HD12	1:35:A:LEU:H	13	1.49	0.2	1.55
(3,934)	1:14:A:LEU:HD12	1:31:A:VAL:H	13	1.49	0.2	1.55
(3,934)	1:14:A:LEU:HD13	1:31:A:VAL:H	13	1.49	0.2	1.55

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,934)	1:14:A:LEU:HD11	1:31:A:VAL:H	13	1.49	0.2	1.55
(3,934)	1:14:A:LEU:HD11	1:35:A:LEU:H	13	1.49	0.2	1.55
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	13	1.42	0.87	1.82
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	13	1.42	0.87	1.82
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	13	1.42	0.87	1.82
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	13	1.33	0.23	1.36
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	13	1.33	0.23	1.36
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	13	1.33	0.23	1.36
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	13	1.2	0.19	1.13
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	13	1.2	0.19	1.13
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	13	1.2	0.19	1.13
(3,951)	1:67:A:LYS:HE3	1:71:A:LEU:HD13	13	1.1	0.55	1.07
(3,951)	1:67:A:LYS:HE3	1:71:A:LEU:HD11	13	1.1	0.55	1.07
(3,951)	1:67:A:LYS:HE2	1:71:A:LEU:HD12	13	1.1	0.55	1.07
(3,951)	1:4:A:PHE:HB2	1:71:A:LEU:HD13	13	1.1	0.55	1.07
(3,951)	1:67:A:LYS:HE2	1:71:A:LEU:HD11	13	1.1	0.55	1.07
(3,951)	1:4:A:PHE:HB2	1:71:A:LEU:HD11	13	1.1	0.55	1.07
(3,951)	1:67:A:LYS:HE3	1:71:A:LEU:HD12	13	1.1	0.55	1.07
(3,951)	1:62:A:LEU:HD13	1:67:A:LYS:HE3	13	1.1	0.55	1.07
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	13	1.08	0.2	1.01
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	13	1.08	0.2	1.01
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	13	1.08	0.2	1.01
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	13	0.99	0.18	1.03
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	13	0.99	0.18	1.03
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	13	0.99	0.18	1.03
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	13	0.99	0.18	1.03
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	13	0.99	0.18	1.03
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	13	0.99	0.18	1.03
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	13	0.99	0.18	1.03
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	13	0.99	0.18	1.03
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	13	0.99	0.18	1.03
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG23	13	0.96	0.08	0.94
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG22	13	0.96	0.08	0.94
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG21	13	0.96	0.08	0.94
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	13	0.95	0.16	0.98
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	13	0.95	0.16	0.98
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	13	0.95	0.16	0.98
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	13	0.91	0.74	0.52
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	13	0.91	0.74	0.52
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	13	0.91	0.74	0.52
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	13	0.83	0.16	0.9
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	13	0.83	0.16	0.9

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	13	0.83	0.16	0.9
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	13	0.82	0.16	0.89
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	13	0.82	0.16	0.89
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	13	0.82	0.16	0.89
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	13	0.79	0.13	0.78
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	13	0.79	0.13	0.78
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	13	0.79	0.13	0.78
(3,1606)	1:127:A:ALA:HB1	1:147:A:PRO:HD2	13	0.7	0.39	0.94
(3,1606)	1:17:A:ALA:HB1	1:79:A:GLY:HA3	13	0.7	0.39	0.94
(3,1606)	1:17:A:ALA:HB2	1:79:A:GLY:HA3	13	0.7	0.39	0.94
(3,1606)	1:17:A:ALA:HB3	1:79:A:GLY:HA3	13	0.7	0.39	0.94
(3,1606)	1:127:A:ALA:HB3	1:147:A:PRO:HD2	13	0.7	0.39	0.94
(3,1606)	1:127:A:ALA:HB2	1:147:A:PRO:HD2	13	0.7	0.39	0.94
(3,1606)	1:127:A:ALA:HB2	1:145:A:ARG:HD2	13	0.7	0.39	0.94
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HG	13	0.68	0.3	0.69
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HB3	13	0.68	0.3	0.69
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	13	0.67	0.32	0.6
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	13	0.67	0.32	0.6
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	13	0.67	0.32	0.6
(3,2006)	1:112:A:LYS:HE3	1:118:A:ALA:HB2	13	0.65	0.2	0.62
(3,2006)	1:118:A:ALA:HB1	1:121:A:TYR:HB3	13	0.65	0.2	0.62
(3,2006)	1:112:A:LYS:HE3	1:118:A:ALA:HB3	13	0.65	0.2	0.62
(3,2006)	1:118:A:ALA:HB3	1:121:A:TYR:HB3	13	0.65	0.2	0.62
(3,2006)	1:112:A:LYS:HE2	1:118:A:ALA:HB2	13	0.65	0.2	0.62
(3,2006)	1:112:A:LYS:HE2	1:118:A:ALA:HB3	13	0.65	0.2	0.62
(3,2006)	1:112:A:LYS:HE3	1:118:A:ALA:HB1	13	0.65	0.2	0.62
(3,479)	1:115:A:TYR:HE1	1:150:A:LEU:H	13	0.65	0.16	0.68
(3,479)	1:115:A:TYR:H	1:115:A:TYR:HE2	13	0.65	0.16	0.68
(3,2209)	1:38:A:THR:HG22	1:131:A:MET:HG3	13	0.62	0.34	0.58
(3,2209)	1:38:A:THR:HG23	1:131:A:MET:HG3	13	0.62	0.34	0.58
(3,2209)	1:38:A:THR:HG21	1:131:A:MET:HG3	13	0.62	0.34	0.58
(3,2209)	1:131:A:MET:HG3	1:132:A:LEU:HD21	13	0.62	0.34	0.58
(3,1384)	1:68:A:GLU:HG3	1:69:A:LYS:H	13	0.61	0.22	0.68
(3,1384)	1:33:A:GLU:HG2	1:34:A:HIS:H	13	0.61	0.22	0.68
(1,630)	1:61:A:GLY:H	1:62:A:LEU:HG	13	0.6	0.09	0.59
(1,630)	1:61:A:GLY:H	1:88:A:LYS:HG2	13	0.6	0.09	0.59
(1,671)	1:62:A:LEU:HD21	1:66:A:ALA:H	13	0.56	0.28	0.59
(1,671)	1:62:A:LEU:HD22	1:66:A:ALA:H	13	0.56	0.28	0.59
(1,671)	1:62:A:LEU:HD23	1:66:A:ALA:H	13	0.56	0.28	0.59
(1,671)	1:66:A:ALA:H	1:70:A:ILE:HD13	13	0.56	0.28	0.59
(1,671)	1:62:A:LEU:HD13	1:66:A:ALA:H	13	0.56	0.28	0.59
(1,671)	1:62:A:LEU:HD11	1:66:A:ALA:H	13	0.56	0.28	0.59

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,671)	1:62:A:LEU:HD12	1:66:A:ALA:H	13	0.56	0.28	0.59
(1,134)	1:12:A:GLU:H	1:14:A:LEU:HG	13	0.54	0.13	0.52
(1,134)	1:12:A:GLU:H	1:38:A:THR:HG21	13	0.54	0.13	0.52
(1,134)	1:12:A:GLU:H	1:38:A:THR:HG22	13	0.54	0.13	0.52
(1,134)	1:12:A:GLU:H	1:38:A:THR:HG23	13	0.54	0.13	0.52
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HB3	13	0.52	0.17	0.6
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HG	13	0.52	0.17	0.6
(1,184)	1:13:A:LYS:HE3	1:15:A:TRP:H	13	0.52	0.19	0.49
(1,184)	1:13:A:LYS:HE2	1:15:A:TRP:H	13	0.52	0.19	0.49
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	13	0.5	0.19	0.54
(3,222)	1:150:A:LEU:H	1:150:A:LEU:HG	13	0.47	0.17	0.48
(3,222)	1:3:A:LEU:H	1:3:A:LEU:HG	13	0.47	0.17	0.48
(3,222)	1:150:A:LEU:HG	1:151:A:GLU:H	13	0.47	0.17	0.48
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	13	0.47	0.11	0.42
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	13	0.47	0.11	0.42
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	13	0.47	0.11	0.42
(1,961)	1:87:A:VAL:H	1:88:A:LYS:HG3	13	0.44	0.42	0.27
(1,961)	1:67:A:LYS:HB3	1:87:A:VAL:H	13	0.44	0.42	0.27
(3,1637)	1:91:A:THR:HG23	1:92:A:PRO:HD2	13	0.44	0.16	0.45
(3,1637)	1:91:A:THR:HG22	1:92:A:PRO:HD2	13	0.44	0.16	0.45
(3,1637)	1:91:A:THR:HG21	1:92:A:PRO:HD2	13	0.44	0.16	0.45
(3,1556)	1:48:A:ILE:HG21	1:55:A:ALA:HB1	13	0.4	0.18	0.4
(3,1556)	1:48:A:ILE:HG22	1:55:A:ALA:HB2	13	0.4	0.18	0.4
(3,1556)	1:40:A:ILE:HG22	1:43:A:ALA:HB2	13	0.4	0.18	0.4
(3,1556)	1:48:A:ILE:HG21	1:55:A:ALA:HB3	13	0.4	0.18	0.4
(3,1556)	1:40:A:ILE:HG21	1:43:A:ALA:HB1	13	0.4	0.18	0.4
(3,1556)	1:40:A:ILE:HG23	1:43:A:ALA:HB1	13	0.4	0.18	0.4
(3,1556)	1:48:A:ILE:HG21	1:55:A:ALA:HB2	13	0.4	0.18	0.4
(3,1556)	1:48:A:ILE:HG23	1:55:A:ALA:HB3	13	0.4	0.18	0.4
(3,1556)	1:48:A:ILE:HG23	1:55:A:ALA:HB2	13	0.4	0.18	0.4
(3,1556)	1:40:A:ILE:HG21	1:43:A:ALA:HB2	13	0.4	0.18	0.4
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	13	0.39	0.31	0.18
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	13	0.37	0.14	0.36
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD21	13	0.34	0.12	0.38
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD22	13	0.34	0.12	0.38
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD23	13	0.34	0.12	0.38
(1,1277)	1:122:A:ASN:HB3	1:126:A:GLU:H	13	0.32	0.08	0.34
(1,1277)	1:126:A:GLU:H	1:129:A:LYS:HE3	13	0.32	0.08	0.34
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	13	0.32	0.12	0.4
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	13	0.32	0.12	0.4
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	13	0.32	0.22	0.14
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	13	0.32	0.22	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	13	0.32	0.22	0.14
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	13	0.27	0.12	0.27
(3,997)	1:124:A:ILE:HA	1:127:A:ALA:HB2	13	0.25	0.09	0.25
(3,997)	1:127:A:ALA:HB3	1:147:A:PRO:HD3	13	0.25	0.09	0.25
(3,997)	1:124:A:ILE:HA	1:127:A:ALA:HB1	13	0.25	0.09	0.25
(3,997)	1:124:A:ILE:HA	1:127:A:ALA:HB3	13	0.25	0.09	0.25
(3,997)	1:127:A:ALA:HB2	1:147:A:PRO:HD3	13	0.25	0.09	0.25
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	13	0.24	0.07	0.25
(3,2248)	1:125:A:PHE:HA	1:135:A:PRO:HA	13	0.23	0.11	0.18
(3,2248)	1:106:A:THR:HB	1:135:A:PRO:HA	13	0.23	0.11	0.18
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB2	13	0.21	0.08	0.19
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB3	13	0.21	0.08	0.19
(1,294)	1:31:A:VAL:HG22	1:32:A:GLN:H	13	0.19	0.06	0.17
(1,294)	1:31:A:VAL:HG23	1:32:A:GLN:H	13	0.19	0.06	0.17
(1,294)	1:31:A:VAL:HG21	1:32:A:GLN:H	13	0.19	0.06	0.17
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	13	0.18	0.04	0.17
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	13	0.18	0.04	0.17
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	13	0.13	0.01	0.13
(3,84)	1:32:A:GLN:H	1:32:A:GLN:HA	13	0.11	0.01	0.11
(3,84)	1:65:A:GLU:H	1:65:A:GLU:HA	13	0.11	0.01	0.11
(3,84)	1:68:A:GLU:H	1:68:A:GLU:HA	13	0.11	0.01	0.11
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG12	12	2.44	0.34	2.42
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG11	12	2.44	0.34	2.42
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG13	12	2.44	0.34	2.42
(1,1834)	1:32:A:GLN:HE21	1:48:A:ILE:HG21	12	2.28	0.29	2.2
(1,1834)	1:32:A:GLN:HE21	1:48:A:ILE:HG23	12	2.28	0.29	2.2
(1,1834)	1:32:A:GLN:HE21	1:46:A:VAL:HG13	12	2.28	0.29	2.2
(1,1834)	1:32:A:GLN:HE21	1:46:A:VAL:HG12	12	2.28	0.29	2.2
(1,1834)	1:32:A:GLN:HE21	1:48:A:ILE:HG22	12	2.28	0.29	2.2
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG11	12	2.19	0.17	2.17
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG12	12	2.19	0.17	2.17
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG13	12	2.19	0.17	2.17
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG11	12	2.16	0.16	2.08
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG12	12	2.16	0.16	2.08
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG13	12	2.16	0.16	2.08
(3,1698)	1:32:A:GLN:HE21	1:48:A:ILE:HG21	12	2.1	0.13	2.09
(3,1698)	1:32:A:GLN:HE21	1:48:A:ILE:HG23	12	2.1	0.13	2.09
(3,1698)	1:46:A:VAL:HG11	1:62:A:LEU:H	12	2.1	0.13	2.09
(3,1698)	1:46:A:VAL:HG13	1:62:A:LEU:H	12	2.1	0.13	2.09
(3,1698)	1:46:A:VAL:HG12	1:62:A:LEU:H	12	2.1	0.13	2.09
(3,1698)	1:32:A:GLN:HE21	1:48:A:ILE:HG22	12	2.1	0.13	2.09
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG21	12	2.06	0.12	2.06

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG22	12	2.06	0.12	2.06
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG23	12	2.06	0.12	2.06
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG21	12	1.97	0.1	1.99
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG22	12	1.97	0.1	1.99
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG23	12	1.97	0.1	1.99
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG21	12	1.9	0.12	1.9
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG22	12	1.9	0.12	1.9
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG23	12	1.9	0.12	1.9
(3,2034)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	12	1.35	0.21	1.36
(3,2034)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	12	1.35	0.21	1.36
(3,2034)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	12	1.35	0.21	1.36
(1,1097)	1:107:A:LEU:HD21	1:110:A:ILE:H	12	1.3	0.37	1.36
(1,1097)	1:110:A:ILE:H	1:124:A:ILE:HG23	12	1.3	0.37	1.36
(1,1097)	1:110:A:ILE:H	1:124:A:ILE:HG22	12	1.3	0.37	1.36
(1,1097)	1:107:A:LEU:HD23	1:110:A:ILE:H	12	1.3	0.37	1.36
(1,1097)	1:110:A:ILE:H	1:124:A:ILE:HG21	12	1.3	0.37	1.36
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG21	12	1.19	0.11	1.17
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG22	12	1.19	0.11	1.17
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG23	12	1.19	0.11	1.17
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG21	12	1.16	0.3	1.25
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG22	12	1.16	0.3	1.25
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG23	12	1.16	0.3	1.25
(1,890)	1:53:A:GLY:HA3	1:80:A:ILE:H	12	1.11	0.2	1.09
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG11	12	1.11	0.35	1.27
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG12	12	1.11	0.35	1.27
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG13	12	1.11	0.35	1.27
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	12	1.06	0.12	1.08
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	12	1.06	0.12	1.08
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	12	1.06	0.12	1.08
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	12	1.06	0.12	1.08
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	12	1.06	0.12	1.08
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	12	1.06	0.12	1.08
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG11	12	0.96	0.01	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG12	12	0.96	0.01	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG13	12	0.96	0.01	0.96
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD11	12	0.96	0.14	0.98
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD12	12	0.96	0.14	0.98
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD13	12	0.96	0.14	0.98
(3,2306)	1:132:A:LEU:HD12	1:144:A:LEU:HD21	12	0.94	0.77	0.79
(3,2306)	1:101:A:VAL:HG12	1:144:A:LEU:HD21	12	0.94	0.77	0.79
(3,2306)	1:107:A:LEU:HD13	1:144:A:LEU:HD22	12	0.94	0.77	0.79
(3,2306)	1:132:A:LEU:HD11	1:144:A:LEU:HD22	12	0.94	0.77	0.79

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2306)	1:107:A:LEU:HD13	1:144:A:LEU:HD23	12	0.94	0.77	0.79
(3,2306)	1:132:A:LEU:HD11	1:144:A:LEU:HD23	12	0.94	0.77	0.79
(3,2306)	1:132:A:LEU:HD13	1:144:A:LEU:HD22	12	0.94	0.77	0.79
(3,2306)	1:107:A:LEU:HD11	1:144:A:LEU:HD21	12	0.94	0.77	0.79
(3,2306)	1:101:A:VAL:HG13	1:144:A:LEU:HD23	12	0.94	0.77	0.79
(3,76)	1:57:A:VAL:HG22	1:58:A:THR:H	12	0.88	0.26	0.93
(3,76)	1:57:A:VAL:HG23	1:58:A:THR:H	12	0.88	0.26	0.93
(3,76)	1:57:A:VAL:HG21	1:58:A:THR:H	12	0.88	0.26	0.93
(3,76)	1:57:A:VAL:HG23	1:87:A:VAL:H	12	0.88	0.26	0.93
(3,292)	1:92:A:PRO:HB3	1:92:A:PRO:HD3	12	0.88	0.44	1.12
(3,361)	1:20:A:GLY:H	1:21:A:GLN:HB3	12	0.82	0.48	0.54
(3,361)	1:21:A:GLN:HB3	1:23:A:ASP:H	12	0.82	0.48	0.54
(3,361)	1:18:A:VAL:H	1:21:A:GLN:HB3	12	0.82	0.48	0.54
(3,2228)	1:132:A:LEU:HD13	1:144:A:LEU:HD13	12	0.82	0.62	0.72
(3,2228)	1:107:A:LEU:HD13	1:144:A:LEU:HD22	12	0.82	0.62	0.72
(3,2228)	1:107:A:LEU:HD13	1:144:A:LEU:HD23	12	0.82	0.62	0.72
(3,2228)	1:107:A:LEU:HD12	1:144:A:LEU:HD12	12	0.82	0.62	0.72
(3,2228)	1:132:A:LEU:HD12	1:144:A:LEU:HD13	12	0.82	0.62	0.72
(3,2228)	1:132:A:LEU:HD12	1:144:A:LEU:HD21	12	0.82	0.62	0.72
(3,2228)	1:132:A:LEU:HD13	1:144:A:LEU:HD12	12	0.82	0.62	0.72
(3,2228)	1:132:A:LEU:HD12	1:144:A:LEU:HD11	12	0.82	0.62	0.72
(3,2228)	1:132:A:LEU:HD12	1:144:A:LEU:HD12	12	0.82	0.62	0.72
(3,2228)	1:132:A:LEU:HD11	1:144:A:LEU:HD13	12	0.82	0.62	0.72
(3,2228)	1:107:A:LEU:HD13	1:144:A:LEU:HD13	12	0.82	0.62	0.72
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE1	12	0.8	0.34	0.91
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE2	12	0.8	0.34	0.91
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE3	12	0.8	0.34	0.91
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE1	12	0.8	0.34	0.91
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE2	12	0.8	0.34	0.91
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE3	12	0.8	0.34	0.91
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE1	12	0.8	0.34	0.91
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE2	12	0.8	0.34	0.91
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE3	12	0.8	0.34	0.91
(1,1782)	1:107:A:LEU:HG	1:110:A:ILE:H	12	0.8	0.33	0.78
(3,748)	1:14:A:LEU:HD22	1:30:A:LYS:HB3	12	0.75	0.34	0.96
(3,748)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	12	0.75	0.34	0.96
(3,748)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	12	0.75	0.34	0.96
(3,748)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	12	0.75	0.34	0.96
(3,748)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	12	0.75	0.34	0.96
(3,748)	1:14:A:LEU:HD23	1:30:A:LYS:HB3	12	0.75	0.34	0.96
(1,966)	1:87:A:VAL:HG12	1:88:A:LYS:H	12	0.7	0.1	0.69
(1,966)	1:87:A:VAL:HG13	1:88:A:LYS:H	12	0.7	0.1	0.69

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,966)	1:87:A:VAL:HG11	1:88:A:LYS:H	12	0.7	0.1	0.69
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG13	12	0.68	0.06	0.68
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG11	12	0.68	0.06	0.68
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG12	12	0.68	0.06	0.68
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG21	12	0.56	0.1	0.6
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG22	12	0.56	0.1	0.6
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG23	12	0.56	0.1	0.6
(3,249)	1:62:A:LEU:HD23	1:63:A:SER:H	12	0.52	0.34	0.42
(3,249)	1:35:A:LEU:H	1:35:A:LEU:HD22	12	0.52	0.34	0.42
(3,249)	1:62:A:LEU:HD21	1:63:A:SER:H	12	0.52	0.34	0.42
(3,249)	1:62:A:LEU:HD22	1:63:A:SER:H	12	0.52	0.34	0.42
(3,249)	1:35:A:LEU:H	1:35:A:LEU:HD21	12	0.52	0.34	0.42
(1,269)	1:30:A:LYS:H	1:50:A:ILE:HD11	12	0.51	0.22	0.5
(1,269)	1:30:A:LYS:H	1:48:A:ILE:HG23	12	0.51	0.22	0.5
(1,269)	1:30:A:LYS:H	1:50:A:ILE:HD12	12	0.51	0.22	0.5
(1,269)	1:30:A:LYS:H	1:50:A:ILE:HD13	12	0.51	0.22	0.5
(1,269)	1:30:A:LYS:H	1:48:A:ILE:HG22	12	0.51	0.22	0.5
(1,1898)	1:110:A:ILE:HG13	1:113:A:GLN:HE21	12	0.48	0.14	0.5
(1,1898)	1:113:A:GLN:HE21	1:114:A:VAL:HB	12	0.48	0.14	0.5
(1,1898)	1:102:A:LYS:HD3	1:113:A:GLN:HE21	12	0.48	0.14	0.5
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG22	12	0.48	0.25	0.41
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG21	12	0.48	0.25	0.41
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG23	12	0.48	0.25	0.41
(1,758)	1:68:A:GLU:HG3	1:71:A:LEU:H	12	0.42	0.08	0.43
(3,2171)	1:125:A:PHE:HB3	1:126:A:GLU:HB2	12	0.42	0.08	0.44
(3,2171)	1:124:A:ILE:HB	1:125:A:PHE:HB3	12	0.42	0.08	0.44
(1,83)	1:6:A:PHE:H	1:98:A:PHE:HB3	12	0.41	0.15	0.47
(3,1992)	1:41:A:PRO:HG2	1:69:A:LYS:HE3	12	0.4	0.22	0.38
(3,1992)	1:123:A:LYS:HE3	1:147:A:PRO:HG2	12	0.4	0.22	0.38
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD12	12	0.39	0.09	0.42
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD11	12	0.39	0.09	0.42
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD13	12	0.39	0.09	0.42
(3,830)	1:62:A:LEU:HD13	1:67:A:LYS:HA	12	0.39	0.09	0.42
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD11	12	0.39	0.17	0.36
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD23	12	0.39	0.17	0.36
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD13	12	0.39	0.17	0.36
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD12	12	0.39	0.17	0.36
(1,1292)	1:72:A:VAL:HG22	1:127:A:ALA:H	12	0.39	0.17	0.36
(1,1292)	1:72:A:VAL:HG21	1:127:A:ALA:H	12	0.39	0.17	0.36
(3,325)	1:52:A:ASP:HA	1:52:A:ASP:HB3	12	0.37	0.01	0.37
(1,1529)	1:33:A:GLU:HA	1:36:A:ASN:HD22	12	0.37	0.13	0.35
(3,77)	1:57:A:VAL:HG11	1:87:A:VAL:H	12	0.34	0.15	0.34

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,77)	1:57:A:VAL:HG13	1:87:A:VAL:H	12	0.34	0.15	0.34
(3,77)	1:57:A:VAL:HG13	1:58:A:THR:H	12	0.34	0.15	0.34
(3,77)	1:57:A:VAL:HG11	1:58:A:THR:H	12	0.34	0.15	0.34
(3,77)	1:57:A:VAL:HG12	1:87:A:VAL:H	12	0.34	0.15	0.34
(3,2321)	1:40:A:ILE:HD13	1:69:A:LYS:HE3	12	0.33	0.17	0.31
(3,2321)	1:40:A:ILE:HD13	1:131:A:MET:HG2	12	0.33	0.17	0.31
(3,2321)	1:40:A:ILE:HD12	1:131:A:MET:HG2	12	0.33	0.17	0.31
(3,2321)	1:40:A:ILE:HD11	1:131:A:MET:HG2	12	0.33	0.17	0.31
(3,2321)	1:40:A:ILE:HD12	1:131:A:MET:HG3	12	0.33	0.17	0.31
(3,2321)	1:40:A:ILE:HD11	1:131:A:MET:HG3	12	0.33	0.17	0.31
(3,2321)	1:40:A:ILE:HD13	1:131:A:MET:HG3	12	0.33	0.17	0.31
(1,881)	1:14:A:LEU:HD11	1:80:A:ILE:H	12	0.31	0.23	0.2
(1,881)	1:14:A:LEU:HD12	1:80:A:ILE:H	12	0.31	0.23	0.2
(1,881)	1:14:A:LEU:HD13	1:80:A:ILE:H	12	0.31	0.23	0.2
(1,918)	1:3:A:LEU:HD11	1:82:A:SER:H	12	0.3	0.14	0.28
(1,918)	1:3:A:LEU:HD12	1:82:A:SER:H	12	0.3	0.14	0.28
(1,918)	1:3:A:LEU:HD13	1:82:A:SER:H	12	0.3	0.14	0.28
(1,918)	1:3:A:LEU:HD23	1:82:A:SER:H	12	0.3	0.14	0.28
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB2	12	0.3	0.18	0.22
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB3	12	0.3	0.18	0.22
(3,43)	1:37:A:LYS:H	1:37:A:LYS:HG2	12	0.29	0.05	0.3
(1,1846)	1:105:A:ASP:HB2	1:106:A:THR:H	12	0.23	0.09	0.22
(1,649)	1:62:A:LEU:H	1:90:A:ALA:HA	12	0.22	0.11	0.16
(1,649)	1:59:A:GLY:HA3	1:62:A:LEU:H	12	0.22	0.11	0.16
(1,1662)	1:42:A:ASP:H	1:45:A:LYS:HG3	12	0.22	0.09	0.2
(1,1662)	1:42:A:ASP:H	1:66:A:ALA:HB1	12	0.22	0.09	0.2
(1,1662)	1:42:A:ASP:H	1:66:A:ALA:HB2	12	0.22	0.09	0.2
(1,1662)	1:42:A:ASP:H	1:66:A:ALA:HB3	12	0.22	0.09	0.2
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG3	12	0.21	0.03	0.21
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG2	12	0.21	0.03	0.21
(3,1791)	1:135:A:PRO:HA	1:135:A:PRO:HB2	12	0.19	0.02	0.19
(3,1230)	1:28:A:ALA:HB2	1:50:A:ILE:HG13	12	0.18	0.05	0.18
(3,1230)	1:28:A:ALA:HB1	1:50:A:ILE:HG13	12	0.18	0.05	0.18
(3,1230)	1:28:A:ALA:HB3	1:50:A:ILE:HG13	12	0.18	0.05	0.18
(3,14)	1:144:A:LEU:HB2	1:145:A:ARG:H	12	0.18	0.05	0.19
(3,2778)	1:22:A:HIS:HA	1:23:A:ASP:H	12	0.16	0.03	0.17
(3,2729)	1:126:A:GLU:HG3	1:127:A:ALA:H	12	0.14	0.02	0.15
(3,1605)	1:127:A:ALA:HB1	1:145:A:ARG:H	12	0.14	0.02	0.15
(3,1605)	1:127:A:ALA:HB2	1:145:A:ARG:H	12	0.14	0.02	0.15
(3,1605)	1:127:A:ALA:HB3	1:145:A:ARG:H	12	0.14	0.02	0.15
(3,2262)	1:9:A:ASP:HA	1:78:A:SER:HA	12	0.14	0.03	0.13
(1,1226)	1:121:A:TYR:H	1:124:A:ILE:HG22	11	1.34	0.75	1.87

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1226)	1:107:A:LEU:HD23	1:121:A:TYR:H	11	1.34	0.75	1.87
(1,1226)	1:121:A:TYR:H	1:124:A:ILE:HG21	11	1.34	0.75	1.87
(1,1226)	1:107:A:LEU:HD21	1:121:A:TYR:H	11	1.34	0.75	1.87
(1,1226)	1:107:A:LEU:HD22	1:121:A:TYR:H	11	1.34	0.75	1.87
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB2	11	1.33	0.1	1.38
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB1	11	1.33	0.1	1.38
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB3	11	1.33	0.1	1.38
(1,884)	1:31:A:VAL:HG21	1:80:A:ILE:H	11	1.2	0.11	1.15
(1,884)	1:8:A:LYS:HG2	1:80:A:ILE:H	11	1.2	0.11	1.15
(1,884)	1:31:A:VAL:HG23	1:80:A:ILE:H	11	1.2	0.11	1.15
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG11	11	1.14	0.72	0.77
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG12	11	1.14	0.72	0.77
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG13	11	1.14	0.72	0.77
(3,944)	1:132:A:LEU:HD11	1:144:A:LEU:HA	11	1.04	0.1	1.03
(3,944)	1:132:A:LEU:HD13	1:144:A:LEU:HA	11	1.04	0.1	1.03
(3,944)	1:132:A:LEU:HA	1:132:A:LEU:HD12	11	1.04	0.1	1.03
(3,944)	1:132:A:LEU:HA	1:132:A:LEU:HD13	11	1.04	0.1	1.03
(3,944)	1:132:A:LEU:HD13	1:134:A:SER:HA	11	1.04	0.1	1.03
(3,944)	1:132:A:LEU:HD12	1:144:A:LEU:HA	11	1.04	0.1	1.03
(3,944)	1:132:A:LEU:HA	1:132:A:LEU:HD11	11	1.04	0.1	1.03
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG11	11	1.03	0.63	0.69
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG12	11	1.03	0.63	0.69
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG13	11	1.03	0.63	0.69
(3,1434)	1:132:A:LEU:HD12	1:138:A:ILE:H	11	0.99	0.35	1.0
(3,1434)	1:132:A:LEU:HD11	1:138:A:ILE:H	11	0.99	0.35	1.0
(3,1434)	1:132:A:LEU:HD13	1:138:A:ILE:H	11	0.99	0.35	1.0
(3,1434)	1:107:A:LEU:HD12	1:138:A:ILE:H	11	0.99	0.35	1.0
(3,194)	1:132:A:LEU:HD12	1:133:A:LYS:H	11	0.93	0.14	0.99
(3,194)	1:132:A:LEU:HD11	1:133:A:LYS:H	11	0.93	0.14	0.99
(3,194)	1:132:A:LEU:HD13	1:133:A:LYS:H	11	0.93	0.14	0.99
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG11	11	0.92	0.06	0.93
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG12	11	0.92	0.06	0.93
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG13	11	0.92	0.06	0.93
(1,1750)	1:96:A:SER:H	1:145:A:ARG:HB3	11	0.82	0.2	0.76
(3,2112)	1:132:A:LEU:HD23	1:133:A:LYS:HA	11	0.81	0.13	0.79
(3,2112)	1:132:A:LEU:HD21	1:133:A:LYS:HA	11	0.81	0.13	0.79
(3,2112)	1:125:A:PHE:HA	1:132:A:LEU:HD21	11	0.81	0.13	0.79
(3,2112)	1:132:A:LEU:HD22	1:133:A:LYS:HA	11	0.81	0.13	0.79
(3,2112)	1:125:A:PHE:HA	1:132:A:LEU:HD23	11	0.81	0.13	0.79
(3,1376)	1:110:A:ILE:HB	1:113:A:GLN:HG2	11	0.78	0.11	0.76
(3,1376)	1:32:A:GLN:HG2	1:48:A:ILE:HG13	11	0.78	0.11	0.76
(3,1376)	1:32:A:GLN:HG3	1:48:A:ILE:HG13	11	0.78	0.11	0.76

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,78)	1:57:A:VAL:HG13	1:71:A:LEU:H	11	0.74	0.24	0.77
(3,78)	1:57:A:VAL:HG11	1:71:A:LEU:H	11	0.74	0.24	0.77
(3,78)	1:57:A:VAL:HG12	1:71:A:LEU:H	11	0.74	0.24	0.77
(3,78)	1:57:A:VAL:H	1:57:A:VAL:HG12	11	0.74	0.24	0.77
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD22	11	0.69	0.29	0.65
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD13	11	0.69	0.29	0.65
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD12	11	0.69	0.29	0.65
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD23	11	0.69	0.29	0.65
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD21	11	0.69	0.29	0.65
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD11	11	0.69	0.29	0.65
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD21	11	0.69	0.41	0.49
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	11	0.69	0.41	0.49
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	11	0.69	0.41	0.49
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD21	11	0.69	0.41	0.49
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	11	0.69	0.41	0.49
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	11	0.69	0.41	0.49
(3,1234)	1:29:A:LYS:HA	1:29:A:LYS:HD2	11	0.65	0.34	0.67
(3,1234)	1:29:A:LYS:HA	1:29:A:LYS:HD3	11	0.65	0.34	0.67
(3,1234)	1:33:A:GLU:HA	1:37:A:LYS:HD2	11	0.65	0.34	0.67
(3,1234)	1:29:A:LYS:HA	1:48:A:ILE:HB	11	0.65	0.34	0.67
(3,1495)	1:125:A:PHE:HD2	1:132:A:LEU:HG	11	0.64	0.27	0.6
(3,1495)	1:125:A:PHE:HE2	1:132:A:LEU:HG	11	0.64	0.27	0.6
(1,1571)	1:148:A:GLU:HG3	1:151:A:GLU:H	11	0.63	0.33	0.76
(3,1436)	1:132:A:LEU:HD12	1:138:A:ILE:HA	11	0.55	0.18	0.58
(3,1436)	1:132:A:LEU:HD11	1:138:A:ILE:HA	11	0.55	0.18	0.58
(3,1436)	1:132:A:LEU:HD13	1:138:A:ILE:HA	11	0.55	0.18	0.58
(3,1944)	1:4:A:PHE:H	1:82:A:SER:HB3	11	0.54	0.08	0.52
(3,1944)	1:55:A:ALA:H	1:82:A:SER:HB3	11	0.54	0.08	0.52
(3,1338)	1:72:A:VAL:HG12	1:145:A:ARG:H	11	0.52	0.17	0.55
(3,1338)	1:72:A:VAL:HG13	1:145:A:ARG:H	11	0.52	0.17	0.55
(3,1338)	1:72:A:VAL:HG11	1:145:A:ARG:H	11	0.52	0.17	0.55
(3,760)	1:8:A:LYS:HA	1:8:A:LYS:HG3	11	0.51	0.25	0.72
(3,1707)	1:53:A:GLY:HA3	1:80:A:ILE:HA	11	0.51	0.17	0.5
(3,2145)	1:107:A:LEU:HD22	1:125:A:PHE:HA	11	0.48	0.27	0.33
(3,2145)	1:107:A:LEU:HD23	1:125:A:PHE:HA	11	0.48	0.27	0.33
(3,2145)	1:107:A:LEU:HD21	1:125:A:PHE:HA	11	0.48	0.27	0.33
(3,2145)	1:148:A:GLU:HA	1:150:A:LEU:HD23	11	0.48	0.27	0.33
(3,1421)	1:24:A:LYS:HA	1:50:A:ILE:HB	11	0.48	0.29	0.42
(3,1336)	1:72:A:VAL:HG11	1:73:A:ALA:H	11	0.45	0.29	0.34
(3,1336)	1:72:A:VAL:HG12	1:73:A:ALA:H	11	0.45	0.29	0.34
(3,1336)	1:72:A:VAL:HG13	1:73:A:ALA:H	11	0.45	0.29	0.34
(3,798)	1:106:A:THR:HG23	1:136:A:ASP:HB3	11	0.44	0.5	0.29

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,798)	1:117:A:ASN:HB2	1:120:A:LEU:HG	11	0.44	0.5	0.29
(3,798)	1:106:A:THR:HG21	1:136:A:ASP:HB3	11	0.44	0.5	0.29
(3,798)	1:135:A:PRO:HG3	1:136:A:ASP:HB2	11	0.44	0.5	0.29
(3,1157)	1:112:A:LYS:HG3	1:117:A:ASN:H	11	0.43	0.2	0.36
(3,1157)	1:122:A:ASN:HD21	1:123:A:LYS:HG3	11	0.43	0.2	0.36
(3,1157)	1:115:A:TYR:HE2	1:123:A:LYS:HG3	11	0.43	0.2	0.36
(3,2484)	1:53:A:GLY:HA3	1:80:A:ILE:HA	11	0.43	0.17	0.42
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD13	11	0.42	0.13	0.46
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD12	11	0.42	0.13	0.46
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD11	11	0.42	0.13	0.46
(3,949)	1:107:A:LEU:HD12	1:125:A:PHE:HB2	11	0.4	0.22	0.32
(3,949)	1:107:A:LEU:HD11	1:125:A:PHE:HB2	11	0.4	0.22	0.32
(3,949)	1:107:A:LEU:HD13	1:125:A:PHE:HB2	11	0.4	0.22	0.32
(3,949)	1:125:A:PHE:HB2	1:132:A:LEU:HD11	11	0.4	0.22	0.32
(3,949)	1:125:A:PHE:HB2	1:132:A:LEU:HD12	11	0.4	0.22	0.32
(1,278)	1:14:A:LEU:HD11	1:31:A:VAL:H	11	0.38	0.2	0.35
(1,278)	1:14:A:LEU:HD12	1:31:A:VAL:H	11	0.38	0.2	0.35
(1,278)	1:14:A:LEU:HD13	1:31:A:VAL:H	11	0.38	0.2	0.35
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD23	11	0.38	0.17	0.4
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD22	11	0.38	0.17	0.4
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD21	11	0.38	0.17	0.4
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG21	11	0.37	0.15	0.35
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG22	11	0.37	0.15	0.35
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG23	11	0.37	0.15	0.35
(3,163)	1:92:A:PRO:HA	1:92:A:PRO:HG3	11	0.36	0.02	0.37
(1,609)	1:59:A:GLY:H	1:88:A:LYS:HB2	11	0.31	0.2	0.26
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG12	11	0.31	0.13	0.32
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG11	11	0.31	0.13	0.32
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG13	11	0.31	0.13	0.32
(3,1818)	1:68:A:GLU:HG3	1:98:A:PHE:HE1	11	0.29	0.14	0.26
(3,1818)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	11	0.29	0.14	0.26
(3,2464)	1:82:A:SER:HB2	1:84:A:ASP:H	11	0.29	0.08	0.31
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD11	11	0.29	0.11	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD12	11	0.29	0.11	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD13	11	0.29	0.11	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD21	11	0.29	0.11	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD22	11	0.29	0.11	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD23	11	0.29	0.11	0.29
(1,1359)	1:129:A:LYS:HD3	1:131:A:MET:H	11	0.28	0.16	0.23
(1,1359)	1:129:A:LYS:HG3	1:131:A:MET:H	11	0.28	0.16	0.23
(1,435)	1:44:A:ASP:H	1:45:A:LYS:HD2	11	0.23	0.09	0.23
(3,1269)	1:31:A:VAL:HG21	1:50:A:ILE:HD11	11	0.23	0.12	0.21

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1269)	1:31:A:VAL:HG23	1:50:A:ILE:HD12	11	0.23	0.12	0.21
(3,1269)	1:31:A:VAL:HG22	1:50:A:ILE:HD12	11	0.23	0.12	0.21
(3,1269)	1:31:A:VAL:HG22	1:50:A:ILE:HD13	11	0.23	0.12	0.21
(3,1269)	1:31:A:VAL:HG21	1:50:A:ILE:HD13	11	0.23	0.12	0.21
(3,1269)	1:31:A:VAL:HG21	1:50:A:ILE:HD12	11	0.23	0.12	0.21
(3,1269)	1:31:A:VAL:HG23	1:50:A:ILE:HD11	11	0.23	0.12	0.21
(3,1269)	1:31:A:VAL:HG22	1:48:A:ILE:HG23	11	0.23	0.12	0.21
(3,1269)	1:31:A:VAL:HG23	1:50:A:ILE:HD13	11	0.23	0.12	0.21
(1,142)	1:12:A:GLU:H	1:77:A:ILE:HB	11	0.22	0.08	0.19
(1,1358)	1:130:A:PRO:HG3	1:131:A:MET:H	11	0.21	0.1	0.2
(1,1358)	1:73:A:ALA:HB2	1:131:A:MET:H	11	0.21	0.1	0.2
(1,1358)	1:73:A:ALA:HB3	1:131:A:MET:H	11	0.21	0.1	0.2
(3,155)	1:113:A:GLN:HG3	1:114:A:VAL:H	11	0.19	0.09	0.17
(3,155)	1:49:A:GLN:H	1:49:A:GLN:HG3	11	0.19	0.09	0.17
(1,920)	1:83:A:VAL:HG21	1:84:A:ASP:H	11	0.19	0.06	0.19
(1,920)	1:57:A:VAL:HG11	1:84:A:ASP:H	11	0.19	0.06	0.19
(1,920)	1:83:A:VAL:HG22	1:84:A:ASP:H	11	0.19	0.06	0.19
(1,920)	1:57:A:VAL:HG12	1:84:A:ASP:H	11	0.19	0.06	0.19
(1,920)	1:83:A:VAL:HG23	1:84:A:ASP:H	11	0.19	0.06	0.19
(3,313)	1:45:A:LYS:HA	1:45:A:LYS:HG2	11	0.19	0.04	0.2
(1,509)	1:50:A:ILE:H	1:50:A:ILE:HD12	11	0.18	0.04	0.17
(1,509)	1:50:A:ILE:H	1:50:A:ILE:HD13	11	0.18	0.04	0.17
(1,509)	1:48:A:ILE:HG21	1:50:A:ILE:H	11	0.18	0.04	0.17
(1,509)	1:50:A:ILE:H	1:50:A:ILE:HD11	11	0.18	0.04	0.17
(3,2407)	1:142:A:GLN:HB2	1:143:A:VAL:H	11	0.18	0.04	0.18
(3,2407)	1:101:A:VAL:H	1:142:A:GLN:HB2	11	0.18	0.04	0.18
(3,1389)	1:33:A:GLU:HA	1:33:A:GLU:HG3	11	0.15	0.03	0.15
(3,995)	1:109:A:ALA:HB2	1:110:A:ILE:HG21	11	0.15	0.03	0.15
(3,995)	1:109:A:ALA:HB2	1:110:A:ILE:HG22	11	0.15	0.03	0.15
(3,995)	1:109:A:ALA:HB1	1:110:A:ILE:HG22	11	0.15	0.03	0.15
(3,995)	1:109:A:ALA:HB3	1:110:A:ILE:HG22	11	0.15	0.03	0.15
(3,995)	1:109:A:ALA:HB1	1:110:A:ILE:HG23	11	0.15	0.03	0.15
(3,995)	1:109:A:ALA:HB1	1:110:A:ILE:HG21	11	0.15	0.03	0.15
(3,547)	1:29:A:LYS:HB3	1:29:A:LYS:HG2	11	0.15	0.03	0.14
(3,547)	1:123:A:LYS:HB2	1:123:A:LYS:HG3	11	0.15	0.03	0.14
(3,547)	1:37:A:LYS:HB2	1:37:A:LYS:HG3	11	0.15	0.03	0.14
(3,547)	1:88:A:LYS:HB2	1:88:A:LYS:HG3	11	0.15	0.03	0.14
(3,1060)	1:18:A:VAL:HA	1:18:A:VAL:HB	11	0.14	0.01	0.15
(3,99)	1:70:A:ILE:H	1:70:A:ILE:HG12	11	0.13	0.04	0.12
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD11	11	0.13	0.02	0.12
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD12	11	0.13	0.02	0.12
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD13	11	0.13	0.02	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE3	11	0.12	0.01	0.12
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE2	11	0.12	0.01	0.12
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD1	11	0.11	0.01	0.11
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD2	11	0.11	0.01	0.11
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	10	2.21	0.11	2.2
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	10	2.21	0.11	2.2
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	10	2.21	0.11	2.2
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	10	1.81	0.11	1.81
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	10	1.81	0.11	1.81
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	10	1.81	0.11	1.81
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	10	1.58	0.13	1.58
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	10	1.58	0.13	1.58
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	10	1.58	0.13	1.58
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD21	10	1.56	0.1	1.52
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	10	1.56	0.1	1.52
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD23	10	1.56	0.1	1.52
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD21	10	1.56	0.1	1.52
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD22	10	1.56	0.1	1.52
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD23	10	1.56	0.1	1.52
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD11	10	1.54	0.01	1.54
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD12	10	1.54	0.01	1.54
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD13	10	1.54	0.01	1.54
(3,2205)	1:131:A:MET:HE1	1:145:A:ARG:HB2	10	1.54	0.66	1.9
(3,2205)	1:131:A:MET:HE2	1:145:A:ARG:HB2	10	1.54	0.66	1.9
(3,2205)	1:131:A:MET:HE3	1:144:A:LEU:HB3	10	1.54	0.66	1.9
(3,2205)	1:131:A:MET:HE2	1:132:A:LEU:HG	10	1.54	0.66	1.9
(3,2205)	1:131:A:MET:HE2	1:144:A:LEU:HB3	10	1.54	0.66	1.9
(3,2205)	1:131:A:MET:HE3	1:145:A:ARG:HB2	10	1.54	0.66	1.9
(3,2205)	1:131:A:MET:HE1	1:145:A:ARG:HG2	10	1.54	0.66	1.9
(3,2205)	1:131:A:MET:HE1	1:144:A:LEU:HB3	10	1.54	0.66	1.9
(1,1200)	1:119:A:ASN:H	1:120:A:LEU:HG	10	1.48	0.38	1.58
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD11	10	1.45	0.01	1.46
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD12	10	1.45	0.01	1.46
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD13	10	1.45	0.01	1.46
(3,142)	1:107:A:LEU:HD12	1:110:A:ILE:HD11	10	1.37	0.53	1.37
(3,142)	1:107:A:LEU:HD11	1:110:A:ILE:HD13	10	1.37	0.53	1.37
(3,142)	1:107:A:LEU:HD12	1:110:A:ILE:HD13	10	1.37	0.53	1.37
(3,142)	1:107:A:LEU:HD13	1:110:A:ILE:HD11	10	1.37	0.53	1.37
(3,142)	1:107:A:LEU:HD13	1:110:A:ILE:HD13	10	1.37	0.53	1.37
(3,142)	1:107:A:LEU:HD13	1:110:A:ILE:HD12	10	1.37	0.53	1.37
(3,2113)	1:107:A:LEU:HD11	1:135:A:PRO:HB3	10	1.36	0.21	1.32
(3,2113)	1:107:A:LEU:HD12	1:135:A:PRO:HB3	10	1.36	0.21	1.32

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2113)	1:107:A:LEU:HD13	1:135:A:PRO:HB3	10	1.36	0.21	1.32
(3,2076)	1:110:A:ILE:HD12	1:146:A:ILE:HG13	10	1.15	0.21	1.14
(3,2076)	1:110:A:ILE:HD11	1:146:A:ILE:HG13	10	1.15	0.21	1.14
(3,2076)	1:110:A:ILE:HD13	1:146:A:ILE:HG13	10	1.15	0.21	1.14
(3,2076)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	10	1.15	0.21	1.14
(3,2076)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	10	1.15	0.21	1.14
(3,2076)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	10	1.15	0.21	1.14
(3,935)	1:71:A:LEU:H	1:71:A:LEU:HD12	10	1.11	0.31	1.25
(3,935)	1:71:A:LEU:H	1:71:A:LEU:HD11	10	1.11	0.31	1.25
(3,935)	1:71:A:LEU:H	1:71:A:LEU:HD13	10	1.11	0.31	1.25
(3,935)	1:62:A:LEU:HD11	1:67:A:LYS:H	10	1.11	0.31	1.25
(3,935)	1:62:A:LEU:HD12	1:67:A:LYS:H	10	1.11	0.31	1.25
(3,1323)	1:120:A:LEU:HD13	1:121:A:TYR:H	10	1.09	0.12	1.13
(3,1323)	1:120:A:LEU:HD11	1:121:A:TYR:H	10	1.09	0.12	1.13
(3,1323)	1:120:A:LEU:HD12	1:121:A:TYR:H	10	1.09	0.12	1.13
(3,1794)	1:107:A:LEU:HD11	1:135:A:PRO:HA	10	1.0	0.5	1.31
(3,1794)	1:107:A:LEU:HD12	1:135:A:PRO:HA	10	1.0	0.5	1.31
(3,1794)	1:107:A:LEU:HD13	1:135:A:PRO:HA	10	1.0	0.5	1.31
(3,947)	1:107:A:LEU:HD11	1:135:A:PRO:HA	10	1.0	0.5	1.3
(3,947)	1:107:A:LEU:HD12	1:135:A:PRO:HA	10	1.0	0.5	1.3
(3,947)	1:107:A:LEU:HD13	1:135:A:PRO:HA	10	1.0	0.5	1.3
(3,946)	1:107:A:LEU:HD13	1:121:A:TYR:HA	10	0.88	0.25	0.81
(3,946)	1:107:A:LEU:HA	1:107:A:LEU:HD13	10	0.88	0.25	0.81
(3,946)	1:107:A:LEU:HD12	1:121:A:TYR:HA	10	0.88	0.25	0.81
(3,946)	1:107:A:LEU:HA	1:107:A:LEU:HD12	10	0.88	0.25	0.81
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	10	0.87	0.13	0.86
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	10	0.87	0.13	0.86
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	10	0.87	0.13	0.86
(1,1218)	1:120:A:LEU:H	1:120:A:LEU:HG	10	0.85	0.17	0.88
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG11	10	0.85	0.01	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG12	10	0.85	0.01	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG13	10	0.85	0.01	0.86
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD21	10	0.82	0.14	0.82
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD22	10	0.82	0.14	0.82
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD23	10	0.82	0.14	0.82
(3,1313)	1:72:A:VAL:HG13	1:131:A:MET:HG2	10	0.82	0.44	0.84
(3,1313)	1:72:A:VAL:HG12	1:145:A:ARG:HD3	10	0.82	0.44	0.84
(3,1313)	1:72:A:VAL:HG11	1:145:A:ARG:HD3	10	0.82	0.44	0.84
(3,1313)	1:72:A:VAL:HG12	1:131:A:MET:HG3	10	0.82	0.44	0.84
(3,1313)	1:72:A:VAL:HG12	1:76:A:ASN:HB3	10	0.82	0.44	0.84
(3,1313)	1:72:A:VAL:HG11	1:131:A:MET:HG3	10	0.82	0.44	0.84
(3,1313)	1:72:A:VAL:HG11	1:76:A:ASN:HB3	10	0.82	0.44	0.84

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,562)	1:107:A:LEU:HD21	1:121:A:TYR:HD2	10	0.69	0.26	0.8
(3,562)	1:107:A:LEU:HD23	1:121:A:TYR:HD2	10	0.69	0.26	0.8
(3,562)	1:107:A:LEU:HD21	1:125:A:PHE:HD2	10	0.69	0.26	0.8
(3,562)	1:107:A:LEU:HD22	1:125:A:PHE:HD2	10	0.69	0.26	0.8
(3,562)	1:3:A:LEU:HD12	1:4:A:PHE:HD1	10	0.69	0.26	0.8
(3,562)	1:107:A:LEU:HD22	1:124:A:ILE:H	10	0.69	0.26	0.8
(3,1398)	1:68:A:GLU:HG3	1:95:A:ALA:HB3	10	0.67	0.29	0.64
(3,1398)	1:29:A:LYS:HG2	1:33:A:GLU:HG2	10	0.67	0.29	0.64
(3,1398)	1:68:A:GLU:HG3	1:145:A:ARG:HG3	10	0.67	0.29	0.64
(3,1398)	1:68:A:GLU:HG3	1:95:A:ALA:HB1	10	0.67	0.29	0.64
(3,1398)	1:148:A:GLU:HG3	1:150:A:LEU:HG	10	0.67	0.29	0.64
(3,1398)	1:67:A:LYS:HB3	1:68:A:GLU:HG3	10	0.67	0.29	0.64
(1,705)	1:68:A:GLU:H	1:69:A:LYS:HB3	10	0.62	0.31	0.78
(1,705)	1:68:A:GLU:H	1:69:A:LYS:HD3	10	0.62	0.31	0.78
(1,141)	1:12:A:GLU:H	1:142:A:GLN:HG2	10	0.58	0.56	0.34
(1,141)	1:12:A:GLU:H	1:142:A:GLN:HG3	10	0.58	0.56	0.34
(3,229)	1:18:A:VAL:HG22	1:19:A:THR:H	10	0.57	0.34	0.49
(3,229)	1:18:A:VAL:HG13	1:19:A:THR:H	10	0.57	0.34	0.49
(3,229)	1:18:A:VAL:HG21	1:19:A:THR:H	10	0.57	0.34	0.49
(3,229)	1:18:A:VAL:HG12	1:19:A:THR:H	10	0.57	0.34	0.49
(3,229)	1:18:A:VAL:HG11	1:19:A:THR:H	10	0.57	0.34	0.49
(3,797)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	10	0.56	0.17	0.55
(3,797)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	10	0.56	0.17	0.55
(3,797)	1:8:A:LYS:HG2	1:9:A:ASP:HB2	10	0.56	0.17	0.55
(3,221)	1:150:A:LEU:H	1:150:A:LEU:HD11	10	0.54	0.16	0.5
(3,221)	1:150:A:LEU:HD11	1:151:A:GLU:H	10	0.54	0.16	0.5
(3,221)	1:150:A:LEU:HD13	1:151:A:GLU:H	10	0.54	0.16	0.5
(3,221)	1:150:A:LEU:H	1:150:A:LEU:HD12	10	0.54	0.16	0.5
(3,221)	1:150:A:LEU:HD12	1:151:A:GLU:H	10	0.54	0.16	0.5
(3,221)	1:150:A:LEU:H	1:150:A:LEU:HD13	10	0.54	0.16	0.5
(3,1997)	1:58:A:THR:HG23	1:88:A:LYS:HE2	10	0.53	0.28	0.54
(3,1997)	1:58:A:THR:HG22	1:88:A:LYS:HE2	10	0.53	0.28	0.54
(3,1997)	1:58:A:THR:HG21	1:88:A:LYS:HE2	10	0.53	0.28	0.54
(3,1997)	1:58:A:THR:HG22	1:88:A:LYS:HE3	10	0.53	0.28	0.54
(3,1997)	1:58:A:THR:HG23	1:88:A:LYS:HE3	10	0.53	0.28	0.54
(3,47)	1:88:A:LYS:HG2	1:89:A:THR:H	10	0.52	0.15	0.57
(3,47)	1:29:A:LYS:HG3	1:30:A:LYS:H	10	0.52	0.15	0.57
(3,2344)	1:98:A:PHE:HE2	1:143:A:VAL:HG13	10	0.52	0.23	0.55
(3,2344)	1:98:A:PHE:HE2	1:143:A:VAL:HG12	10	0.52	0.23	0.55
(3,2344)	1:6:A:PHE:HZ	1:143:A:VAL:HG11	10	0.52	0.23	0.55
(3,2344)	1:6:A:PHE:HZ	1:143:A:VAL:HG13	10	0.52	0.23	0.55
(3,2344)	1:6:A:PHE:HZ	1:143:A:VAL:HG12	10	0.52	0.23	0.55

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,72)	1:31:A:VAL:H	1:50:A:ILE:HG13	10	0.49	0.17	0.44
(3,72)	1:50:A:ILE:HG13	1:51:A:ALA:H	10	0.49	0.17	0.44
(3,2170)	1:107:A:LEU:HD11	1:125:A:PHE:HB3	10	0.48	0.25	0.4
(3,2170)	1:107:A:LEU:HD13	1:125:A:PHE:HB3	10	0.48	0.25	0.4
(3,2170)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	10	0.48	0.25	0.4
(3,2170)	1:125:A:PHE:HB3	1:132:A:LEU:HD12	10	0.48	0.25	0.4
(1,725)	1:68:A:GLU:HG3	1:69:A:LYS:H	10	0.47	0.17	0.44
(1,697)	1:67:A:LYS:H	1:69:A:LYS:HB3	10	0.46	0.18	0.5
(1,697)	1:67:A:LYS:H	1:69:A:LYS:HD3	10	0.46	0.18	0.5
(1,697)	1:67:A:LYS:H	1:69:A:LYS:HD2	10	0.46	0.18	0.5
(1,697)	1:62:A:LEU:HG	1:67:A:LYS:H	10	0.46	0.18	0.5
(1,31)	1:5:A:ASN:H	1:83:A:VAL:HG21	10	0.45	0.41	0.31
(1,31)	1:5:A:ASN:H	1:83:A:VAL:HG23	10	0.45	0.41	0.31
(1,31)	1:5:A:ASN:H	1:83:A:VAL:HG22	10	0.45	0.41	0.31
(1,31)	1:5:A:ASN:H	1:71:A:LEU:HD21	10	0.45	0.41	0.31
(1,31)	1:5:A:ASN:H	1:71:A:LEU:HD13	10	0.45	0.41	0.31
(1,712)	1:68:A:GLU:H	1:145:A:ARG:HD3	10	0.45	0.25	0.33
(1,712)	1:68:A:GLU:H	1:69:A:LYS:HE3	10	0.45	0.25	0.33
(1,288)	1:32:A:GLN:H	1:32:A:GLN:HG3	10	0.44	0.34	0.3
(1,288)	1:32:A:GLN:H	1:32:A:GLN:HG2	10	0.44	0.34	0.3
(3,1062)	1:13:A:LYS:HD2	1:78:A:SER:HB2	10	0.42	0.19	0.46
(3,1062)	1:13:A:LYS:HB2	1:78:A:SER:HB2	10	0.42	0.19	0.46
(3,1062)	1:13:A:LYS:HD3	1:78:A:SER:HB2	10	0.42	0.19	0.46
(3,1062)	1:13:A:LYS:HB3	1:78:A:SER:HB2	10	0.42	0.19	0.46
(1,1398)	1:136:A:ASP:H	1:137:A:LYS:HD2	10	0.42	0.23	0.32
(1,1398)	1:107:A:LEU:HB3	1:136:A:ASP:H	10	0.42	0.23	0.32
(3,2616)	1:132:A:LEU:HD21	1:142:A:GLN:HE21	10	0.41	0.19	0.34
(3,2616)	1:132:A:LEU:HD22	1:142:A:GLN:HE21	10	0.41	0.19	0.34
(3,2616)	1:132:A:LEU:HD23	1:142:A:GLN:HE21	10	0.41	0.19	0.34
(1,1952)	1:85:A:ASP:H	1:86:A:GLN:HE22	10	0.39	0.26	0.24
(1,305)	1:33:A:GLU:H	1:35:A:LEU:HD13	10	0.38	0.13	0.36
(1,305)	1:33:A:GLU:H	1:35:A:LEU:HD12	10	0.38	0.13	0.36
(1,305)	1:33:A:GLU:H	1:35:A:LEU:HD11	10	0.38	0.13	0.36
(1,305)	1:33:A:GLU:H	1:48:A:ILE:HD11	10	0.38	0.13	0.36
(1,305)	1:33:A:GLU:H	1:48:A:ILE:HD13	10	0.38	0.13	0.36
(3,1308)	1:31:A:VAL:HG13	1:77:A:ILE:HG12	10	0.37	0.09	0.36
(3,1308)	1:31:A:VAL:HG12	1:77:A:ILE:HG12	10	0.37	0.09	0.36
(3,1308)	1:31:A:VAL:HG11	1:77:A:ILE:HG12	10	0.37	0.09	0.36
(3,1308)	1:31:A:VAL:HG13	1:48:A:ILE:HB	10	0.37	0.09	0.36
(3,1598)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	10	0.37	0.08	0.36
(3,1598)	1:42:A:ASP:HB3	1:62:A:LEU:HB3	10	0.37	0.08	0.36
(1,481)	1:47:A:ASN:H	1:58:A:THR:HG21	10	0.37	0.21	0.29

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,481)	1:47:A:ASN:H	1:58:A:THR:HG23	10	0.37	0.21	0.29
(1,481)	1:47:A:ASN:H	1:58:A:THR:HG22	10	0.37	0.21	0.29
(3,419)	1:131:A:MET:HE2	1:144:A:LEU:HA	10	0.37	0.11	0.38
(3,419)	1:131:A:MET:HE3	1:144:A:LEU:HA	10	0.37	0.11	0.38
(3,419)	1:131:A:MET:HE2	1:132:A:LEU:HA	10	0.37	0.11	0.38
(3,419)	1:131:A:MET:HE3	1:132:A:LEU:HA	10	0.37	0.11	0.38
(3,419)	1:131:A:MET:HE1	1:144:A:LEU:HA	10	0.37	0.11	0.38
(1,800)	1:72:A:VAL:HG22	1:73:A:ALA:H	10	0.32	0.07	0.34
(1,800)	1:72:A:VAL:HG21	1:73:A:ALA:H	10	0.32	0.07	0.34
(1,800)	1:72:A:VAL:HG12	1:73:A:ALA:H	10	0.32	0.07	0.34
(1,800)	1:72:A:VAL:HG13	1:73:A:ALA:H	10	0.32	0.07	0.34
(1,541)	1:54:A:LYS:H	1:80:A:ILE:HD13	10	0.3	0.19	0.23
(1,541)	1:54:A:LYS:H	1:80:A:ILE:HD11	10	0.3	0.19	0.23
(1,541)	1:54:A:LYS:H	1:80:A:ILE:HD12	10	0.3	0.19	0.23
(1,272)	1:30:A:LYS:HG2	1:31:A:VAL:H	10	0.28	0.12	0.22
(1,272)	1:27:A:GLN:HB3	1:31:A:VAL:H	10	0.28	0.12	0.22
(3,2304)	1:138:A:ILE:HB	1:144:A:LEU:HD21	10	0.27	0.13	0.22
(3,2304)	1:138:A:ILE:HB	1:144:A:LEU:HD22	10	0.27	0.13	0.22
(3,2304)	1:138:A:ILE:HB	1:144:A:LEU:HD23	10	0.27	0.13	0.22
(3,2493)	1:31:A:VAL:HA	1:77:A:ILE:HD11	10	0.26	0.13	0.24
(3,2493)	1:31:A:VAL:HA	1:77:A:ILE:HD12	10	0.26	0.13	0.24
(3,2493)	1:31:A:VAL:HA	1:77:A:ILE:HD13	10	0.26	0.13	0.24
(3,431)	1:99:A:TYR:HD1	1:144:A:LEU:HD21	10	0.25	0.11	0.24
(3,431)	1:99:A:TYR:HD1	1:144:A:LEU:HD22	10	0.25	0.11	0.24
(3,431)	1:99:A:TYR:HD1	1:110:A:ILE:HG22	10	0.25	0.11	0.24
(3,431)	1:99:A:TYR:HD1	1:144:A:LEU:HD13	10	0.25	0.11	0.24
(3,431)	1:99:A:TYR:HD1	1:110:A:ILE:HG23	10	0.25	0.11	0.24
(3,431)	1:99:A:TYR:HD1	1:110:A:ILE:HG21	10	0.25	0.11	0.24
(3,919)	1:121:A:TYR:HD2	1:122:A:ASN:HA	10	0.23	0.19	0.16
(3,919)	1:122:A:ASN:HA	1:125:A:PHE:HD1	10	0.23	0.19	0.16
(1,459)	1:45:A:LYS:HD3	1:46:A:VAL:H	10	0.22	0.06	0.24
(1,459)	1:45:A:LYS:HG3	1:46:A:VAL:H	10	0.22	0.06	0.24
(3,900)	1:149:A:GLU:HA	1:149:A:GLU:HG2	10	0.22	0.08	0.24
(3,900)	1:149:A:GLU:HA	1:149:A:GLU:HB2	10	0.22	0.08	0.24
(3,900)	1:149:A:GLU:HA	1:149:A:GLU:HG3	10	0.22	0.08	0.24
(3,900)	1:21:A:GLN:HA	1:21:A:GLN:HB3	10	0.22	0.08	0.24
(3,1721)	1:101:A:VAL:HA	1:102:A:LYS:HG2	10	0.21	0.1	0.17
(3,1721)	1:40:A:ILE:HA	1:130:A:PRO:HG3	10	0.21	0.1	0.17
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB1	10	0.18	0.04	0.18
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB2	10	0.18	0.04	0.18
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB3	10	0.18	0.04	0.18
(3,2516)	1:110:A:ILE:HD12	1:111:A:SER:H	10	0.17	0.04	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2516)	1:110:A:ILE:HD13	1:111:A:SER:H	10	0.17	0.04	0.17
(3,2516)	1:110:A:ILE:HD11	1:111:A:SER:H	10	0.17	0.04	0.17
(3,1870)	1:82:A:SER:H	1:82:A:SER:HB2	10	0.16	0.01	0.16
(3,2188)	1:105:A:ASP:HA	1:109:A:ALA:HB2	10	0.15	0.05	0.13
(3,2188)	1:105:A:ASP:HA	1:109:A:ALA:HB1	10	0.15	0.05	0.13
(3,2188)	1:105:A:ASP:HA	1:109:A:ALA:HB3	10	0.15	0.05	0.13
(3,817)	1:62:A:LEU:HA	1:63:A:SER:H	10	0.15	0.04	0.14
(1,2168)	1:64:A:GLN:HB3	1:64:A:GLN:HE21	10	0.14	0.02	0.14
(1,488)	1:48:A:ILE:H	1:48:A:ILE:HG12	10	0.14	0.02	0.14
(3,541)	1:107:A:LEU:HD22	1:107:A:LEU:HG	10	0.14	0.02	0.15
(3,541)	1:74:A:VAL:HB	1:74:A:VAL:HG13	10	0.14	0.02	0.15
(3,541)	1:107:A:LEU:HD21	1:107:A:LEU:HG	10	0.14	0.02	0.15
(3,541)	1:107:A:LEU:HD23	1:107:A:LEU:HG	10	0.14	0.02	0.15
(3,541)	1:74:A:VAL:HB	1:74:A:VAL:HG11	10	0.14	0.02	0.15
(3,1859)	1:138:A:ILE:HB	1:138:A:ILE:HD13	10	0.13	0.02	0.13
(3,1859)	1:138:A:ILE:HB	1:138:A:ILE:HD12	10	0.13	0.02	0.13
(3,1859)	1:138:A:ILE:HB	1:138:A:ILE:HD11	10	0.13	0.02	0.13
(3,1859)	1:70:A:ILE:HB	1:70:A:ILE:HD12	10	0.13	0.02	0.13
(3,2141)	1:61:A:GLY:H	1:62:A:LEU:HD22	9	2.48	0.11	2.5
(3,2141)	1:61:A:GLY:H	1:62:A:LEU:HD23	9	2.48	0.11	2.5
(3,2141)	1:61:A:GLY:H	1:62:A:LEU:HD21	9	2.48	0.11	2.5
(3,1985)	1:59:A:GLY:HA3	1:87:A:VAL:HG11	9	2.0	0.7	2.33
(3,1985)	1:46:A:VAL:HG22	1:59:A:GLY:HA3	9	2.0	0.7	2.33
(3,1985)	1:59:A:GLY:HA3	1:87:A:VAL:HG12	9	2.0	0.7	2.33
(3,1985)	1:59:A:GLY:HA3	1:87:A:VAL:HG13	9	2.0	0.7	2.33
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD21	9	1.47	0.04	1.46
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD22	9	1.47	0.04	1.46
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD23	9	1.47	0.04	1.46
(3,544)	1:3:A:LEU:HD21	1:54:A:LYS:HE2	9	1.43	0.58	1.63
(3,544)	1:3:A:LEU:HD23	1:54:A:LYS:HE2	9	1.43	0.58	1.63
(3,544)	1:107:A:LEU:HD23	1:121:A:TYR:HB2	9	1.43	0.58	1.63
(3,544)	1:107:A:LEU:HD22	1:121:A:TYR:HB2	9	1.43	0.58	1.63
(3,544)	1:3:A:LEU:HD11	1:54:A:LYS:HE2	9	1.43	0.58	1.63
(3,544)	1:3:A:LEU:HD21	1:54:A:LYS:HE3	9	1.43	0.58	1.63
(3,544)	1:107:A:LEU:HD21	1:121:A:TYR:HB2	9	1.43	0.58	1.63
(3,544)	1:3:A:LEU:HD22	1:54:A:LYS:HE3	9	1.43	0.58	1.63
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD21	9	1.32	0.05	1.33
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD22	9	1.32	0.05	1.33
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD23	9	1.32	0.05	1.33
(3,1440)	1:71:A:LEU:HA	1:71:A:LEU:HD11	9	1.32	0.37	1.44
(3,1440)	1:71:A:LEU:HA	1:71:A:LEU:HD13	9	1.32	0.37	1.44
(3,1440)	1:71:A:LEU:HA	1:71:A:LEU:HD12	9	1.32	0.37	1.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1440)	1:62:A:LEU:HD13	1:67:A:LYS:HA	9	1.32	0.37	1.44
(3,2485)	1:57:A:VAL:HG11	1:87:A:VAL:HB	9	1.19	0.23	1.19
(3,2485)	1:57:A:VAL:HG13	1:87:A:VAL:HB	9	1.19	0.23	1.19
(3,2485)	1:57:A:VAL:HG12	1:87:A:VAL:HB	9	1.19	0.23	1.19
(3,1247)	1:132:A:LEU:HA	1:132:A:LEU:HD22	9	1.16	0.18	1.2
(3,1247)	1:132:A:LEU:HA	1:132:A:LEU:HD23	9	1.16	0.18	1.2
(3,1247)	1:132:A:LEU:HA	1:132:A:LEU:HD21	9	1.16	0.18	1.2
(3,938)	1:138:A:ILE:H	1:144:A:LEU:HD23	9	1.09	1.19	0.36
(3,938)	1:99:A:TYR:HD1	1:144:A:LEU:HD22	9	1.09	1.19	0.36
(3,938)	1:138:A:ILE:H	1:144:A:LEU:HD22	9	1.09	1.19	0.36
(3,938)	1:99:A:TYR:HD1	1:144:A:LEU:HD21	9	1.09	1.19	0.36
(3,938)	1:99:A:TYR:HD1	1:144:A:LEU:HD23	9	1.09	1.19	0.36
(3,193)	1:132:A:LEU:HD21	1:133:A:LYS:H	9	1.06	0.05	1.07
(3,193)	1:132:A:LEU:HD22	1:133:A:LYS:H	9	1.06	0.05	1.07
(3,193)	1:132:A:LEU:HD23	1:133:A:LYS:H	9	1.06	0.05	1.07
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG21	9	0.98	0.03	0.98
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG22	9	0.98	0.03	0.98
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG23	9	0.98	0.03	0.98
(3,1305)	1:31:A:VAL:HG21	1:77:A:ILE:HG12	9	0.94	0.83	0.27
(3,1305)	1:31:A:VAL:HG22	1:77:A:ILE:HG12	9	0.94	0.83	0.27
(3,1305)	1:31:A:VAL:HG23	1:77:A:ILE:HG12	9	0.94	0.83	0.27
(3,375)	1:132:A:LEU:HD21	1:134:A:SER:H	9	0.94	0.24	0.88
(3,375)	1:132:A:LEU:HD22	1:134:A:SER:H	9	0.94	0.24	0.88
(3,375)	1:132:A:LEU:HD23	1:134:A:SER:H	9	0.94	0.24	0.88
(1,696)	1:65:A:GLU:HB2	1:67:A:LYS:H	9	0.93	0.21	1.0
(1,696)	1:67:A:LYS:H	1:68:A:GLU:HB2	9	0.93	0.21	1.0
(1,696)	1:67:A:LYS:H	1:70:A:ILE:HB	9	0.93	0.21	1.0
(1,696)	1:62:A:LEU:HB3	1:67:A:LYS:H	9	0.93	0.21	1.0
(3,965)	1:14:A:LEU:HB2	1:14:A:LEU:HD11	9	0.91	0.05	0.92
(3,965)	1:14:A:LEU:HB2	1:14:A:LEU:HD13	9	0.91	0.05	0.92
(3,965)	1:14:A:LEU:HB2	1:14:A:LEU:HD12	9	0.91	0.05	0.92
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD11	9	0.91	0.11	0.91
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD12	9	0.91	0.11	0.91
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD13	9	0.91	0.11	0.91
(3,2335)	1:33:A:GLU:HG2	1:37:A:LYS:HE3	9	0.79	0.42	0.74
(3,2335)	1:67:A:LYS:HE3	1:68:A:GLU:HG3	9	0.79	0.42	0.74
(3,2335)	1:67:A:LYS:HE2	1:68:A:GLU:HG3	9	0.79	0.42	0.74
(3,2335)	1:29:A:LYS:HE2	1:33:A:GLU:HG2	9	0.79	0.42	0.74
(3,2335)	1:29:A:LYS:HE3	1:33:A:GLU:HG2	9	0.79	0.42	0.74
(3,2794)	1:82:A:SER:HB2	1:83:A:VAL:H	9	0.77	0.1	0.76
(3,2356)	1:101:A:VAL:HG11	1:142:A:GLN:HB2	9	0.74	0.16	0.73
(3,2356)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	9	0.74	0.16	0.73

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2356)	1:101:A:VAL:HG13	1:142:A:GLN:HB2	9	0.74	0.16	0.73
(3,1464)	1:142:A:GLN:HB3	1:144:A:LEU:H	9	0.73	0.17	0.77
(3,1464)	1:54:A:LYS:HD3	1:55:A:ALA:H	9	0.73	0.17	0.77
(3,1464)	1:4:A:PHE:H	1:54:A:LYS:HD2	9	0.73	0.17	0.77
(1,633)	1:61:A:GLY:H	1:62:A:LEU:HB2	9	0.71	0.19	0.74
(3,192)	1:8:A:LYS:HG3	1:9:A:ASP:H	9	0.69	0.1	0.7
(3,555)	1:132:A:LEU:HD21	1:138:A:ILE:HA	9	0.69	0.1	0.68
(3,555)	1:132:A:LEU:HD22	1:138:A:ILE:HA	9	0.69	0.1	0.68
(3,555)	1:132:A:LEU:HD23	1:138:A:ILE:HA	9	0.69	0.1	0.68
(3,1272)	1:101:A:VAL:HG11	1:142:A:GLN:HB2	9	0.66	0.14	0.64
(3,1272)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	9	0.66	0.14	0.64
(3,1272)	1:101:A:VAL:HG13	1:142:A:GLN:HB2	9	0.66	0.14	0.64
(3,952)	1:42:A:ASP:HB3	1:62:A:LEU:HD12	9	0.62	0.48	0.43
(3,952)	1:71:A:LEU:HD11	1:85:A:ASP:HB3	9	0.62	0.48	0.43
(3,952)	1:42:A:ASP:HB3	1:62:A:LEU:HD22	9	0.62	0.48	0.43
(3,952)	1:42:A:ASP:HB3	1:62:A:LEU:HD13	9	0.62	0.48	0.43
(3,1091)	1:59:A:GLY:HA3	1:62:A:LEU:HD13	9	0.58	0.15	0.64
(3,1091)	1:59:A:GLY:HA3	1:62:A:LEU:HD21	9	0.58	0.15	0.64
(3,1091)	1:59:A:GLY:HA3	1:62:A:LEU:HD11	9	0.58	0.15	0.64
(3,1091)	1:46:A:VAL:HG22	1:59:A:GLY:HA3	9	0.58	0.15	0.64
(3,1091)	1:59:A:GLY:HA3	1:62:A:LEU:HD23	9	0.58	0.15	0.64
(3,1091)	1:59:A:GLY:HA3	1:62:A:LEU:HD22	9	0.58	0.15	0.64
(1,583)	1:57:A:VAL:H	1:57:A:VAL:HG12	9	0.58	0.06	0.6
(1,583)	1:57:A:VAL:H	1:57:A:VAL:HG13	9	0.58	0.06	0.6
(1,583)	1:57:A:VAL:H	1:57:A:VAL:HG11	9	0.58	0.06	0.6
(1,583)	1:57:A:VAL:H	1:71:A:LEU:HD23	9	0.58	0.06	0.6
(3,1849)	1:81:A:ALA:HB2	1:82:A:SER:HB2	9	0.57	0.2	0.58
(3,1849)	1:81:A:ALA:HB3	1:82:A:SER:HB2	9	0.57	0.2	0.58
(3,1849)	1:81:A:ALA:HB1	1:82:A:SER:HB2	9	0.57	0.2	0.58
(3,1849)	1:3:A:LEU:HG	1:82:A:SER:HB2	9	0.57	0.2	0.58
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG21	9	0.56	0.26	0.55
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG22	9	0.56	0.26	0.55
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG23	9	0.56	0.26	0.55
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG21	9	0.56	0.26	0.55
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG22	9	0.56	0.26	0.55
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG23	9	0.56	0.26	0.55
(3,659)	1:129:A:LYS:HE2	1:130:A:PRO:HA	9	0.55	0.48	0.25
(3,1083)	1:144:A:LEU:HD11	1:145:A:ARG:H	9	0.55	0.59	0.14
(3,1083)	1:144:A:LEU:HD12	1:145:A:ARG:H	9	0.55	0.59	0.14
(3,1083)	1:144:A:LEU:HD13	1:145:A:ARG:H	9	0.55	0.59	0.14
(1,1488)	1:7:A:VAL:HG22	1:143:A:VAL:H	9	0.52	0.17	0.59
(1,1488)	1:7:A:VAL:HG21	1:143:A:VAL:H	9	0.52	0.17	0.59

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1488)	1:7:A:VAL:HG23	1:143:A:VAL:H	9	0.52	0.17	0.59
(1,742)	1:41:A:PRO:HB2	1:70:A:ILE:H	9	0.5	0.23	0.42
(1,742)	1:68:A:GLU:HG3	1:70:A:ILE:H	9	0.5	0.23	0.42
(3,695)	1:101:A:VAL:HB	1:140:A:PRO:HA	9	0.47	0.18	0.57
(3,695)	1:140:A:PRO:HA	1:140:A:PRO:HG2	9	0.47	0.18	0.57
(3,514)	1:125:A:PHE:HE2	1:132:A:LEU:HG	9	0.44	0.13	0.46
(3,1476)	1:101:A:VAL:HB	1:140:A:PRO:HA	9	0.43	0.29	0.27
(3,1476)	1:92:A:PRO:HB2	1:92:A:PRO:HD3	9	0.43	0.29	0.27
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG11	9	0.41	0.01	0.41
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG12	9	0.41	0.01	0.41
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG13	9	0.41	0.01	0.41
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG21	9	0.4	0.03	0.39
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG22	9	0.4	0.03	0.39
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG23	9	0.4	0.03	0.39
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD21	9	0.36	0.11	0.41
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD22	9	0.36	0.11	0.41
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD23	9	0.36	0.11	0.41
(3,2180)	1:109:A:ALA:HA	1:112:A:LYS:HD2	9	0.35	0.18	0.37
(3,2180)	1:109:A:ALA:HA	1:112:A:LYS:HD3	9	0.35	0.18	0.37
(3,2180)	1:13:A:LYS:HA	1:13:A:LYS:HD2	9	0.35	0.18	0.37
(1,265)	1:30:A:LYS:H	1:30:A:LYS:HG2	9	0.34	0.14	0.33
(1,885)	1:8:A:LYS:HG3	1:80:A:ILE:H	9	0.31	0.14	0.33
(3,2073)	1:107:A:LEU:HB3	1:108:A:SER:HA	9	0.29	0.26	0.17
(3,2073)	1:108:A:SER:HA	1:110:A:ILE:HG13	9	0.29	0.26	0.17
(1,1412)	1:137:A:LYS:H	1:138:A:ILE:HG12	9	0.29	0.15	0.25
(1,1412)	1:132:A:LEU:HD22	1:137:A:LYS:H	9	0.29	0.15	0.25
(3,2218)	1:14:A:LEU:HB3	1:34:A:HIS:HB2	9	0.29	0.16	0.3
(3,2218)	1:14:A:LEU:HB3	1:15:A:TRP:HB2	9	0.29	0.16	0.3
(3,2799)	1:139:A:TYR:HE1	1:142:A:GLN:HE21	9	0.27	0.05	0.27
(3,2799)	1:139:A:TYR:HE2	1:142:A:GLN:HE21	9	0.27	0.05	0.27
(1,192)	1:14:A:LEU:HG	1:15:A:TRP:H	9	0.26	0.05	0.25
(1,699)	1:62:A:LEU:HB2	1:67:A:LYS:H	9	0.25	0.08	0.24
(1,699)	1:67:A:LYS:H	1:67:A:LYS:HG2	9	0.25	0.08	0.24
(1,699)	1:67:A:LYS:H	1:67:A:LYS:HG3	9	0.25	0.08	0.24
(3,2157)	1:72:A:VAL:HA	1:75:A:GLY:H	9	0.24	0.09	0.21
(3,2157)	1:72:A:VAL:HA	1:76:A:ASN:H	9	0.24	0.09	0.21
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG22	9	0.24	0.12	0.19
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG12	9	0.24	0.12	0.19
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG11	9	0.24	0.12	0.19
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG13	9	0.24	0.12	0.19
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG23	9	0.24	0.12	0.19
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG21	9	0.24	0.12	0.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,949)	1:57:A:VAL:HB	1:86:A:GLN:H	9	0.24	0.04	0.22
(1,293)	1:32:A:GLN:H	1:48:A:ILE:HG13	9	0.23	0.08	0.21
(1,165)	1:14:A:LEU:H	1:14:A:LEU:HG	9	0.22	0.09	0.18
(3,1762)	1:111:A:SER:HB3	1:121:A:TYR:HA	9	0.21	0.08	0.22
(1,454)	1:45:A:LYS:H	1:45:A:LYS:HD2	9	0.19	0.06	0.21
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	9	0.19	0.07	0.19
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	9	0.19	0.07	0.19
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	9	0.19	0.07	0.19
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG11	9	0.19	0.07	0.19
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG12	9	0.19	0.07	0.19
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG13	9	0.19	0.07	0.19
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG11	9	0.19	0.04	0.17
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG12	9	0.19	0.04	0.17
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG13	9	0.19	0.04	0.17
(3,2477)	1:134:A:SER:HB3	1:136:A:ASP:H	9	0.18	0.06	0.16
(1,371)	1:36:A:ASN:H	1:37:A:LYS:HD2	9	0.18	0.06	0.16
(1,371)	1:36:A:ASN:H	1:40:A:ILE:HB	9	0.18	0.06	0.16
(1,371)	1:36:A:ASN:H	1:37:A:LYS:HD3	9	0.18	0.06	0.16
(1,1979)	1:70:A:ILE:HG13	1:74:A:VAL:H	9	0.17	0.05	0.17
(3,2802)	1:91:A:THR:HA	1:92:A:PRO:HD2	9	0.17	0.02	0.17
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE3	9	0.16	0.04	0.18
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE2	9	0.16	0.04	0.18
(3,955)	1:14:A:LEU:HD11	1:34:A:HIS:HB3	9	0.15	0.02	0.14
(3,955)	1:14:A:LEU:HD12	1:34:A:HIS:HB3	9	0.15	0.02	0.14
(3,955)	1:14:A:LEU:HD13	1:34:A:HIS:HB3	9	0.15	0.02	0.14
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD21	9	0.15	0.03	0.13
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD22	9	0.15	0.03	0.13
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD23	9	0.15	0.03	0.13
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG21	9	0.14	0.03	0.13
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG22	9	0.14	0.03	0.13
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG23	9	0.14	0.03	0.13
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG21	9	0.14	0.03	0.13
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG22	9	0.14	0.03	0.13
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG23	9	0.14	0.03	0.13
(1,2044)	1:63:A:SER:H	1:64:A:GLN:H	9	0.13	0.02	0.12
(3,644)	1:45:A:LYS:H	1:45:A:LYS:HA	9	0.11	0.01	0.11
(3,644)	1:36:A:ASN:H	1:36:A:ASN:HA	9	0.11	0.01	0.11
(3,1874)	1:98:A:PHE:HB2	1:143:A:VAL:HG13	8	2.23	0.1	2.24
(3,1874)	1:98:A:PHE:HB2	1:143:A:VAL:HG12	8	2.23	0.1	2.24
(3,1874)	1:98:A:PHE:HB2	1:143:A:VAL:HG11	8	2.23	0.1	2.24
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG21	8	1.64	0.13	1.65
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG22	8	1.64	0.13	1.65

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG23	8	1.64	0.13	1.65
(1,976)	1:87:A:VAL:HG21	1:89:A:THR:H	8	1.51	0.15	1.54
(1,976)	1:87:A:VAL:HG22	1:89:A:THR:H	8	1.51	0.15	1.54
(1,976)	1:87:A:VAL:HG23	1:89:A:THR:H	8	1.51	0.15	1.54
(1,919)	1:48:A:ILE:HG22	1:84:A:ASP:H	8	1.35	0.16	1.31
(1,919)	1:48:A:ILE:HG21	1:84:A:ASP:H	8	1.35	0.16	1.31
(1,919)	1:3:A:LEU:HD21	1:84:A:ASP:H	8	1.35	0.16	1.31
(1,919)	1:3:A:LEU:HD23	1:84:A:ASP:H	8	1.35	0.16	1.31
(1,919)	1:3:A:LEU:HD22	1:84:A:ASP:H	8	1.35	0.16	1.31
(1,1494)	1:143:A:VAL:HG11	1:144:A:LEU:H	8	1.02	0.07	1.02
(1,1494)	1:143:A:VAL:HG13	1:144:A:LEU:H	8	1.02	0.07	1.02
(1,1494)	1:143:A:VAL:HG12	1:144:A:LEU:H	8	1.02	0.07	1.02
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG11	8	0.84	0.01	0.85
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG12	8	0.84	0.01	0.85
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG13	8	0.84	0.01	0.85
(1,974)	1:67:A:LYS:HG3	1:89:A:THR:H	8	0.81	0.35	0.72
(1,974)	1:62:A:LEU:HB2	1:89:A:THR:H	8	0.81	0.35	0.72
(3,1441)	1:120:A:LEU:HD22	1:123:A:LYS:HD3	8	0.79	0.22	0.84
(3,1441)	1:120:A:LEU:HD21	1:123:A:LYS:HD3	8	0.79	0.22	0.84
(3,1441)	1:120:A:LEU:HD23	1:123:A:LYS:HD3	8	0.79	0.22	0.84
(1,1682)	1:87:A:VAL:HG21	1:88:A:LYS:H	8	0.76	0.02	0.74
(1,1682)	1:87:A:VAL:HG22	1:88:A:LYS:H	8	0.76	0.02	0.74
(1,1682)	1:87:A:VAL:HG23	1:88:A:LYS:H	8	0.76	0.02	0.74
(1,212)	1:22:A:HIS:HB2	1:25:A:ASP:H	8	0.75	0.23	0.78
(1,212)	1:22:A:HIS:HB3	1:25:A:ASP:H	8	0.75	0.23	0.78
(3,1281)	1:71:A:LEU:HA	1:83:A:VAL:HG21	8	0.74	0.15	0.74
(3,1281)	1:67:A:LYS:HA	1:87:A:VAL:HG11	8	0.74	0.15	0.74
(3,1281)	1:71:A:LEU:HA	1:83:A:VAL:HG22	8	0.74	0.15	0.74
(3,1281)	1:67:A:LYS:HA	1:87:A:VAL:HG13	8	0.74	0.15	0.74
(3,1281)	1:71:A:LEU:HA	1:83:A:VAL:HG23	8	0.74	0.15	0.74
(1,1540)	1:46:A:VAL:HG23	1:47:A:ASN:HD22	8	0.66	0.51	0.54
(1,1540)	1:47:A:ASN:HD22	1:48:A:ILE:HD12	8	0.66	0.51	0.54
(1,1540)	1:47:A:ASN:HD22	1:48:A:ILE:HD11	8	0.66	0.51	0.54
(1,1540)	1:47:A:ASN:HD22	1:48:A:ILE:HD13	8	0.66	0.51	0.54
(1,1540)	1:46:A:VAL:HG22	1:47:A:ASN:HD22	8	0.66	0.51	0.54
(3,2026)	1:143:A:VAL:HA	1:143:A:VAL:HG11	8	0.65	0.04	0.65
(3,2026)	1:100:A:THR:HG23	1:143:A:VAL:HA	8	0.65	0.04	0.65
(3,2026)	1:143:A:VAL:HA	1:143:A:VAL:HG13	8	0.65	0.04	0.65
(3,2026)	1:100:A:THR:HG22	1:143:A:VAL:HA	8	0.65	0.04	0.65
(3,2026)	1:143:A:VAL:HA	1:143:A:VAL:HG12	8	0.65	0.04	0.65
(1,1096)	1:101:A:VAL:HG12	1:110:A:ILE:H	8	0.65	0.13	0.64
(1,1096)	1:101:A:VAL:HG11	1:110:A:ILE:H	8	0.65	0.13	0.64

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1096)	1:101:A:VAL:HG13	1:110:A:ILE:H	8	0.65	0.13	0.64
(3,251)	1:87:A:VAL:HG21	1:88:A:LYS:H	8	0.64	0.02	0.64
(3,251)	1:87:A:VAL:HG22	1:88:A:LYS:H	8	0.64	0.02	0.64
(3,251)	1:87:A:VAL:HG23	1:88:A:LYS:H	8	0.64	0.02	0.64
(1,2481)	1:119:A:ASN:H	1:119:A:ASN:HD22	8	0.62	0.17	0.68
(1,585)	1:57:A:VAL:HG11	1:58:A:THR:H	8	0.6	0.25	0.58
(1,585)	1:57:A:VAL:HG13	1:58:A:THR:H	8	0.6	0.25	0.58
(1,585)	1:46:A:VAL:HG23	1:58:A:THR:H	8	0.6	0.25	0.58
(1,585)	1:57:A:VAL:HG12	1:58:A:THR:H	8	0.6	0.25	0.58
(3,1342)	1:46:A:VAL:HG23	1:47:A:ASN:H	8	0.59	0.12	0.59
(3,1342)	1:46:A:VAL:HG21	1:47:A:ASN:H	8	0.59	0.12	0.59
(3,1342)	1:46:A:VAL:HG22	1:47:A:ASN:H	8	0.59	0.12	0.59
(3,1984)	1:38:A:THR:HG23	1:131:A:MET:HG2	8	0.56	0.26	0.65
(3,1984)	1:38:A:THR:HG22	1:131:A:MET:HG2	8	0.56	0.26	0.65
(3,1984)	1:38:A:THR:HG21	1:131:A:MET:HG2	8	0.56	0.26	0.65
(3,1978)	1:57:A:VAL:H	1:83:A:VAL:HG12	8	0.56	0.43	0.31
(3,1978)	1:57:A:VAL:H	1:83:A:VAL:HG13	8	0.56	0.43	0.31
(3,1978)	1:31:A:VAL:HG13	1:35:A:LEU:H	8	0.56	0.43	0.31
(3,1978)	1:57:A:VAL:H	1:83:A:VAL:HG11	8	0.56	0.43	0.31
(1,1833)	1:31:A:VAL:HG21	1:32:A:GLN:HE21	8	0.5	0.27	0.6
(1,1833)	1:32:A:GLN:HE21	1:43:A:ALA:HB3	8	0.5	0.27	0.6
(1,1833)	1:31:A:VAL:HG22	1:32:A:GLN:HE21	8	0.5	0.27	0.6
(1,1833)	1:32:A:GLN:HE21	1:43:A:ALA:HB2	8	0.5	0.27	0.6
(3,2295)	1:94:A:THR:HG21	1:148:A:GLU:H	8	0.47	0.2	0.44
(3,2295)	1:94:A:THR:HG22	1:148:A:GLU:H	8	0.47	0.2	0.44
(3,2295)	1:94:A:THR:HG23	1:148:A:GLU:H	8	0.47	0.2	0.44
(3,502)	1:6:A:PHE:HE2	1:71:A:LEU:HB3	8	0.46	0.1	0.5
(3,502)	1:6:A:PHE:HE1	1:71:A:LEU:HB3	8	0.46	0.1	0.5
(1,1633)	1:117:A:ASN:HD21	1:119:A:ASN:HB3	8	0.46	0.49	0.19
(1,1633)	1:64:A:GLN:HE21	1:67:A:LYS:HE3	8	0.46	0.49	0.19
(1,875)	1:8:A:LYS:HG2	1:79:A:GLY:H	8	0.45	0.23	0.54
(1,640)	1:62:A:LEU:H	1:62:A:LEU:HB2	8	0.43	0.02	0.42
(1,67)	1:4:A:PHE:H	1:82:A:SER:HB2	8	0.43	0.2	0.44
(3,1393)	1:96:A:SER:HA	1:148:A:GLU:HB2	8	0.41	0.24	0.32
(3,1393)	1:96:A:SER:HA	1:147:A:PRO:HB3	8	0.41	0.24	0.32
(3,1138)	1:37:A:LYS:HA	1:37:A:LYS:HG3	8	0.4	0.25	0.3
(3,1138)	1:123:A:LYS:HA	1:123:A:LYS:HG3	8	0.4	0.25	0.3
(3,2031)	1:76:A:ASN:HD22	1:143:A:VAL:HG13	8	0.39	0.2	0.4
(3,2031)	1:76:A:ASN:HD22	1:143:A:VAL:HG11	8	0.39	0.2	0.4
(3,2031)	1:76:A:ASN:HD22	1:143:A:VAL:HG12	8	0.39	0.2	0.4
(3,1943)	1:55:A:ALA:H	1:82:A:SER:HB2	8	0.38	0.26	0.37
(3,1943)	1:4:A:PHE:H	1:82:A:SER:HB2	8	0.38	0.26	0.37

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG11	8	0.38	0.01	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG12	8	0.38	0.01	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG13	8	0.38	0.01	0.38
(3,1957)	1:128:A:ASN:HA	1:145:A:ARG:HB2	8	0.38	0.19	0.41
(3,1957)	1:127:A:ALA:HB1	1:128:A:ASN:HA	8	0.38	0.19	0.41
(3,1783)	1:62:A:LEU:H	1:62:A:LEU:HB2	8	0.37	0.02	0.36
(1,1566)	1:149:A:GLU:HG2	1:150:A:LEU:H	8	0.37	0.18	0.35
(1,1566)	1:149:A:GLU:HB2	1:150:A:LEU:H	8	0.37	0.18	0.35
(1,1566)	1:149:A:GLU:HG3	1:150:A:LEU:H	8	0.37	0.18	0.35
(1,1566)	1:150:A:LEU:H	1:151:A:GLU:HB2	8	0.37	0.18	0.35
(3,2404)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	8	0.36	0.22	0.3
(1,1313)	1:125:A:PHE:HD2	1:128:A:ASN:H	8	0.35	0.17	0.4
(3,1029)	1:56:A:THR:HG21	1:86:A:GLN:HB2	8	0.33	0.15	0.33
(3,1029)	1:56:A:THR:HG23	1:86:A:GLN:HB2	8	0.33	0.15	0.33
(3,1029)	1:56:A:THR:HG22	1:86:A:GLN:HB2	8	0.33	0.15	0.33
(3,1029)	1:49:A:GLN:HB2	1:56:A:THR:HG22	8	0.33	0.15	0.33
(3,2512)	1:97:A:GLN:HE21	1:114:A:VAL:HA	8	0.32	0.16	0.29
(3,2512)	1:113:A:GLN:H	1:114:A:VAL:HA	8	0.32	0.16	0.29
(1,693)	1:67:A:LYS:H	1:68:A:GLU:HG3	8	0.31	0.09	0.3
(1,693)	1:64:A:GLN:HB2	1:67:A:LYS:H	8	0.31	0.09	0.3
(1,693)	1:64:A:GLN:HG3	1:67:A:LYS:H	8	0.31	0.09	0.3
(1,300)	1:29:A:LYS:HG3	1:33:A:GLU:H	8	0.3	0.16	0.26
(1,300)	1:132:A:LEU:H	1:132:A:LEU:HG	8	0.3	0.16	0.26
(3,254)	1:37:A:LYS:H	1:37:A:LYS:HD2	8	0.3	0.28	0.18
(3,254)	1:37:A:LYS:H	1:37:A:LYS:HD3	8	0.3	0.28	0.18
(3,1993)	1:107:A:LEU:HG	1:121:A:TYR:HB2	8	0.3	0.09	0.28
(3,1341)	1:60:A:ASP:H	1:87:A:VAL:HG21	8	0.29	0.07	0.28
(3,1341)	1:60:A:ASP:H	1:87:A:VAL:HG23	8	0.29	0.07	0.28
(3,1341)	1:60:A:ASP:H	1:87:A:VAL:HG22	8	0.29	0.07	0.28
(3,306)	1:106:A:THR:H	1:106:A:THR:HG23	8	0.27	0.11	0.26
(3,306)	1:106:A:THR:H	1:106:A:THR:HG22	8	0.27	0.11	0.26
(3,306)	1:106:A:THR:H	1:106:A:THR:HG21	8	0.27	0.11	0.26
(3,470)	1:6:A:PHE:HD2	1:143:A:VAL:HB	8	0.27	0.06	0.29
(3,587)	1:42:A:ASP:HA	1:45:A:LYS:HE2	8	0.27	0.09	0.26
(1,49)	1:82:A:SER:HB2	1:83:A:VAL:H	8	0.26	0.1	0.25
(3,1869)	1:82:A:SER:H	1:82:A:SER:HB3	8	0.26	0.01	0.26
(3,1068)	1:108:A:SER:HB2	1:121:A:TYR:HB3	8	0.24	0.1	0.23
(3,2023)	1:99:A:TYR:HD2	1:113:A:GLN:HG3	8	0.24	0.13	0.18
(1,506)	1:49:A:GLN:H	1:56:A:THR:HG21	8	0.24	0.1	0.17
(1,506)	1:49:A:GLN:H	1:56:A:THR:HG22	8	0.24	0.1	0.17
(1,506)	1:49:A:GLN:H	1:56:A:THR:HG23	8	0.24	0.1	0.17
(1,506)	1:48:A:ILE:HG12	1:49:A:GLN:H	8	0.24	0.1	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2358)	1:129:A:LYS:HD3	1:130:A:PRO:HA	8	0.24	0.2	0.18
(3,264)	1:47:A:ASN:HB3	1:48:A:ILE:H	8	0.23	0.07	0.22
(3,264)	1:47:A:ASN:HB2	1:48:A:ILE:H	8	0.23	0.07	0.22
(3,1132)	1:23:A:ASP:HA	1:24:A:LYS:HA	8	0.23	0.14	0.15
(3,1132)	1:24:A:LYS:HA	1:25:A:ASP:HA	8	0.23	0.14	0.15
(3,1867)	1:5:A:ASN:HA	1:82:A:SER:HB2	8	0.22	0.04	0.2
(3,1867)	1:54:A:LYS:HA	1:82:A:SER:HB2	8	0.22	0.04	0.2
(3,417)	1:131:A:MET:HE1	1:132:A:LEU:H	8	0.22	0.1	0.22
(3,417)	1:131:A:MET:HE2	1:132:A:LEU:H	8	0.22	0.1	0.22
(3,417)	1:131:A:MET:HE3	1:132:A:LEU:H	8	0.22	0.1	0.22
(3,278)	1:27:A:GLN:H	1:27:A:GLN:HG2	8	0.22	0.06	0.22
(1,271)	1:30:A:LYS:HG3	1:31:A:VAL:H	8	0.22	0.08	0.23
(1,271)	1:30:A:LYS:HD2	1:31:A:VAL:H	8	0.22	0.08	0.23
(1,271)	1:30:A:LYS:HD3	1:31:A:VAL:H	8	0.22	0.08	0.23
(1,529)	1:51:A:ALA:H	1:54:A:LYS:HG3	8	0.2	0.07	0.18
(3,640)	1:6:A:PHE:HD1	1:82:A:SER:HA	8	0.15	0.02	0.16
(3,640)	1:6:A:PHE:HD2	1:82:A:SER:HA	8	0.15	0.02	0.16
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG21	8	0.15	0.04	0.14
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG22	8	0.15	0.04	0.14
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG23	8	0.15	0.04	0.14
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD11	8	0.15	0.04	0.13
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD12	8	0.15	0.04	0.13
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD13	8	0.15	0.04	0.13
(1,203)	1:17:A:ALA:HB1	1:18:A:VAL:H	8	0.13	0.03	0.11
(1,203)	1:17:A:ALA:HB2	1:18:A:VAL:H	8	0.13	0.03	0.11
(1,203)	1:17:A:ALA:HB3	1:18:A:VAL:H	8	0.13	0.03	0.11
(3,1014)	1:56:A:THR:HA	1:84:A:ASP:HB2	8	0.12	0.02	0.12
(1,587)	1:58:A:THR:H	1:58:A:THR:HG21	8	0.11	0.01	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG22	8	0.11	0.01	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG23	8	0.11	0.01	0.11
(1,1731)	1:63:A:SER:HB3	1:93:A:ALA:H	7	1.12	0.27	1.19
(3,2194)	1:54:A:LYS:HG3	1:55:A:ALA:H	7	1.04	0.19	0.93
(3,1596)	1:42:A:ASP:HB3	1:45:A:LYS:HD2	7	1.02	0.16	1.03
(3,1596)	1:42:A:ASP:HB3	1:62:A:LEU:HG	7	1.02	0.16	1.03
(3,1596)	1:42:A:ASP:HB2	1:69:A:LYS:HB3	7	1.02	0.16	1.03
(3,941)	1:107:A:LEU:HD11	1:125:A:PHE:HD2	7	0.94	0.45	0.99
(3,941)	1:125:A:PHE:HE2	1:132:A:LEU:HD13	7	0.94	0.45	0.99
(3,941)	1:125:A:PHE:HD2	1:132:A:LEU:HD12	7	0.94	0.45	0.99
(3,941)	1:125:A:PHE:HE2	1:132:A:LEU:HD12	7	0.94	0.45	0.99
(3,941)	1:125:A:PHE:HD2	1:132:A:LEU:HD13	7	0.94	0.45	0.99
(3,1133)	1:107:A:LEU:HA	1:138:A:ILE:HG22	7	0.94	0.39	0.87
(3,1133)	1:107:A:LEU:HA	1:107:A:LEU:HD21	7	0.94	0.39	0.87

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1133)	1:107:A:LEU:HA	1:138:A:ILE:HG23	7	0.94	0.39	0.87
(3,1133)	1:107:A:LEU:HA	1:107:A:LEU:HD23	7	0.94	0.39	0.87
(1,549)	1:54:A:LYS:HG3	1:55:A:ALA:H	7	0.86	0.19	0.75
(3,543)	1:3:A:LEU:HD12	1:84:A:ASP:HB3	7	0.81	0.17	0.9
(3,543)	1:107:A:LEU:HD21	1:125:A:PHE:HB2	7	0.81	0.17	0.9
(3,543)	1:107:A:LEU:HD23	1:125:A:PHE:HB2	7	0.81	0.17	0.9
(3,543)	1:3:A:LEU:HD11	1:84:A:ASP:HB3	7	0.81	0.17	0.9
(3,543)	1:107:A:LEU:HD22	1:125:A:PHE:HB2	7	0.81	0.17	0.9
(3,1176)	1:113:A:GLN:HA	1:113:A:GLN:HG2	7	0.79	0.42	1.1
(3,1176)	1:113:A:GLN:HG2	1:114:A:VAL:HA	7	0.79	0.42	1.1
(3,238)	1:29:A:LYS:HA	1:29:A:LYS:HD2	7	0.76	0.24	0.8
(3,238)	1:29:A:LYS:HA	1:29:A:LYS:HD3	7	0.76	0.24	0.8
(3,238)	1:33:A:GLU:HA	1:37:A:LYS:HD2	7	0.76	0.24	0.8
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD11	7	0.74	0.19	0.68
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD12	7	0.74	0.19	0.68
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD13	7	0.74	0.19	0.68
(1,1697)	1:107:A:LEU:HD12	1:128:A:ASN:HD21	7	0.71	0.36	0.68
(1,1697)	1:107:A:LEU:HD11	1:128:A:ASN:HD21	7	0.71	0.36	0.68
(1,1697)	1:107:A:LEU:HD13	1:128:A:ASN:HD21	7	0.71	0.36	0.68
(1,1697)	1:124:A:ILE:HG13	1:128:A:ASN:HD21	7	0.71	0.36	0.68
(3,943)	1:14:A:LEU:HA	1:14:A:LEU:HD12	7	0.69	0.04	0.68
(3,943)	1:14:A:LEU:HA	1:14:A:LEU:HD11	7	0.69	0.04	0.68
(3,623)	1:107:A:LEU:HB3	1:107:A:LEU:HD12	7	0.55	0.21	0.7
(3,623)	1:107:A:LEU:HB3	1:107:A:LEU:HD11	7	0.55	0.21	0.7
(3,623)	1:107:A:LEU:HB3	1:107:A:LEU:HD13	7	0.55	0.21	0.7
(3,623)	1:107:A:LEU:HB3	1:138:A:ILE:HG23	7	0.55	0.21	0.7
(3,738)	1:14:A:LEU:HD22	1:31:A:VAL:HA	7	0.55	0.04	0.54
(3,738)	1:14:A:LEU:HD21	1:31:A:VAL:HA	7	0.55	0.04	0.54
(3,738)	1:14:A:LEU:HD23	1:31:A:VAL:HA	7	0.55	0.04	0.54
(3,2173)	1:8:A:LYS:HD3	1:80:A:ILE:HA	7	0.54	0.22	0.62
(3,2173)	1:77:A:ILE:HB	1:80:A:ILE:HA	7	0.54	0.22	0.62
(1,1130)	1:112:A:LYS:HE2	1:113:A:GLN:H	7	0.53	0.17	0.55
(1,1130)	1:113:A:GLN:H	1:115:A:TYR:HB3	7	0.53	0.17	0.55
(1,1130)	1:112:A:LYS:HE3	1:113:A:GLN:H	7	0.53	0.17	0.55
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD21	7	0.5	0.01	0.5
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD22	7	0.5	0.01	0.5
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD23	7	0.5	0.01	0.5
(3,1826)	1:67:A:LYS:HE3	1:87:A:VAL:HB	7	0.48	0.2	0.48
(3,1826)	1:112:A:LYS:HB3	1:112:A:LYS:HE2	7	0.48	0.2	0.48
(3,1826)	1:67:A:LYS:HE2	1:87:A:VAL:HB	7	0.48	0.2	0.48
(3,1826)	1:112:A:LYS:HB3	1:112:A:LYS:HE3	7	0.48	0.2	0.48
(1,672)	1:62:A:LEU:HB2	1:66:A:ALA:H	7	0.43	0.2	0.42

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2067)	1:57:A:VAL:HG21	1:71:A:LEU:HA	7	0.42	0.27	0.38
(3,2067)	1:57:A:VAL:HG22	1:71:A:LEU:HA	7	0.42	0.27	0.38
(3,2067)	1:57:A:VAL:HG23	1:71:A:LEU:HA	7	0.42	0.27	0.38
(3,1691)	1:50:A:ILE:HD11	1:56:A:THR:H	7	0.4	0.23	0.32
(3,1691)	1:50:A:ILE:HD13	1:56:A:THR:H	7	0.4	0.23	0.32
(3,1691)	1:50:A:ILE:HD12	1:56:A:THR:H	7	0.4	0.23	0.32
(3,2259)	1:115:A:TYR:HB3	1:117:A:ASN:HB2	7	0.36	0.14	0.33
(3,2259)	1:117:A:ASN:HB2	1:156:A:HIS:HB2	7	0.36	0.14	0.33
(1,297)	1:31:A:VAL:HG12	1:32:A:GLN:H	7	0.34	0.19	0.46
(1,297)	1:31:A:VAL:HG11	1:32:A:GLN:H	7	0.34	0.19	0.46
(1,297)	1:31:A:VAL:HG13	1:32:A:GLN:H	7	0.34	0.19	0.46
(1,1411)	1:137:A:LYS:H	1:137:A:LYS:HD2	7	0.33	0.24	0.14
(3,563)	1:107:A:LEU:HD22	1:125:A:PHE:H	7	0.32	0.13	0.28
(3,563)	1:107:A:LEU:HD23	1:125:A:PHE:H	7	0.32	0.13	0.28
(3,563)	1:107:A:LEU:HD21	1:125:A:PHE:H	7	0.32	0.13	0.28
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD1	7	0.31	0.1	0.33
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD2	7	0.31	0.1	0.33
(3,2177)	1:54:A:LYS:HD2	1:84:A:ASP:H	7	0.3	0.21	0.17
(3,2250)	1:121:A:TYR:HD2	1:135:A:PRO:HG2	7	0.3	0.09	0.33
(3,1307)	1:74:A:VAL:HB	1:83:A:VAL:HG12	7	0.3	0.09	0.35
(3,1307)	1:57:A:VAL:HB	1:83:A:VAL:HG12	7	0.3	0.09	0.35
(3,1307)	1:57:A:VAL:HB	1:83:A:VAL:HG11	7	0.3	0.09	0.35
(3,1307)	1:57:A:VAL:HB	1:83:A:VAL:HG13	7	0.3	0.09	0.35
(3,1307)	1:71:A:LEU:HB3	1:83:A:VAL:HG11	7	0.3	0.09	0.35
(1,657)	1:62:A:LEU:HD13	1:63:A:SER:H	7	0.3	0.14	0.21
(1,657)	1:62:A:LEU:HD11	1:63:A:SER:H	7	0.3	0.14	0.21
(1,657)	1:62:A:LEU:HD21	1:63:A:SER:H	7	0.3	0.14	0.21
(1,657)	1:62:A:LEU:HD23	1:63:A:SER:H	7	0.3	0.14	0.21
(1,657)	1:62:A:LEU:HD12	1:63:A:SER:H	7	0.3	0.14	0.21
(3,1979)	1:86:A:GLN:H	1:87:A:VAL:HG13	7	0.29	0.17	0.22
(3,1979)	1:86:A:GLN:H	1:87:A:VAL:HG11	7	0.29	0.17	0.22
(3,1979)	1:86:A:GLN:H	1:87:A:VAL:HG12	7	0.29	0.17	0.22
(1,536)	1:52:A:ASP:HB2	1:54:A:LYS:H	7	0.29	0.09	0.32
(1,723)	1:69:A:LYS:H	1:69:A:LYS:HE2	7	0.29	0.11	0.26
(1,1811)	1:148:A:GLU:H	1:149:A:GLU:HB3	7	0.28	0.11	0.28
(1,1811)	1:145:A:ARG:HB3	1:148:A:GLU:H	7	0.28	0.11	0.28
(3,1359)	1:49:A:GLN:HB3	1:49:A:GLN:HG2	7	0.28	0.1	0.32
(3,1359)	1:113:A:GLN:HB2	1:113:A:GLN:HG3	7	0.28	0.1	0.32
(3,1155)	1:24:A:LYS:HA	1:27:A:GLN:H	7	0.27	0.18	0.25
(3,320)	1:108:A:SER:HA	1:121:A:TYR:HD1	7	0.27	0.08	0.28
(3,320)	1:108:A:SER:HA	1:121:A:TYR:H	7	0.27	0.08	0.28
(3,1808)	1:63:A:SER:HB3	1:65:A:GLU:H	7	0.25	0.07	0.29

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1397)	1:29:A:LYS:HG2	1:33:A:GLU:HG3	7	0.23	0.07	0.22
(3,1872)	1:137:A:LYS:H	1:138:A:ILE:HG22	7	0.22	0.06	0.23
(3,1872)	1:137:A:LYS:H	1:138:A:ILE:HG23	7	0.22	0.06	0.23
(3,1872)	1:137:A:LYS:H	1:138:A:ILE:HG21	7	0.22	0.06	0.23
(3,669)	1:28:A:ALA:HA	1:31:A:VAL:HG23	7	0.22	0.1	0.15
(3,669)	1:28:A:ALA:HA	1:31:A:VAL:HG22	7	0.22	0.1	0.15
(3,669)	1:28:A:ALA:HA	1:31:A:VAL:HG21	7	0.22	0.1	0.15
(3,1803)	1:72:A:VAL:HA	1:98:A:PHE:HE2	7	0.21	0.11	0.15
(3,1803)	1:6:A:PHE:HZ	1:72:A:VAL:HA	7	0.21	0.11	0.15
(3,1347)	1:115:A:TYR:HE1	1:149:A:GLU:HB3	7	0.2	0.05	0.18
(3,1347)	1:115:A:TYR:HE2	1:149:A:GLU:HB3	7	0.2	0.05	0.18
(1,2025)	1:63:A:SER:H	1:63:A:SER:HB2	7	0.19	0.08	0.15
(1,1696)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	7	0.18	0.06	0.17
(3,1710)	1:50:A:ILE:HD13	1:55:A:ALA:HB1	7	0.15	0.03	0.15
(3,1710)	1:31:A:VAL:HG22	1:50:A:ILE:HD11	7	0.15	0.03	0.15
(3,1710)	1:31:A:VAL:HG23	1:50:A:ILE:HD11	7	0.15	0.03	0.15
(3,1710)	1:50:A:ILE:HD11	1:55:A:ALA:HB2	7	0.15	0.03	0.15
(3,1710)	1:31:A:VAL:HG22	1:50:A:ILE:HD12	7	0.15	0.03	0.15
(3,1710)	1:31:A:VAL:HG21	1:50:A:ILE:HD13	7	0.15	0.03	0.15
(3,1710)	1:50:A:ILE:HD11	1:55:A:ALA:HB1	7	0.15	0.03	0.15
(1,1194)	1:112:A:LYS:HB3	1:117:A:ASN:H	7	0.14	0.03	0.13
(3,2289)	1:71:A:LEU:HB3	1:71:A:LEU:HD21	7	0.14	0.03	0.12
(3,2289)	1:71:A:LEU:HB3	1:71:A:LEU:HD23	7	0.14	0.03	0.12
(3,2289)	1:71:A:LEU:HB3	1:71:A:LEU:HD22	7	0.14	0.03	0.12
(3,913)	1:88:A:LYS:HB3	1:88:A:LYS:HG2	7	0.13	0.01	0.13
(3,913)	1:29:A:LYS:HB3	1:29:A:LYS:HG3	7	0.13	0.01	0.13
(1,1710)	1:80:A:ILE:H	1:80:A:ILE:HG13	7	0.13	0.02	0.13
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD21	7	0.13	0.02	0.12
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD22	7	0.13	0.02	0.12
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD23	7	0.13	0.02	0.12
(3,174)	1:40:A:ILE:HD11	1:130:A:PRO:HD2	7	0.12	0.03	0.12
(3,174)	1:40:A:ILE:HD12	1:130:A:PRO:HD2	7	0.12	0.03	0.12
(3,174)	1:40:A:ILE:HD13	1:130:A:PRO:HD2	7	0.12	0.03	0.12
(3,1658)	1:124:A:ILE:HD13	1:124:A:ILE:HG12	7	0.12	0.01	0.12
(3,1658)	1:124:A:ILE:HD12	1:124:A:ILE:HG12	7	0.12	0.01	0.12
(3,1658)	1:124:A:ILE:HD11	1:124:A:ILE:HG12	7	0.12	0.01	0.12
(3,609)	1:14:A:LEU:HA	1:14:A:LEU:HB2	7	0.1	0.0	0.1
(3,54)	1:7:A:VAL:HG11	1:9:A:ASP:H	6	1.62	0.15	1.57
(3,54)	1:7:A:VAL:HG12	1:9:A:ASP:H	6	1.62	0.15	1.57
(3,54)	1:7:A:VAL:HG13	1:9:A:ASP:H	6	1.62	0.15	1.57
(3,939)	1:71:A:LEU:HD13	1:98:A:PHE:HZ	6	1.45	0.26	1.46
(3,939)	1:71:A:LEU:HD12	1:98:A:PHE:HZ	6	1.45	0.26	1.46

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,939)	1:71:A:LEU:HD11	1:98:A:PHE:HZ	6	1.45	0.26	1.46
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD11	6	1.38	0.09	1.38
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD12	6	1.38	0.09	1.38
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD13	6	1.38	0.09	1.38
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD11	6	1.38	0.09	1.38
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD12	6	1.38	0.09	1.38
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD13	6	1.38	0.09	1.38
(1,111)	1:7:A:VAL:HG11	1:9:A:ASP:H	6	1.24	0.15	1.18
(1,111)	1:7:A:VAL:HG12	1:9:A:ASP:H	6	1.24	0.15	1.18
(1,111)	1:7:A:VAL:HG13	1:9:A:ASP:H	6	1.24	0.15	1.18
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD21	6	1.2	0.04	1.17
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD22	6	1.2	0.04	1.17
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD23	6	1.2	0.04	1.17
(1,837)	1:31:A:VAL:HG21	1:77:A:ILE:H	6	1.18	0.71	1.65
(1,837)	1:14:A:LEU:HB2	1:77:A:ILE:H	6	1.18	0.71	1.65
(1,837)	1:8:A:LYS:HG2	1:77:A:ILE:H	6	1.18	0.71	1.65
(1,837)	1:31:A:VAL:HG23	1:77:A:ILE:H	6	1.18	0.71	1.65
(3,945)	1:107:A:LEU:HD11	1:125:A:PHE:HA	6	1.16	0.8	0.82
(3,945)	1:107:A:LEU:HD13	1:125:A:PHE:HA	6	1.16	0.8	0.82
(3,945)	1:125:A:PHE:HA	1:132:A:LEU:HD13	6	1.16	0.8	0.82
(3,945)	1:107:A:LEU:HD12	1:125:A:PHE:HA	6	1.16	0.8	0.82
(3,2046)	1:101:A:VAL:HB	1:142:A:GLN:HB2	6	1.04	0.36	1.11
(1,1202)	1:119:A:ASN:H	1:156:A:HIS:HB3	6	1.03	0.37	0.94
(3,737)	1:71:A:LEU:HD21	1:85:A:ASP:HA	6	1.02	0.06	1.02
(3,737)	1:71:A:LEU:HD22	1:85:A:ASP:HA	6	1.02	0.06	1.02
(3,737)	1:71:A:LEU:HD23	1:85:A:ASP:HA	6	1.02	0.06	1.02
(3,1955)	1:128:A:ASN:HA	1:132:A:LEU:HD12	6	1.01	0.22	0.96
(3,1955)	1:128:A:ASN:HA	1:132:A:LEU:HD13	6	1.01	0.22	0.96
(3,1955)	1:128:A:ASN:HA	1:132:A:LEU:HD23	6	1.01	0.22	0.96
(3,1955)	1:128:A:ASN:HA	1:132:A:LEU:HD11	6	1.01	0.22	0.96
(3,1955)	1:101:A:VAL:HG13	1:139:A:TYR:HA	6	1.01	0.22	0.96
(3,1955)	1:128:A:ASN:HA	1:132:A:LEU:HD21	6	1.01	0.22	0.96
(3,2028)	1:7:A:VAL:HG11	1:9:A:ASP:HB3	6	0.98	0.14	0.94
(3,2028)	1:7:A:VAL:HG12	1:9:A:ASP:HB3	6	0.98	0.14	0.94
(3,2028)	1:7:A:VAL:HG13	1:9:A:ASP:HB3	6	0.98	0.14	0.94
(3,2336)	1:69:A:LYS:HD3	1:145:A:ARG:HD2	6	0.97	0.61	0.8
(3,2336)	1:41:A:PRO:HD3	1:69:A:LYS:HD3	6	0.97	0.61	0.8
(1,1067)	1:105:A:ASP:H	1:138:A:ILE:HG12	6	0.88	0.1	0.88
(1,1067)	1:101:A:VAL:HG13	1:105:A:ASP:H	6	0.88	0.1	0.88
(1,1067)	1:101:A:VAL:HG11	1:105:A:ASP:H	6	0.88	0.1	0.88
(3,208)	1:101:A:VAL:HB	1:142:A:GLN:H	6	0.85	0.24	0.96
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG21	6	0.8	0.02	0.8

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG22	6	0.8	0.02	0.8
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG23	6	0.8	0.02	0.8
(1,1824)	1:31:A:VAL:HG21	1:32:A:GLN:HE22	6	0.79	0.17	0.84
(1,1824)	1:32:A:GLN:HE22	1:43:A:ALA:HB1	6	0.79	0.17	0.84
(1,1824)	1:31:A:VAL:HG23	1:32:A:GLN:HE22	6	0.79	0.17	0.84
(1,1824)	1:31:A:VAL:HG22	1:32:A:GLN:HE22	6	0.79	0.17	0.84
(1,1466)	1:101:A:VAL:HB	1:142:A:GLN:H	6	0.7	0.24	0.81
(3,1276)	1:101:A:VAL:HG11	1:138:A:ILE:HA	6	0.7	0.07	0.66
(3,1276)	1:101:A:VAL:HG12	1:138:A:ILE:HA	6	0.7	0.07	0.66
(3,1276)	1:101:A:VAL:HG13	1:138:A:ILE:HA	6	0.7	0.07	0.66
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD3	6	0.67	0.04	0.68
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD2	6	0.67	0.04	0.68
(1,1050)	1:101:A:VAL:HG13	1:102:A:LYS:H	6	0.65	0.06	0.66
(1,1050)	1:101:A:VAL:HG11	1:102:A:LYS:H	6	0.65	0.06	0.66
(1,1050)	1:101:A:VAL:HG12	1:102:A:LYS:H	6	0.65	0.06	0.66
(3,561)	1:3:A:LEU:HD23	1:5:A:ASN:HD22	6	0.64	0.6	0.38
(3,561)	1:3:A:LEU:HD21	1:5:A:ASN:HD22	6	0.64	0.6	0.38
(3,561)	1:107:A:LEU:HD22	1:138:A:ILE:H	6	0.64	0.6	0.38
(3,561)	1:15:A:TRP:HH2	1:74:A:VAL:HG13	6	0.64	0.6	0.38
(3,624)	1:107:A:LEU:HB2	1:107:A:LEU:HD13	6	0.6	0.08	0.64
(3,624)	1:107:A:LEU:HB2	1:107:A:LEU:HD12	6	0.6	0.08	0.64
(3,624)	1:107:A:LEU:HB2	1:107:A:LEU:HD11	6	0.6	0.08	0.64
(1,1874)	1:68:A:GLU:HG3	1:145:A:ARG:HE	6	0.55	0.31	0.5
(1,663)	1:63:A:SER:HB3	1:65:A:GLU:H	6	0.47	0.19	0.52
(3,1063)	1:13:A:LYS:HG3	1:78:A:SER:HB3	6	0.46	0.11	0.44
(1,759)	1:71:A:LEU:H	1:71:A:LEU:HG	6	0.43	0.03	0.43
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB1	6	0.42	0.11	0.44
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB2	6	0.42	0.11	0.44
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB3	6	0.42	0.11	0.44
(3,1807)	1:99:A:TYR:HE1	1:110:A:ILE:HA	6	0.39	0.24	0.3
(3,2733)	1:64:A:GLN:HE22	1:64:A:GLN:HG3	6	0.36	0.01	0.36
(3,1139)	1:123:A:LYS:HA	1:123:A:LYS:HG3	6	0.34	0.12	0.36
(3,1139)	1:24:A:LYS:HA	1:24:A:LYS:HG2	6	0.34	0.12	0.36
(3,1139)	1:24:A:LYS:HA	1:24:A:LYS:HG3	6	0.34	0.12	0.36
(3,273)	1:64:A:GLN:HG3	1:93:A:ALA:HB1	6	0.34	0.14	0.38
(3,273)	1:64:A:GLN:HG3	1:93:A:ALA:HB3	6	0.34	0.14	0.38
(3,273)	1:64:A:GLN:HB2	1:93:A:ALA:HB2	6	0.34	0.14	0.38
(1,1025)	1:100:A:THR:H	1:101:A:VAL:HG23	6	0.34	0.07	0.34
(1,1025)	1:100:A:THR:H	1:101:A:VAL:HG21	6	0.34	0.07	0.34
(1,1025)	1:100:A:THR:H	1:101:A:VAL:HG22	6	0.34	0.07	0.34
(3,657)	1:125:A:PHE:HE1	1:129:A:LYS:HE2	6	0.33	0.32	0.21
(1,1195)	1:112:A:LYS:HG3	1:117:A:ASN:H	6	0.32	0.28	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1195)	1:117:A:ASN:H	1:118:A:ALA:HB3	6	0.32	0.28	0.17
(1,1195)	1:117:A:ASN:H	1:118:A:ALA:HB2	6	0.32	0.28	0.17
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB1	6	0.32	0.19	0.22
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB2	6	0.32	0.19	0.22
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB3	6	0.32	0.19	0.22
(1,1448)	1:101:A:VAL:HB	1:141:A:GLY:H	6	0.31	0.07	0.34
(3,406)	1:69:A:LYS:H	1:69:A:LYS:HG3	6	0.31	0.05	0.32
(3,406)	1:69:A:LYS:HG3	1:70:A:ILE:H	6	0.31	0.05	0.32
(3,925)	1:13:A:LYS:HG3	1:78:A:SER:HB3	6	0.27	0.11	0.26
(3,166)	1:92:A:PRO:HA	1:92:A:PRO:HB2	6	0.26	0.01	0.26
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE3	6	0.26	0.06	0.29
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE2	6	0.26	0.06	0.29
(3,107)	1:67:A:LYS:HG2	1:68:A:GLU:H	6	0.25	0.09	0.24
(3,1385)	1:148:A:GLU:HG3	1:149:A:GLU:H	6	0.25	0.12	0.24
(3,2847)	1:63:A:SER:HB3	1:64:A:GLN:H	6	0.25	0.04	0.26
(3,131)	1:121:A:TYR:HE2	1:135:A:PRO:HG3	6	0.24	0.11	0.21
(3,764)	1:8:A:LYS:HA	1:8:A:LYS:HG2	6	0.24	0.04	0.25
(3,764)	1:69:A:LYS:HA	1:69:A:LYS:HG2	6	0.24	0.04	0.25
(3,236)	1:30:A:LYS:H	1:30:A:LYS:HD3	6	0.23	0.04	0.24
(3,2299)	1:14:A:LEU:H	1:14:A:LEU:HG	6	0.22	0.08	0.26
(1,701)	1:62:A:LEU:HD22	1:67:A:LYS:H	6	0.22	0.03	0.21
(1,701)	1:62:A:LEU:HD12	1:67:A:LYS:H	6	0.22	0.03	0.21
(1,701)	1:62:A:LEU:HD21	1:67:A:LYS:H	6	0.22	0.03	0.21
(1,804)	1:35:A:LEU:HD12	1:74:A:VAL:H	6	0.21	0.15	0.14
(1,804)	1:35:A:LEU:HD22	1:74:A:VAL:H	6	0.21	0.15	0.14
(1,804)	1:35:A:LEU:HD21	1:74:A:VAL:H	6	0.21	0.15	0.14
(1,804)	1:35:A:LEU:HD23	1:74:A:VAL:H	6	0.21	0.15	0.14
(1,1038)	1:101:A:VAL:H	1:102:A:LYS:HG2	6	0.21	0.1	0.18
(1,914)	1:80:A:ILE:HG12	1:82:A:SER:H	6	0.2	0.07	0.2
(1,914)	1:54:A:LYS:HG2	1:82:A:SER:H	6	0.2	0.07	0.2
(3,1353)	1:97:A:GLN:HG2	1:146:A:ILE:HG21	6	0.2	0.08	0.2
(3,1353)	1:97:A:GLN:HG2	1:146:A:ILE:HG23	6	0.2	0.08	0.2
(3,765)	1:8:A:LYS:HA	1:8:A:LYS:HG2	6	0.19	0.04	0.2
(3,765)	1:69:A:LYS:HA	1:69:A:LYS:HG2	6	0.19	0.04	0.2
(3,740)	1:14:A:LEU:HD21	1:34:A:HIS:HB3	6	0.19	0.08	0.17
(3,740)	1:14:A:LEU:HD22	1:34:A:HIS:HB3	6	0.19	0.08	0.17
(3,740)	1:14:A:LEU:HD23	1:34:A:HIS:HB3	6	0.19	0.08	0.17
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB3	6	0.19	0.04	0.18
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB2	6	0.19	0.04	0.18
(3,841)	1:10:A:ALA:HB1	1:11:A:GLY:H	6	0.18	0.1	0.14
(3,841)	1:10:A:ALA:HB2	1:11:A:GLY:H	6	0.18	0.1	0.14
(3,841)	1:10:A:ALA:HB3	1:11:A:GLY:H	6	0.18	0.1	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE1	6	0.18	0.05	0.16
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE2	6	0.18	0.05	0.16
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE3	6	0.18	0.05	0.16
(3,1500)	1:115:A:TYR:HE1	1:148:A:GLU:HA	6	0.17	0.04	0.16
(3,1500)	1:115:A:TYR:HE2	1:148:A:GLU:HA	6	0.17	0.04	0.16
(1,483)	1:46:A:VAL:HG21	1:47:A:ASN:H	6	0.16	0.05	0.15
(1,483)	1:46:A:VAL:HG23	1:47:A:ASN:H	6	0.16	0.05	0.15
(1,483)	1:46:A:VAL:HG22	1:47:A:ASN:H	6	0.16	0.05	0.15
(1,729)	1:69:A:LYS:H	1:69:A:LYS:HG2	6	0.16	0.05	0.16
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB3	6	0.16	0.03	0.16
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB2	6	0.16	0.03	0.16
(3,1930)	1:71:A:LEU:H	1:71:A:LEU:HG	6	0.16	0.03	0.16
(1,1118)	1:106:A:THR:H	1:111:A:SER:H	6	0.15	0.03	0.15
(1,1118)	1:99:A:TYR:HE1	1:111:A:SER:H	6	0.15	0.03	0.15
(1,1118)	1:111:A:SER:H	1:115:A:TYR:HE2	6	0.15	0.03	0.15
(1,1738)	1:94:A:THR:HB	1:95:A:ALA:H	6	0.15	0.04	0.14
(3,209)	1:101:A:VAL:H	1:101:A:VAL:HB	6	0.14	0.02	0.14
(3,496)	1:139:A:TYR:HE2	1:142:A:GLN:H	6	0.13	0.02	0.12
(3,846)	1:10:A:ALA:HB1	1:141:A:GLY:H	6	0.13	0.02	0.14
(3,846)	1:10:A:ALA:HB2	1:141:A:GLY:H	6	0.13	0.02	0.14
(3,846)	1:10:A:ALA:HB3	1:141:A:GLY:H	6	0.13	0.02	0.14
(1,460)	1:45:A:LYS:HG2	1:46:A:VAL:H	6	0.13	0.03	0.12
(3,1432)	1:24:A:LYS:HA	1:25:A:ASP:H	6	0.12	0.03	0.11
(3,1432)	1:107:A:LEU:HA	1:110:A:ILE:H	6	0.12	0.03	0.11
(1,404)	1:37:A:LYS:HB3	1:39:A:GLY:H	6	0.12	0.02	0.11
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD11	5	1.55	0.73	1.91
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD12	5	1.55	0.73	1.91
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD13	5	1.55	0.73	1.91
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD11	5	1.55	0.73	1.91
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD12	5	1.55	0.73	1.91
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD13	5	1.55	0.73	1.91
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD11	5	1.55	0.73	1.91
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD12	5	1.55	0.73	1.91
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD13	5	1.55	0.73	1.91
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD11	5	1.36	0.03	1.36
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD12	5	1.36	0.03	1.36
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD13	5	1.36	0.03	1.36
(3,1253)	1:107:A:LEU:HD11	1:125:A:PHE:HA	5	1.07	0.73	0.65
(3,1253)	1:107:A:LEU:HD13	1:125:A:PHE:HA	5	1.07	0.73	0.65
(3,1253)	1:107:A:LEU:HD12	1:125:A:PHE:HA	5	1.07	0.73	0.65
(3,165)	1:26:A:ASP:HA	1:30:A:LYS:HD3	5	0.94	0.43	0.94
(3,165)	1:26:A:ASP:HA	1:29:A:LYS:HD2	5	0.94	0.43	0.94

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,165)	1:24:A:LYS:HD2	1:51:A:ALA:HA	5	0.94	0.43	0.94
(3,165)	1:133:A:LYS:HA	1:133:A:LYS:HD3	5	0.94	0.43	0.94
(3,1470)	1:113:A:GLN:HA	1:113:A:GLN:HG2	5	0.87	0.1	0.92
(1,115)	1:8:A:LYS:HG2	1:10:A:ALA:H	5	0.82	0.05	0.83
(1,224)	1:22:A:HIS:HB3	1:27:A:GLN:H	5	0.78	0.34	0.79
(1,224)	1:24:A:LYS:HE2	1:27:A:GLN:H	5	0.78	0.34	0.79
(1,224)	1:24:A:LYS:HE3	1:27:A:GLN:H	5	0.78	0.34	0.79
(3,558)	1:107:A:LEU:HD22	1:121:A:TYR:HA	5	0.77	0.43	1.08
(3,558)	1:3:A:LEU:HD13	1:82:A:SER:HB3	5	0.77	0.43	1.08
(3,558)	1:3:A:LEU:HD11	1:82:A:SER:HB3	5	0.77	0.43	1.08
(3,558)	1:107:A:LEU:HA	1:107:A:LEU:HD23	5	0.77	0.43	1.08
(3,558)	1:3:A:LEU:HD12	1:82:A:SER:HB3	5	0.77	0.43	1.08
(1,1616)	1:8:A:LYS:HD3	1:9:A:ASP:H	5	0.6	0.25	0.66
(1,1692)	1:65:A:GLU:H	1:67:A:LYS:HG2	5	0.59	0.27	0.79
(1,1692)	1:62:A:LEU:HB2	1:65:A:GLU:H	5	0.59	0.27	0.79
(1,215)	1:22:A:HIS:HB2	1:26:A:ASP:H	5	0.57	0.22	0.61
(1,215)	1:22:A:HIS:HB3	1:26:A:ASP:H	5	0.57	0.22	0.61
(3,2433)	1:8:A:LYS:HB3	1:8:A:LYS:HE2	5	0.56	0.06	0.57
(3,2433)	1:8:A:LYS:HB2	1:8:A:LYS:HE3	5	0.56	0.06	0.57
(3,2433)	1:8:A:LYS:HB2	1:8:A:LYS:HE2	5	0.56	0.06	0.57
(3,161)	1:113:A:GLN:H	1:113:A:GLN:HG3	5	0.5	0.12	0.45
(1,270)	1:14:A:LEU:HD11	1:30:A:LYS:H	5	0.49	0.31	0.63
(1,270)	1:14:A:LEU:HD12	1:30:A:LYS:H	5	0.49	0.31	0.63
(1,270)	1:14:A:LEU:HD13	1:30:A:LYS:H	5	0.49	0.31	0.63
(3,1310)	1:101:A:VAL:HG23	1:142:A:GLN:HB3	5	0.47	0.23	0.4
(3,1310)	1:101:A:VAL:HG21	1:142:A:GLN:HB3	5	0.47	0.23	0.4
(3,1310)	1:101:A:VAL:HG22	1:142:A:GLN:HB3	5	0.47	0.23	0.4
(1,1093)	1:105:A:ASP:HB2	1:110:A:ILE:H	5	0.45	0.22	0.38
(1,2476)	1:32:A:GLN:HA	1:32:A:GLN:HE22	5	0.45	0.31	0.23
(3,1758)	1:49:A:GLN:HB2	1:56:A:THR:HB	5	0.45	0.03	0.45
(3,330)	1:111:A:SER:H	1:111:A:SER:HB2	5	0.43	0.04	0.43
(3,330)	1:111:A:SER:HB2	1:112:A:LYS:H	5	0.43	0.04	0.43
(3,917)	1:64:A:GLN:H	1:64:A:GLN:HG2	5	0.42	0.11	0.46
(3,917)	1:64:A:GLN:H	1:64:A:GLN:HG3	5	0.42	0.11	0.46
(3,917)	1:133:A:LYS:H	1:137:A:LYS:HB2	5	0.42	0.11	0.46
(3,1877)	1:45:A:LYS:HA	1:45:A:LYS:HG3	5	0.41	0.16	0.44
(3,1877)	1:87:A:VAL:HA	1:88:A:LYS:HG3	5	0.41	0.16	0.44
(1,676)	1:66:A:ALA:H	1:68:A:GLU:HG3	5	0.38	0.2	0.34
(1,676)	1:64:A:GLN:HB2	1:66:A:ALA:H	5	0.38	0.2	0.34
(1,925)	1:49:A:GLN:HB2	1:84:A:ASP:H	5	0.37	0.06	0.41
(1,1348)	1:128:A:ASN:HD22	1:129:A:LYS:H	5	0.37	0.09	0.39
(3,405)	1:4:A:PHE:HD1	1:85:A:ASP:HB3	5	0.36	0.18	0.36

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,405)	1:4:A:PHE:HD2	1:85:A:ASP:HB3	5	0.36	0.18	0.36
(1,1406)	1:121:A:TYR:HD2	1:136:A:ASP:H	5	0.35	0.2	0.26
(1,1406)	1:125:A:PHE:HD2	1:136:A:ASP:H	5	0.35	0.2	0.26
(3,2146)	1:118:A:ALA:HB1	1:121:A:TYR:HD1	5	0.35	0.15	0.37
(3,2146)	1:118:A:ALA:HB3	1:121:A:TYR:HD1	5	0.35	0.15	0.37
(1,1751)	1:96:A:SER:H	1:145:A:ARG:HG2	5	0.35	0.16	0.27
(1,1197)	1:112:A:LYS:HG2	1:117:A:ASN:H	5	0.33	0.08	0.37
(3,2343)	1:69:A:LYS:H	1:69:A:LYS:HD2	5	0.32	0.2	0.34
(3,2343)	1:69:A:LYS:H	1:69:A:LYS:HD3	5	0.32	0.2	0.34
(3,1395)	1:30:A:LYS:HD3	1:33:A:GLU:HG3	5	0.31	0.21	0.15
(3,1395)	1:30:A:LYS:HD2	1:33:A:GLU:HG3	5	0.31	0.21	0.15
(1,309)	1:33:A:GLU:H	1:37:A:LYS:HE3	5	0.31	0.16	0.24
(1,309)	1:29:A:LYS:HE2	1:33:A:GLU:H	5	0.31	0.16	0.24
(1,309)	1:29:A:LYS:HE3	1:33:A:GLU:H	5	0.31	0.16	0.24
(3,1790)	1:82:A:SER:HA	1:83:A:VAL:HG22	5	0.31	0.17	0.28
(3,1790)	1:82:A:SER:HA	1:83:A:VAL:HG23	5	0.31	0.17	0.28
(3,1790)	1:80:A:ILE:HG23	1:82:A:SER:HA	5	0.31	0.17	0.28
(3,1790)	1:80:A:ILE:HG21	1:82:A:SER:HA	5	0.31	0.17	0.28
(3,1790)	1:82:A:SER:HA	1:83:A:VAL:HG21	5	0.31	0.17	0.28
(3,535)	1:62:A:LEU:HB3	1:66:A:ALA:HB2	5	0.31	0.17	0.23
(3,535)	1:62:A:LEU:HB3	1:66:A:ALA:HB3	5	0.31	0.17	0.23
(3,535)	1:62:A:LEU:HB3	1:66:A:ALA:HB1	5	0.31	0.17	0.23
(3,1848)	1:54:A:LYS:HD2	1:82:A:SER:HB2	5	0.3	0.12	0.27
(3,1848)	1:54:A:LYS:HD3	1:82:A:SER:HB2	5	0.3	0.12	0.27
(3,583)	1:4:A:PHE:HB3	1:6:A:PHE:HZ	5	0.29	0.12	0.32
(3,583)	1:4:A:PHE:HB2	1:6:A:PHE:HZ	5	0.29	0.12	0.32
(3,774)	1:49:A:GLN:HB3	1:50:A:ILE:H	5	0.28	0.07	0.23
(1,1788)	1:110:A:ILE:HB	1:115:A:TYR:H	5	0.27	0.16	0.18
(1,1788)	1:112:A:LYS:HG3	1:115:A:TYR:H	5	0.27	0.16	0.18
(1,1788)	1:115:A:TYR:H	1:118:A:ALA:HB2	5	0.27	0.16	0.18
(1,1688)	1:57:A:VAL:H	1:86:A:GLN:HE22	5	0.26	0.06	0.27
(1,515)	1:49:A:GLN:HB3	1:50:A:ILE:H	5	0.25	0.07	0.21
(3,1297)	1:101:A:VAL:HG21	1:138:A:ILE:HB	5	0.25	0.07	0.27
(3,1297)	1:101:A:VAL:HG22	1:138:A:ILE:HB	5	0.25	0.07	0.27
(3,1297)	1:57:A:VAL:HB	1:87:A:VAL:HG13	5	0.25	0.07	0.27
(3,1297)	1:101:A:VAL:HG23	1:138:A:ILE:HB	5	0.25	0.07	0.27
(1,228)	1:28:A:ALA:H	1:29:A:LYS:HA	5	0.25	0.08	0.24
(1,228)	1:24:A:LYS:HA	1:28:A:ALA:H	5	0.25	0.08	0.24
(3,1537)	1:40:A:ILE:HD11	1:130:A:PRO:HG2	5	0.24	0.11	0.29
(3,1537)	1:40:A:ILE:HD12	1:130:A:PRO:HG2	5	0.24	0.11	0.29
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD21	5	0.24	0.03	0.24
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD22	5	0.24	0.03	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD23	5	0.24	0.03	0.24
(1,2014)	1:49:A:GLN:H	1:49:A:GLN:HG3	5	0.23	0.04	0.23
(1,2014)	1:49:A:GLN:H	1:49:A:GLN:HG2	5	0.23	0.04	0.23
(1,260)	1:26:A:ASP:HB3	1:30:A:LYS:H	5	0.21	0.1	0.18
(3,1686)	1:15:A:TRP:HZ3	1:30:A:LYS:HB3	5	0.21	0.06	0.2
(1,251)	1:29:A:LYS:H	1:32:A:GLN:HB3	5	0.21	0.01	0.21
(1,251)	1:29:A:LYS:H	1:32:A:GLN:HB2	5	0.21	0.01	0.21
(3,722)	1:63:A:SER:HB2	1:93:A:ALA:HB1	5	0.21	0.1	0.21
(3,722)	1:63:A:SER:HB2	1:93:A:ALA:HB2	5	0.21	0.1	0.21
(3,722)	1:93:A:ALA:HB1	1:94:A:THR:HB	5	0.21	0.1	0.21
(1,1761)	1:97:A:GLN:H	1:146:A:ILE:HD11	5	0.21	0.04	0.2
(1,1761)	1:97:A:GLN:H	1:146:A:ILE:HD12	5	0.21	0.04	0.2
(1,1761)	1:97:A:GLN:H	1:146:A:ILE:HD13	5	0.21	0.04	0.2
(3,363)	1:30:A:LYS:HA	1:30:A:LYS:HG3	5	0.2	0.02	0.22
(3,2914)	1:13:A:LYS:HA	1:13:A:LYS:HG3	5	0.2	0.03	0.21
(1,1800)	1:72:A:VAL:HG23	1:146:A:ILE:H	5	0.2	0.09	0.17
(1,1800)	1:124:A:ILE:HD11	1:146:A:ILE:H	5	0.2	0.09	0.17
(1,1800)	1:124:A:ILE:HD13	1:146:A:ILE:H	5	0.2	0.09	0.17
(1,230)	1:25:A:ASP:HB3	1:28:A:ALA:H	5	0.19	0.05	0.17
(1,230)	1:25:A:ASP:HB2	1:28:A:ALA:H	5	0.19	0.05	0.17
(1,230)	1:26:A:ASP:HB3	1:28:A:ALA:H	5	0.19	0.05	0.17
(1,230)	1:26:A:ASP:HB2	1:28:A:ALA:H	5	0.19	0.05	0.17
(1,19)	1:15:A:TRP:HE1	1:79:A:GLY:HA3	5	0.19	0.06	0.19
(1,763)	1:71:A:LEU:H	1:73:A:ALA:HB2	5	0.18	0.03	0.19
(1,763)	1:71:A:LEU:H	1:73:A:ALA:HB1	5	0.18	0.03	0.19
(3,1461)	1:30:A:LYS:HA	1:33:A:GLU:H	5	0.18	0.03	0.2
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG11	5	0.18	0.07	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG12	5	0.18	0.07	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG13	5	0.18	0.07	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG21	5	0.18	0.07	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG22	5	0.18	0.07	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG23	5	0.18	0.07	0.18
(3,2008)	1:96:A:SER:HB3	1:146:A:ILE:HB	5	0.18	0.08	0.13
(3,2008)	1:96:A:SER:HB3	1:147:A:PRO:HB3	5	0.18	0.08	0.13
(3,2596)	1:132:A:LEU:HD11	1:142:A:GLN:HE22	5	0.17	0.04	0.19
(3,2596)	1:132:A:LEU:HD12	1:142:A:GLN:HE22	5	0.17	0.04	0.19
(3,2596)	1:132:A:LEU:HD13	1:142:A:GLN:HE22	5	0.17	0.04	0.19
(1,886)	1:80:A:ILE:H	1:80:A:ILE:HD12	5	0.17	0.04	0.19
(1,886)	1:80:A:ILE:H	1:80:A:ILE:HD13	5	0.17	0.04	0.19
(1,886)	1:80:A:ILE:H	1:80:A:ILE:HD11	5	0.17	0.04	0.19
(1,1163)	1:115:A:TYR:H	1:146:A:ILE:HB	5	0.17	0.04	0.15
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG11	5	0.16	0.03	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG12	5	0.16	0.03	0.17
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG13	5	0.16	0.03	0.17
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG11	5	0.16	0.03	0.17
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG12	5	0.16	0.03	0.17
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG13	5	0.16	0.03	0.17
(1,1239)	1:111:A:SER:H	1:121:A:TYR:H	5	0.16	0.03	0.14
(3,2560)	1:110:A:ILE:HA	1:113:A:GLN:HG3	5	0.15	0.02	0.16
(1,355)	1:34:A:HIS:HB2	1:35:A:LEU:H	5	0.14	0.04	0.11
(3,2954)	1:54:A:LYS:HA	1:54:A:LYS:HD3	5	0.13	0.02	0.13
(3,2954)	1:54:A:LYS:HA	1:54:A:LYS:HD2	5	0.13	0.02	0.13
(1,1484)	1:101:A:VAL:HA	1:143:A:VAL:H	5	0.13	0.03	0.12
(3,2889)	1:96:A:SER:HB2	1:97:A:GLN:H	5	0.12	0.02	0.12
(3,17)	1:119:A:ASN:H	1:119:A:ASN:HB3	5	0.11	0.0	0.11
(1,2334)	1:59:A:GLY:H	1:88:A:LYS:H	5	0.11	0.01	0.11
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG21	4	1.68	0.16	1.62
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG22	4	1.68	0.16	1.62
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG23	4	1.68	0.16	1.62
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG21	4	1.68	0.16	1.62
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG22	4	1.68	0.16	1.62
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG23	4	1.68	0.16	1.62
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG21	4	1.68	0.16	1.62
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG22	4	1.68	0.16	1.62
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG23	4	1.68	0.16	1.62
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG21	4	1.36	0.14	1.34
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG22	4	1.36	0.14	1.34
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG23	4	1.36	0.14	1.34
(3,666)	1:28:A:ALA:HA	1:31:A:VAL:HB	4	1.21	0.08	1.2
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG21	4	1.05	0.09	1.02
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG22	4	1.05	0.09	1.02
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG23	4	1.05	0.09	1.02
(1,458)	1:46:A:VAL:H	1:62:A:LEU:HD13	4	1.0	0.16	1.0
(1,458)	1:46:A:VAL:H	1:62:A:LEU:HD23	4	1.0	0.16	1.0
(1,458)	1:46:A:VAL:H	1:62:A:LEU:HD12	4	1.0	0.16	1.0
(1,458)	1:46:A:VAL:H	1:62:A:LEU:HD22	4	1.0	0.16	1.0
(3,1559)	1:40:A:ILE:HG23	1:41:A:PRO:HA	4	0.95	0.07	0.92
(3,1559)	1:40:A:ILE:HG22	1:41:A:PRO:HA	4	0.95	0.07	0.92
(3,1559)	1:40:A:ILE:HG21	1:41:A:PRO:HA	4	0.95	0.07	0.92
(1,494)	1:48:A:ILE:H	1:49:A:GLN:HB3	4	0.8	0.36	1.0
(1,494)	1:46:A:VAL:HB	1:48:A:ILE:H	4	0.8	0.36	1.0
(3,2219)	1:14:A:LEU:HB2	1:34:A:HIS:HB3	4	0.75	0.03	0.75
(3,2219)	1:14:A:LEU:HB2	1:15:A:TRP:HB3	4	0.75	0.03	0.75
(3,950)	1:107:A:LEU:HD12	1:121:A:TYR:HB2	4	0.7	0.26	0.7

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,950)	1:107:A:LEU:HD11	1:121:A:TYR:HB2	4	0.7	0.26	0.7
(3,950)	1:107:A:LEU:HD13	1:121:A:TYR:HB2	4	0.7	0.26	0.7
(1,945)	1:57:A:VAL:HG11	1:86:A:GLN:H	4	0.62	0.06	0.62
(1,945)	1:57:A:VAL:HG13	1:86:A:GLN:H	4	0.62	0.06	0.62
(1,945)	1:57:A:VAL:HG12	1:86:A:GLN:H	4	0.62	0.06	0.62
(3,2867)	1:46:A:VAL:HB	1:47:A:ASN:H	4	0.58	0.06	0.58
(1,1676)	1:45:A:LYS:H	1:62:A:LEU:HD21	4	0.53	0.23	0.5
(1,1676)	1:45:A:LYS:H	1:62:A:LEU:HD23	4	0.53	0.23	0.5
(1,1676)	1:45:A:LYS:H	1:62:A:LEU:HD12	4	0.53	0.23	0.5
(1,1676)	1:45:A:LYS:H	1:62:A:LEU:HD22	4	0.53	0.23	0.5
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD21	4	0.52	0.02	0.52
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD22	4	0.52	0.02	0.52
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD23	4	0.52	0.02	0.52
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG21	4	0.52	0.01	0.52
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG22	4	0.52	0.01	0.52
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG23	4	0.52	0.01	0.52
(3,706)	1:31:A:VAL:HB	1:32:A:GLN:H	4	0.52	0.12	0.54
(3,706)	1:64:A:GLN:HG3	1:93:A:ALA:H	4	0.52	0.12	0.54
(1,915)	1:54:A:LYS:HG3	1:82:A:SER:H	4	0.52	0.2	0.62
(3,2038)	1:72:A:VAL:HG11	1:145:A:ARG:HD3	4	0.49	0.22	0.56
(3,2038)	1:72:A:VAL:HG22	1:76:A:ASN:HB3	4	0.49	0.22	0.56
(3,2038)	1:72:A:VAL:HG21	1:145:A:ARG:HD3	4	0.49	0.22	0.56
(1,1229)	1:121:A:TYR:H	1:125:A:PHE:HB2	4	0.47	0.25	0.52
(1,846)	1:13:A:LYS:HG3	1:78:A:SER:H	4	0.45	0.08	0.44
(1,161)	1:13:A:LYS:H	1:77:A:ILE:HG21	4	0.44	0.13	0.38
(1,161)	1:13:A:LYS:H	1:77:A:ILE:HG22	4	0.44	0.13	0.38
(1,1728)	1:88:A:LYS:HD3	1:90:A:ALA:H	4	0.44	0.3	0.43
(1,1728)	1:88:A:LYS:HD2	1:90:A:ALA:H	4	0.44	0.3	0.43
(3,2339)	1:115:A:TYR:HB3	1:149:A:GLU:HG3	4	0.43	0.1	0.44
(3,2339)	1:149:A:GLU:HG3	1:152:A:HIS:HB3	4	0.43	0.1	0.44
(3,2339)	1:115:A:TYR:HB3	1:149:A:GLU:HG2	4	0.43	0.1	0.44
(3,705)	1:31:A:VAL:H	1:31:A:VAL:HB	4	0.43	0.04	0.43
(3,705)	1:64:A:GLN:HG3	1:65:A:GLU:H	4	0.43	0.04	0.43
(1,586)	1:58:A:THR:H	1:87:A:VAL:HG23	4	0.42	0.18	0.39
(1,586)	1:58:A:THR:H	1:74:A:VAL:HG22	4	0.42	0.18	0.39
(1,586)	1:58:A:THR:H	1:74:A:VAL:HG23	4	0.42	0.18	0.39
(3,280)	1:68:A:GLU:HA	1:68:A:GLU:HG3	4	0.42	0.05	0.43
(3,1956)	1:72:A:VAL:HG12	1:128:A:ASN:HA	4	0.39	0.16	0.46
(3,1956)	1:72:A:VAL:HG11	1:128:A:ASN:HA	4	0.39	0.16	0.46
(3,1956)	1:72:A:VAL:HG13	1:128:A:ASN:HA	4	0.39	0.16	0.46
(3,1956)	1:101:A:VAL:HG21	1:139:A:TYR:HA	4	0.39	0.16	0.46
(1,673)	1:65:A:GLU:HB2	1:66:A:ALA:H	4	0.38	0.19	0.4

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,899)	1:8:A:LYS:HG3	1:81:A:ALA:H	4	0.38	0.11	0.38
(1,479)	1:46:A:VAL:HB	1:47:A:ASN:H	4	0.36	0.06	0.36
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG21	4	0.35	0.01	0.35
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG22	4	0.35	0.01	0.35
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG23	4	0.35	0.01	0.35
(3,2215)	1:125:A:PHE:HD2	1:132:A:LEU:HB3	4	0.35	0.18	0.32
(3,2215)	1:125:A:PHE:HE2	1:132:A:LEU:HB3	4	0.35	0.18	0.32
(3,2549)	1:132:A:LEU:HD11	1:142:A:GLN:HE21	4	0.34	0.08	0.35
(3,2549)	1:132:A:LEU:HD12	1:142:A:GLN:HE21	4	0.34	0.08	0.35
(3,2549)	1:132:A:LEU:HD13	1:142:A:GLN:HE21	4	0.34	0.08	0.35
(3,1942)	1:6:A:PHE:H	1:82:A:SER:HB3	4	0.34	0.05	0.34
(3,912)	1:29:A:LYS:HE3	1:29:A:LYS:HG3	4	0.31	0.22	0.24
(3,912)	1:88:A:LYS:HE2	1:88:A:LYS:HG2	4	0.31	0.22	0.24
(3,86)	1:65:A:GLU:H	1:65:A:GLU:HG2	4	0.31	0.17	0.27
(1,1940)	1:53:A:GLY:H	1:80:A:ILE:HD13	4	0.3	0.07	0.32
(1,1940)	1:53:A:GLY:H	1:80:A:ILE:HD12	4	0.3	0.07	0.32
(3,2378)	1:15:A:TRP:HE3	1:31:A:VAL:HG23	4	0.3	0.07	0.34
(3,2378)	1:15:A:TRP:HE3	1:31:A:VAL:HG21	4	0.3	0.07	0.34
(3,901)	1:21:A:GLN:HA	1:21:A:GLN:HG3	4	0.28	0.14	0.28
(3,901)	1:21:A:GLN:HA	1:21:A:GLN:HG2	4	0.28	0.14	0.28
(3,1919)	1:14:A:LEU:HB2	1:77:A:ILE:HG21	4	0.28	0.13	0.21
(3,1919)	1:14:A:LEU:HB2	1:77:A:ILE:HG22	4	0.28	0.13	0.21
(3,1061)	1:13:A:LYS:HD3	1:78:A:SER:HB3	4	0.28	0.09	0.3
(3,1061)	1:13:A:LYS:HB3	1:78:A:SER:HB3	4	0.28	0.09	0.3
(1,1815)	1:18:A:VAL:HG11	1:21:A:GLN:HE22	4	0.27	0.08	0.31
(1,1815)	1:18:A:VAL:HG12	1:21:A:GLN:HE22	4	0.27	0.08	0.31
(1,1815)	1:18:A:VAL:HG13	1:21:A:GLN:HE22	4	0.27	0.08	0.31
(1,1815)	1:18:A:VAL:HG21	1:21:A:GLN:HE22	4	0.27	0.08	0.31
(1,1815)	1:18:A:VAL:HG22	1:21:A:GLN:HE22	4	0.27	0.08	0.31
(1,1815)	1:18:A:VAL:HG23	1:21:A:GLN:HE22	4	0.27	0.08	0.31
(1,1611)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	4	0.27	0.1	0.26
(1,1611)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	4	0.27	0.1	0.26
(1,1611)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	4	0.27	0.1	0.26
(3,63)	1:48:A:ILE:HG13	1:49:A:GLN:H	4	0.27	0.04	0.26
(3,1685)	1:139:A:TYR:HD2	1:142:A:GLN:HG3	4	0.27	0.1	0.24
(3,1685)	1:139:A:TYR:H	1:142:A:GLN:HG2	4	0.27	0.1	0.24
(1,280)	1:31:A:VAL:H	1:31:A:VAL:HB	4	0.26	0.04	0.26
(1,1284)	1:127:A:ALA:H	1:147:A:PRO:HG3	4	0.26	0.06	0.26
(1,1309)	1:127:A:ALA:H	1:128:A:ASN:HD22	4	0.26	0.08	0.28
(1,178)	1:14:A:LEU:H	1:15:A:TRP:HE3	4	0.26	0.13	0.25
(1,1603)	1:110:A:ILE:HB	1:113:A:GLN:HE21	4	0.26	0.04	0.26
(3,267)	1:58:A:THR:H	1:58:A:THR:HB	4	0.26	0.07	0.28

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,430)	1:44:A:ASP:H	1:70:A:ILE:HD11	4	0.25	0.04	0.24
(1,430)	1:44:A:ASP:H	1:70:A:ILE:HD12	4	0.25	0.04	0.24
(3,442)	1:115:A:TYR:HE2	1:120:A:LEU:HB3	4	0.25	0.05	0.24
(3,1469)	1:107:A:LEU:HA	1:121:A:TYR:HB2	4	0.24	0.02	0.24
(1,438)	1:44:A:ASP:H	1:44:A:ASP:HB2	4	0.23	0.01	0.22
(1,996)	1:92:A:PRO:HD3	1:93:A:ALA:H	4	0.23	0.06	0.24
(3,1873)	1:72:A:VAL:HG13	1:144:A:LEU:HA	4	0.22	0.11	0.23
(3,1873)	1:72:A:VAL:HG11	1:144:A:LEU:HA	4	0.22	0.11	0.23
(1,1518)	1:145:A:ARG:H	1:147:A:PRO:HG3	4	0.21	0.06	0.22
(1,1518)	1:142:A:GLN:HG2	1:145:A:ARG:H	4	0.21	0.06	0.22
(3,471)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	4	0.21	0.05	0.2
(3,471)	1:115:A:TYR:HD2	1:120:A:LEU:HD12	4	0.21	0.05	0.2
(3,471)	1:115:A:TYR:HD1	1:120:A:LEU:HD21	4	0.21	0.05	0.2
(3,1257)	1:120:A:LEU:HD11	1:123:A:LYS:HG3	4	0.2	0.04	0.2
(3,1257)	1:120:A:LEU:HD12	1:123:A:LYS:HG3	4	0.2	0.04	0.2
(3,1257)	1:120:A:LEU:HD13	1:123:A:LYS:HG3	4	0.2	0.04	0.2
(3,1257)	1:120:A:LEU:HD21	1:123:A:LYS:HG3	4	0.2	0.04	0.2
(3,1257)	1:120:A:LEU:HD22	1:123:A:LYS:HG3	4	0.2	0.04	0.2
(3,1257)	1:120:A:LEU:HD23	1:123:A:LYS:HG3	4	0.2	0.04	0.2
(3,2341)	1:115:A:TYR:HE1	1:149:A:GLU:HG2	4	0.2	0.08	0.18
(1,2573)	1:17:A:ALA:HA	1:18:A:VAL:H	4	0.2	0.08	0.16
(1,1288)	1:124:A:ILE:HG13	1:127:A:ALA:H	4	0.19	0.03	0.19
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD11	4	0.19	0.04	0.2
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD12	4	0.19	0.04	0.2
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD13	4	0.19	0.04	0.2
(1,1250)	1:124:A:ILE:H	1:128:A:ASN:HD22	4	0.19	0.03	0.17
(3,20)	1:139:A:TYR:HD2	1:140:A:PRO:HD2	4	0.18	0.04	0.19
(3,1728)	1:132:A:LEU:HB3	1:132:A:LEU:HD21	4	0.18	0.05	0.18
(3,1728)	1:132:A:LEU:HB3	1:132:A:LEU:HD22	4	0.18	0.05	0.18
(1,96)	1:8:A:LYS:H	1:8:A:LYS:HD3	4	0.17	0.02	0.17
(1,2245)	1:151:A:GLU:H	1:151:A:GLU:HG3	4	0.16	0.04	0.15
(1,2345)	1:149:A:GLU:H	1:150:A:LEU:H	4	0.16	0.04	0.16
(3,1367)	1:110:A:ILE:HA	1:113:A:GLN:HG3	4	0.16	0.02	0.16
(1,1542)	1:119:A:ASN:H	1:119:A:ASN:HD22	4	0.15	0.04	0.14
(3,445)	1:115:A:TYR:HE2	1:146:A:ILE:HG22	4	0.15	0.07	0.11
(3,445)	1:115:A:TYR:HE2	1:146:A:ILE:HG23	4	0.15	0.07	0.11
(3,445)	1:115:A:TYR:HE2	1:146:A:ILE:HG21	4	0.15	0.07	0.11
(3,445)	1:115:A:TYR:HE1	1:146:A:ILE:HG22	4	0.15	0.07	0.11
(3,263)	1:47:A:ASN:H	1:47:A:ASN:HB3	4	0.14	0.03	0.14
(3,263)	1:47:A:ASN:H	1:47:A:ASN:HB2	4	0.14	0.03	0.14
(3,1795)	1:72:A:VAL:HA	1:72:A:VAL:HG21	4	0.14	0.02	0.15
(3,1795)	1:72:A:VAL:HA	1:72:A:VAL:HG22	4	0.14	0.02	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1795)	1:72:A:VAL:HA	1:72:A:VAL:HG23	4	0.14	0.02	0.15
(1,560)	1:48:A:ILE:HB	1:56:A:THR:H	4	0.14	0.03	0.12
(1,1131)	1:112:A:LYS:HB2	1:113:A:GLN:H	4	0.14	0.03	0.13
(3,918)	1:13:A:LYS:HA	1:15:A:TRP:H	4	0.14	0.03	0.14
(1,1295)	1:126:A:GLU:HG2	1:127:A:ALA:H	4	0.14	0.02	0.13
(3,661)	1:123:A:LYS:HE3	1:149:A:GLU:HA	4	0.14	0.03	0.12
(3,661)	1:123:A:LYS:HE2	1:149:A:GLU:HA	4	0.14	0.03	0.12
(1,1214)	1:112:A:LYS:HB3	1:120:A:LEU:H	4	0.13	0.02	0.13
(1,455)	1:45:A:LYS:H	1:45:A:LYS:HD3	4	0.13	0.01	0.12
(1,2495)	1:113:A:GLN:H	1:113:A:GLN:HG2	4	0.13	0.03	0.13
(3,1137)	1:37:A:LYS:HA	1:37:A:LYS:HG2	4	0.13	0.01	0.12
(1,1480)	1:6:A:PHE:HE1	1:143:A:VAL:H	4	0.13	0.01	0.12
(1,1480)	1:6:A:PHE:HE2	1:143:A:VAL:H	4	0.13	0.01	0.12
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB1	4	0.13	0.02	0.12
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB2	4	0.13	0.02	0.12
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB3	4	0.13	0.02	0.12
(3,886)	1:12:A:GLU:HG3	1:13:A:LYS:H	4	0.12	0.02	0.12
(3,886)	1:12:A:GLU:HG2	1:13:A:LYS:H	4	0.12	0.02	0.12
(3,98)	1:70:A:ILE:H	1:70:A:ILE:HG13	4	0.12	0.01	0.12
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD11	4	0.12	0.02	0.11
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD12	4	0.12	0.02	0.11
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD13	4	0.12	0.02	0.11
(1,383)	1:37:A:LYS:H	1:37:A:LYS:HG2	4	0.12	0.02	0.11
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB1	4	0.12	0.01	0.12
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB2	4	0.12	0.01	0.12
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB3	4	0.12	0.01	0.12
(3,2603)	1:60:A:ASP:H	1:60:A:ASP:HB3	4	0.11	0.01	0.11
(3,2603)	1:60:A:ASP:H	1:60:A:ASP:HB2	4	0.11	0.01	0.11
(3,2520)	1:114:A:VAL:HG21	1:116:A:GLY:H	4	0.11	0.0	0.11
(3,2520)	1:114:A:VAL:HG22	1:116:A:GLY:H	4	0.11	0.0	0.11
(3,2520)	1:114:A:VAL:HG23	1:116:A:GLY:H	4	0.11	0.0	0.11
(3,1751)	1:131:A:MET:HE1	1:144:A:LEU:HD11	3	1.82	0.14	1.72
(3,1751)	1:131:A:MET:HE1	1:144:A:LEU:HD12	3	1.82	0.14	1.72
(3,1751)	1:131:A:MET:HE1	1:144:A:LEU:HD13	3	1.82	0.14	1.72
(3,1751)	1:131:A:MET:HE2	1:144:A:LEU:HD11	3	1.82	0.14	1.72
(3,1751)	1:131:A:MET:HE2	1:144:A:LEU:HD12	3	1.82	0.14	1.72
(3,1751)	1:131:A:MET:HE2	1:144:A:LEU:HD13	3	1.82	0.14	1.72
(3,1751)	1:131:A:MET:HE3	1:144:A:LEU:HD11	3	1.82	0.14	1.72
(3,1751)	1:131:A:MET:HE3	1:144:A:LEU:HD12	3	1.82	0.14	1.72
(3,1751)	1:131:A:MET:HE3	1:144:A:LEU:HD13	3	1.82	0.14	1.72
(3,689)	1:7:A:VAL:HA	1:10:A:ALA:HB2	3	1.28	0.12	1.25
(3,689)	1:7:A:VAL:HA	1:10:A:ALA:HB1	3	1.28	0.12	1.25

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,736)	1:144:A:LEU:HA	1:144:A:LEU:HD11	3	1.12	0.02	1.13
(3,736)	1:144:A:LEU:HA	1:144:A:LEU:HD12	3	1.12	0.02	1.13
(3,736)	1:144:A:LEU:HA	1:144:A:LEU:HD13	3	1.12	0.02	1.13
(3,1714)	1:144:A:LEU:HA	1:144:A:LEU:HD11	3	0.96	0.01	0.96
(3,1714)	1:144:A:LEU:HA	1:144:A:LEU:HD12	3	0.96	0.01	0.96
(3,1714)	1:144:A:LEU:HA	1:144:A:LEU:HD13	3	0.96	0.01	0.96
(3,2863)	1:110:A:ILE:HD11	1:144:A:LEU:HD21	3	0.93	0.05	0.96
(3,2863)	1:110:A:ILE:HD11	1:144:A:LEU:HD22	3	0.93	0.05	0.96
(3,2863)	1:110:A:ILE:HD11	1:144:A:LEU:HD23	3	0.93	0.05	0.96
(3,2863)	1:110:A:ILE:HD12	1:144:A:LEU:HD21	3	0.93	0.05	0.96
(3,2863)	1:110:A:ILE:HD12	1:144:A:LEU:HD22	3	0.93	0.05	0.96
(3,2863)	1:110:A:ILE:HD12	1:144:A:LEU:HD23	3	0.93	0.05	0.96
(3,2863)	1:110:A:ILE:HD13	1:144:A:LEU:HD21	3	0.93	0.05	0.96
(3,2863)	1:110:A:ILE:HD13	1:144:A:LEU:HD22	3	0.93	0.05	0.96
(3,2863)	1:110:A:ILE:HD13	1:144:A:LEU:HD23	3	0.93	0.05	0.96
(3,1086)	1:142:A:GLN:HE22	1:144:A:LEU:HD11	3	0.8	0.19	0.81
(3,1086)	1:142:A:GLN:HE22	1:144:A:LEU:HD12	3	0.8	0.19	0.81
(3,1086)	1:142:A:GLN:HE22	1:144:A:LEU:HD13	3	0.8	0.19	0.81
(1,965)	1:67:A:LYS:HG3	1:87:A:VAL:H	3	0.78	0.25	0.64
(1,965)	1:56:A:THR:HG21	1:87:A:VAL:H	3	0.78	0.25	0.64
(3,545)	1:74:A:VAL:HA	1:74:A:VAL:HG13	3	0.77	0.45	1.07
(3,545)	1:74:A:VAL:HA	1:74:A:VAL:HG12	3	0.77	0.45	1.07
(3,2201)	1:41:A:PRO:HD2	1:130:A:PRO:HD2	3	0.77	0.41	0.84
(1,590)	1:48:A:ILE:HG13	1:58:A:THR:H	3	0.72	0.26	0.54
(3,2225)	1:14:A:LEU:HB2	1:30:A:LYS:HB3	3	0.72	0.07	0.69
(3,1324)	1:6:A:PHE:HE1	1:83:A:VAL:HG23	3	0.71	0.66	0.38
(3,1324)	1:6:A:PHE:HE1	1:83:A:VAL:HG21	3	0.71	0.66	0.38
(1,507)	1:49:A:GLN:H	1:83:A:VAL:HG11	3	0.71	0.04	0.7
(1,507)	1:31:A:VAL:HG11	1:49:A:GLN:H	3	0.71	0.04	0.7
(1,507)	1:49:A:GLN:H	1:83:A:VAL:HG12	3	0.71	0.04	0.7
(3,1169)	1:126:A:GLU:HA	1:129:A:LYS:HB2	3	0.7	0.07	0.69
(3,1659)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	3	0.69	0.09	0.73
(3,2018)	1:121:A:TYR:HE1	1:122:A:ASN:HB2	3	0.68	0.23	0.77
(3,2018)	1:121:A:TYR:HE2	1:122:A:ASN:HB3	3	0.68	0.23	0.77
(3,2018)	1:121:A:TYR:HE2	1:135:A:PRO:HD2	3	0.68	0.23	0.77
(1,1536)	1:76:A:ASN:HD22	1:144:A:LEU:HD11	3	0.64	0.39	0.83
(1,1536)	1:72:A:VAL:HG21	1:76:A:ASN:HD22	3	0.64	0.39	0.83
(1,1536)	1:72:A:VAL:HG23	1:76:A:ASN:HD22	3	0.64	0.39	0.83
(3,927)	1:35:A:LEU:HA	1:35:A:LEU:HD21	3	0.63	0.01	0.63
(3,927)	1:35:A:LEU:HA	1:35:A:LEU:HD23	3	0.63	0.01	0.63
(3,422)	1:40:A:ILE:HD13	1:131:A:MET:HA	3	0.59	0.2	0.47
(3,422)	1:40:A:ILE:HD12	1:131:A:MET:HA	3	0.59	0.2	0.47

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1727)	1:129:A:LYS:HA	1:129:A:LYS:HG2	3	0.58	0.01	0.58
(3,1402)	1:106:A:THR:HA	1:138:A:ILE:HG13	3	0.58	0.05	0.59
(3,891)	1:129:A:LYS:HA	1:132:A:LEU:HB2	3	0.57	0.35	0.54
(1,12)	1:14:A:LEU:HB2	1:15:A:TRP:HE1	3	0.55	0.33	0.44
(1,1594)	1:64:A:GLN:HE21	1:67:A:LYS:HB3	3	0.51	0.05	0.5
(1,1320)	1:69:A:LYS:HE2	1:128:A:ASN:H	3	0.5	0.13	0.42
(1,525)	1:24:A:LYS:HG2	1:51:A:ALA:H	3	0.49	0.14	0.52
(1,525)	1:51:A:ALA:H	1:54:A:LYS:HG2	3	0.49	0.14	0.52
(3,2293)	1:94:A:THR:H	1:94:A:THR:HG23	3	0.47	0.16	0.53
(3,2293)	1:19:A:THR:HG21	1:20:A:GLY:H	3	0.47	0.16	0.53
(3,140)	1:107:A:LEU:HD12	1:125:A:PHE:H	3	0.46	0.23	0.62
(3,140)	1:107:A:LEU:HD11	1:125:A:PHE:H	3	0.46	0.23	0.62
(1,1338)	1:126:A:GLU:HB2	1:129:A:LYS:H	3	0.45	0.12	0.51
(1,1338)	1:126:A:GLU:HB3	1:129:A:LYS:H	3	0.45	0.12	0.51
(3,45)	1:88:A:LYS:H	1:88:A:LYS:HG2	3	0.45	0.23	0.33
(3,112)	1:74:A:VAL:HB	1:75:A:GLY:H	3	0.43	0.03	0.42
(1,352)	1:35:A:LEU:H	1:35:A:LEU:HG	3	0.41	0.01	0.4
(3,820)	1:52:A:ASP:HB3	1:53:A:GLY:H	3	0.41	0.16	0.51
(1,1768)	1:99:A:TYR:H	1:144:A:LEU:HB3	3	0.41	0.07	0.37
(3,88)	1:67:A:LYS:H	1:67:A:LYS:HB2	3	0.41	0.03	0.39
(3,1726)	1:8:A:LYS:HA	1:8:A:LYS:HG3	3	0.41	0.1	0.47
(3,1726)	1:132:A:LEU:HD22	1:135:A:PRO:HA	3	0.41	0.1	0.47
(1,637)	1:62:A:LEU:H	1:87:A:VAL:HG13	3	0.38	0.12	0.32
(1,637)	1:62:A:LEU:H	1:87:A:VAL:HG11	3	0.38	0.12	0.32
(1,73)	1:3:A:LEU:HG	1:4:A:PHE:H	3	0.38	0.02	0.39
(1,73)	1:3:A:LEU:HB2	1:4:A:PHE:H	3	0.38	0.02	0.39
(3,709)	1:144:A:LEU:H	1:144:A:LEU:HD13	3	0.38	0.02	0.38
(3,709)	1:144:A:LEU:H	1:144:A:LEU:HD11	3	0.38	0.02	0.38
(3,62)	1:48:A:ILE:H	1:48:A:ILE:HG13	3	0.37	0.04	0.38
(3,2577)	1:65:A:GLU:HB2	1:66:A:ALA:H	3	0.35	0.15	0.44
(1,339)	1:125:A:PHE:H	1:135:A:PRO:HB3	3	0.33	0.08	0.36
(3,1509)	1:40:A:ILE:HG22	1:70:A:ILE:HA	3	0.33	0.15	0.34
(3,1509)	1:40:A:ILE:HG23	1:70:A:ILE:HA	3	0.33	0.15	0.34
(3,2436)	1:69:A:LYS:HA	1:69:A:LYS:HE3	3	0.33	0.17	0.23
(3,2390)	1:15:A:TRP:HZ2	1:80:A:ILE:HG13	3	0.32	0.09	0.37
(3,751)	1:12:A:GLU:HB3	1:14:A:LEU:HD23	3	0.32	0.06	0.3
(3,751)	1:12:A:GLU:HB3	1:14:A:LEU:HD21	3	0.32	0.06	0.3
(3,2891)	1:96:A:SER:HB3	1:97:A:GLN:H	3	0.32	0.04	0.33
(3,1866)	1:5:A:ASN:HA	1:82:A:SER:HB3	3	0.3	0.04	0.33
(1,750)	1:71:A:LEU:H	1:98:A:PHE:HE2	3	0.3	0.1	0.26
(3,1136)	1:35:A:LEU:HA	1:35:A:LEU:HD11	3	0.29	0.01	0.28
(3,1136)	1:35:A:LEU:HA	1:35:A:LEU:HD13	3	0.29	0.01	0.28

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1136)	1:35:A:LEU:HA	1:35:A:LEU:HD12	3	0.29	0.01	0.28
(3,1622)	1:150:A:LEU:HA	1:150:A:LEU:HB3	3	0.29	0.05	0.32
(3,1622)	1:150:A:LEU:HA	1:150:A:LEU:HB2	3	0.29	0.05	0.32
(1,15)	1:15:A:TRP:HE1	1:80:A:ILE:HD12	3	0.28	0.12	0.27
(3,1932)	1:30:A:LYS:HE3	1:30:A:LYS:HG3	3	0.27	0.03	0.25
(3,1929)	1:35:A:LEU:H	1:35:A:LEU:HG	3	0.27	0.01	0.26
(3,2284)	1:145:A:ARG:HD3	1:147:A:PRO:HG3	3	0.27	0.1	0.29
(3,2284)	1:69:A:LYS:HG3	1:145:A:ARG:HD3	3	0.27	0.1	0.29
(3,2284)	1:68:A:GLU:HB2	1:145:A:ARG:HD3	3	0.27	0.1	0.29
(1,1490)	1:72:A:VAL:HG11	1:143:A:VAL:H	3	0.25	0.04	0.26
(1,1490)	1:72:A:VAL:HG22	1:143:A:VAL:H	3	0.25	0.04	0.26
(1,1490)	1:72:A:VAL:HG13	1:143:A:VAL:H	3	0.25	0.04	0.26
(3,410)	1:112:A:LYS:HA	1:118:A:ALA:HA	3	0.25	0.02	0.24
(3,1982)	1:138:A:ILE:HG21	1:144:A:LEU:HD13	3	0.25	0.1	0.25
(3,1982)	1:138:A:ILE:HG21	1:144:A:LEU:HD11	3	0.25	0.1	0.25
(3,1982)	1:138:A:ILE:HG21	1:144:A:LEU:HD12	3	0.25	0.1	0.25
(3,2305)	1:144:A:LEU:HB2	1:144:A:LEU:HD21	3	0.25	0.01	0.24
(3,2305)	1:144:A:LEU:HB2	1:144:A:LEU:HD22	3	0.25	0.01	0.24
(3,2305)	1:144:A:LEU:HB2	1:144:A:LEU:HD23	3	0.25	0.01	0.24
(1,561)	1:31:A:VAL:HG23	1:56:A:THR:H	3	0.24	0.16	0.13
(1,561)	1:51:A:ALA:HB1	1:56:A:THR:H	3	0.24	0.16	0.13
(1,942)	1:71:A:LEU:HD22	1:85:A:ASP:H	3	0.24	0.08	0.28
(1,942)	1:71:A:LEU:HD23	1:85:A:ASP:H	3	0.24	0.08	0.28
(1,942)	1:71:A:LEU:HD21	1:85:A:ASP:H	3	0.24	0.08	0.28
(3,637)	1:6:A:PHE:HE1	1:83:A:VAL:HG23	3	0.24	0.09	0.24
(3,637)	1:6:A:PHE:HE2	1:72:A:VAL:HG11	3	0.24	0.09	0.24
(3,637)	1:6:A:PHE:HE1	1:83:A:VAL:HG22	3	0.24	0.09	0.24
(3,2495)	1:125:A:PHE:HD1	1:126:A:GLU:HA	3	0.23	0.09	0.22
(1,1064)	1:102:A:LYS:HB3	1:105:A:ASP:H	3	0.22	0.07	0.21
(1,1064)	1:105:A:ASP:H	1:140:A:PRO:HG3	3	0.22	0.07	0.21
(1,191)	1:14:A:LEU:HB3	1:15:A:TRP:H	3	0.21	0.08	0.27
(3,2938)	1:96:A:SER:HB3	1:146:A:ILE:H	3	0.21	0.08	0.17
(1,14)	1:15:A:TRP:HE1	1:50:A:ILE:HG13	3	0.21	0.06	0.21
(1,14)	1:15:A:TRP:HE1	1:80:A:ILE:HG13	3	0.21	0.06	0.21
(1,195)	1:15:A:TRP:H	1:77:A:ILE:HG23	3	0.21	0.05	0.24
(1,195)	1:15:A:TRP:H	1:77:A:ILE:HG22	3	0.21	0.05	0.24
(1,1275)	1:125:A:PHE:HB2	1:126:A:GLU:H	3	0.21	0.03	0.2
(3,1213)	1:124:A:ILE:HG21	1:125:A:PHE:H	3	0.2	0.06	0.18
(3,1213)	1:124:A:ILE:HG22	1:125:A:PHE:H	3	0.2	0.06	0.18
(3,1213)	1:124:A:ILE:HG23	1:125:A:PHE:H	3	0.2	0.06	0.18
(3,1530)	1:124:A:ILE:HG12	1:146:A:ILE:HD11	3	0.2	0.04	0.18
(3,1530)	1:124:A:ILE:HG12	1:146:A:ILE:HD13	3	0.2	0.04	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,675)	1:120:A:LEU:HD11	1:123:A:LYS:HE3	3	0.19	0.02	0.18
(3,675)	1:120:A:LEU:HD12	1:123:A:LYS:HE3	3	0.19	0.02	0.18
(3,675)	1:120:A:LEU:HD13	1:123:A:LYS:HE3	3	0.19	0.02	0.18
(3,675)	1:120:A:LEU:HD11	1:123:A:LYS:HE2	3	0.19	0.02	0.18
(3,675)	1:120:A:LEU:HD12	1:123:A:LYS:HE2	3	0.19	0.02	0.18
(3,675)	1:120:A:LEU:HD13	1:123:A:LYS:HE2	3	0.19	0.02	0.18
(3,675)	1:120:A:LEU:HD21	1:123:A:LYS:HE3	3	0.19	0.02	0.18
(3,675)	1:120:A:LEU:HD22	1:123:A:LYS:HE3	3	0.19	0.02	0.18
(3,675)	1:120:A:LEU:HD23	1:123:A:LYS:HE3	3	0.19	0.02	0.18
(3,675)	1:120:A:LEU:HD21	1:123:A:LYS:HE2	3	0.19	0.02	0.18
(3,675)	1:120:A:LEU:HD22	1:123:A:LYS:HE2	3	0.19	0.02	0.18
(3,675)	1:120:A:LEU:HD23	1:123:A:LYS:HE2	3	0.19	0.02	0.18
(1,1642)	1:9:A:ASP:H	1:141:A:GLY:HA2	3	0.19	0.03	0.21
(1,301)	1:129:A:LYS:HB2	1:132:A:LEU:H	3	0.19	0.03	0.18
(1,1663)	1:42:A:ASP:H	1:45:A:LYS:HG2	3	0.19	0.02	0.18
(3,476)	1:115:A:TYR:HE2	1:121:A:TYR:HA	3	0.18	0.06	0.16
(3,2360)	1:129:A:LYS:HA	1:129:A:LYS:HD2	3	0.18	0.02	0.2
(1,1331)	1:129:A:LYS:H	1:129:A:LYS:HB2	3	0.18	0.02	0.18
(3,1499)	1:3:A:LEU:HG	1:4:A:PHE:H	3	0.18	0.03	0.18
(3,993)	1:35:A:LEU:HD12	1:43:A:ALA:HB2	3	0.17	0.02	0.16
(3,993)	1:35:A:LEU:HD21	1:43:A:ALA:HB1	3	0.17	0.02	0.16
(1,1300)	1:122:A:ASN:HA	1:127:A:ALA:H	3	0.16	0.03	0.18
(3,2249)	1:135:A:PRO:HG2	1:136:A:ASP:H	3	0.16	0.03	0.18
(1,1460)	1:101:A:VAL:HG21	1:142:A:GLN:H	3	0.16	0.03	0.17
(1,1460)	1:101:A:VAL:HG22	1:142:A:GLN:H	3	0.16	0.03	0.17
(1,1460)	1:101:A:VAL:HG23	1:142:A:GLN:H	3	0.16	0.03	0.17
(1,1708)	1:9:A:ASP:HA	1:79:A:GLY:H	3	0.16	0.02	0.15
(3,1428)	1:62:A:LEU:HB3	1:62:A:LEU:HD23	3	0.15	0.04	0.15
(3,1428)	1:62:A:LEU:HB3	1:62:A:LEU:HD11	3	0.15	0.04	0.15
(3,1428)	1:45:A:LYS:HB3	1:62:A:LEU:HD13	3	0.15	0.04	0.15
(3,2162)	1:124:A:ILE:HA	1:128:A:ASN:H	3	0.15	0.04	0.17
(3,285)	1:89:A:THR:H	1:89:A:THR:HG21	3	0.15	0.01	0.15
(3,285)	1:89:A:THR:H	1:89:A:THR:HG23	3	0.15	0.01	0.15
(3,285)	1:89:A:THR:H	1:89:A:THR:HG22	3	0.15	0.01	0.15
(1,1679)	1:128:A:ASN:HD21	1:146:A:ILE:HG21	3	0.15	0.02	0.16
(1,1679)	1:128:A:ASN:HD21	1:146:A:ILE:HG23	3	0.15	0.02	0.16
(3,1333)	1:101:A:VAL:HG11	1:139:A:TYR:H	3	0.15	0.05	0.13
(3,1333)	1:101:A:VAL:HG12	1:139:A:TYR:H	3	0.15	0.05	0.13
(1,431)	1:44:A:ASP:H	1:45:A:LYS:HD3	3	0.15	0.05	0.13
(1,870)	1:9:A:ASP:HB3	1:79:A:GLY:H	3	0.14	0.01	0.15
(1,1326)	1:128:A:ASN:H	1:129:A:LYS:HG3	3	0.14	0.05	0.11
(1,1668)	1:42:A:ASP:H	1:45:A:LYS:HD2	3	0.14	0.05	0.11

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1668)	1:42:A:ASP:H	1:69:A:LYS:HB3	3	0.14	0.05	0.11
(3,2587)	1:144:A:LEU:HB2	1:144:A:LEU:HD21	3	0.14	0.01	0.13
(3,2587)	1:144:A:LEU:HB2	1:144:A:LEU:HD22	3	0.14	0.01	0.13
(3,2587)	1:144:A:LEU:HB2	1:144:A:LEU:HD23	3	0.14	0.01	0.13
(3,1258)	1:30:A:LYS:HA	1:30:A:LYS:HB3	3	0.13	0.0	0.13
(1,691)	1:67:A:LYS:H	1:67:A:LYS:HE3	3	0.13	0.02	0.13
(1,691)	1:67:A:LYS:H	1:67:A:LYS:HE2	3	0.13	0.02	0.13
(3,805)	1:43:A:ALA:HA	1:70:A:ILE:HD11	3	0.13	0.01	0.14
(3,805)	1:43:A:ALA:HA	1:70:A:ILE:HD12	3	0.13	0.01	0.14
(3,763)	1:8:A:LYS:HA	1:81:A:ALA:HB3	3	0.13	0.0	0.13
(3,763)	1:8:A:LYS:HA	1:81:A:ALA:HB1	3	0.13	0.0	0.13
(3,1403)	1:33:A:GLU:HA	1:33:A:GLU:HG3	3	0.13	0.02	0.12
(3,2906)	1:110:A:ILE:HA	1:113:A:GLN:HE22	3	0.13	0.01	0.13
(1,327)	1:34:A:HIS:H	1:34:A:HIS:HD2	3	0.12	0.02	0.12
(1,957)	1:67:A:LYS:HE3	1:87:A:VAL:H	3	0.12	0.01	0.12
(1,957)	1:67:A:LYS:HE2	1:87:A:VAL:H	3	0.12	0.01	0.12
(3,1708)	1:114:A:VAL:HA	1:146:A:ILE:HG21	3	0.12	0.03	0.11
(3,1708)	1:114:A:VAL:HA	1:146:A:ILE:HG22	3	0.12	0.03	0.11
(3,1708)	1:114:A:VAL:HA	1:146:A:ILE:HG23	3	0.12	0.03	0.11
(1,2544)	1:123:A:LYS:HA	1:127:A:ALA:H	3	0.12	0.01	0.12
(3,1888)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	3	0.12	0.01	0.12
(3,1888)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	3	0.12	0.01	0.12
(3,1888)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	3	0.12	0.01	0.12
(1,306)	1:32:A:GLN:HB2	1:33:A:GLU:H	3	0.12	0.0	0.12
(3,183)	1:91:A:THR:HB	1:92:A:PRO:HD3	3	0.11	0.01	0.1
(3,2582)	1:47:A:ASN:HB3	1:58:A:THR:HG21	3	0.11	0.0	0.11
(3,2582)	1:47:A:ASN:HB3	1:58:A:THR:HG22	3	0.11	0.0	0.11
(3,2582)	1:47:A:ASN:HB3	1:58:A:THR:HG23	3	0.11	0.0	0.11
(3,2582)	1:47:A:ASN:HB2	1:58:A:THR:HG21	3	0.11	0.0	0.11
(3,2582)	1:47:A:ASN:HB2	1:58:A:THR:HG22	3	0.11	0.0	0.11
(3,2582)	1:47:A:ASN:HB2	1:58:A:THR:HG23	3	0.11	0.0	0.11
(3,1823)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	3	0.11	0.0	0.11
(1,1241)	1:122:A:ASN:H	1:126:A:GLU:HG3	2	1.42	0.05	1.42
(1,61)	1:83:A:VAL:H	1:83:A:VAL:HG22	2	1.1	0.0	1.1
(1,61)	1:83:A:VAL:H	1:83:A:VAL:HG21	2	1.1	0.0	1.1
(1,946)	1:83:A:VAL:HG12	1:86:A:GLN:H	2	0.95	0.04	0.95
(3,1396)	1:29:A:LYS:HG3	1:33:A:GLU:HG3	2	0.94	0.09	0.94
(3,2340)	1:15:A:TRP:HZ2	1:80:A:ILE:HB	2	0.88	0.05	0.88
(3,374)	1:125:A:PHE:HD2	1:132:A:LEU:HD23	2	0.86	0.58	0.86
(3,1085)	1:142:A:GLN:HE21	1:144:A:LEU:HD11	2	0.74	0.31	0.74
(3,1085)	1:142:A:GLN:HE21	1:144:A:LEU:HD12	2	0.74	0.31	0.74
(3,1950)	1:115:A:TYR:HE1	1:123:A:LYS:HE3	2	0.73	0.27	0.73

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1950)	1:115:A:TYR:HE2	1:123:A:LYS:HE3	2	0.73	0.27	0.73
(3,1339)	1:83:A:VAL:HG11	1:84:A:ASP:H	2	0.72	0.01	0.72
(3,1339)	1:83:A:VAL:HG12	1:84:A:ASP:H	2	0.72	0.01	0.72
(3,1339)	1:83:A:VAL:HG13	1:84:A:ASP:H	2	0.72	0.01	0.72
(1,1339)	1:69:A:LYS:HE2	1:129:A:LYS:H	2	0.69	0.51	0.69
(3,1084)	1:142:A:GLN:HE21	1:144:A:LEU:HD11	2	0.68	0.26	0.68
(3,1084)	1:142:A:GLN:HE21	1:144:A:LEU:HD12	2	0.68	0.26	0.68
(3,1084)	1:142:A:GLN:HE21	1:144:A:LEU:HD13	2	0.68	0.26	0.68
(1,581)	1:57:A:VAL:H	1:83:A:VAL:HG11	2	0.66	0.18	0.66
(1,581)	1:57:A:VAL:H	1:83:A:VAL:HG12	2	0.66	0.18	0.66
(1,581)	1:57:A:VAL:H	1:83:A:VAL:HG13	2	0.66	0.18	0.66
(1,1171)	1:112:A:LYS:HG3	1:116:A:GLY:H	2	0.64	0.16	0.64
(1,792)	1:71:A:LEU:HB3	1:73:A:ALA:H	2	0.62	0.12	0.62
(1,792)	1:70:A:ILE:HB	1:73:A:ALA:H	2	0.62	0.12	0.62
(3,1056)	1:58:A:THR:HG22	1:87:A:VAL:HA	2	0.59	0.0	0.59
(3,1056)	1:58:A:THR:HG21	1:87:A:VAL:HA	2	0.59	0.0	0.59
(1,1296)	1:126:A:GLU:HB2	1:127:A:ALA:H	2	0.58	0.04	0.58
(3,559)	1:3:A:LEU:HD12	1:82:A:SER:HB2	2	0.58	0.08	0.58
(3,2919)	1:126:A:GLU:HA	1:126:A:GLU:HG2	2	0.54	0.02	0.54
(3,983)	1:126:A:GLU:HA	1:126:A:GLU:HG2	2	0.52	0.02	0.52
(3,1202)	1:54:A:LYS:HB3	1:54:A:LYS:HE2	2	0.52	0.22	0.52
(3,622)	1:115:A:TYR:HB3	1:120:A:LEU:HB2	2	0.49	0.07	0.49
(3,1243)	1:60:A:ASP:HB2	1:88:A:LYS:HD2	2	0.48	0.1	0.48
(3,1243)	1:21:A:GLN:HB2	1:26:A:ASP:HB3	2	0.48	0.1	0.48
(1,1461)	1:138:A:ILE:HD13	1:142:A:GLN:H	2	0.45	0.04	0.45
(1,1461)	1:142:A:GLN:H	1:144:A:LEU:HD23	2	0.45	0.04	0.45
(1,4)	1:13:A:LYS:HB3	1:15:A:TRP:HE1	2	0.43	0.16	0.43
(1,4)	1:15:A:TRP:HE1	1:81:A:ALA:HB2	2	0.43	0.16	0.43
(3,1298)	1:75:A:GLY:HA3	1:83:A:VAL:HG21	2	0.42	0.04	0.42
(3,1298)	1:75:A:GLY:HA3	1:83:A:VAL:HG22	2	0.42	0.04	0.42
(3,1298)	1:75:A:GLY:HA3	1:83:A:VAL:HG23	2	0.42	0.04	0.42
(3,2399)	1:72:A:VAL:HG22	1:98:A:PHE:HE2	2	0.41	0.21	0.41
(3,2399)	1:72:A:VAL:HG21	1:98:A:PHE:HE2	2	0.41	0.21	0.41
(3,1054)	1:129:A:LYS:HD2	1:130:A:PRO:HA	2	0.39	0.02	0.39
(3,2457)	1:13:A:LYS:H	1:13:A:LYS:HG3	2	0.39	0.09	0.39
(3,2701)	1:132:A:LEU:HD21	1:142:A:GLN:HE22	2	0.39	0.18	0.39
(3,2701)	1:132:A:LEU:HD22	1:142:A:GLN:HE22	2	0.39	0.18	0.39
(3,2701)	1:132:A:LEU:HD23	1:142:A:GLN:HE22	2	0.39	0.18	0.39
(1,340)	1:107:A:LEU:HB3	1:125:A:PHE:H	2	0.38	0.01	0.38
(3,486)	1:121:A:TYR:HE2	1:135:A:PRO:HG2	2	0.38	0.08	0.38
(3,2672)	1:126:A:GLU:HB3	1:127:A:ALA:H	2	0.37	0.03	0.37
(3,2672)	1:126:A:GLU:HB2	1:127:A:ALA:H	2	0.37	0.03	0.37

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1298)	1:127:A:ALA:H	1:145:A:ARG:HD3	2	0.36	0.09	0.36
(1,1298)	1:123:A:LYS:HE3	1:127:A:ALA:H	2	0.36	0.09	0.36
(3,809)	1:73:A:ALA:HA	1:131:A:MET:HG2	2	0.35	0.17	0.35
(3,1334)	1:83:A:VAL:HA	1:83:A:VAL:HG11	2	0.34	0.01	0.34
(3,1334)	1:83:A:VAL:HA	1:83:A:VAL:HG12	2	0.34	0.01	0.34
(3,1334)	1:83:A:VAL:HA	1:83:A:VAL:HG13	2	0.34	0.01	0.34
(1,1681)	1:49:A:GLN:H	1:58:A:THR:HB	2	0.34	0.04	0.34
(1,568)	1:48:A:ILE:HG13	1:56:A:THR:H	2	0.33	0.12	0.33
(1,568)	1:54:A:LYS:HG2	1:56:A:THR:H	2	0.33	0.12	0.33
(1,1704)	1:15:A:TRP:HZ3	1:77:A:ILE:H	2	0.33	0.08	0.33
(1,1704)	1:6:A:PHE:HE2	1:77:A:ILE:H	2	0.33	0.08	0.33
(1,1499)	1:142:A:GLN:HG3	1:144:A:LEU:H	2	0.32	0.16	0.32
(3,636)	1:6:A:PHE:HD1	1:80:A:ILE:HG21	2	0.32	0.18	0.32
(3,636)	1:6:A:PHE:HD1	1:83:A:VAL:HG21	2	0.32	0.18	0.32
(1,1390)	1:132:A:LEU:HD21	1:134:A:SER:H	2	0.32	0.03	0.32
(1,1390)	1:132:A:LEU:HD22	1:134:A:SER:H	2	0.32	0.03	0.32
(1,1390)	1:132:A:LEU:HD23	1:134:A:SER:H	2	0.32	0.03	0.32
(3,1945)	1:6:A:PHE:HD1	1:82:A:SER:HB3	2	0.32	0.18	0.32
(3,1945)	1:6:A:PHE:HD2	1:82:A:SER:HB3	2	0.32	0.18	0.32
(1,1464)	1:138:A:ILE:HB	1:142:A:GLN:H	2	0.31	0.06	0.31
(3,1607)	1:70:A:ILE:HA	1:73:A:ALA:HB1	2	0.31	0.01	0.31
(1,757)	1:71:A:LEU:H	1:85:A:ASP:HB3	2	0.31	0.04	0.31
(1,757)	1:42:A:ASP:HB2	1:71:A:LEU:H	2	0.31	0.04	0.31
(3,339)	1:64:A:GLN:HB2	1:93:A:ALA:HB3	2	0.29	0.09	0.29
(3,339)	1:64:A:GLN:HB2	1:93:A:ALA:HB1	2	0.29	0.09	0.29
(1,843)	1:14:A:LEU:HD11	1:78:A:SER:H	2	0.29	0.16	0.29
(1,843)	1:14:A:LEU:HD12	1:78:A:SER:H	2	0.29	0.16	0.29
(1,843)	1:14:A:LEU:HD13	1:78:A:SER:H	2	0.29	0.16	0.29
(3,1124)	1:72:A:VAL:H	1:72:A:VAL:HB	2	0.29	0.0	0.29
(1,847)	1:7:A:VAL:H	1:100:A:THR:HG21	2	0.28	0.1	0.28
(3,744)	1:7:A:VAL:HB	1:10:A:ALA:HB1	2	0.28	0.13	0.28
(3,744)	1:7:A:VAL:HB	1:10:A:ALA:HB2	2	0.28	0.13	0.28
(3,744)	1:7:A:VAL:HB	1:10:A:ALA:HB3	2	0.28	0.13	0.28
(3,593)	1:40:A:ILE:HA	1:130:A:PRO:HG2	2	0.28	0.1	0.28
(3,1001)	1:66:A:ALA:HB3	1:67:A:LYS:H	2	0.28	0.08	0.28
(3,1001)	1:66:A:ALA:HB1	1:67:A:LYS:H	2	0.28	0.08	0.28
(3,1174)	1:88:A:LYS:HB2	1:88:A:LYS:HE2	2	0.28	0.01	0.28
(3,1174)	1:88:A:LYS:HB2	1:88:A:LYS:HE3	2	0.28	0.01	0.28
(1,856)	1:78:A:SER:H	1:78:A:SER:HB3	2	0.27	0.0	0.27
(3,2383)	1:15:A:TRP:HE3	1:30:A:LYS:HD3	2	0.27	0.08	0.27
(1,1968)	1:14:A:LEU:HD22	1:30:A:LYS:H	2	0.26	0.04	0.26
(3,2868)	1:21:A:GLN:HA	1:21:A:GLN:HG3	2	0.26	0.01	0.26

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2868)	1:21:A:GLN:HA	1:21:A:GLN:HG2	2	0.26	0.01	0.26
(1,1040)	1:101:A:VAL:H	1:144:A:LEU:HD11	2	0.26	0.03	0.26
(1,1040)	1:101:A:VAL:H	1:144:A:LEU:HD13	2	0.26	0.03	0.26
(1,1938)	1:52:A:ASP:HB3	1:53:A:GLY:H	2	0.25	0.01	0.25
(1,344)	1:124:A:ILE:HG13	1:125:A:PHE:H	2	0.24	0.01	0.24
(1,344)	1:107:A:LEU:HD11	1:125:A:PHE:H	2	0.24	0.01	0.24
(1,620)	1:45:A:LYS:HB2	1:60:A:ASP:H	2	0.24	0.04	0.24
(3,969)	1:54:A:LYS:HA	1:54:A:LYS:HG2	2	0.24	0.08	0.24
(1,199)	1:18:A:VAL:H	1:19:A:THR:HA	2	0.24	0.08	0.24
(1,654)	1:62:A:LEU:HG	1:63:A:SER:H	2	0.24	0.06	0.24
(1,133)	1:7:A:VAL:H	1:10:A:ALA:H	2	0.24	0.03	0.24
(3,867)	1:4:A:PHE:HB3	1:83:A:VAL:HB	2	0.24	0.02	0.24
(3,867)	1:4:A:PHE:HB2	1:83:A:VAL:HB	2	0.24	0.02	0.24
(3,1595)	1:42:A:ASP:HB3	1:62:A:LEU:HD12	2	0.23	0.04	0.23
(3,1595)	1:42:A:ASP:HB2	1:70:A:ILE:HD13	2	0.23	0.04	0.23
(1,1454)	1:101:A:VAL:HG11	1:141:A:GLY:H	2	0.23	0.13	0.23
(1,1454)	1:101:A:VAL:HG12	1:141:A:GLY:H	2	0.23	0.13	0.23
(3,237)	1:29:A:LYS:HA	1:29:A:LYS:HG3	2	0.22	0.02	0.22
(3,2377)	1:15:A:TRP:HZ3	1:31:A:VAL:HG21	2	0.22	0.08	0.22
(3,2377)	1:15:A:TRP:HZ3	1:31:A:VAL:HG22	2	0.22	0.08	0.22
(3,2377)	1:15:A:TRP:HZ3	1:31:A:VAL:HG23	2	0.22	0.08	0.22
(3,711)	1:7:A:VAL:HG11	1:10:A:ALA:H	2	0.22	0.06	0.22
(3,711)	1:7:A:VAL:HG12	1:10:A:ALA:H	2	0.22	0.06	0.22
(3,711)	1:7:A:VAL:HG13	1:10:A:ALA:H	2	0.22	0.06	0.22
(1,187)	1:15:A:TRP:H	1:30:A:LYS:HG3	2	0.22	0.03	0.22
(3,1064)	1:13:A:LYS:HG3	1:78:A:SER:HB2	2	0.22	0.1	0.22
(3,1273)	1:101:A:VAL:HG13	1:138:A:ILE:HD13	2	0.22	0.08	0.22
(3,1273)	1:101:A:VAL:HG12	1:138:A:ILE:HD11	2	0.22	0.08	0.22
(1,1334)	1:129:A:LYS:H	1:144:A:LEU:HD12	2	0.21	0.05	0.21
(1,1334)	1:129:A:LYS:H	1:144:A:LEU:HD11	2	0.21	0.05	0.21
(1,1476)	1:139:A:TYR:HD2	1:142:A:GLN:H	2	0.21	0.05	0.21
(3,1557)	1:50:A:ILE:HG21	1:55:A:ALA:HB1	2	0.21	0.02	0.21
(3,1557)	1:50:A:ILE:HG22	1:55:A:ALA:HB2	2	0.21	0.02	0.21
(3,318)	1:108:A:SER:HB3	1:121:A:TYR:HD1	2	0.21	0.1	0.21
(3,991)	1:114:A:VAL:HG21	1:146:A:ILE:HG13	2	0.21	0.0	0.21
(1,235)	1:27:A:GLN:HB3	1:28:A:ALA:H	2	0.2	0.03	0.2
(1,1591)	1:117:A:ASN:HD22	1:120:A:LEU:HG	2	0.2	0.03	0.2
(3,1600)	1:42:A:ASP:HA	1:45:A:LYS:HG3	2	0.2	0.08	0.2
(1,642)	1:62:A:LEU:H	1:88:A:LYS:HD3	2	0.19	0.04	0.19
(1,642)	1:62:A:LEU:H	1:88:A:LYS:HD2	2	0.19	0.04	0.19
(3,769)	1:111:A:SER:HB2	1:121:A:TYR:HA	2	0.19	0.01	0.19
(1,766)	1:71:A:LEU:H	1:71:A:LEU:HD23	2	0.18	0.08	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,766)	1:70:A:ILE:HG21	1:71:A:LEU:H	2	0.18	0.08	0.18
(1,1434)	1:101:A:VAL:HB	1:139:A:TYR:H	2	0.18	0.04	0.18
(3,779)	1:12:A:GLU:H	1:12:A:GLU:HB3	2	0.18	0.04	0.18
(1,492)	1:48:A:ILE:H	1:48:A:ILE:HG13	2	0.18	0.02	0.18
(1,1757)	1:96:A:SER:HB3	1:97:A:GLN:H	2	0.18	0.01	0.18
(3,1103)	1:15:A:TRP:HD1	1:20:A:GLY:HA3	2	0.18	0.01	0.18
(3,1103)	1:15:A:TRP:HD1	1:20:A:GLY:HA2	2	0.18	0.01	0.18
(3,1682)	1:86:A:GLN:HA	1:86:A:GLN:HG2	2	0.18	0.06	0.18
(3,1682)	1:86:A:GLN:HA	1:86:A:GLN:HG3	2	0.18	0.06	0.18
(1,1635)	1:132:A:LEU:HG	1:142:A:GLN:HE22	2	0.18	0.03	0.18
(1,2279)	1:13:A:LYS:H	1:13:A:LYS:HG2	2	0.18	0.06	0.18
(3,2329)	1:49:A:GLN:HB2	1:56:A:THR:H	2	0.18	0.08	0.18
(3,2329)	1:8:A:LYS:HB2	1:81:A:ALA:H	2	0.18	0.08	0.18
(1,409)	1:39:A:GLY:H	1:40:A:ILE:HG21	2	0.17	0.0	0.17
(3,1841)	1:3:A:LEU:HD11	1:82:A:SER:HB2	2	0.17	0.03	0.17
(3,1841)	1:3:A:LEU:HD12	1:82:A:SER:HB2	2	0.17	0.03	0.17
(3,1841)	1:3:A:LEU:HD13	1:82:A:SER:HB2	2	0.17	0.03	0.17
(3,1841)	1:3:A:LEU:HD21	1:82:A:SER:HB2	2	0.17	0.03	0.17
(3,1841)	1:3:A:LEU:HD22	1:82:A:SER:HB2	2	0.17	0.03	0.17
(3,1841)	1:3:A:LEU:HD23	1:82:A:SER:HB2	2	0.17	0.03	0.17
(1,923)	1:83:A:VAL:HG11	1:84:A:ASP:H	2	0.17	0.01	0.17
(1,923)	1:83:A:VAL:HG12	1:84:A:ASP:H	2	0.17	0.01	0.17
(1,923)	1:83:A:VAL:HG13	1:84:A:ASP:H	2	0.17	0.01	0.17
(3,484)	1:107:A:LEU:HB3	1:121:A:TYR:HB3	2	0.17	0.05	0.17
(3,484)	1:107:A:LEU:HB3	1:121:A:TYR:HB2	2	0.17	0.05	0.17
(1,1577)	1:56:A:THR:HG21	1:86:A:GLN:HE21	2	0.16	0.02	0.16
(1,1577)	1:56:A:THR:HG22	1:86:A:GLN:HE21	2	0.16	0.02	0.16
(1,1577)	1:56:A:THR:HG23	1:86:A:GLN:HE21	2	0.16	0.02	0.16
(3,767)	1:121:A:TYR:HA	1:124:A:ILE:HB	2	0.16	0.02	0.16
(1,1053)	1:102:A:LYS:H	1:110:A:ILE:HG22	2	0.16	0.01	0.16
(1,1053)	1:102:A:LYS:H	1:110:A:ILE:HG23	2	0.16	0.01	0.16
(3,344)	1:3:A:LEU:HB3	1:4:A:PHE:H	2	0.16	0.05	0.16
(3,344)	1:3:A:LEU:HB2	1:4:A:PHE:H	2	0.16	0.05	0.16
(3,1386)	1:148:A:GLU:HG2	1:149:A:GLU:H	2	0.16	0.01	0.16
(3,1575)	1:146:A:ILE:HG23	1:147:A:PRO:HD2	2	0.16	0.03	0.16
(3,2106)	1:111:A:SER:HA	1:115:A:TYR:HE2	2	0.16	0.01	0.16
(1,222)	1:27:A:GLN:H	1:29:A:LYS:HB3	2	0.16	0.04	0.16
(1,702)	1:68:A:GLU:H	1:71:A:LEU:HD13	2	0.16	0.05	0.16
(1,702)	1:68:A:GLU:H	1:71:A:LEU:HD11	2	0.16	0.05	0.16
(1,773)	1:72:A:VAL:H	1:72:A:VAL:HB	2	0.16	0.01	0.16
(1,1477)	1:142:A:GLN:H	1:144:A:LEU:H	2	0.16	0.04	0.16
(1,1477)	1:102:A:LYS:H	1:142:A:GLN:H	2	0.16	0.04	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1935)	1:28:A:ALA:H	1:30:A:LYS:H	2	0.16	0.05	0.16
(3,437)	1:99:A:TYR:HD2	1:100:A:THR:H	2	0.16	0.05	0.16
(1,74)	1:3:A:LEU:HD11	1:4:A:PHE:H	2	0.15	0.02	0.15
(1,74)	1:3:A:LEU:HD12	1:4:A:PHE:H	2	0.15	0.02	0.15
(1,74)	1:3:A:LEU:HD13	1:4:A:PHE:H	2	0.15	0.02	0.15
(1,74)	1:3:A:LEU:HD21	1:4:A:PHE:H	2	0.15	0.02	0.15
(1,74)	1:3:A:LEU:HD22	1:4:A:PHE:H	2	0.15	0.02	0.15
(1,74)	1:3:A:LEU:HD23	1:4:A:PHE:H	2	0.15	0.02	0.15
(1,557)	1:49:A:GLN:HG3	1:56:A:THR:H	2	0.15	0.05	0.15
(1,708)	1:67:A:LYS:HB2	1:68:A:GLU:H	2	0.15	0.01	0.15
(1,1103)	1:111:A:SER:H	1:124:A:ILE:HG13	2	0.15	0.02	0.15
(3,178)	1:130:A:PRO:HD3	1:131:A:MET:H	2	0.15	0.0	0.15
(1,324)	1:15:A:TRP:HZ3	1:34:A:HIS:H	2	0.15	0.0	0.15
(3,425)	1:28:A:ALA:HA	1:50:A:ILE:HD11	2	0.15	0.02	0.15
(3,425)	1:28:A:ALA:HA	1:48:A:ILE:HG22	2	0.15	0.02	0.15
(3,2458)	1:125:A:PHE:HD1	1:129:A:LYS:HD3	2	0.15	0.03	0.15
(3,2458)	1:125:A:PHE:HD2	1:129:A:LYS:HD3	2	0.15	0.03	0.15
(1,648)	1:62:A:LEU:H	1:89:A:THR:HB	2	0.14	0.02	0.14
(1,1427)	1:138:A:ILE:H	1:142:A:GLN:HE21	2	0.14	0.04	0.14
(3,881)	1:12:A:GLU:HG2	1:34:A:HIS:HE1	2	0.14	0.01	0.14
(3,1804)	1:125:A:PHE:HD2	1:135:A:PRO:HA	2	0.14	0.04	0.14
(3,2104)	1:102:A:LYS:H	1:110:A:ILE:HG22	2	0.14	0.01	0.14
(3,2104)	1:102:A:LYS:H	1:110:A:ILE:HG23	2	0.14	0.01	0.14
(1,1044)	1:99:A:TYR:HE1	1:102:A:LYS:H	2	0.14	0.01	0.14
(1,1044)	1:99:A:TYR:HE2	1:102:A:LYS:H	2	0.14	0.01	0.14
(1,1223)	1:118:A:ALA:HB1	1:121:A:TYR:H	2	0.14	0.02	0.14
(1,1223)	1:118:A:ALA:HB3	1:121:A:TYR:H	2	0.14	0.02	0.14
(3,868)	1:149:A:GLU:HA	1:149:A:GLU:HG3	2	0.14	0.04	0.14
(3,868)	1:149:A:GLU:HA	1:149:A:GLU:HG2	2	0.14	0.04	0.14
(3,1741)	1:67:A:LYS:HE3	1:89:A:THR:HG21	2	0.14	0.02	0.14
(3,1741)	1:67:A:LYS:HE3	1:89:A:THR:HG22	2	0.14	0.02	0.14
(3,1741)	1:67:A:LYS:HE3	1:89:A:THR:HG23	2	0.14	0.02	0.14
(3,1741)	1:67:A:LYS:HE2	1:89:A:THR:HG21	2	0.14	0.02	0.14
(3,1741)	1:67:A:LYS:HE2	1:89:A:THR:HG22	2	0.14	0.02	0.14
(3,1741)	1:67:A:LYS:HE2	1:89:A:THR:HG23	2	0.14	0.02	0.14
(3,2000)	1:62:A:LEU:H	1:89:A:THR:HG21	2	0.14	0.02	0.14
(3,2000)	1:62:A:LEU:H	1:89:A:THR:HG22	2	0.14	0.02	0.14
(3,2000)	1:62:A:LEU:H	1:89:A:THR:HG23	2	0.14	0.02	0.14
(1,677)	1:65:A:GLU:HB3	1:66:A:ALA:H	2	0.13	0.02	0.13
(1,1244)	1:120:A:LEU:HD11	1:123:A:LYS:H	2	0.13	0.0	0.13
(1,1244)	1:120:A:LEU:HD12	1:123:A:LYS:H	2	0.13	0.0	0.13
(1,1244)	1:120:A:LEU:HD13	1:123:A:LYS:H	2	0.13	0.0	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1244)	1:120:A:LEU:HD21	1:123:A:LYS:H	2	0.13	0.0	0.13
(1,1244)	1:120:A:LEU:HD22	1:123:A:LYS:H	2	0.13	0.0	0.13
(1,1244)	1:120:A:LEU:HD23	1:123:A:LYS:H	2	0.13	0.0	0.13
(3,2448)	1:77:A:ILE:HG21	1:80:A:ILE:HG13	2	0.13	0.0	0.13
(3,2448)	1:77:A:ILE:HG22	1:80:A:ILE:HG13	2	0.13	0.0	0.13
(3,2448)	1:77:A:ILE:HG23	1:80:A:ILE:HG13	2	0.13	0.0	0.13
(1,1572)	1:150:A:LEU:HB3	1:151:A:GLU:H	2	0.12	0.02	0.12
(1,1627)	1:124:A:ILE:HG21	1:128:A:ASN:HD22	2	0.12	0.02	0.12
(1,1627)	1:124:A:ILE:HG22	1:128:A:ASN:HD22	2	0.12	0.02	0.12
(1,1627)	1:124:A:ILE:HG23	1:128:A:ASN:HD22	2	0.12	0.02	0.12
(3,730)	1:8:A:LYS:HE3	1:81:A:ALA:HB1	2	0.12	0.02	0.12
(3,730)	1:8:A:LYS:HE3	1:81:A:ALA:HB2	2	0.12	0.02	0.12
(3,730)	1:8:A:LYS:HE3	1:81:A:ALA:HB3	2	0.12	0.02	0.12
(3,730)	1:8:A:LYS:HE2	1:81:A:ALA:HB1	2	0.12	0.02	0.12
(3,730)	1:8:A:LYS:HE2	1:81:A:ALA:HB2	2	0.12	0.02	0.12
(3,730)	1:8:A:LYS:HE2	1:81:A:ALA:HB3	2	0.12	0.02	0.12
(3,2138)	1:122:A:ASN:HB3	1:126:A:GLU:H	2	0.12	0.02	0.12
(3,2138)	1:122:A:ASN:HB2	1:126:A:GLU:H	2	0.12	0.02	0.12
(1,2527)	1:10:A:ALA:H	1:11:A:GLY:H	2	0.12	0.02	0.12
(3,2633)	1:56:A:THR:HG21	1:86:A:GLN:HE21	2	0.12	0.02	0.12
(3,2633)	1:56:A:THR:HG22	1:86:A:GLN:HE21	2	0.12	0.02	0.12
(3,2633)	1:56:A:THR:HG23	1:86:A:GLN:HE21	2	0.12	0.02	0.12
(3,2709)	1:133:A:LYS:H	1:133:A:LYS:HB3	2	0.12	0.02	0.12
(1,418)	1:40:A:ILE:H	1:40:A:ILE:HG13	2	0.12	0.0	0.12
(1,1341)	1:129:A:LYS:H	1:130:A:PRO:HA	2	0.12	0.01	0.12
(3,2728)	1:123:A:LYS:H	1:123:A:LYS:HD3	2	0.12	0.02	0.12
(3,2728)	1:123:A:LYS:H	1:123:A:LYS:HD2	2	0.12	0.02	0.12
(1,545)	1:54:A:LYS:HB3	1:55:A:ALA:H	2	0.12	0.0	0.12
(1,756)	1:67:A:LYS:HE2	1:71:A:LEU:H	2	0.12	0.0	0.12
(1,1941)	1:50:A:ILE:HG21	1:53:A:GLY:H	2	0.12	0.0	0.12
(1,1941)	1:50:A:ILE:HG22	1:53:A:GLY:H	2	0.12	0.0	0.12
(1,1941)	1:50:A:ILE:HG23	1:53:A:GLY:H	2	0.12	0.0	0.12
(3,1671)	1:111:A:SER:HB2	1:124:A:ILE:HD13	2	0.12	0.0	0.12
(1,1065)	1:102:A:LYS:HB2	1:105:A:ASP:H	2	0.11	0.01	0.11
(3,1363)	1:97:A:GLN:HA	1:97:A:GLN:HG2	2	0.11	0.01	0.11
(3,2095)	1:107:A:LEU:HA	1:110:A:ILE:HG21	2	0.11	0.01	0.11
(3,2095)	1:107:A:LEU:HA	1:110:A:ILE:HG22	2	0.11	0.01	0.11
(3,2095)	1:107:A:LEU:HA	1:110:A:ILE:HG23	2	0.11	0.01	0.11
(3,2509)	1:62:A:LEU:H	1:90:A:ALA:HB1	2	0.11	0.0	0.11
(3,2509)	1:62:A:LEU:H	1:90:A:ALA:HB2	2	0.11	0.0	0.11
(3,2509)	1:62:A:LEU:H	1:90:A:ALA:HB3	2	0.11	0.0	0.11
(3,2788)	1:122:A:ASN:HA	1:122:A:ASN:HB2	2	0.11	0.0	0.11

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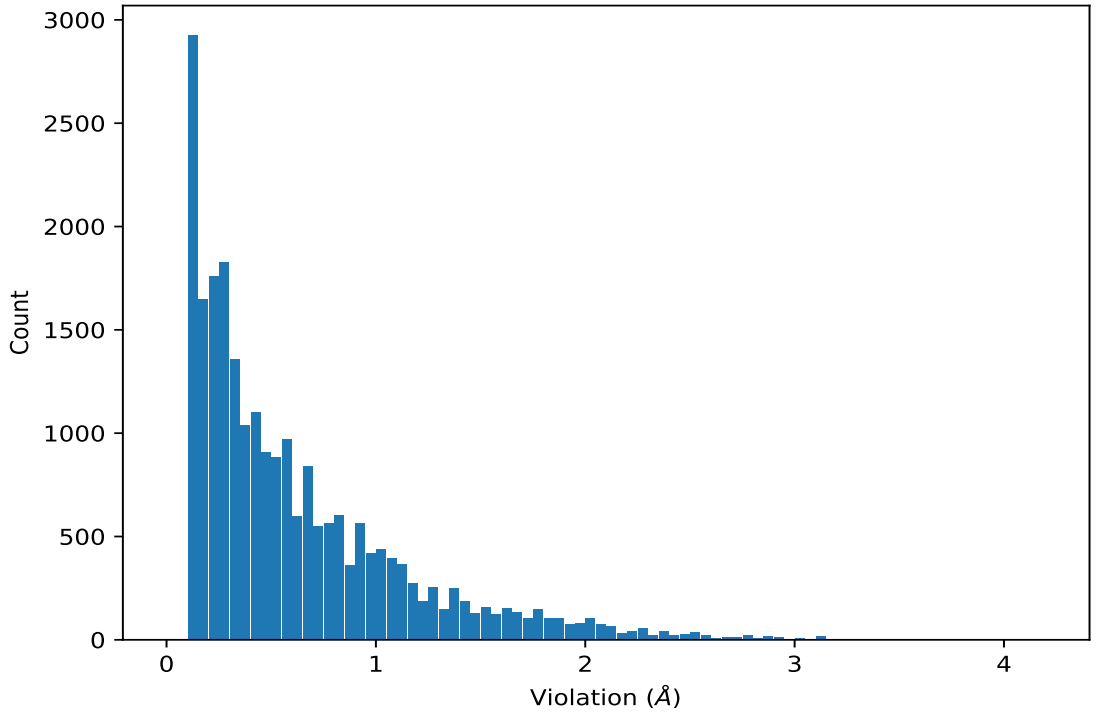
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,2887)	1:100:A:THR:HB	1:101:A:VAL:H	2	0.11	0.01	0.11
(3,2939)	1:22:A:HIS:HB3	1:22:A:HIS:HD2	2	0.11	0.01	0.11
(3,2939)	1:22:A:HIS:HB2	1:22:A:HIS:HD2	2	0.11	0.01	0.11
(3,246)	1:35:A:LEU:H	1:35:A:LEU:HB3	2	0.11	0.0	0.11
(3,2450)	1:15:A:TRP:HZ3	1:80:A:ILE:HD11	2	0.11	0.0	0.11
(3,2450)	1:15:A:TRP:HZ3	1:80:A:ILE:HD12	2	0.11	0.0	0.11
(3,2450)	1:15:A:TRP:HZ3	1:80:A:ILE:HD13	2	0.11	0.0	0.11
(3,326)	1:52:A:ASP:HA	1:52:A:ASP:HB2	2	0.1	0.0	0.1
(3,1021)	1:113:A:GLN:HG3	1:114:A:VAL:HG11	2	0.1	0.0	0.1
(3,1021)	1:113:A:GLN:HG3	1:114:A:VAL:HG12	2	0.1	0.0	0.1
(3,1021)	1:113:A:GLN:HG3	1:114:A:VAL:HG13	2	0.1	0.0	0.1

[1]Number of violated models, [2]Standard deviation

9.5 All violated distance restraints (i)

9.5.1 Histogram : Distribution of distance violations (i)

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



9.5.2 Table : All distance violations (i)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD23	11	4.2
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	6	4.01
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	20	4.0
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG21	3	3.75
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD12	3	3.74
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG21	6	3.66
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG23	18	3.65
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG22	13	3.62
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG22	10	3.6
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG22	5	3.58
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG21	4	3.57
(3,1712)	1:56:A:THR:H	1:57:A:VAL:HG21	15	3.45
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG22	9	3.44
(3,1712)	1:57:A:VAL:HG23	1:84:A:ASP:H	2	3.35
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HB3	1	3.28
(3,2012)	1:97:A:GLN:HG2	1:124:A:ILE:HG22	9	3.18
(3,1712)	1:56:A:THR:H	1:57:A:VAL:HG22	7	3.18
(3,1753)	1:14:A:LEU:HD23	1:33:A:GLU:HB3	6	3.14
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	6	3.14
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	6	3.14
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	6	3.14
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	6	3.14
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	6	3.14
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	6	3.14
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	6	3.14
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	6	3.14
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	6	3.14
(3,1753)	1:14:A:LEU:HD22	1:33:A:GLU:HB3	16	3.12
(3,1753)	1:14:A:LEU:HD22	1:33:A:GLU:HB3	9	3.11
(3,1753)	1:14:A:LEU:HD23	1:33:A:GLU:HB3	10	3.11
(3,1753)	1:14:A:LEU:HD22	1:33:A:GLU:HB3	20	3.11
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HB3	3	3.11
(3,1753)	1:14:A:LEU:HD22	1:33:A:GLU:HB3	17	3.08
(3,1712)	1:56:A:THR:H	1:57:A:VAL:HG21	3	3.06
(3,1712)	1:57:A:VAL:HG21	1:84:A:ASP:H	20	3.05
(1,1834)	1:32:A:GLN:HE21	1:46:A:VAL:HG12	6	3.03
(3,2337)	1:68:A:GLU:HG3	1:72:A:VAL:HG13	19	3.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1753)	1:14:A:LEU:HD22	1:33:A:GLU:HB3	14	3.01
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG21	5	3.01
(3,1753)	1:14:A:LEU:HD21	1:33:A:GLU:HB3	2	2.99
(3,1753)	1:14:A:LEU:HD22	1:33:A:GLU:HB3	11	2.93
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	9	2.93
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	9	2.93
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	9	2.93
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	9	2.93
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	9	2.93
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	9	2.93
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	9	2.93
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	9	2.93
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	9	2.93
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG12	6	2.91
(1,1593)	1:64:A:GLN:HE21	1:145:A:ARG:HB3	7	2.9
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD13	15	2.89
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	10	2.89
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	10	2.89
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	10	2.89
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	10	2.89
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	10	2.89
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	10	2.89
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	10	2.89
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	10	2.89
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	10	2.89
(3,1777)	1:69:A:LYS:HG2	1:145:A:ARG:HD2	20	2.88
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG22	9	2.88
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HD3	2	2.88
(3,1291)	1:101:A:VAL:HG13	1:110:A:ILE:HB	13	2.86
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD13	14	2.85
(3,1712)	1:56:A:THR:H	1:57:A:VAL:HG21	9	2.84
(3,938)	1:99:A:TYR:HD1	1:144:A:LEU:HD23	20	2.83
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	20	2.82
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	20	2.82
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	20	2.82
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG13	4	2.82
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG13	9	2.81
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	5	2.8
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	5	2.8
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	5	2.8
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	6	2.79
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	6	2.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	6	2.79
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	12	2.79
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	12	2.79
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	12	2.79
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	2	2.79
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	2	2.79
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	2	2.79
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD12	17	2.79
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	7	2.78
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	7	2.78
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	7	2.78
(3,1763)	1:31:A:VAL:HG12	1:32:A:GLN:HA	5	2.78
(3,1712)	1:56:A:THR:H	1:57:A:VAL:HG21	5	2.78
(3,1291)	1:101:A:VAL:HG13	1:110:A:ILE:HB	18	2.78
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG11	12	2.75
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	4	2.74
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	4	2.74
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	4	2.74
(3,2144)	1:115:A:TYR:HE2	1:120:A:LEU:HD23	6	2.74
(3,1712)	1:56:A:THR:H	1:57:A:VAL:HG22	18	2.74
(3,938)	1:138:A:ILE:H	1:144:A:LEU:HD23	6	2.73
(3,938)	1:138:A:ILE:H	1:144:A:LEU:HD22	11	2.73
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD12	18	2.72
(3,1763)	1:68:A:GLU:HA	1:83:A:VAL:HG13	9	2.72
(3,1291)	1:101:A:VAL:HG13	1:110:A:ILE:HB	1	2.71
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD12	6	2.7
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD12	14	2.7
(3,2362)	1:47:A:ASN:HA	1:48:A:ILE:HG21	13	2.69
(3,2362)	1:46:A:VAL:HG13	1:47:A:ASN:HA	18	2.69
(3,2144)	1:115:A:TYR:HE2	1:120:A:LEU:HD23	5	2.69
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD12	15	2.69
(3,2362)	1:46:A:VAL:HG12	1:47:A:ASN:HA	10	2.68
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD12	8	2.68
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG21	6	2.68
(3,2362)	1:47:A:ASN:HA	1:48:A:ILE:HG21	3	2.67
(3,2364)	1:46:A:VAL:HG11	1:47:A:ASN:HB2	9	2.66
(3,2141)	1:61:A:GLY:H	1:62:A:LEU:HD22	3	2.66
(3,2093)	1:135:A:PRO:HA	1:144:A:LEU:HD23	20	2.66
(1,1834)	1:32:A:GLN:HE21	1:46:A:VAL:HG13	4	2.66
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG12	12	2.66
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG11	7	2.64
(3,1831)	1:14:A:LEU:HD12	1:30:A:LYS:HB2	2	2.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1712)	1:57:A:VAL:HG21	1:84:A:ASP:H	14	2.62
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG23	10	2.62
(3,2362)	1:46:A:VAL:HG12	1:47:A:ASN:HA	12	2.61
(3,2144)	1:115:A:TYR:HE1	1:120:A:LEU:HD23	4	2.61
(3,1291)	1:101:A:VAL:HG12	1:110:A:ILE:HB	4	2.61
(1,1495)	1:101:A:VAL:HG13	1:144:A:LEU:H	6	2.61
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	13	2.59
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	13	2.59
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	13	2.59
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	18	2.59
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	18	2.59
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	18	2.59
(3,1985)	1:59:A:GLY:HA3	1:87:A:VAL:HG12	15	2.59
(3,1291)	1:101:A:VAL:HG12	1:110:A:ILE:HB	2	2.59
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HD3	16	2.59
(3,2362)	1:46:A:VAL:HG12	1:47:A:ASN:HA	19	2.58
(3,1291)	1:101:A:VAL:HG13	1:110:A:ILE:HB	14	2.58
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	14	2.58
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	14	2.58
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	14	2.58
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	6	2.57
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	6	2.57
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	6	2.57
(3,2362)	1:46:A:VAL:HG12	1:47:A:ASN:HA	7	2.56
(3,2141)	1:61:A:GLY:H	1:62:A:LEU:HD21	6	2.56
(3,2141)	1:61:A:GLY:H	1:62:A:LEU:HD22	10	2.56
(3,2362)	1:46:A:VAL:HG13	1:47:A:ASN:HA	2	2.55
(3,2144)	1:115:A:TYR:HE2	1:120:A:LEU:HD23	18	2.55
(3,1531)	1:113:A:GLN:HG3	1:146:A:ILE:HD13	13	2.55
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	11	2.55
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	11	2.55
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	11	2.55
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG11	11	2.54
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG12	11	2.54
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG13	11	2.54
(3,2362)	1:47:A:ASN:HA	1:48:A:ILE:HG21	9	2.54
(3,1531)	1:113:A:GLN:HG3	1:146:A:ILE:HD11	5	2.54
(3,1531)	1:113:A:GLN:HG3	1:146:A:ILE:HD12	6	2.54
(3,2362)	1:47:A:ASN:HA	1:48:A:ILE:HG21	5	2.53
(3,2362)	1:47:A:ASN:HA	1:48:A:ILE:HG21	6	2.53
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD12	2	2.52
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	10	2.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	10	2.52
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	10	2.52
(3,450)	1:99:A:TYR:HB2	1:110:A:ILE:HG12	17	2.52
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG12	16	2.52
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	20	2.51
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	20	2.51
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	20	2.51
(3,2362)	1:47:A:ASN:HA	1:48:A:ILE:HG21	1	2.51
(3,2141)	1:61:A:GLY:H	1:62:A:LEU:HD23	15	2.51
(1,799)	1:73:A:ALA:H	1:74:A:VAL:HG11	17	2.51
(3,2362)	1:46:A:VAL:HG13	1:47:A:ASN:HA	17	2.5
(3,2141)	1:61:A:GLY:H	1:62:A:LEU:HD23	9	2.5
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG11	11	2.5
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	15	2.5
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	15	2.5
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	15	2.5
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	12	2.5
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	12	2.5
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	12	2.5
(3,2362)	1:46:A:VAL:HG13	1:47:A:ASN:HA	15	2.49
(3,2012)	1:97:A:GLN:HG2	1:143:A:VAL:HG12	6	2.49
(3,1763)	1:32:A:GLN:HA	1:74:A:VAL:HG12	10	2.49
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	6	2.49
(1,1495)	1:101:A:VAL:HG13	1:144:A:LEU:H	18	2.49
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD11	9	2.48
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG11	20	2.48
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG12	20	2.48
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG13	20	2.48
(3,926)	1:35:A:LEU:HD21	1:43:A:ALA:HA	18	2.48
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	4	2.48
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	4	2.48
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	4	2.48
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	2	2.47
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	2	2.47
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	2	2.47
(3,2362)	1:47:A:ASN:HA	1:48:A:ILE:HG22	4	2.47
(3,2141)	1:61:A:GLY:H	1:62:A:LEU:HD23	5	2.47
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD11	3	2.47
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD12	18	2.47
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD22	7	2.47
(1,1834)	1:32:A:GLN:HE21	1:48:A:ILE:HG22	12	2.47
(3,2012)	1:97:A:GLN:HG2	1:143:A:VAL:HG13	10	2.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD13	19	2.45
(3,1291)	1:101:A:VAL:HG11	1:110:A:ILE:HB	10	2.45
(3,951)	1:67:A:LYS:HE2	1:71:A:LEU:HD12	15	2.45
(3,2141)	1:61:A:GLY:H	1:62:A:LEU:HD22	11	2.44
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	19	2.44
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	19	2.44
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	19	2.44
(3,2144)	1:115:A:TYR:HE2	1:120:A:LEU:HD21	2	2.43
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	17	2.43
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	17	2.43
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	17	2.43
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD13	4	2.43
(1,799)	1:73:A:ALA:H	1:74:A:VAL:HG12	4	2.43
(3,2364)	1:46:A:VAL:HG11	1:47:A:ASN:HB3	1	2.42
(3,1985)	1:59:A:GLY:HA3	1:87:A:VAL:HG11	7	2.42
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG12	18	2.42
(3,1309)	1:31:A:VAL:HG11	1:80:A:ILE:HG12	18	2.42
(3,1291)	1:101:A:VAL:HG11	1:110:A:ILE:HB	11	2.42
(1,799)	1:73:A:ALA:H	1:74:A:VAL:HG11	16	2.42
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	3	2.41
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	3	2.41
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	3	2.41
(3,1874)	1:98:A:PHE:HB2	1:143:A:VAL:HG13	1	2.41
(3,1291)	1:101:A:VAL:HG11	1:110:A:ILE:HB	3	2.41
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	17	2.4
(3,1985)	1:59:A:GLY:HA3	1:87:A:VAL:HG11	16	2.4
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	1	2.4
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	1	2.4
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	1	2.4
(3,1291)	1:101:A:VAL:HG13	1:110:A:ILE:HB	7	2.4
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	4	2.4
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	4	2.4
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	4	2.4
(3,2364)	1:46:A:VAL:HG12	1:47:A:ASN:HB3	12	2.39
(3,1291)	1:101:A:VAL:HG13	1:110:A:ILE:HB	9	2.39
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	5	2.39
(3,1985)	1:59:A:GLY:HA3	1:87:A:VAL:HG11	2	2.38
(3,1698)	1:46:A:VAL:HG13	1:62:A:LEU:H	6	2.38
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD13	10	2.38
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	7	2.38
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	7	2.38
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	7	2.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2362)	1:47:A:ASN:HA	1:48:A:ILE:HG23	16	2.37
(3,2141)	1:61:A:GLY:H	1:62:A:LEU:HD23	20	2.37
(3,1291)	1:101:A:VAL:HG12	1:110:A:ILE:HB	16	2.37
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	8	2.37
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	8	2.37
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	8	2.37
(1,1583)	1:3:A:LEU:HD12	1:86:A:GLN:HE22	1	2.37
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	8	2.36
(3,2144)	1:115:A:TYR:HE2	1:120:A:LEU:HD22	7	2.36
(3,2093)	1:135:A:PRO:HA	1:144:A:LEU:HD22	6	2.36
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	8	2.36
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	8	2.36
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	8	2.36
(3,450)	1:99:A:TYR:HB2	1:110:A:ILE:HG12	16	2.36
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG11	18	2.35
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG12	18	2.35
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG13	18	2.35
(3,2144)	1:115:A:TYR:HE2	1:120:A:LEU:HD23	20	2.35
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD12	15	2.35
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD11	20	2.35
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	7	2.35
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	7	2.35
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	7	2.35
(3,2364)	1:46:A:VAL:HG12	1:47:A:ASN:HB3	19	2.34
(3,2012)	1:97:A:GLN:HG2	1:143:A:VAL:HG12	5	2.34
(3,1531)	1:113:A:GLN:HG3	1:146:A:ILE:HD11	12	2.34
(3,1309)	1:31:A:VAL:HG11	1:80:A:ILE:HG12	20	2.34
(3,1291)	1:101:A:VAL:HG13	1:110:A:ILE:HB	5	2.34
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	2	2.34
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	2	2.34
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	2	2.34
(3,1985)	1:59:A:GLY:HA3	1:87:A:VAL:HG13	17	2.33
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD12	11	2.33
(3,1531)	1:97:A:GLN:HG3	1:146:A:ILE:HD13	16	2.33
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG13	14	2.33
(3,2364)	1:46:A:VAL:HG12	1:47:A:ASN:HB2	13	2.32
(3,1874)	1:98:A:PHE:HB2	1:143:A:VAL:HG11	16	2.32
(3,926)	1:32:A:GLN:HA	1:35:A:LEU:HD21	10	2.32
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	18	2.32
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	18	2.32
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	18	2.32
(3,2364)	1:46:A:VAL:HG13	1:47:A:ASN:HB2	2	2.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	5	2.31
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	5	2.31
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	5	2.31
(3,450)	1:99:A:TYR:HB2	1:110:A:ILE:HG12	1	2.31
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG12	17	2.31
(3,2364)	1:46:A:VAL:HG11	1:47:A:ASN:HB3	4	2.3
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD22	7	2.3
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	14	2.3
(3,1531)	1:113:A:GLN:HG3	1:146:A:ILE:HD13	7	2.3
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	20	2.3
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	20	2.3
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	20	2.3
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG11	2	2.29
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG12	2	2.29
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG13	2	2.29
(3,2364)	1:46:A:VAL:HG12	1:47:A:ASN:HB2	3	2.29
(3,2336)	1:69:A:LYS:HD3	1:145:A:ARG:HD2	9	2.29
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	6	2.29
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	6	2.29
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	6	2.29
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD23	15	2.29
(1,1495)	1:101:A:VAL:HG12	1:144:A:LEU:H	2	2.29
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	14	2.29
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	14	2.29
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	14	2.29
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG12	1	2.29
(3,2141)	1:61:A:GLY:H	1:62:A:LEU:HD21	14	2.28
(3,1874)	1:98:A:PHE:HB2	1:143:A:VAL:HG12	3	2.28
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG11	2	2.28
(3,1309)	1:31:A:VAL:HG13	1:80:A:ILE:HG12	13	2.28
(1,1834)	1:32:A:GLN:HE21	1:48:A:ILE:HG22	17	2.28
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG13	6	2.28
(1,530)	1:3:A:LEU:HD13	1:51:A:ALA:H	3	2.28
(3,1831)	1:14:A:LEU:HD11	1:30:A:LYS:HB2	6	2.27
(3,1698)	1:46:A:VAL:HG11	1:62:A:LEU:H	4	2.27
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	20	2.27
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG21	14	2.27
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG22	14	2.27
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG23	14	2.27
(3,450)	1:99:A:TYR:HB2	1:110:A:ILE:HG12	8	2.27
(1,1834)	1:32:A:GLN:HE21	1:48:A:ILE:HG23	3	2.27
(3,2355)	1:71:A:LEU:HD23	1:87:A:VAL:H	11	2.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2205)	1:131:A:MET:HE3	1:145:A:ARG:HB2	18	2.26
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	5	2.26
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	5	2.26
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	5	2.26
(3,893)	1:67:A:LYS:HB3	1:71:A:LEU:HD11	5	2.26
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG12	2	2.26
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG12	15	2.26
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	7	2.26
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	7	2.26
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	7	2.26
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD22	16	2.25
(3,1874)	1:98:A:PHE:HB2	1:143:A:VAL:HG12	20	2.25
(3,945)	1:107:A:LEU:HD11	1:125:A:PHE:HA	13	2.25
(3,945)	1:107:A:LEU:HD12	1:125:A:PHE:HA	18	2.25
(3,142)	1:107:A:LEU:HD13	1:110:A:ILE:HD11	18	2.25
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	2	2.25
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	2	2.25
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	2	2.25
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD11	8	2.24
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	13	2.24
(3,2144)	1:115:A:TYR:HE1	1:120:A:LEU:HD22	3	2.24
(3,2144)	1:115:A:TYR:HE2	1:120:A:LEU:HD22	12	2.24
(3,2144)	1:115:A:TYR:HE2	1:120:A:LEU:HD21	13	2.24
(3,1531)	1:113:A:GLN:HG3	1:146:A:ILE:HD12	1	2.24
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG13	12	2.24
(3,1309)	1:31:A:VAL:HG13	1:80:A:ILE:HG12	17	2.24
(3,450)	1:99:A:TYR:HB2	1:110:A:ILE:HG12	19	2.24
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG11	14	2.23
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG12	14	2.23
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG13	14	2.23
(3,2364)	1:46:A:VAL:HG13	1:47:A:ASN:HB2	18	2.23
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD23	1	2.23
(3,1777)	1:69:A:LYS:HG2	1:145:A:ARG:HD2	4	2.23
(3,544)	1:107:A:LEU:HD23	1:121:A:TYR:HB2	7	2.23
(3,450)	1:99:A:TYR:HB2	1:110:A:ILE:HG12	2	2.23
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD23	12	2.23
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG11	12	2.23
(3,2364)	1:46:A:VAL:HG12	1:47:A:ASN:HB2	10	2.22
(3,1874)	1:98:A:PHE:HB2	1:143:A:VAL:HG13	15	2.22
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	9	2.22
(3,416)	1:72:A:VAL:HG22	1:131:A:MET:HE2	11	2.22
(1,1834)	1:32:A:GLN:HE21	1:48:A:ILE:HG22	19	2.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	5	2.22
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	5	2.22
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	5	2.22
(3,2364)	1:46:A:VAL:HG11	1:47:A:ASN:HB2	5	2.21
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	2	2.21
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	2	2.21
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	2	2.21
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG11	19	2.21
(1,1495)	1:101:A:VAL:HG13	1:144:A:LEU:H	13	2.21
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG12	15	2.21
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG11	12	2.2
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG12	12	2.2
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG13	12	2.2
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	12	2.2
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	12	2.2
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	12	2.2
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	10	2.2
(3,1831)	1:14:A:LEU:HD13	1:30:A:LYS:HB2	17	2.19
(3,1753)	1:14:A:LEU:HD22	1:33:A:GLU:HB3	13	2.19
(3,1698)	1:32:A:GLN:HE21	1:48:A:ILE:HG23	3	2.19
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG12	7	2.19
(3,1025)	1:100:A:THR:HG22	1:102:A:LYS:HE3	18	2.19
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG21	11	2.19
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG22	11	2.19
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG23	11	2.19
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	9	2.19
(1,1834)	1:32:A:GLN:HE21	1:48:A:ILE:HG23	9	2.19
(1,799)	1:73:A:ALA:H	1:74:A:VAL:HG11	20	2.19
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG21	8	2.18
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG22	8	2.18
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG23	8	2.18
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	3	2.17
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	3	2.17
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	3	2.17
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	3	2.17
(3,1985)	1:59:A:GLY:HA3	1:87:A:VAL:HG11	19	2.16
(3,1786)	1:107:A:LEU:HD11	1:123:A:LYS:H	13	2.16
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG13	19	2.16
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	20	2.16
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	20	2.16
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	20	2.16
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	5	2.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	5	2.16
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	5	2.16
(1,1495)	1:132:A:LEU:HD12	1:144:A:LEU:H	11	2.16
(3,2306)	1:101:A:VAL:HG13	1:144:A:LEU:HD23	18	2.15
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD12	6	2.15
(3,1786)	1:107:A:LEU:HD12	1:123:A:LYS:H	18	2.15
(3,1777)	1:69:A:LYS:HG2	1:145:A:ARG:HD2	10	2.15
(3,1874)	1:98:A:PHE:HB2	1:143:A:VAL:HG13	13	2.14
(3,450)	1:99:A:TYR:HB2	1:110:A:ILE:HG12	14	2.14
(1,1583)	1:3:A:LEU:HD12	1:86:A:GLN:HE22	2	2.14
(1,1495)	1:101:A:VAL:HG13	1:144:A:LEU:H	5	2.14
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	1	2.14
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	1	2.14
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	1	2.14
(1,998)	1:71:A:LEU:HD11	1:98:A:PHE:H	9	2.14
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG11	11	2.14
(3,2479)	1:132:A:LEU:HD21	1:139:A:TYR:H	6	2.13
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD23	15	2.13
(3,1874)	1:98:A:PHE:HB2	1:143:A:VAL:HG11	17	2.13
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG21	6	2.13
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG22	6	2.13
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG23	6	2.13
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	4	2.13
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	14	2.13
(1,1834)	1:32:A:GLN:HE21	1:48:A:ILE:HG21	7	2.13
(1,1834)	1:32:A:GLN:HE21	1:48:A:ILE:HG21	10	2.13
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	3	2.13
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	3	2.13
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	3	2.13
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	6	2.13
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	6	2.13
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	6	2.13
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG23	11	2.13
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	13	2.12
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	13	2.12
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	13	2.12
(3,2306)	1:101:A:VAL:HG12	1:144:A:LEU:HD21	2	2.12
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	19	2.12
(3,1698)	1:46:A:VAL:HG12	1:62:A:LEU:H	12	2.12
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	3	2.12
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	3	2.12
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	3	2.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	11	2.12
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	20	2.12
(3,2205)	1:131:A:MET:HE2	1:144:A:LEU:HB3	13	2.11
(3,1698)	1:32:A:GLN:HE21	1:48:A:ILE:HG23	9	2.11
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG21	14	2.11
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG22	14	2.11
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG23	14	2.11
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HB3	11	2.11
(1,1593)	1:64:A:GLN:HE21	1:145:A:ARG:HB3	12	2.11
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	10	2.11
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	10	2.11
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	10	2.11
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG21	14	2.11
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG22	14	2.11
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG23	14	2.11
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG11	4	2.11
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG11	5	2.1
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG12	5	2.1
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG13	5	2.1
(3,2479)	1:132:A:LEU:HD22	1:139:A:TYR:H	20	2.1
(3,1698)	1:46:A:VAL:HG13	1:62:A:LEU:H	17	2.1
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG11	6	2.1
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	6	2.1
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	6	2.1
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	6	2.1
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG11	5	2.1
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG12	5	2.1
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG13	5	2.1
(3,142)	1:107:A:LEU:HD12	1:110:A:ILE:HD11	13	2.1
(1,998)	1:72:A:VAL:HG21	1:98:A:PHE:H	19	2.1
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG12	8	2.1
(3,2479)	1:132:A:LEU:HD22	1:139:A:TYR:H	13	2.09
(3,1698)	1:46:A:VAL:HG12	1:62:A:LEU:H	19	2.09
(3,1309)	1:28:A:ALA:HB1	1:31:A:VAL:HG11	19	2.09
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	18	2.09
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	18	2.09
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	18	2.09
(1,1226)	1:121:A:TYR:H	1:124:A:ILE:HG22	1	2.09
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	4	2.09
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	4	2.09
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	4	2.09
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG11	16	2.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	7	2.08
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	7	2.08
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	7	2.08
(3,2364)	1:46:A:VAL:HG13	1:47:A:ASN:HB2	6	2.08
(3,2306)	1:132:A:LEU:HD13	1:144:A:LEU:HD22	13	2.08
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	2	2.08
(3,1874)	1:98:A:PHE:HB2	1:143:A:VAL:HG11	9	2.08
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG12	10	2.08
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG11	5	2.08
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG12	5	2.08
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG13	5	2.08
(3,926)	1:32:A:GLN:HA	1:35:A:LEU:HD23	16	2.08
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG21	12	2.08
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG22	12	2.08
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG23	12	2.08
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	19	2.08
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG11	3	2.08
(1,1593)	1:64:A:GLN:HE21	1:145:A:ARG:HB3	14	2.08
(1,1495)	1:132:A:LEU:HD11	1:144:A:LEU:H	9	2.08
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	13	2.08
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	13	2.08
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	13	2.08
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG11	11	2.08
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG11	4	2.07
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG12	4	2.07
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG13	4	2.07
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG11	7	2.07
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG12	7	2.07
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG13	7	2.07
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG11	19	2.07
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG12	19	2.07
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG13	19	2.07
(3,2479)	1:132:A:LEU:HD22	1:139:A:TYR:H	3	2.07
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD23	12	2.07
(3,1305)	1:31:A:VAL:HG21	1:77:A:ILE:HG12	5	2.07
(3,1305)	1:31:A:VAL:HG22	1:77:A:ILE:HG12	5	2.07
(3,1305)	1:31:A:VAL:HG23	1:77:A:ILE:HG12	5	2.07
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	18	2.07
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	18	2.07
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	18	2.07
(3,1057)	1:18:A:VAL:HG13	1:19:A:THR:HA	13	2.07
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG21	4	2.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG22	4	2.07
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG23	4	2.07
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	17	2.07
(1,1495)	1:132:A:LEU:HD13	1:144:A:LEU:H	10	2.07
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	9	2.07
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	9	2.07
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	9	2.07
(1,998)	1:71:A:LEU:HD23	1:98:A:PHE:H	8	2.07
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG21	11	2.07
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG22	11	2.07
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG23	11	2.07
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG22	11	2.07
(3,1698)	1:32:A:GLN:HE21	1:48:A:ILE:HG21	10	2.06
(3,1025)	1:100:A:THR:HG21	1:102:A:LYS:HE3	9	2.06
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	12	2.06
(1,1834)	1:32:A:GLN:HE21	1:48:A:ILE:HG22	16	2.06
(1,998)	1:72:A:VAL:HG22	1:98:A:PHE:H	20	2.06
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG21	6	2.06
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG22	6	2.06
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG23	6	2.06
(3,2479)	1:132:A:LEU:HD21	1:139:A:TYR:H	19	2.05
(3,2364)	1:46:A:VAL:HG13	1:47:A:ASN:HB2	16	2.05
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	9	2.05
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD12	3	2.05
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG11	8	2.05
(3,1057)	1:18:A:VAL:HG11	1:19:A:THR:HA	8	2.05
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG21	19	2.05
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG22	19	2.05
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG23	19	2.05
(1,1226)	1:107:A:LEU:HD22	1:121:A:TYR:H	20	2.05
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG11	8	2.04
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG12	8	2.04
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG13	8	2.04
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	10	2.04
(3,1753)	1:14:A:LEU:HD22	1:33:A:GLU:HB3	12	2.04
(3,1698)	1:46:A:VAL:HG12	1:62:A:LEU:H	7	2.04
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG23	12	2.04
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG23	19	2.04
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	4	2.04
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	4	2.04
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	4	2.04
(3,926)	1:32:A:GLN:HA	1:35:A:LEU:HD23	8	2.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG21	10	2.04
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG22	10	2.04
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG23	10	2.04
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	1	2.04
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	2	2.04
(1,1226)	1:121:A:TYR:H	1:124:A:ILE:HG21	7	2.04
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG13	18	2.04
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD12	9	2.03
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG21	14	2.03
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG11	4	2.03
(3,1309)	1:28:A:ALA:HB1	1:31:A:VAL:HG11	3	2.03
(3,926)	1:35:A:LEU:HD23	1:43:A:ALA:HA	15	2.03
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	16	2.03
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	3	2.03
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	3	2.03
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	3	2.03
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG21	11	2.03
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG22	11	2.03
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG23	11	2.03
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG21	12	2.03
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG22	12	2.03
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG23	12	2.03
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG11	6	2.02
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG12	6	2.02
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG13	6	2.02
(3,1753)	1:14:A:LEU:HD21	1:33:A:GLU:HB3	19	2.02
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG21	15	2.02
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	11	2.02
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	11	2.02
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	11	2.02
(3,1025)	1:100:A:THR:HG21	1:102:A:LYS:HE3	6	2.02
(3,1025)	1:100:A:THR:HG23	1:102:A:LYS:HE3	8	2.02
(3,893)	1:67:A:LYS:HB3	1:71:A:LEU:HD11	10	2.02
(3,544)	1:3:A:LEU:HD11	1:54:A:LYS:HE2	12	2.02
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG21	8	2.02
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG22	8	2.02
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG23	8	2.02
(1,1593)	1:64:A:GLN:HE21	1:145:A:ARG:HB3	19	2.02
(1,1226)	1:121:A:TYR:H	1:124:A:ILE:HG22	12	2.02
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	16	2.02
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	16	2.02
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	16	2.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG11	7	2.02
(3,2205)	1:131:A:MET:HE1	1:145:A:ARG:HB2	15	2.01
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD11	5	2.01
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD12	5	2.01
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD13	5	2.01
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD11	5	2.01
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD12	5	2.01
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD13	5	2.01
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD11	5	2.01
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD12	5	2.01
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD13	5	2.01
(3,1751)	1:131:A:MET:HE1	1:144:A:LEU:HD11	20	2.01
(3,1751)	1:131:A:MET:HE1	1:144:A:LEU:HD12	20	2.01
(3,1751)	1:131:A:MET:HE1	1:144:A:LEU:HD13	20	2.01
(3,1751)	1:131:A:MET:HE2	1:144:A:LEU:HD11	20	2.01
(3,1751)	1:131:A:MET:HE2	1:144:A:LEU:HD12	20	2.01
(3,1751)	1:131:A:MET:HE2	1:144:A:LEU:HD13	20	2.01
(3,1751)	1:131:A:MET:HE3	1:144:A:LEU:HD11	20	2.01
(3,1751)	1:131:A:MET:HE3	1:144:A:LEU:HD12	20	2.01
(3,1751)	1:131:A:MET:HE3	1:144:A:LEU:HD13	20	2.01
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD12	11	2.01
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG22	9	2.01
(3,1309)	1:28:A:ALA:HB3	1:31:A:VAL:HG13	15	2.01
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	13	2.01
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	13	2.01
(3,908)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	13	2.01
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG21	7	2.01
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG22	7	2.01
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG23	7	2.01
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG21	8	2.01
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG22	8	2.01
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG23	8	2.01
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG13	19	2.01
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG11	10	2.0
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG12	10	2.0
(3,2489)	1:7:A:VAL:H	1:143:A:VAL:HG13	10	2.0
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	3	2.0
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG23	11	2.0
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG23	17	2.0
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD13	11	2.0
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG13	20	2.0
(3,2205)	1:131:A:MET:HE1	1:144:A:LEU:HB3	20	1.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD11	10	1.99
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD12	10	1.99
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD13	10	1.99
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD11	10	1.99
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD12	10	1.99
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD13	10	1.99
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD11	10	1.99
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD12	10	1.99
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD13	10	1.99
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG23	1	1.99
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG21	4	1.99
(3,1057)	1:18:A:VAL:HG11	1:19:A:THR:HA	18	1.99
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG21	18	1.99
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG22	18	1.99
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG23	18	1.99
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	4	1.99
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	4	1.99
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	4	1.99
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	4	1.99
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG21	4	1.99
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG22	4	1.99
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG23	4	1.99
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG21	19	1.99
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG22	19	1.99
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG23	19	1.99
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	18	1.98
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	18	1.98
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	18	1.98
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	18	1.98
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	18	1.98
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	18	1.98
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	18	1.98
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	18	1.98
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	18	1.98
(3,1698)	1:32:A:GLN:HE21	1:48:A:ILE:HG22	16	1.98
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG21	8	1.98
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	2	1.98
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	2	1.98
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	2	1.98
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	5	1.98
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	5	1.98
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	5	1.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	7	1.98
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	7	1.98
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	7	1.98
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	14	1.98
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	14	1.98
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	14	1.98
(3,798)	1:135:A:PRO:HG3	1:136:A:ASP:HB2	16	1.98
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	15	1.98
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	5	1.98
(1,1834)	1:32:A:GLN:HE21	1:48:A:ILE:HG21	2	1.98
(1,1834)	1:32:A:GLN:HE21	1:48:A:ILE:HG22	15	1.98
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	11	1.98
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	11	1.98
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	11	1.98
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG11	10	1.98
(1,530)	1:3:A:LEU:HD23	1:51:A:ALA:H	16	1.98
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	10	1.97
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	10	1.97
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	10	1.97
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	5	1.97
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	10	1.97
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG21	6	1.97
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG22	6	1.97
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG23	6	1.97
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG11	10	1.97
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG23	2	1.96
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG22	10	1.96
(3,1253)	1:107:A:LEU:HD11	1:125:A:PHE:HA	13	1.96
(3,1253)	1:107:A:LEU:HD12	1:125:A:PHE:HA	18	1.96
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	8	1.96
(3,450)	1:99:A:TYR:HB2	1:110:A:ILE:HG12	13	1.96
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG12	14	1.96
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	18	1.96
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	18	1.96
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	18	1.96
(3,2479)	1:132:A:LEU:HD21	1:139:A:TYR:H	18	1.95
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG22	6	1.95
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG23	20	1.95
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG21	5	1.95
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG22	5	1.95
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG23	5	1.95
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG21	5	1.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG22	5	1.95
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG23	5	1.95
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG21	5	1.95
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG22	5	1.95
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG23	5	1.95
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	7	1.95
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	7	1.95
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	7	1.95
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG12	17	1.95
(3,2479)	1:132:A:LEU:HD23	1:139:A:TYR:H	2	1.94
(3,2205)	1:131:A:MET:HE1	1:145:A:ARG:HG2	19	1.94
(3,2093)	1:135:A:PRO:HA	1:144:A:LEU:HD21	11	1.94
(3,1875)	1:72:A:VAL:HG22	1:145:A:ARG:HD2	4	1.94
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG21	7	1.94
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG21	16	1.94
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG23	18	1.94
(3,1291)	1:101:A:VAL:HG13	1:110:A:ILE:HB	6	1.94
(3,692)	1:134:A:SER:HB3	1:137:A:LYS:HB3	6	1.94
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG21	18	1.94
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG22	18	1.94
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG23	18	1.94
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	4	1.93
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	4	1.93
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	4	1.93
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG13	18	1.93
(3,1786)	1:107:A:LEU:HD12	1:123:A:LYS:H	20	1.93
(3,1122)	1:57:A:VAL:HG22	1:58:A:THR:HB	9	1.93
(3,951)	1:67:A:LYS:HE2	1:71:A:LEU:HD11	6	1.93
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG21	7	1.93
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG22	7	1.93
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG23	7	1.93
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG21	10	1.93
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG22	10	1.93
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG23	10	1.93
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG21	13	1.92
(3,561)	1:15:A:TRP:HH2	1:74:A:VAL:HG13	17	1.92
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG21	12	1.92
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG22	12	1.92
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG23	12	1.92
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG11	2	1.92
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG12	4	1.91
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD11	9	1.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD12	9	1.91
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD13	9	1.91
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD11	9	1.91
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD12	9	1.91
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD13	9	1.91
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD11	9	1.91
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD12	9	1.91
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD13	9	1.91
(3,1698)	1:32:A:GLN:HE21	1:48:A:ILE:HG21	2	1.91
(3,1698)	1:32:A:GLN:HE21	1:48:A:ILE:HG22	15	1.91
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG12	6	1.91
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG11	17	1.91
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG12	17	1.91
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG13	17	1.91
(3,1025)	1:100:A:THR:HG21	1:102:A:LYS:HE3	14	1.91
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG21	2	1.91
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG22	2	1.91
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG23	2	1.91
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	2	1.91
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	2	1.91
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	2	1.91
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG21	4	1.91
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG22	4	1.91
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG23	4	1.91
(1,1495)	1:101:A:VAL:HG13	1:144:A:LEU:H	3	1.91
(1,1226)	1:121:A:TYR:H	1:124:A:ILE:HG21	16	1.91
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	17	1.9
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	17	1.9
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	17	1.9
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	17	1.9
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	17	1.9
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	17	1.9
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	17	1.9
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	17	1.9
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	17	1.9
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG13	19	1.9
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG12	14	1.9
(3,2479)	1:132:A:LEU:HD23	1:139:A:TYR:H	5	1.89
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	1	1.89
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	1	1.89
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	1	1.89
(3,2364)	1:46:A:VAL:HG12	1:47:A:ASN:HB2	7	1.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1985)	1:59:A:GLY:HA3	1:87:A:VAL:HG11	1	1.89
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG21	18	1.89
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG22	18	1.89
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG23	18	1.89
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	2	1.89
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	2	1.89
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	2	1.89
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	2	1.89
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	2	1.89
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	2	1.89
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	2	1.89
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	2	1.89
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	2	1.89
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	5	1.89
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	5	1.89
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	5	1.89
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG21	19	1.89
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG22	19	1.89
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG23	19	1.89
(3,450)	1:99:A:TYR:HB2	1:110:A:ILE:HG12	18	1.89
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD11	20	1.89
(1,1896)	1:102:A:LYS:HD2	1:113:A:GLN:HE22	4	1.89
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG12	18	1.89
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD23	18	1.88
(3,1786)	1:107:A:LEU:HD11	1:128:A:ASN:H	5	1.88
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG21	3	1.88
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	3	1.88
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	3	1.88
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	3	1.88
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	16	1.88
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	16	1.88
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	16	1.88
(3,939)	1:71:A:LEU:HD11	1:98:A:PHE:HZ	8	1.88
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	6	1.88
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	6	1.88
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	6	1.88
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	5	1.88
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG21	10	1.88
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG22	10	1.88
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG23	10	1.88
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	12	1.88
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG11	5	1.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2364)	1:46:A:VAL:HG13	1:47:A:ASN:HB2	17	1.87
(3,2205)	1:131:A:MET:HE1	1:145:A:ARG:HB2	3	1.87
(3,1777)	1:69:A:LYS:HG2	1:145:A:ARG:HD2	17	1.87
(3,1315)	1:6:A:PHE:HB3	1:143:A:VAL:HG11	5	1.87
(3,544)	1:107:A:LEU:HD22	1:121:A:TYR:HB2	8	1.87
(1,1226)	1:107:A:LEU:HD21	1:121:A:TYR:H	8	1.87
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG11	5	1.87
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG23	14	1.87
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG21	18	1.87
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	7	1.86
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	11	1.86
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	11	1.86
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	11	1.86
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	11	1.86
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	11	1.86
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	11	1.86
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	11	1.86
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	11	1.86
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	11	1.86
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	19	1.86
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	19	1.86
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	19	1.86
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	12	1.86
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG21	2	1.86
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG22	2	1.86
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG23	2	1.86
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	20	1.85
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG11	19	1.85
(3,1763)	1:32:A:GLN:HA	1:74:A:VAL:HG12	6	1.85
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	1	1.85
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	1	1.85
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	1	1.85
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	18	1.85
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	18	1.85
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	18	1.85
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	6	1.85
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	6	1.85
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	6	1.85
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	5	1.85
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	5	1.85
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	5	1.85
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG21	7	1.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG22	7	1.85
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG23	7	1.85
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	1	1.84
(3,1305)	1:31:A:VAL:HG21	1:77:A:ILE:HG12	10	1.84
(3,1305)	1:31:A:VAL:HG22	1:77:A:ILE:HG12	10	1.84
(3,1305)	1:31:A:VAL:HG23	1:77:A:ILE:HG12	10	1.84
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG11	7	1.84
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	11	1.84
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	11	1.84
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	11	1.84
(1,489)	1:48:A:ILE:H	1:50:A:ILE:HG13	14	1.84
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	13	1.83
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	18	1.83
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	16	1.83
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	16	1.83
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	16	1.83
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	16	1.83
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	16	1.83
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	16	1.83
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	16	1.83
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	16	1.83
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	16	1.83
(3,1423)	1:46:A:VAL:HG22	1:47:A:ASN:HB2	16	1.83
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG11	15	1.83
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG12	15	1.83
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG13	15	1.83
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	18	1.83
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG21	18	1.83
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG22	18	1.83
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG23	18	1.83
(3,54)	1:7:A:VAL:HG11	1:9:A:ASP:H	20	1.83
(3,54)	1:7:A:VAL:HG12	1:9:A:ASP:H	20	1.83
(3,54)	1:7:A:VAL:HG13	1:9:A:ASP:H	20	1.83
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG13	18	1.83
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG23	6	1.83
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG22	20	1.83
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG12	6	1.82
(3,2364)	1:46:A:VAL:HG13	1:47:A:ASN:HB2	15	1.82
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	4	1.82
(3,2303)	1:99:A:TYR:HB2	1:144:A:LEU:HD21	5	1.82
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	13	1.82
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	13	1.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	13	1.82
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	13	1.82
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	13	1.82
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	13	1.82
(3,54)	1:7:A:VAL:HG11	1:9:A:ASP:H	2	1.82
(3,54)	1:7:A:VAL:HG12	1:9:A:ASP:H	2	1.82
(3,54)	1:7:A:VAL:HG13	1:9:A:ASP:H	2	1.82
(1,1068)	1:101:A:VAL:HG21	1:105:A:ASP:H	18	1.82
(1,1068)	1:101:A:VAL:HG22	1:105:A:ASP:H	18	1.82
(1,1068)	1:101:A:VAL:HG23	1:105:A:ASP:H	18	1.82
(1,799)	1:73:A:ALA:H	1:83:A:VAL:HG11	2	1.82
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG12	8	1.82
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG11	15	1.82
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG11	17	1.82
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	2	1.81
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	9	1.81
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	11	1.81
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	19	1.81
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG12	2	1.81
(3,2012)	1:31:A:VAL:HG12	1:32:A:GLN:HG3	4	1.81
(3,1434)	1:132:A:LEU:HD13	1:138:A:ILE:H	7	1.81
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG21	5	1.81
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG21	5	1.81
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG22	5	1.81
(3,714)	1:98:A:PHE:HA	1:143:A:VAL:HG23	5	1.81
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	5	1.81
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	5	1.81
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	5	1.81
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	2	1.81
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	2	1.81
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	2	1.81
(3,481)	1:115:A:TYR:HA	1:146:A:ILE:HG21	13	1.81
(1,1583)	1:3:A:LEU:HD11	1:86:A:GLN:HE22	3	1.81
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG13	6	1.81
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	19	1.81
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	19	1.81
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	19	1.81
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	3	1.81
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	15	1.8
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	17	1.8
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	19	1.8
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	19	1.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	19	1.8
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	19	1.8
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	19	1.8
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	19	1.8
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	19	1.8
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	19	1.8
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	19	1.8
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD11	11	1.8
(3,1786)	1:107:A:LEU:HD13	1:128:A:ASN:H	6	1.8
(3,1305)	1:31:A:VAL:HG21	1:77:A:ILE:HG12	9	1.8
(3,1305)	1:31:A:VAL:HG22	1:77:A:ILE:HG12	9	1.8
(3,1305)	1:31:A:VAL:HG23	1:77:A:ILE:HG12	9	1.8
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	8	1.8
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	12	1.8
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	12	1.8
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	12	1.8
(3,450)	1:99:A:TYR:HB2	1:144:A:LEU:HD13	6	1.8
(1,1495)	1:132:A:LEU:HD12	1:144:A:LEU:H	7	1.8
(1,1246)	1:123:A:LYS:H	1:124:A:ILE:HG23	7	1.8
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG22	4	1.8
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG21	8	1.8
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	3	1.79
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	5	1.79
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG13	7	1.79
(3,2355)	1:128:A:ASN:HD21	1:144:A:LEU:HD12	6	1.79
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	7	1.79
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	7	1.79
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	7	1.79
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	7	1.79
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	7	1.79
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	7	1.79
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	7	1.79
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	7	1.79
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	7	1.79
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	20	1.79
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	20	1.79
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	20	1.79
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	20	1.79
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	20	1.79
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	20	1.79
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	20	1.79
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	20	1.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	20	1.79
(3,1309)	1:31:A:VAL:HG12	1:80:A:ILE:HG12	8	1.79
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	20	1.79
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	20	1.79
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	20	1.79
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	20	1.79
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	20	1.79
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	20	1.79
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	20	1.79
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	20	1.79
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	20	1.79
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	6	1.79
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	6	1.79
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	6	1.79
(3,708)	1:143:A:VAL:HG21	1:144:A:LEU:H	6	1.79
(1,1495)	1:132:A:LEU:HD12	1:144:A:LEU:H	14	1.79
(1,1200)	1:119:A:ASN:H	1:120:A:LEU:HG	8	1.79
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG11	15	1.79
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG12	9	1.79
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	4	1.78
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	10	1.78
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	4	1.78
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	4	1.78
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	4	1.78
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	4	1.78
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	4	1.78
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	4	1.78
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	4	1.78
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	4	1.78
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	4	1.78
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	6	1.78
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	6	1.78
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	6	1.78
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	6	1.78
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	6	1.78
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	6	1.78
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	6	1.78
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	6	1.78
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	6	1.78
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	11	1.78
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	11	1.78
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	11	1.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	11	1.78
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	11	1.78
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	11	1.78
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	11	1.78
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	11	1.78
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	11	1.78
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	14	1.78
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	14	1.78
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	14	1.78
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	14	1.78
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	14	1.78
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	14	1.78
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	14	1.78
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	14	1.78
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	14	1.78
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	9	1.78
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	9	1.78
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	9	1.78
(1,1246)	1:123:A:LYS:H	1:124:A:ILE:HG22	8	1.78
(1,1246)	1:123:A:LYS:H	1:124:A:ILE:HG21	12	1.78
(1,1097)	1:110:A:ILE:H	1:124:A:ILE:HG21	9	1.78
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG23	5	1.78
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG11	1	1.78
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	12	1.77
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	15	1.77
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	15	1.77
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	15	1.77
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	15	1.77
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	15	1.77
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	15	1.77
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	15	1.77
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	15	1.77
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	15	1.77
(3,2113)	1:107:A:LEU:HD11	1:135:A:PRO:HB3	20	1.77
(3,1309)	1:31:A:VAL:HG12	1:80:A:ILE:HG12	2	1.77
(1,998)	1:71:A:LEU:HD11	1:98:A:PHE:H	7	1.77
(3,2228)	1:132:A:LEU:HD13	1:144:A:LEU:HD13	2	1.76
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD13	4	1.76
(3,1309)	1:31:A:VAL:HG11	1:80:A:ILE:HG12	7	1.76
(3,1277)	1:101:A:VAL:HG11	1:143:A:VAL:HA	9	1.76
(3,1277)	1:101:A:VAL:HG12	1:143:A:VAL:HA	9	1.76
(3,1277)	1:101:A:VAL:HG13	1:143:A:VAL:HA	9	1.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	7	1.76
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	7	1.76
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	7	1.76
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	3	1.76
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	3	1.76
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	3	1.76
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	20	1.76
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	20	1.76
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	20	1.76
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG23	4	1.76
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	8	1.75
(3,2479)	1:132:A:LEU:HD21	1:139:A:TYR:H	15	1.75
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD11	6	1.75
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD12	6	1.75
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD13	6	1.75
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD11	6	1.75
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD12	6	1.75
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD13	6	1.75
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD11	6	1.75
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD12	6	1.75
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD13	6	1.75
(3,1305)	1:31:A:VAL:HG21	1:77:A:ILE:HG12	6	1.75
(3,1305)	1:31:A:VAL:HG22	1:77:A:ILE:HG12	6	1.75
(3,1305)	1:31:A:VAL:HG23	1:77:A:ILE:HG12	6	1.75
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG11	14	1.75
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG12	14	1.75
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG13	14	1.75
(3,1025)	1:100:A:THR:HG21	1:102:A:LYS:HE3	7	1.75
(3,893)	1:67:A:LYS:HB3	1:87:A:VAL:HG22	7	1.75
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	2	1.75
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	2	1.75
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	2	1.75
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG21	2	1.75
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG22	2	1.75
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG23	2	1.75
(1,1849)	1:101:A:VAL:HG23	1:106:A:THR:H	7	1.75
(1,1246)	1:123:A:LYS:H	1:124:A:ILE:HG22	20	1.75
(1,998)	1:71:A:LEU:HD11	1:98:A:PHE:H	14	1.75
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	15	1.75
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	15	1.75
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	15	1.75
(1,141)	1:12:A:GLU:H	1:142:A:GLN:HG3	12	1.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	14	1.74
(3,481)	1:115:A:TYR:HA	1:146:A:ILE:HG21	2	1.74
(1,1896)	1:112:A:LYS:HD2	1:113:A:GLN:HE22	16	1.74
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	8	1.74
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HD3	4	1.74
(1,1583)	1:3:A:LEU:HD13	1:86:A:GLN:HE22	18	1.74
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG21	3	1.73
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG22	3	1.73
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG23	3	1.73
(3,1274)	1:101:A:VAL:HG12	1:105:A:ASP:HA	2	1.73
(3,1122)	1:57:A:VAL:HG11	1:58:A:THR:HB	10	1.73
(3,1122)	1:57:A:VAL:HG11	1:58:A:THR:HB	17	1.73
(3,1025)	1:100:A:THR:HG21	1:102:A:LYS:HE3	5	1.73
(3,708)	1:143:A:VAL:HG21	1:144:A:LEU:H	8	1.73
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	7	1.73
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	7	1.73
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	7	1.73
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	11	1.73
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	11	1.73
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	11	1.73
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	4	1.73
(3,544)	1:3:A:LEU:HD21	1:54:A:LYS:HE2	1	1.73
(3,361)	1:20:A:GLY:H	1:21:A:GLN:HB3	20	1.73
(1,1822)	1:32:A:GLN:HE22	1:46:A:VAL:HG11	10	1.73
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	3	1.73
(1,1246)	1:123:A:LYS:H	1:124:A:ILE:HG21	1	1.73
(1,998)	1:72:A:VAL:HG21	1:98:A:PHE:H	10	1.73
(1,837)	1:8:A:LYS:HG2	1:77:A:ILE:H	6	1.73
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG12	8	1.72
(3,1786)	1:107:A:LEU:HD13	1:123:A:LYS:H	15	1.72
(3,1753)	1:14:A:LEU:HD23	1:33:A:GLU:HB3	18	1.72
(3,1751)	1:131:A:MET:HE1	1:144:A:LEU:HD11	6	1.72
(3,1751)	1:131:A:MET:HE1	1:144:A:LEU:HD12	6	1.72
(3,1751)	1:131:A:MET:HE1	1:144:A:LEU:HD13	6	1.72
(3,1751)	1:131:A:MET:HE2	1:144:A:LEU:HD11	6	1.72
(3,1751)	1:131:A:MET:HE2	1:144:A:LEU:HD12	6	1.72
(3,1751)	1:131:A:MET:HE2	1:144:A:LEU:HD13	6	1.72
(3,1751)	1:131:A:MET:HE3	1:144:A:LEU:HD11	6	1.72
(3,1751)	1:131:A:MET:HE3	1:144:A:LEU:HD12	6	1.72
(3,1751)	1:131:A:MET:HE3	1:144:A:LEU:HD13	6	1.72
(3,1751)	1:131:A:MET:HE1	1:144:A:LEU:HD11	11	1.72
(3,1751)	1:131:A:MET:HE1	1:144:A:LEU:HD12	11	1.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1751)	1:131:A:MET:HE1	1:144:A:LEU:HD13	11	1.72
(3,1751)	1:131:A:MET:HE2	1:144:A:LEU:HD11	11	1.72
(3,1751)	1:131:A:MET:HE2	1:144:A:LEU:HD12	11	1.72
(3,1751)	1:131:A:MET:HE2	1:144:A:LEU:HD13	11	1.72
(3,1751)	1:131:A:MET:HE3	1:144:A:LEU:HD11	11	1.72
(3,1751)	1:131:A:MET:HE3	1:144:A:LEU:HD12	11	1.72
(3,1751)	1:131:A:MET:HE3	1:144:A:LEU:HD13	11	1.72
(3,1309)	1:3:A:LEU:HG	1:83:A:VAL:HG12	11	1.72
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG21	6	1.72
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG22	6	1.72
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG23	6	1.72
(3,1025)	1:100:A:THR:HG23	1:102:A:LYS:HE3	13	1.72
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	10	1.72
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	10	1.72
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	10	1.72
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	13	1.72
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	13	1.72
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	13	1.72
(3,142)	1:107:A:LEU:HD13	1:110:A:ILE:HD13	15	1.72
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD21	6	1.72
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	6	1.72
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD23	6	1.72
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD21	6	1.72
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD22	6	1.72
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD23	6	1.72
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG21	5	1.72
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG22	5	1.72
(1,997)	1:98:A:PHE:H	1:143:A:VAL:HG23	5	1.72
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG12	1	1.72
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG12	5	1.71
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG11	12	1.71
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	10	1.71
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	10	1.71
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	10	1.71
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	10	1.71
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	10	1.71
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	10	1.71
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	10	1.71
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	10	1.71
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	10	1.71
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	17	1.71
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	17	1.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	17	1.71
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	17	1.71
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	17	1.71
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	17	1.71
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	17	1.71
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	17	1.71
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	17	1.71
(3,1274)	1:101:A:VAL:HG13	1:105:A:ASP:HA	18	1.71
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	2	1.71
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	2	1.71
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	2	1.71
(3,934)	1:14:A:LEU:HD13	1:35:A:LEU:H	2	1.71
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	4	1.71
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	4	1.71
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	4	1.71
(1,1246)	1:123:A:LYS:H	1:124:A:ILE:HG23	16	1.71
(1,117)	1:10:A:ALA:H	1:143:A:VAL:HG13	3	1.71
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG21	10	1.71
(3,2363)	1:8:A:LYS:HE2	1:50:A:ILE:HG23	10	1.7
(3,1985)	1:59:A:GLY:HA3	1:87:A:VAL:HG12	12	1.7
(3,1423)	1:46:A:VAL:HG21	1:47:A:ASN:HB2	5	1.7
(3,948)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	9	1.7
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	6	1.7
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	6	1.7
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	6	1.7
(3,708)	1:143:A:VAL:HG21	1:144:A:LEU:H	14	1.7
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	1	1.7
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	1	1.7
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	1	1.7
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	16	1.7
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	16	1.7
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	16	1.7
(3,481)	1:115:A:TYR:HA	1:146:A:ILE:HG22	18	1.7
(1,1200)	1:119:A:ASN:H	1:120:A:LEU:HG	16	1.7
(1,1097)	1:110:A:ILE:H	1:124:A:ILE:HG23	5	1.7
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG21	15	1.7
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG12	11	1.69
(3,2034)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	18	1.69
(3,2034)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	18	1.69
(3,2034)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	18	1.69
(3,1309)	1:31:A:VAL:HG11	1:80:A:ILE:HG12	14	1.69
(3,1274)	1:101:A:VAL:HG11	1:106:A:THR:HA	10	1.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	12	1.69
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	12	1.69
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	12	1.69
(3,708)	1:143:A:VAL:HG22	1:144:A:LEU:H	10	1.69
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	18	1.69
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	18	1.69
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	18	1.69
(1,1202)	1:119:A:ASN:H	1:156:A:HIS:HB3	9	1.69
(1,1097)	1:110:A:ILE:H	1:124:A:ILE:HG22	10	1.69
(1,976)	1:87:A:VAL:HG21	1:89:A:THR:H	6	1.69
(1,976)	1:87:A:VAL:HG22	1:89:A:THR:H	6	1.69
(1,976)	1:87:A:VAL:HG23	1:89:A:THR:H	6	1.69
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	6	1.68
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG21	18	1.68
(3,1355)	1:48:A:ILE:HG23	1:49:A:GLN:HG2	2	1.68
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	13	1.68
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	13	1.68
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	13	1.68
(3,1274)	1:101:A:VAL:HG13	1:105:A:ASP:HA	7	1.68
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	16	1.68
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	16	1.68
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	16	1.68
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	16	1.68
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	16	1.68
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	16	1.68
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	16	1.68
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	16	1.68
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	16	1.68
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	5	1.68
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	5	1.68
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	5	1.68
(3,708)	1:143:A:VAL:HG22	1:144:A:LEU:H	4	1.68
(3,708)	1:143:A:VAL:HG21	1:144:A:LEU:H	19	1.68
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	4	1.68
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	4	1.68
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	4	1.68
(3,165)	1:133:A:LYS:HA	1:133:A:LYS:HD3	12	1.68
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD21	4	1.68
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	4	1.68
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD23	4	1.68
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD21	4	1.68
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD22	4	1.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD23	4	1.68
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD21	5	1.68
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	5	1.68
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD23	5	1.68
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD21	5	1.68
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD22	5	1.68
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD23	5	1.68
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	7	1.68
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	7	1.68
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	7	1.68
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG22	8	1.68
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG12	5	1.68
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG13	8	1.68
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD13	5	1.67
(3,1875)	1:72:A:VAL:HG22	1:76:A:ASN:HB2	10	1.67
(3,934)	1:14:A:LEU:HD12	1:31:A:VAL:H	9	1.67
(3,708)	1:143:A:VAL:HG21	1:144:A:LEU:H	11	1.67
(1,1200)	1:119:A:ASN:H	1:120:A:LEU:HG	14	1.67
(1,837)	1:14:A:LEU:HB2	1:77:A:ILE:H	5	1.67
(1,837)	1:8:A:LYS:HG2	1:77:A:ILE:H	9	1.67
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD12	16	1.66
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	8	1.66
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	8	1.66
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	8	1.66
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	8	1.66
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	8	1.66
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	8	1.66
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	8	1.66
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	8	1.66
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	8	1.66
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	12	1.66
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	12	1.66
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	12	1.66
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	12	1.66
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	12	1.66
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	12	1.66
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	12	1.66
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	12	1.66
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	12	1.66
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	14	1.66
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	14	1.66
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	14	1.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	14	1.66
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	14	1.66
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	14	1.66
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	14	1.66
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	14	1.66
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	14	1.66
(3,1675)	1:49:A:GLN:HA	1:50:A:ILE:HG22	5	1.66
(3,1423)	1:46:A:VAL:HG22	1:47:A:ASN:HB2	6	1.66
(3,1309)	1:28:A:ALA:HB1	1:31:A:VAL:HG13	1	1.66
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG11	16	1.66
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG12	16	1.66
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG13	16	1.66
(3,934)	1:14:A:LEU:HD12	1:35:A:LEU:H	16	1.66
(3,708)	1:143:A:VAL:HG23	1:144:A:LEU:H	5	1.66
(1,976)	1:87:A:VAL:HG21	1:89:A:THR:H	13	1.66
(1,976)	1:87:A:VAL:HG22	1:89:A:THR:H	13	1.66
(1,976)	1:87:A:VAL:HG23	1:89:A:THR:H	13	1.66
(1,919)	1:3:A:LEU:HD22	1:84:A:ASP:H	14	1.66
(1,797)	1:43:A:ALA:HB3	1:73:A:ALA:H	4	1.66
(1,797)	1:43:A:ALA:HB1	1:73:A:ALA:H	12	1.66
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	4	1.66
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	4	1.66
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	4	1.66
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG22	6	1.66
(1,77)	1:3:A:LEU:HD11	1:6:A:PHE:H	2	1.66
(3,2623)	1:61:A:GLY:HA3	1:90:A:ALA:HA	16	1.65
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG11	14	1.65
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG21	5	1.65
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG22	5	1.65
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG23	5	1.65
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG21	10	1.65
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG22	10	1.65
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG23	10	1.65
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	19	1.65
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	15	1.65
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG21	2	1.65
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG21	5	1.65
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG22	5	1.65
(3,524)	1:98:A:PHE:HA	1:143:A:VAL:HG23	5	1.65
(3,361)	1:20:A:GLY:H	1:21:A:GLN:HB3	6	1.65
(1,1200)	1:119:A:ASN:H	1:120:A:LEU:HG	10	1.65
(1,976)	1:87:A:VAL:HG21	1:89:A:THR:H	4	1.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,976)	1:87:A:VAL:HG22	1:89:A:THR:H	4	1.65
(1,976)	1:87:A:VAL:HG23	1:89:A:THR:H	4	1.65
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	13	1.65
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG21	4	1.65
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG22	9	1.65
(3,2417)	1:99:A:TYR:HB2	1:143:A:VAL:HG13	10	1.64
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	2	1.64
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	2	1.64
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	2	1.64
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	2	1.64
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	2	1.64
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	2	1.64
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	2	1.64
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	2	1.64
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	2	1.64
(3,1746)	1:65:A:GLU:HG3	1:94:A:THR:HG21	18	1.64
(3,1324)	1:6:A:PHE:HE1	1:83:A:VAL:HG21	11	1.64
(3,708)	1:143:A:VAL:HG22	1:144:A:LEU:H	2	1.64
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	14	1.64
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	14	1.64
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	14	1.64
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	9	1.64
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	1	1.64
(1,1200)	1:119:A:ASN:H	1:120:A:LEU:HG	9	1.64
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG12	20	1.64
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG21	20	1.63
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG22	13	1.63
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	14	1.63
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	14	1.63
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	14	1.63
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	8	1.63
(3,934)	1:14:A:LEU:HD12	1:35:A:LEU:H	6	1.63
(3,893)	1:67:A:LYS:HB3	1:71:A:LEU:HD12	6	1.63
(3,708)	1:143:A:VAL:HG21	1:144:A:LEU:H	18	1.63
(3,544)	1:3:A:LEU:HD21	1:54:A:LYS:HE3	16	1.63
(1,1849)	1:101:A:VAL:HG23	1:106:A:THR:H	5	1.63
(1,1097)	1:110:A:ILE:H	1:124:A:ILE:HG22	6	1.63
(1,1023)	1:100:A:THR:H	1:146:A:ILE:HG13	1	1.63
(1,837)	1:14:A:LEU:HB2	1:77:A:ILE:H	10	1.63
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	6	1.63
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	6	1.63
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	6	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	16	1.63
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	16	1.63
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	16	1.63
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD13	4	1.62
(3,2228)	1:132:A:LEU:HD12	1:144:A:LEU:HD12	15	1.62
(3,1777)	1:69:A:LYS:HG2	1:145:A:ARG:HD2	12	1.62
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG21	6	1.62
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG22	6	1.62
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG23	6	1.62
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG21	6	1.62
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG22	6	1.62
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG23	6	1.62
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG21	6	1.62
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG22	6	1.62
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG23	6	1.62
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	18	1.62
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	18	1.62
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	18	1.62
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	18	1.62
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	18	1.62
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	18	1.62
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	18	1.62
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	18	1.62
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	18	1.62
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	10	1.62
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	10	1.62
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	10	1.62
(1,141)	1:12:A:GLU:H	1:142:A:GLN:HG2	19	1.62
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG21	2	1.62
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG23	7	1.62
(3,2184)	1:127:A:ALA:HB2	1:147:A:PRO:HB2	4	1.61
(3,2034)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	1	1.61
(3,2034)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	1	1.61
(3,2034)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	1	1.61
(3,1875)	1:72:A:VAL:HG22	1:145:A:ARG:HD2	15	1.61
(3,1423)	1:46:A:VAL:HG23	1:47:A:ASN:HB2	4	1.61
(3,1401)	1:29:A:LYS:HG3	1:33:A:GLU:HB2	13	1.61
(3,1274)	1:101:A:VAL:HG11	1:105:A:ASP:HA	11	1.61
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG21	9	1.61
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG22	9	1.61
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG23	9	1.61
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG21	9	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG22	9	1.61
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG23	9	1.61
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG21	9	1.61
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG22	9	1.61
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG23	9	1.61
(3,939)	1:71:A:LEU:HD12	1:98:A:PHE:HZ	15	1.61
(3,708)	1:143:A:VAL:HG22	1:144:A:LEU:H	7	1.61
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	6	1.61
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD21	13	1.61
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD22	13	1.61
(3,633)	1:115:A:TYR:HB2	1:120:A:LEU:HD23	13	1.61
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD21	7	1.61
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	7	1.61
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD23	7	1.61
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD21	7	1.61
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD22	7	1.61
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD23	7	1.61
(1,1849)	1:101:A:VAL:HG23	1:106:A:THR:H	14	1.61
(1,797)	1:43:A:ALA:HB3	1:73:A:ALA:H	6	1.61
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	14	1.61
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	14	1.61
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	14	1.61
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG23	11	1.61
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	5	1.6
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	5	1.6
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	5	1.6
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	5	1.6
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	5	1.6
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	5	1.6
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	5	1.6
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	5	1.6
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	5	1.6
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	16	1.6
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD13	6	1.6
(3,1401)	1:113:A:GLN:HB2	1:114:A:VAL:HB	15	1.6
(3,1133)	1:107:A:LEU:HA	1:107:A:LEU:HD21	13	1.6
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	14	1.6
(3,948)	1:107:A:LEU:HD13	1:125:A:PHE:HB3	6	1.6
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	10	1.6
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	10	1.6
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	10	1.6
(3,708)	1:143:A:VAL:HG22	1:144:A:LEU:H	12	1.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	3	1.6
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	19	1.6
(3,142)	1:107:A:LEU:HD12	1:110:A:ILE:HD11	19	1.6
(1,1593)	1:64:A:GLN:HE21	1:145:A:ARG:HB3	18	1.6
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	20	1.6
(1,1246)	1:107:A:LEU:HD23	1:123:A:LYS:H	4	1.6
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	20	1.6
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	20	1.6
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	20	1.6
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG21	12	1.6
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	1	1.59
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	1	1.59
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	1	1.59
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	1	1.59
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	1	1.59
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	1	1.59
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	1	1.59
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	1	1.59
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	1	1.59
(3,1794)	1:107:A:LEU:HD11	1:135:A:PRO:HA	8	1.59
(3,1794)	1:107:A:LEU:HD12	1:135:A:PRO:HA	8	1.59
(3,1794)	1:107:A:LEU:HD13	1:135:A:PRO:HA	8	1.59
(3,1786)	1:107:A:LEU:HD12	1:128:A:ASN:H	2	1.59
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD12	6	1.59
(3,1401)	1:113:A:GLN:HB2	1:114:A:VAL:HB	20	1.59
(3,1355)	1:49:A:GLN:HG2	1:50:A:ILE:HD13	15	1.59
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	10	1.59
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	10	1.59
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	10	1.59
(3,1025)	1:100:A:THR:HG21	1:102:A:LYS:HE3	3	1.59
(3,947)	1:107:A:LEU:HD11	1:135:A:PRO:HA	8	1.59
(3,947)	1:107:A:LEU:HD12	1:135:A:PRO:HA	8	1.59
(3,947)	1:107:A:LEU:HD13	1:135:A:PRO:HA	8	1.59
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	6	1.59
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	6	1.59
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	6	1.59
(3,481)	1:115:A:TYR:HA	1:146:A:ILE:HG23	5	1.59
(3,54)	1:7:A:VAL:HG11	1:9:A:ASP:H	17	1.59
(3,54)	1:7:A:VAL:HG12	1:9:A:ASP:H	17	1.59
(3,54)	1:7:A:VAL:HG13	1:9:A:ASP:H	17	1.59
(1,1849)	1:101:A:VAL:HG22	1:106:A:THR:H	9	1.59
(1,976)	1:87:A:VAL:HG21	1:89:A:THR:H	9	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,976)	1:87:A:VAL:HG22	1:89:A:THR:H	9	1.59
(1,976)	1:87:A:VAL:HG23	1:89:A:THR:H	9	1.59
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG13	8	1.59
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG22	19	1.59
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG21	2	1.59
(3,2363)	1:8:A:LYS:HE2	1:50:A:ILE:HG21	8	1.58
(3,2335)	1:67:A:LYS:HE3	1:68:A:GLU:HG3	6	1.58
(3,1752)	1:14:A:LEU:HD22	1:30:A:LYS:HB2	8	1.58
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	1	1.58
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	1	1.58
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	1	1.58
(3,1122)	1:57:A:VAL:HG22	1:58:A:THR:HB	5	1.58
(3,1122)	1:57:A:VAL:HG11	1:58:A:THR:HB	6	1.58
(3,952)	1:71:A:LEU:HD11	1:85:A:ASP:HB3	4	1.58
(3,934)	1:14:A:LEU:HD11	1:35:A:LEU:H	20	1.58
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	17	1.58
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	20	1.58
(1,1849)	1:101:A:VAL:HG21	1:106:A:THR:H	11	1.58
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG22	3	1.58
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG22	14	1.58
(1,77)	1:3:A:LEU:HD11	1:6:A:PHE:H	10	1.58
(3,2228)	1:132:A:LEU:HD11	1:144:A:LEU:HD13	18	1.57
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD12	1	1.57
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD13	1	1.57
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD12	13	1.57
(3,1325)	1:72:A:VAL:HG12	1:98:A:PHE:HE2	12	1.57
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG11	20	1.57
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG12	20	1.57
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG13	20	1.57
(3,948)	1:107:A:LEU:HD11	1:125:A:PHE:HB3	5	1.57
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	17	1.57
(1,1849)	1:101:A:VAL:HG21	1:106:A:THR:H	10	1.57
(1,1023)	1:100:A:THR:H	1:146:A:ILE:HG13	7	1.57
(3,2363)	1:50:A:ILE:HG21	1:52:A:ASP:HB3	18	1.56
(3,1746)	1:65:A:GLU:HG3	1:94:A:THR:HG22	2	1.56
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG21	10	1.56
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG22	10	1.56
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG23	10	1.56
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD11	12	1.56
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD12	12	1.56
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD13	12	1.56
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD11	18	1.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD12	18	1.56
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD13	18	1.56
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD11	20	1.56
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD12	20	1.56
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD13	20	1.56
(3,1122)	1:57:A:VAL:HG13	1:58:A:THR:HB	4	1.56
(3,934)	1:14:A:LEU:HD13	1:35:A:LEU:H	11	1.56
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	5	1.56
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	11	1.56
(1,1593)	1:64:A:GLN:HE21	1:145:A:ARG:HB3	6	1.56
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	15	1.56
(1,530)	1:3:A:LEU:HD22	1:51:A:ALA:H	13	1.56
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG23	12	1.56
(3,2451)	1:7:A:VAL:HA	1:81:A:ALA:HB3	17	1.55
(3,1912)	1:12:A:GLU:HG2	1:77:A:ILE:HD11	16	1.55
(3,1777)	1:69:A:LYS:HG2	1:145:A:ARG:HD2	15	1.55
(3,1746)	1:65:A:GLU:HG3	1:94:A:THR:HG22	11	1.55
(3,1743)	1:47:A:ASN:HB3	1:58:A:THR:HG21	2	1.55
(3,1355)	1:48:A:ILE:HG22	1:49:A:GLN:HG3	1	1.55
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD11	4	1.55
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD12	4	1.55
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD13	4	1.55
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD11	13	1.55
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD12	13	1.55
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD13	13	1.55
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	3	1.55
(3,934)	1:14:A:LEU:HD13	1:35:A:LEU:H	14	1.55
(3,659)	1:129:A:LYS:HE2	1:130:A:PRO:HA	2	1.55
(3,242)	1:29:A:LYS:HE3	1:30:A:LYS:H	17	1.55
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD21	18	1.55
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	18	1.55
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD23	18	1.55
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD21	18	1.55
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD22	18	1.55
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD23	18	1.55
(3,54)	1:7:A:VAL:HG11	1:9:A:ASP:H	1	1.55
(3,54)	1:7:A:VAL:HG12	1:9:A:ASP:H	1	1.55
(3,54)	1:7:A:VAL:HG13	1:9:A:ASP:H	1	1.55
(1,1849)	1:101:A:VAL:HG21	1:106:A:THR:H	2	1.55
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HD3	5	1.55
(1,1539)	1:43:A:ALA:HB1	1:47:A:ASN:HD21	13	1.55
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	14	1.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB2	12	1.55
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE2	5	1.55
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG22	1	1.55
(1,117)	1:10:A:ALA:H	1:143:A:VAL:HG13	9	1.55
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG23	10	1.55
(3,2451)	1:7:A:VAL:HA	1:81:A:ALA:HB2	5	1.54
(3,2113)	1:107:A:LEU:HD13	1:135:A:PRO:HB3	16	1.54
(3,1996)	1:46:A:VAL:HG23	1:57:A:VAL:HA	4	1.54
(3,1423)	1:47:A:ASN:HB2	1:48:A:ILE:HD12	9	1.54
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD11	3	1.54
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD12	3	1.54
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD13	3	1.54
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD11	7	1.54
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD12	7	1.54
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD13	7	1.54
(3,1274)	1:101:A:VAL:HG13	1:106:A:THR:HA	14	1.54
(3,948)	1:125:A:PHE:HB3	1:132:A:LEU:HD12	10	1.54
(3,334)	1:115:A:TYR:HD2	1:123:A:LYS:HD3	8	1.54
(1,1849)	1:101:A:VAL:HG23	1:106:A:THR:H	18	1.54
(1,1097)	1:107:A:LEU:HD23	1:110:A:ILE:H	20	1.54
(1,1023)	1:100:A:THR:H	1:146:A:ILE:HG13	4	1.54
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG13	7	1.54
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	17	1.54
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	17	1.54
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	17	1.54
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG22	15	1.54
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG21	13	1.54
(3,2184)	1:127:A:ALA:HB1	1:147:A:PRO:HB2	20	1.53
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD11	1	1.53
(3,1355)	1:49:A:GLN:HG2	1:50:A:ILE:HD13	8	1.53
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG21	4	1.53
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG22	4	1.53
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG23	4	1.53
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG21	13	1.53
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG22	13	1.53
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG23	13	1.53
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD11	2	1.53
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD12	2	1.53
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD13	2	1.53
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD11	6	1.53
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD12	6	1.53
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD13	6	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1274)	1:101:A:VAL:HG13	1:106:A:THR:HA	1	1.53
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG21	10	1.53
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG22	10	1.53
(3,1271)	1:31:A:VAL:HG21	1:77:A:ILE:HG23	10	1.53
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG21	10	1.53
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG22	10	1.53
(3,1271)	1:31:A:VAL:HG22	1:77:A:ILE:HG23	10	1.53
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG21	10	1.53
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG22	10	1.53
(3,1271)	1:31:A:VAL:HG23	1:77:A:ILE:HG23	10	1.53
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	10	1.53
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	18	1.53
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	6	1.53
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	12	1.53
(1,1200)	1:119:A:ASN:H	1:120:A:LEU:HG	1	1.53
(1,1200)	1:119:A:ASN:H	1:120:A:LEU:HG	17	1.53
(1,1023)	1:100:A:THR:H	1:146:A:ILE:HG13	5	1.53
(1,998)	1:72:A:VAL:HG23	1:98:A:PHE:H	18	1.53
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG21	15	1.53
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG22	8	1.53
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG23	16	1.53
(3,2485)	1:57:A:VAL:HG11	1:87:A:VAL:HB	18	1.52
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD21	6	1.52
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD22	6	1.52
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD23	6	1.52
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD21	20	1.52
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD22	20	1.52
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD23	20	1.52
(3,2320)	1:107:A:LEU:HA	1:146:A:ILE:HD13	13	1.52
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD12	8	1.52
(3,2113)	1:107:A:LEU:HD11	1:135:A:PRO:HB3	10	1.52
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG22	15	1.52
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD11	5	1.52
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD12	5	1.52
(3,1283)	1:120:A:LEU:HA	1:120:A:LEU:HD13	5	1.52
(3,1274)	1:101:A:VAL:HG11	1:105:A:ASP:HA	3	1.52
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	17	1.52
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	17	1.52
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	17	1.52
(3,934)	1:14:A:LEU:HD11	1:35:A:LEU:H	17	1.52
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD21	12	1.52
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	12	1.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	12	1.52
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD21	12	1.52
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	12	1.52
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	12	1.52
(3,433)	1:99:A:TYR:HD1	1:146:A:ILE:HG13	1	1.52
(1,1583)	1:3:A:LEU:HD12	1:86:A:GLN:HE22	10	1.52
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	7	1.52
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	12	1.52
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	12	1.52
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	12	1.52
(1,117)	1:10:A:ALA:H	1:143:A:VAL:HG12	13	1.52
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG21	19	1.52
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG22	7	1.52
(3,2451)	1:7:A:VAL:HA	1:81:A:ALA:HB1	6	1.51
(3,1996)	1:46:A:VAL:HG21	1:57:A:VAL:HA	10	1.51
(3,1996)	1:46:A:VAL:HG21	1:48:A:ILE:HA	18	1.51
(3,1440)	1:71:A:LEU:HA	1:71:A:LEU:HD11	4	1.51
(3,1440)	1:71:A:LEU:HA	1:71:A:LEU:HD11	13	1.51
(3,1437)	1:62:A:LEU:HD12	1:89:A:THR:HA	12	1.51
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	18	1.51
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	18	1.51
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	18	1.51
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD11	11	1.51
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD12	11	1.51
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD13	11	1.51
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD11	11	1.51
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD12	11	1.51
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD13	11	1.51
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	8	1.51
(3,631)	1:136:A:ASP:HB2	1:137:A:LYS:HD2	7	1.51
(3,481)	1:115:A:TYR:HA	1:146:A:ILE:HG21	3	1.51
(3,229)	1:18:A:VAL:HG13	1:19:A:THR:H	13	1.51
(1,1540)	1:46:A:VAL:HG23	1:47:A:ASN:HD22	1	1.51
(1,1023)	1:100:A:THR:H	1:146:A:ILE:HG13	3	1.51
(1,998)	1:72:A:VAL:HG21	1:98:A:PHE:H	11	1.51
(1,797)	1:43:A:ALA:HB1	1:73:A:ALA:H	2	1.51
(1,489)	1:48:A:ILE:H	1:50:A:ILE:HG13	19	1.51
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	18	1.51
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG23	18	1.51
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD21	10	1.5
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD22	10	1.5
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD23	10	1.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2363)	1:50:A:ILE:HG22	1:52:A:ASP:HB3	15	1.5
(3,2034)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	15	1.5
(3,2034)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	15	1.5
(3,2034)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	15	1.5
(3,1753)	1:14:A:LEU:HD23	1:33:A:GLU:HB3	15	1.5
(3,1738)	1:14:A:LEU:HD21	1:34:A:HIS:HE1	12	1.5
(3,1274)	1:101:A:VAL:HG13	1:105:A:ASP:HA	5	1.5
(3,914)	1:120:A:LEU:HD22	1:123:A:LYS:HB2	3	1.5
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	3	1.5
(3,481)	1:115:A:TYR:HA	1:146:A:ILE:HG21	7	1.5
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	16	1.5
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD21	2	1.5
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	2	1.5
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD23	2	1.5
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD21	2	1.5
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD22	2	1.5
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD23	2	1.5
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD21	12	1.5
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	12	1.5
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD23	12	1.5
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD21	12	1.5
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD22	12	1.5
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD23	12	1.5
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD21	20	1.5
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	20	1.5
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD23	20	1.5
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD21	20	1.5
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD22	20	1.5
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD23	20	1.5
(1,1896)	1:102:A:LYS:HD2	1:113:A:GLN:HE22	9	1.5
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	18	1.5
(1,919)	1:48:A:ILE:HG21	1:84:A:ASP:H	3	1.5
(1,797)	1:43:A:ALA:HB1	1:73:A:ALA:H	8	1.5
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG21	6	1.5
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG21	5	1.49
(3,1753)	1:14:A:LEU:HD23	1:33:A:GLU:HB3	7	1.49
(3,1743)	1:47:A:ASN:HB3	1:58:A:THR:HG22	14	1.49
(3,1401)	1:113:A:GLN:HB2	1:114:A:VAL:HB	2	1.49
(3,1291)	1:101:A:VAL:HG13	1:110:A:ILE:HB	12	1.49
(3,934)	1:14:A:LEU:HD11	1:31:A:VAL:H	12	1.49
(3,916)	1:15:A:TRP:HE3	1:21:A:GLN:HB3	11	1.49
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	4	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	16	1.49
(1,1896)	1:102:A:LYS:HD2	1:113:A:GLN:HE22	1	1.49
(1,1633)	1:117:A:ASN:HD21	1:119:A:ASN:HB3	15	1.49
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	9	1.49
(1,976)	1:87:A:VAL:HG21	1:89:A:THR:H	3	1.49
(1,976)	1:87:A:VAL:HG22	1:89:A:THR:H	3	1.49
(1,976)	1:87:A:VAL:HG23	1:89:A:THR:H	3	1.49
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG11	20	1.49
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD21	5	1.48
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD22	5	1.48
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD23	5	1.48
(3,2368)	1:122:A:ASN:H	1:126:A:GLU:HG3	2	1.48
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD12	13	1.48
(3,2113)	1:107:A:LEU:HD13	1:135:A:PRO:HB3	7	1.48
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	18	1.48
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	18	1.48
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	18	1.48
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	20	1.48
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	20	1.48
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	20	1.48
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	12	1.48
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	12	1.48
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	12	1.48
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	18	1.48
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	18	1.48
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	18	1.48
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	10	1.48
(3,54)	1:7:A:VAL:HG11	1:9:A:ASP:H	5	1.48
(3,54)	1:7:A:VAL:HG12	1:9:A:ASP:H	5	1.48
(3,54)	1:7:A:VAL:HG13	1:9:A:ASP:H	5	1.48
(3,54)	1:7:A:VAL:HG11	1:9:A:ASP:H	8	1.48
(3,54)	1:7:A:VAL:HG12	1:9:A:ASP:H	8	1.48
(3,54)	1:7:A:VAL:HG13	1:9:A:ASP:H	8	1.48
(1,1593)	1:64:A:GLN:HE21	1:145:A:ARG:HB3	13	1.48
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG21	8	1.48
(1,890)	1:53:A:GLY:HA3	1:80:A:ILE:H	12	1.48
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	8	1.48
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	8	1.48
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	8	1.48
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD11	12	1.47
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD12	12	1.47
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD13	12	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD11	18	1.47
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD12	18	1.47
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD13	18	1.47
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD11	20	1.47
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD12	20	1.47
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD13	20	1.47
(3,2076)	1:110:A:ILE:HD11	1:146:A:ILE:HG13	3	1.47
(3,1746)	1:58:A:THR:HG22	1:86:A:GLN:HG3	16	1.47
(3,1401)	1:113:A:GLN:HB2	1:114:A:VAL:HB	3	1.47
(3,1401)	1:113:A:GLN:HB2	1:114:A:VAL:HB	14	1.47
(3,1355)	1:48:A:ILE:HG22	1:49:A:GLN:HG3	6	1.47
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	9	1.47
(3,939)	1:71:A:LEU:HD13	1:98:A:PHE:HZ	1	1.47
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD11	6	1.47
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD12	6	1.47
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD13	6	1.47
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD11	6	1.47
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD12	6	1.47
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD13	6	1.47
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	13	1.47
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	13	1.47
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	13	1.47
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	13	1.47
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	13	1.47
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	13	1.47
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	19	1.47
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	19	1.47
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	19	1.47
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	1	1.47
(3,481)	1:115:A:TYR:HA	1:146:A:ILE:HG22	12	1.47
(1,1479)	1:98:A:PHE:HE2	1:143:A:VAL:H	17	1.47
(1,1241)	1:122:A:ASN:H	1:126:A:GLU:HG3	17	1.47
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	6	1.47
(1,998)	1:72:A:VAL:HG23	1:98:A:PHE:H	1	1.47
(1,884)	1:8:A:LYS:HG2	1:80:A:ILE:H	20	1.47
(1,842)	1:12:A:GLU:HG2	1:77:A:ILE:H	9	1.47
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	1	1.47
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	1	1.47
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	1	1.47
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG11	17	1.47
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD12	14	1.47
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG23	9	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG21	13	1.47
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG22	18	1.47
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD11	4	1.46
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD12	4	1.46
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD13	4	1.46
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD11	13	1.46
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD12	13	1.46
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD13	13	1.46
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD21	3	1.46
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD22	3	1.46
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD23	3	1.46
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD21	15	1.46
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD22	15	1.46
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD23	15	1.46
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	14	1.46
(3,1423)	1:46:A:VAL:HG23	1:47:A:ASN:HB2	1	1.46
(3,1401)	1:113:A:GLN:HB2	1:114:A:VAL:HB	6	1.46
(3,1401)	1:113:A:GLN:HB2	1:114:A:VAL:HB	16	1.46
(3,1401)	1:113:A:GLN:HB2	1:114:A:VAL:HB	19	1.46
(3,1355)	1:49:A:GLN:HG2	1:50:A:ILE:HD13	12	1.46
(3,1313)	1:72:A:VAL:HG12	1:131:A:MET:HG3	9	1.46
(3,1291)	1:101:A:VAL:HG12	1:110:A:ILE:HB	17	1.46
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG21	9	1.46
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG22	9	1.46
(3,1285)	1:60:A:ASP:HA	1:87:A:VAL:HG23	9	1.46
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	8	1.46
(3,1122)	1:57:A:VAL:HG12	1:58:A:THR:HB	13	1.46
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	5	1.46
(3,939)	1:71:A:LEU:HD11	1:98:A:PHE:HZ	11	1.46
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	3	1.46
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG22	11	1.46
(1,1200)	1:119:A:ASN:H	1:120:A:LEU:HG	11	1.46
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG12	2	1.46
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG21	14	1.46
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD11	3	1.45
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD12	3	1.45
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD13	3	1.45
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD11	7	1.45
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD12	7	1.45
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD13	7	1.45
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG21	10	1.45
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG23	12	1.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD13	4	1.45
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD12	4	1.45
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD13	10	1.45
(3,1753)	1:14:A:LEU:HD22	1:33:A:GLU:HB3	1	1.45
(3,1440)	1:71:A:LEU:HA	1:71:A:LEU:HD12	10	1.45
(3,1291)	1:101:A:VAL:HG13	1:110:A:ILE:HB	8	1.45
(3,1274)	1:101:A:VAL:HG13	1:105:A:ASP:HA	9	1.45
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	2	1.45
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	12	1.45
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	18	1.45
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	18	1.45
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	18	1.45
(3,934)	1:14:A:LEU:HD13	1:31:A:VAL:H	10	1.45
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	2	1.45
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	2	1.45
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	2	1.45
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB1	12	1.45
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	9	1.45
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	9	1.45
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	9	1.45
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD21	3	1.45
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	3	1.45
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD23	3	1.45
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD21	3	1.45
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD22	3	1.45
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD23	3	1.45
(1,1849)	1:101:A:VAL:HG22	1:106:A:THR:H	3	1.45
(1,1731)	1:63:A:SER:HB3	1:93:A:ALA:H	17	1.45
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	5	1.45
(1,733)	1:70:A:ILE:H	1:83:A:VAL:HG12	15	1.45
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	2	1.45
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	2	1.45
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	2	1.45
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE2	11	1.45
(1,111)	1:7:A:VAL:HG11	1:9:A:ASP:H	20	1.45
(1,111)	1:7:A:VAL:HG12	1:9:A:ASP:H	20	1.45
(1,111)	1:7:A:VAL:HG13	1:9:A:ASP:H	20	1.45
(1,77)	1:3:A:LEU:HD21	1:6:A:PHE:H	19	1.45
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG22	16	1.45
(1,31)	1:5:A:ASN:H	1:71:A:LEU:HD13	12	1.45
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD11	2	1.44
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD12	2	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD13	2	1.44
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD11	6	1.44
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD12	6	1.44
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD13	6	1.44
(3,2485)	1:57:A:VAL:HG13	1:87:A:VAL:HB	3	1.44
(3,2209)	1:38:A:THR:HG22	1:131:A:MET:HG3	5	1.44
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD13	3	1.44
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	20	1.44
(3,2034)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	13	1.44
(3,2034)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	13	1.44
(3,2034)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	13	1.44
(3,1915)	1:77:A:ILE:HD12	1:80:A:ILE:HB	1	1.44
(3,1786)	1:107:A:LEU:HD11	1:128:A:ASN:H	19	1.44
(3,1743)	1:47:A:ASN:HB3	1:58:A:THR:HG23	1	1.44
(3,1440)	1:71:A:LEU:HA	1:71:A:LEU:HD11	7	1.44
(3,1440)	1:71:A:LEU:HA	1:71:A:LEU:HD13	20	1.44
(3,1274)	1:101:A:VAL:HG12	1:105:A:ASP:HA	4	1.44
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	13	1.44
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	13	1.44
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	13	1.44
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	13	1.44
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	13	1.44
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	13	1.44
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	13	1.44
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	13	1.44
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	13	1.44
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	19	1.44
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	19	1.44
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	19	1.44
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	19	1.44
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	19	1.44
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	19	1.44
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	19	1.44
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	19	1.44
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	19	1.44
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	19	1.44
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB1	14	1.44
(3,689)	1:7:A:VAL:HA	1:10:A:ALA:HB2	18	1.44
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	2	1.44
(3,374)	1:125:A:PHE:HD2	1:132:A:LEU:HD23	15	1.44
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HB2	3	1.44
(1,1849)	1:101:A:VAL:HG23	1:106:A:THR:H	1	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	17	1.44
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HB3	10	1.44
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	10	1.44
(1,1200)	1:119:A:ASN:H	1:120:A:LEU:HG	19	1.44
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG12	17	1.44
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	10	1.44
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG22	10	1.44
(1,111)	1:7:A:VAL:HG11	1:9:A:ASP:H	2	1.44
(1,111)	1:7:A:VAL:HG12	1:9:A:ASP:H	2	1.44
(1,111)	1:7:A:VAL:HG13	1:9:A:ASP:H	2	1.44
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG11	2	1.44
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD11	5	1.43
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD12	5	1.43
(3,2952)	1:120:A:LEU:HA	1:120:A:LEU:HD13	5	1.43
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD21	11	1.43
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD22	11	1.43
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD23	11	1.43
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD12	4	1.43
(3,2282)	1:10:A:ALA:HB1	1:140:A:PRO:HD2	4	1.43
(3,2228)	1:132:A:LEU:HD13	1:144:A:LEU:HD13	19	1.43
(3,1955)	1:101:A:VAL:HG13	1:139:A:TYR:HA	19	1.43
(3,1440)	1:71:A:LEU:HA	1:71:A:LEU:HD13	5	1.43
(3,1423)	1:47:A:ASN:HB3	1:48:A:ILE:HD13	2	1.43
(3,1401)	1:113:A:GLN:HB2	1:114:A:VAL:HB	5	1.43
(3,1401)	1:29:A:LYS:HG3	1:33:A:GLU:HB2	17	1.43
(3,1355)	1:48:A:ILE:HG22	1:49:A:GLN:HG3	13	1.43
(3,1302)	1:83:A:VAL:HG12	1:85:A:ASP:HB3	12	1.43
(3,1291)	1:101:A:VAL:HG12	1:110:A:ILE:HB	19	1.43
(3,1274)	1:101:A:VAL:HG13	1:106:A:THR:HA	13	1.43
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	16	1.43
(3,1122)	1:57:A:VAL:HG22	1:58:A:THR:HB	3	1.43
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	9	1.43
(3,941)	1:125:A:PHE:HE2	1:132:A:LEU:HD12	18	1.43
(3,687)	1:101:A:VAL:HG21	1:140:A:PRO:HA	18	1.43
(3,687)	1:101:A:VAL:HG22	1:140:A:PRO:HA	18	1.43
(3,687)	1:101:A:VAL:HG23	1:140:A:PRO:HA	18	1.43
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	13	1.43
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	2	1.43
(1,1023)	1:7:A:VAL:HG23	1:100:A:THR:H	13	1.43
(1,815)	1:35:A:LEU:HB2	1:43:A:ALA:H	2	1.43
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG21	3	1.43
(3,2485)	1:57:A:VAL:HG13	1:87:A:VAL:HB	5	1.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD21	9	1.42
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD22	9	1.42
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD23	9	1.42
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD21	14	1.42
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD22	14	1.42
(3,2422)	1:60:A:ASP:HA	1:62:A:LEU:HD23	14	1.42
(3,2046)	1:101:A:VAL:HB	1:142:A:GLN:HB2	19	1.42
(3,1753)	1:14:A:LEU:HD22	1:33:A:GLU:HB3	4	1.42
(3,1440)	1:71:A:LEU:HA	1:71:A:LEU:HD13	9	1.42
(3,1304)	1:31:A:VAL:HG21	1:35:A:LEU:HG	9	1.42
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	1	1.42
(3,934)	1:14:A:LEU:HD13	1:31:A:VAL:H	18	1.42
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	13	1.42
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	13	1.42
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	13	1.42
(3,481)	1:115:A:TYR:HA	1:146:A:ILE:HG22	6	1.42
(3,334)	1:115:A:TYR:HD2	1:123:A:LYS:HD3	1	1.42
(1,1023)	1:100:A:THR:H	1:146:A:ILE:HG13	10	1.42
(1,961)	1:67:A:LYS:HB3	1:87:A:VAL:H	18	1.42
(1,890)	1:53:A:GLY:HA3	1:80:A:ILE:H	20	1.42
(1,797)	1:43:A:ALA:HB1	1:73:A:ALA:H	1	1.42
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB1	1	1.42
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG21	15	1.41
(3,1495)	1:125:A:PHE:HE2	1:132:A:LEU:HG	10	1.41
(3,1423)	1:47:A:ASN:HB2	1:48:A:ILE:HD11	12	1.41
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG21	6	1.41
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG22	6	1.41
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG23	6	1.41
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	12	1.41
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	12	1.41
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	12	1.41
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	12	1.41
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	12	1.41
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	12	1.41
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	12	1.41
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	12	1.41
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	12	1.41
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	4	1.41
(3,1013)	1:93:A:ALA:HB1	1:94:A:THR:HA	9	1.41
(3,941)	1:125:A:PHE:HD2	1:132:A:LEU:HD12	13	1.41
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD11	8	1.41
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD12	8	1.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD13	8	1.41
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD11	8	1.41
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD12	8	1.41
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD13	8	1.41
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	3	1.41
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	3	1.41
(3,905)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	3	1.41
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB2	18	1.41
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	1	1.41
(3,481)	1:115:A:TYR:HA	1:146:A:ILE:HG23	4	1.41
(1,1896)	1:102:A:LYS:HD2	1:113:A:GLN:HE22	10	1.41
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG11	11	1.41
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD11	12	1.4
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD12	16	1.4
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD13	18	1.4
(3,1914)	1:77:A:ILE:HD13	1:80:A:ILE:HG13	10	1.4
(3,1355)	1:48:A:ILE:HG23	1:49:A:GLN:HG3	10	1.4
(3,1083)	1:144:A:LEU:HD11	1:145:A:ARG:H	20	1.4
(3,1083)	1:144:A:LEU:HD12	1:145:A:ARG:H	20	1.4
(3,1083)	1:144:A:LEU:HD13	1:145:A:ARG:H	20	1.4
(3,926)	1:32:A:GLN:HA	1:35:A:LEU:HD23	6	1.4
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB1	19	1.4
(3,142)	1:107:A:LEU:HD12	1:110:A:ILE:HD13	4	1.4
(1,1849)	1:101:A:VAL:HG23	1:106:A:THR:H	13	1.4
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	7	1.4
(1,961)	1:67:A:LYS:HB3	1:87:A:VAL:H	4	1.4
(1,842)	1:12:A:GLU:HG2	1:77:A:ILE:H	15	1.4
(1,797)	1:43:A:ALA:HB2	1:73:A:ALA:H	14	1.4
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG12	4	1.4
(1,530)	1:3:A:LEU:HD11	1:51:A:ALA:H	7	1.4
(1,489)	1:48:A:ILE:H	1:58:A:THR:HG21	8	1.4
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG11	5	1.4
(1,237)	1:24:A:LYS:HG2	1:28:A:ALA:H	9	1.4
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD13	1	1.4
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD11	9	1.4
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	2	1.4
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG21	17	1.4
(3,2363)	1:50:A:ILE:HG22	1:52:A:ASP:HB3	14	1.39
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD12	15	1.39
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	3	1.39
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	7	1.39
(3,1996)	1:46:A:VAL:HG21	1:57:A:VAL:HA	13	1.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1940)	1:106:A:THR:HG22	1:109:A:ALA:H	4	1.39
(3,1912)	1:12:A:GLU:HG3	1:77:A:ILE:HD12	1	1.39
(3,1912)	1:35:A:LEU:HG	1:77:A:ILE:HD11	3	1.39
(3,1875)	1:72:A:VAL:HG23	1:76:A:ASN:HB2	8	1.39
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD11	10	1.39
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD12	10	1.39
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD13	10	1.39
(3,1274)	1:101:A:VAL:HG12	1:106:A:THR:HA	16	1.39
(3,1083)	1:144:A:LEU:HD11	1:145:A:ARG:H	11	1.39
(3,1083)	1:144:A:LEU:HD12	1:145:A:ARG:H	11	1.39
(3,1083)	1:144:A:LEU:HD13	1:145:A:ARG:H	11	1.39
(3,1043)	1:114:A:VAL:HG11	1:115:A:TYR:HD2	14	1.39
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	11	1.39
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	11	1.39
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	11	1.39
(3,914)	1:120:A:LEU:HD23	1:123:A:LYS:HB2	6	1.39
(3,914)	1:120:A:LEU:HD22	1:123:A:LYS:HB2	12	1.39
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	11	1.39
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	11	1.39
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	11	1.39
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG21	8	1.39
(3,433)	1:99:A:TYR:HD1	1:146:A:ILE:HG13	7	1.39
(3,416)	1:72:A:VAL:HG23	1:131:A:MET:HE3	6	1.39
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	17	1.39
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD21	13	1.39
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	13	1.39
(3,136)	1:115:A:TYR:HD1	1:120:A:LEU:HD23	13	1.39
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD21	13	1.39
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD22	13	1.39
(3,136)	1:115:A:TYR:HD2	1:120:A:LEU:HD23	13	1.39
(1,1282)	1:124:A:ILE:HG13	1:126:A:GLU:H	13	1.39
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	20	1.39
(1,976)	1:87:A:VAL:HG21	1:89:A:THR:H	5	1.39
(1,976)	1:87:A:VAL:HG22	1:89:A:THR:H	5	1.39
(1,976)	1:87:A:VAL:HG23	1:89:A:THR:H	5	1.39
(1,919)	1:3:A:LEU:HD23	1:84:A:ASP:H	9	1.39
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG11	14	1.39
(1,489)	1:48:A:ILE:H	1:50:A:ILE:HG13	3	1.39
(1,117)	1:10:A:ALA:H	1:143:A:VAL:HG13	16	1.39
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG22	1	1.39
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG22	7	1.39
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG21	1	1.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2368)	1:122:A:ASN:H	1:126:A:GLU:HG3	5	1.38
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD11	18	1.38
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD12	19	1.38
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG23	6	1.38
(3,2187)	1:24:A:LYS:HB3	1:26:A:ASP:HB2	6	1.38
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD13	5	1.38
(3,2159)	1:113:A:GLN:H	1:124:A:ILE:HD13	7	1.38
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	13	1.38
(3,2076)	1:110:A:ILE:HD12	1:146:A:ILE:HG13	2	1.38
(3,2034)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	3	1.38
(3,2034)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	3	1.38
(3,2034)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	3	1.38
(3,2034)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	17	1.38
(3,2034)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	17	1.38
(3,2034)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	17	1.38
(3,1794)	1:107:A:LEU:HD11	1:135:A:PRO:HA	12	1.38
(3,1794)	1:107:A:LEU:HD12	1:135:A:PRO:HA	12	1.38
(3,1794)	1:107:A:LEU:HD13	1:135:A:PRO:HA	12	1.38
(3,1794)	1:107:A:LEU:HD11	1:135:A:PRO:HA	16	1.38
(3,1794)	1:107:A:LEU:HD12	1:135:A:PRO:HA	16	1.38
(3,1794)	1:107:A:LEU:HD13	1:135:A:PRO:HA	16	1.38
(3,1423)	1:47:A:ASN:HB3	1:48:A:ILE:HD11	7	1.38
(3,1423)	1:47:A:ASN:HB3	1:48:A:ILE:HD12	15	1.38
(3,1399)	1:148:A:GLU:HG3	1:149:A:GLU:HB3	3	1.38
(3,1309)	1:31:A:VAL:HG11	1:80:A:ILE:HG12	16	1.38
(3,1291)	1:101:A:VAL:HG11	1:110:A:ILE:HB	15	1.38
(3,1122)	1:57:A:VAL:HG12	1:58:A:THR:HB	16	1.38
(3,947)	1:107:A:LEU:HD11	1:135:A:PRO:HA	12	1.38
(3,947)	1:107:A:LEU:HD12	1:135:A:PRO:HA	12	1.38
(3,947)	1:107:A:LEU:HD13	1:135:A:PRO:HA	12	1.38
(3,947)	1:107:A:LEU:HD11	1:135:A:PRO:HA	16	1.38
(3,947)	1:107:A:LEU:HD12	1:135:A:PRO:HA	16	1.38
(3,947)	1:107:A:LEU:HD13	1:135:A:PRO:HA	16	1.38
(3,935)	1:71:A:LEU:H	1:71:A:LEU:HD11	14	1.38
(3,914)	1:120:A:LEU:HD22	1:123:A:LYS:HB2	7	1.38
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB2	2	1.38
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB3	15	1.38
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG22	5	1.38
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	15	1.38
(3,433)	1:99:A:TYR:HD2	1:146:A:ILE:HG13	3	1.38
(3,375)	1:132:A:LEU:HD21	1:134:A:SER:H	15	1.38
(3,375)	1:132:A:LEU:HD22	1:134:A:SER:H	15	1.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,375)	1:132:A:LEU:HD23	1:134:A:SER:H	15	1.38
(1,1854)	1:11:A:GLY:H	1:12:A:GLU:HB3	13	1.38
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	13	1.38
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	19	1.38
(1,1849)	1:101:A:VAL:HG22	1:106:A:THR:H	6	1.38
(1,1731)	1:63:A:SER:HB3	1:93:A:ALA:H	3	1.38
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	3	1.38
(1,1023)	1:100:A:THR:H	1:146:A:ILE:HG13	6	1.38
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG21	18	1.38
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG22	18	1.38
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG23	18	1.38
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	7	1.38
(1,797)	1:43:A:ALA:HB3	1:73:A:ALA:H	13	1.38
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB2	9	1.38
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB3	11	1.38
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG22	12	1.38
(3,2288)	1:12:A:GLU:HA	1:77:A:ILE:HG21	12	1.37
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD11	2	1.37
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD11	6	1.37
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD12	14	1.37
(3,2113)	1:107:A:LEU:HD13	1:135:A:PRO:HB3	8	1.37
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD21	3	1.37
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD22	3	1.37
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD23	3	1.37
(3,1423)	1:47:A:ASN:HB3	1:48:A:ILE:HD11	10	1.37
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	11	1.37
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	11	1.37
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	11	1.37
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	19	1.37
(1,1896)	1:112:A:LYS:HD2	1:113:A:GLN:HE22	3	1.37
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD21	15	1.37
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	1	1.37
(1,1097)	1:110:A:ILE:H	1:124:A:ILE:HG21	13	1.37
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	19	1.37
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB2	4	1.37
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG22	5	1.37
(1,77)	1:6:A:PHE:H	1:143:A:VAL:HG11	4	1.37
(1,77)	1:6:A:PHE:H	1:100:A:THR:HG22	12	1.37
(3,2194)	1:54:A:LYS:HG3	1:55:A:ALA:H	7	1.36
(3,2076)	1:110:A:ILE:HD12	1:146:A:ILE:HG13	11	1.36
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD13	16	1.36
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG22	3	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1743)	1:47:A:ASN:HB3	1:58:A:THR:HG21	9	1.36
(3,1440)	1:71:A:LEU:HA	1:71:A:LEU:HD13	14	1.36
(3,1401)	1:33:A:GLU:HB2	1:37:A:LYS:HG2	8	1.36
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD11	3	1.36
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD12	3	1.36
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD13	3	1.36
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD11	6	1.36
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD12	6	1.36
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD13	6	1.36
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD11	14	1.36
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD12	14	1.36
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD13	14	1.36
(3,1122)	1:57:A:VAL:HG22	1:58:A:THR:HB	15	1.36
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	20	1.36
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	20	1.36
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	20	1.36
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD11	15	1.36
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD12	15	1.36
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD13	15	1.36
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD11	15	1.36
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD12	15	1.36
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD13	15	1.36
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	3	1.36
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG22	19	1.36
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	13	1.36
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	1	1.36
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	9	1.36
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	18	1.36
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	18	1.36
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	18	1.36
(3,433)	1:99:A:TYR:HD2	1:146:A:ILE:HG13	11	1.36
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG22	13	1.36
(1,1583)	1:3:A:LEU:HD11	1:86:A:GLN:HE22	6	1.36
(1,1583)	1:3:A:LEU:HD23	1:86:A:GLN:HE22	13	1.36
(1,1241)	1:122:A:ASN:H	1:126:A:GLU:HG3	13	1.36
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG21	5	1.36
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG22	5	1.36
(1,552)	1:55:A:ALA:H	1:74:A:VAL:HG23	5	1.36
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB3	6	1.36
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB2	15	1.36
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB3	18	1.36
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	17	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2451)	1:7:A:VAL:HA	1:81:A:ALA:HB1	1	1.35
(3,2238)	1:107:A:LEU:HD22	1:135:A:PRO:HD2	16	1.35
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB2	1	1.35
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD12	10	1.35
(3,2159)	1:113:A:GLN:H	1:124:A:ILE:HD11	13	1.35
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD13	17	1.35
(3,1794)	1:107:A:LEU:HD11	1:135:A:PRO:HA	1	1.35
(3,1794)	1:107:A:LEU:HD12	1:135:A:PRO:HA	1	1.35
(3,1794)	1:107:A:LEU:HD13	1:135:A:PRO:HA	1	1.35
(3,1787)	1:107:A:LEU:HD13	1:124:A:ILE:HA	6	1.35
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD21	6	1.35
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD22	6	1.35
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD23	6	1.35
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD21	10	1.35
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD22	10	1.35
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD23	10	1.35
(3,1753)	1:14:A:LEU:HD22	1:33:A:GLU:HB3	8	1.35
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG21	6	1.35
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG22	12	1.35
(3,1430)	1:131:A:MET:HE3	1:132:A:LEU:HD12	5	1.35
(3,1423)	1:47:A:ASN:HB2	1:48:A:ILE:HD11	19	1.35
(3,1133)	1:107:A:LEU:HA	1:138:A:ILE:HG23	18	1.35
(3,1083)	1:144:A:LEU:HD11	1:145:A:ARG:H	6	1.35
(3,1083)	1:144:A:LEU:HD12	1:145:A:ARG:H	6	1.35
(3,1083)	1:144:A:LEU:HD13	1:145:A:ARG:H	6	1.35
(3,947)	1:107:A:LEU:HD11	1:135:A:PRO:HA	1	1.35
(3,947)	1:107:A:LEU:HD12	1:135:A:PRO:HA	1	1.35
(3,947)	1:107:A:LEU:HD13	1:135:A:PRO:HA	1	1.35
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD23	19	1.35
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	12	1.35
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	12	1.35
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	12	1.35
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	13	1.35
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	13	1.35
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	13	1.35
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	19	1.35
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	19	1.35
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	19	1.35
(1,1853)	1:11:A:GLY:H	1:133:A:LYS:HD2	12	1.35
(1,1282)	1:124:A:ILE:HG13	1:126:A:GLU:H	18	1.35
(1,976)	1:87:A:VAL:HG21	1:89:A:THR:H	10	1.35
(1,976)	1:87:A:VAL:HG22	1:89:A:THR:H	10	1.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,976)	1:87:A:VAL:HG23	1:89:A:THR:H	10	1.35
(1,884)	1:8:A:LYS:HG2	1:80:A:ILE:H	10	1.35
(1,842)	1:12:A:GLU:HG2	1:77:A:ILE:H	17	1.35
(1,797)	1:43:A:ALA:HB1	1:73:A:ALA:H	3	1.35
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG12	1	1.35
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG22	16	1.35
(1,77)	1:3:A:LEU:HD12	1:6:A:PHE:H	14	1.35
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD11	14	1.34
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD12	4	1.34
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD12	11	1.34
(3,2034)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	12	1.34
(3,2034)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	12	1.34
(3,2034)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	12	1.34
(3,2034)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	16	1.34
(3,2034)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	16	1.34
(3,2034)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	16	1.34
(3,1915)	1:31:A:VAL:HB	1:77:A:ILE:HD12	8	1.34
(3,1423)	1:47:A:ASN:HB3	1:48:A:ILE:HD12	18	1.34
(3,1355)	1:48:A:ILE:HG23	1:49:A:GLN:HG3	4	1.34
(3,1013)	1:17:A:ALA:HB1	1:18:A:VAL:HA	18	1.34
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG21	18	1.34
(3,544)	1:3:A:LEU:HD22	1:54:A:LYS:HE3	20	1.34
(3,142)	1:107:A:LEU:HD12	1:110:A:ILE:HD11	2	1.34
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD21	3	1.34
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HD3	8	1.34
(1,1097)	1:110:A:ILE:H	1:124:A:ILE:HG23	18	1.34
(1,974)	1:67:A:LYS:HG3	1:89:A:THR:H	4	1.34
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG13	2	1.34
(3,1912)	1:12:A:GLU:HG2	1:77:A:ILE:HD11	8	1.33
(3,1794)	1:107:A:LEU:HD11	1:135:A:PRO:HA	7	1.33
(3,1794)	1:107:A:LEU:HD12	1:135:A:PRO:HA	7	1.33
(3,1794)	1:107:A:LEU:HD13	1:135:A:PRO:HA	7	1.33
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD21	5	1.33
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD22	5	1.33
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD23	5	1.33
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD21	9	1.33
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD22	9	1.33
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD23	9	1.33
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD21	11	1.33
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD22	11	1.33
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD23	11	1.33
(3,1618)	1:66:A:ALA:HA	1:69:A:LYS:HG3	12	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1401)	1:29:A:LYS:HG3	1:33:A:GLU:HB2	7	1.33
(3,1401)	1:29:A:LYS:HG3	1:33:A:GLU:HB2	11	1.33
(3,1398)	1:68:A:GLU:HG3	1:95:A:ALA:HB3	7	1.33
(3,1355)	1:48:A:ILE:HG22	1:49:A:GLN:HG3	5	1.33
(3,1302)	1:83:A:VAL:HG13	1:85:A:ASP:HB3	5	1.33
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB3	18	1.33
(3,1122)	1:57:A:VAL:HG23	1:58:A:THR:HB	18	1.33
(3,951)	1:67:A:LYS:HE3	1:71:A:LEU:HD11	2	1.33
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB3	8	1.33
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	16	1.33
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	16	1.33
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	16	1.33
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	7	1.33
(3,490)	1:138:A:ILE:HA	1:138:A:ILE:HD13	19	1.33
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	1	1.33
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	15	1.33
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HD3	17	1.33
(1,1495)	1:132:A:LEU:HD13	1:144:A:LEU:H	4	1.33
(1,1023)	1:100:A:THR:H	1:146:A:ILE:HG13	2	1.33
(1,1023)	1:100:A:THR:H	1:146:A:ILE:HG13	18	1.33
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG21	2	1.33
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG22	2	1.33
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG23	2	1.33
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG21	19	1.33
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG22	19	1.33
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG23	19	1.33
(1,974)	1:67:A:LYS:HG3	1:89:A:THR:H	17	1.33
(1,797)	1:43:A:ALA:HB2	1:73:A:ALA:H	20	1.33
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG12	16	1.33
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	2	1.33
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD13	7	1.33
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD12	19	1.33
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE2	15	1.33
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG23	20	1.33
(3,2282)	1:10:A:ALA:HB3	1:140:A:PRO:HD2	15	1.32
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	13	1.32
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	14	1.32
(3,2080)	1:101:A:VAL:HB	1:110:A:ILE:HD13	17	1.32
(3,1996)	1:46:A:VAL:HG22	1:48:A:ILE:HA	6	1.32
(3,1915)	1:77:A:ILE:HD12	1:80:A:ILE:HB	3	1.32
(3,1915)	1:77:A:ILE:HD11	1:80:A:ILE:HB	16	1.32
(3,1361)	1:32:A:GLN:HB3	1:35:A:LEU:HD13	8	1.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1292)	1:120:A:LEU:HD12	1:123:A:LYS:HD2	15	1.32
(3,1247)	1:132:A:LEU:HA	1:132:A:LEU:HD22	3	1.32
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	17	1.32
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB1	13	1.32
(3,947)	1:107:A:LEU:HD11	1:135:A:PRO:HA	7	1.32
(3,947)	1:107:A:LEU:HD12	1:135:A:PRO:HA	7	1.32
(3,947)	1:107:A:LEU:HD13	1:135:A:PRO:HA	7	1.32
(3,935)	1:71:A:LEU:H	1:71:A:LEU:HD11	9	1.32
(3,490)	1:138:A:ILE:HA	1:138:A:ILE:HD11	12	1.32
(3,375)	1:132:A:LEU:HD21	1:134:A:SER:H	20	1.32
(3,375)	1:132:A:LEU:HD22	1:134:A:SER:H	20	1.32
(3,375)	1:132:A:LEU:HD23	1:134:A:SER:H	20	1.32
(1,1023)	1:100:A:THR:H	1:146:A:ILE:HG13	11	1.32
(1,1023)	1:7:A:VAL:HG21	1:100:A:THR:H	16	1.32
(1,919)	1:3:A:LEU:HD22	1:84:A:ASP:H	15	1.32
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	7	1.32
(1,113)	1:9:A:ASP:H	1:80:A:ILE:HG23	2	1.32
(3,2451)	1:7:A:VAL:HA	1:81:A:ALA:HB2	20	1.31
(3,2415)	1:71:A:LEU:HD11	1:72:A:VAL:H	5	1.31
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD11	19	1.31
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD13	20	1.31
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD21	15	1.31
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD22	15	1.31
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD23	15	1.31
(3,1752)	1:14:A:LEU:HD22	1:30:A:LYS:HB2	5	1.31
(3,1355)	1:48:A:ILE:HG22	1:49:A:GLN:HG3	9	1.31
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG21	5	1.31
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD11	19	1.31
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD12	19	1.31
(3,1278)	1:150:A:LEU:HA	1:150:A:LEU:HD13	19	1.31
(3,1247)	1:132:A:LEU:HA	1:132:A:LEU:HD22	13	1.31
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB3	15	1.31
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB1	20	1.31
(3,935)	1:71:A:LEU:H	1:71:A:LEU:HD11	20	1.31
(3,242)	1:29:A:LYS:HE2	1:30:A:LYS:H	19	1.31
(1,1896)	1:102:A:LYS:HD2	1:113:A:GLN:HE22	6	1.31
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	14	1.31
(1,1023)	1:100:A:THR:H	1:146:A:ILE:HG13	14	1.31
(1,487)	1:31:A:VAL:HG13	1:48:A:ILE:H	14	1.31
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD11	15	1.31
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG21	1	1.31
(3,2451)	1:7:A:VAL:HA	1:81:A:ALA:HB3	7	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2415)	1:71:A:LEU:HD11	1:72:A:VAL:H	17	1.3
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD11	11	1.3
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG22	9	1.3
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG23	14	1.3
(3,2238)	1:107:A:LEU:HD22	1:135:A:PRO:HD2	8	1.3
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	12	1.3
(3,2091)	1:110:A:ILE:HD13	1:111:A:SER:HB3	18	1.3
(3,1996)	1:46:A:VAL:HG23	1:48:A:ILE:HA	3	1.3
(3,1831)	1:14:A:LEU:HD12	1:30:A:LYS:HB2	10	1.3
(3,1434)	1:132:A:LEU:HD13	1:138:A:ILE:H	16	1.3
(3,1430)	1:131:A:MET:HE3	1:132:A:LEU:HD12	15	1.3
(3,1423)	1:47:A:ASN:HB3	1:48:A:ILE:HD11	3	1.3
(3,1423)	1:47:A:ASN:HB3	1:48:A:ILE:HD13	17	1.3
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD13	16	1.3
(3,1313)	1:72:A:VAL:HG11	1:76:A:ASN:HB3	18	1.3
(3,1309)	1:31:A:VAL:HG13	1:80:A:ILE:HG12	4	1.3
(3,1302)	1:83:A:VAL:HG12	1:85:A:ASP:HB3	18	1.3
(3,1122)	1:46:A:VAL:HG22	1:58:A:THR:HB	20	1.3
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	11	1.3
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB3	5	1.3
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG21	14	1.3
(3,666)	1:28:A:ALA:HA	1:31:A:VAL:HB	6	1.3
(1,1896)	1:102:A:LYS:HD2	1:113:A:GLN:HE22	8	1.3
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	1	1.3
(1,998)	1:72:A:VAL:HG21	1:98:A:PHE:H	4	1.3
(1,919)	1:3:A:LEU:HD21	1:84:A:ASP:H	7	1.3
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	17	1.3
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	20	1.3
(1,530)	1:31:A:VAL:HG11	1:51:A:ALA:H	5	1.3
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG11	8	1.3
(3,2306)	1:132:A:LEU:HD11	1:144:A:LEU:HD23	20	1.29
(3,2205)	1:131:A:MET:HE3	1:144:A:LEU:HB3	6	1.29
(3,2159)	1:123:A:LYS:H	1:124:A:ILE:HD11	9	1.29
(3,2092)	1:110:A:ILE:HD12	1:111:A:SER:HB2	15	1.29
(3,1545)	1:146:A:ILE:HG23	1:147:A:PRO:HB2	13	1.29
(3,1355)	1:48:A:ILE:HG21	1:49:A:GLN:HG3	16	1.29
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	18	1.29
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	18	1.29
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	18	1.29
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	18	1.29
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	18	1.29
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	18	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	18	1.29
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	18	1.29
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	18	1.29
(3,1122)	1:57:A:VAL:HG13	1:58:A:THR:HB	12	1.29
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	13	1.29
(3,1013)	1:17:A:ALA:HB2	1:18:A:VAL:HA	8	1.29
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD11	3	1.29
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD12	3	1.29
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD13	3	1.29
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD11	3	1.29
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD12	3	1.29
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD13	3	1.29
(3,914)	1:120:A:LEU:HD23	1:123:A:LYS:HB2	5	1.29
(3,481)	1:115:A:TYR:HA	1:146:A:ILE:HG23	20	1.29
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG11	15	1.29
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG12	15	1.29
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG13	15	1.29
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	14	1.29
(1,1731)	1:63:A:SER:HB3	1:93:A:ALA:H	1	1.29
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	1	1.29
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	14	1.29
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG21	4	1.29
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG22	4	1.29
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG23	4	1.29
(1,976)	1:87:A:VAL:HG21	1:89:A:THR:H	18	1.29
(1,976)	1:87:A:VAL:HG22	1:89:A:THR:H	18	1.29
(1,976)	1:87:A:VAL:HG23	1:89:A:THR:H	18	1.29
(1,919)	1:3:A:LEU:HD22	1:84:A:ASP:H	18	1.29
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB1	7	1.29
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD11	4	1.29
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	20	1.29
(3,2415)	1:71:A:LEU:HD11	1:72:A:VAL:H	20	1.28
(3,2034)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	4	1.28
(3,2034)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	4	1.28
(3,2034)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	4	1.28
(3,1915)	1:31:A:VAL:HB	1:77:A:ILE:HD11	17	1.28
(3,1912)	1:35:A:LEU:HG	1:77:A:ILE:HD11	11	1.28
(3,1794)	1:107:A:LEU:HD11	1:135:A:PRO:HA	20	1.28
(3,1794)	1:107:A:LEU:HD12	1:135:A:PRO:HA	20	1.28
(3,1794)	1:107:A:LEU:HD13	1:135:A:PRO:HA	20	1.28
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD21	20	1.28
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD22	20	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD23	20	1.28
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	1	1.28
(3,1057)	1:18:A:VAL:HG13	1:19:A:THR:HA	16	1.28
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB2	2	1.28
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB1	4	1.28
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB2	10	1.28
(3,947)	1:107:A:LEU:HD11	1:135:A:PRO:HA	20	1.28
(3,947)	1:107:A:LEU:HD12	1:135:A:PRO:HA	20	1.28
(3,947)	1:107:A:LEU:HD13	1:135:A:PRO:HA	20	1.28
(3,935)	1:71:A:LEU:H	1:71:A:LEU:HD11	5	1.28
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD21	13	1.28
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	13	1.28
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	13	1.28
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD21	13	1.28
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	13	1.28
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	13	1.28
(3,666)	1:28:A:ALA:HA	1:31:A:VAL:HB	5	1.28
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG11	3	1.28
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG12	3	1.28
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG13	3	1.28
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG11	13	1.28
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG12	13	1.28
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG13	13	1.28
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG11	17	1.28
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG12	17	1.28
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG13	17	1.28
(1,1896)	1:102:A:LYS:HD2	1:113:A:GLN:HE22	20	1.28
(1,1495)	1:132:A:LEU:HD12	1:144:A:LEU:H	16	1.28
(1,1479)	1:98:A:PHE:HE2	1:143:A:VAL:H	9	1.28
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG21	20	1.28
(1,1282)	1:107:A:LEU:HD12	1:126:A:GLU:H	9	1.28
(1,884)	1:8:A:LYS:HG2	1:80:A:ILE:H	17	1.28
(1,842)	1:12:A:GLU:HG3	1:77:A:ILE:H	1	1.28
(1,842)	1:12:A:GLU:HG2	1:77:A:ILE:H	16	1.28
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	9	1.28
(1,797)	1:43:A:ALA:HB2	1:73:A:ALA:H	10	1.28
(1,797)	1:43:A:ALA:HB2	1:73:A:ALA:H	18	1.28
(1,797)	1:43:A:ALA:HB1	1:73:A:ALA:H	19	1.28
(3,2363)	1:50:A:ILE:HG21	1:52:A:ASP:HB3	1	1.27
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG11	5	1.27
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD13	9	1.27
(3,2209)	1:38:A:THR:HG21	1:131:A:MET:HG3	13	1.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2194)	1:54:A:LYS:HG3	1:55:A:ALA:H	11	1.27
(3,2113)	1:107:A:LEU:HD11	1:135:A:PRO:HB3	12	1.27
(3,2076)	1:110:A:ILE:HD13	1:146:A:ILE:HG13	14	1.27
(3,1996)	1:46:A:VAL:HG21	1:57:A:VAL:HA	9	1.27
(3,1915)	1:77:A:ILE:HD13	1:80:A:ILE:HB	14	1.27
(3,1915)	1:77:A:ILE:HD12	1:80:A:ILE:HB	18	1.27
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD11	8	1.27
(3,1746)	1:58:A:THR:HG22	1:86:A:GLN:HG3	6	1.27
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD23	19	1.27
(3,1355)	1:48:A:ILE:HG23	1:49:A:GLN:HG3	7	1.27
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG21	5	1.27
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG22	5	1.27
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG23	5	1.27
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	11	1.27
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG22	5	1.27
(3,935)	1:71:A:LEU:H	1:71:A:LEU:HD12	7	1.27
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	2	1.27
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG11	4	1.27
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG12	4	1.27
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG13	4	1.27
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG11	11	1.27
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG12	11	1.27
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG13	11	1.27
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG11	12	1.27
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG12	12	1.27
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG13	12	1.27
(1,1896)	1:102:A:LYS:HD2	1:113:A:GLN:HE22	13	1.27
(1,1849)	1:101:A:VAL:HG21	1:106:A:THR:H	4	1.27
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	4	1.27
(1,1202)	1:119:A:ASN:H	1:156:A:HIS:HB3	1	1.27
(1,998)	1:72:A:VAL:HG21	1:98:A:PHE:H	2	1.27
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG12	19	1.27
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	6	1.27
(1,77)	1:3:A:LEU:HD12	1:6:A:PHE:H	8	1.27
(3,2485)	1:57:A:VAL:HG13	1:87:A:VAL:HB	14	1.26
(3,2363)	1:50:A:ILE:HG21	1:52:A:ASP:HB3	17	1.26
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD13	12	1.26
(3,2184)	1:105:A:ASP:HB2	1:109:A:ALA:HB1	18	1.26
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD13	7	1.26
(3,2113)	1:107:A:LEU:HD13	1:135:A:PRO:HB3	9	1.26
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	9	1.26
(3,2099)	1:110:A:ILE:HD12	1:115:A:TYR:HD2	1	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	12	1.26
(3,2069)	1:62:A:LEU:HD11	1:89:A:THR:HA	9	1.26
(3,1912)	1:35:A:LEU:HG	1:77:A:ILE:HD12	14	1.26
(3,1423)	1:47:A:ASN:HB3	1:48:A:ILE:HD11	13	1.26
(3,1401)	1:29:A:LYS:HG3	1:33:A:GLU:HB2	10	1.26
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	13	1.26
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	13	1.26
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	13	1.26
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	13	1.26
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	13	1.26
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	13	1.26
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	13	1.26
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	13	1.26
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	13	1.26
(3,1247)	1:132:A:LEU:HA	1:132:A:LEU:HD21	18	1.26
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	1	1.26
(3,1215)	1:106:A:THR:HA	1:138:A:ILE:HG22	3	1.26
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB1	17	1.26
(3,952)	1:42:A:ASP:HB3	1:62:A:LEU:HD12	1	1.26
(3,948)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	20	1.26
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG22	12	1.26
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD21	11	1.26
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD22	11	1.26
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD23	11	1.26
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG23	7	1.26
(3,433)	1:99:A:TYR:HD2	1:146:A:ILE:HG13	2	1.26
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG11	1	1.26
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG12	1	1.26
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG13	1	1.26
(3,235)	1:37:A:LYS:HD2	1:38:A:THR:H	5	1.26
(3,182)	1:125:A:PHE:HE1	1:135:A:PRO:HD2	12	1.26
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	14	1.26
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	14	1.26
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	14	1.26
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	11	1.26
(1,890)	1:53:A:GLY:HA3	1:80:A:ILE:H	6	1.26
(1,615)	1:57:A:VAL:HG12	1:59:A:GLY:H	16	1.26
(1,237)	1:24:A:LYS:HG2	1:28:A:ALA:H	1	1.26
(3,2046)	1:101:A:VAL:HB	1:142:A:GLN:HB2	12	1.25
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE1	16	1.25
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE2	16	1.25
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE3	16	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE1	16	1.25
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE2	16	1.25
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE3	16	1.25
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE1	16	1.25
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE2	16	1.25
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE3	16	1.25
(3,2028)	1:7:A:VAL:HG11	1:9:A:ASP:HB3	20	1.25
(3,2028)	1:7:A:VAL:HG12	1:9:A:ASP:HB3	20	1.25
(3,2028)	1:7:A:VAL:HG13	1:9:A:ASP:HB3	20	1.25
(3,1915)	1:77:A:ILE:HD11	1:80:A:ILE:HB	7	1.25
(3,1915)	1:77:A:ILE:HD13	1:80:A:ILE:HB	20	1.25
(3,1912)	1:35:A:LEU:HG	1:77:A:ILE:HD13	7	1.25
(3,1912)	1:12:A:GLU:HG3	1:77:A:ILE:HD13	20	1.25
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD11	5	1.25
(3,1786)	1:107:A:LEU:HD11	1:128:A:ASN:H	3	1.25
(3,1355)	1:48:A:ILE:HG21	1:49:A:GLN:HG3	17	1.25
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	7	1.25
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	7	1.25
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	7	1.25
(3,1247)	1:132:A:LEU:HA	1:132:A:LEU:HD22	2	1.25
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB3	11	1.25
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB3	16	1.25
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG21	16	1.25
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG22	19	1.25
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD11	1	1.25
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD12	1	1.25
(3,936)	1:4:A:PHE:HD1	1:71:A:LEU:HD13	1	1.25
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD11	1	1.25
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD12	1	1.25
(3,936)	1:4:A:PHE:HD2	1:71:A:LEU:HD13	1	1.25
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD21	19	1.25
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	19	1.25
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	19	1.25
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD21	19	1.25
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	19	1.25
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	19	1.25
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB2	17	1.25
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD21	8	1.25
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD22	8	1.25
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD23	8	1.25
(3,689)	1:7:A:VAL:HA	1:10:A:ALA:HB1	7	1.25
(3,361)	1:21:A:GLN:HB3	1:23:A:ASP:H	15	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG11	16	1.25
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG12	16	1.25
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG13	16	1.25
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG11	18	1.25
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG12	18	1.25
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG13	18	1.25
(3,242)	1:29:A:LYS:HE3	1:30:A:LYS:H	2	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	5	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	5	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	5	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	6	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	6	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	6	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	10	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	10	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	10	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	11	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	11	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	11	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	17	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	17	1.25
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	17	1.25
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	18	1.25
(1,1782)	1:107:A:LEU:HG	1:110:A:ILE:H	7	1.25
(1,1697)	1:124:A:ILE:HG13	1:128:A:ASN:HD21	18	1.25
(1,1415)	1:138:A:ILE:H	1:142:A:GLN:HB3	3	1.25
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	9	1.25
(1,1282)	1:107:A:LEU:HD11	1:126:A:GLU:H	5	1.25
(1,1246)	1:107:A:LEU:HD22	1:123:A:LYS:H	15	1.25
(1,998)	1:72:A:VAL:HG23	1:98:A:PHE:H	17	1.25
(1,797)	1:43:A:ALA:HB2	1:73:A:ALA:H	11	1.25
(1,797)	1:43:A:ALA:HB1	1:73:A:ALA:H	17	1.25
(1,644)	1:62:A:LEU:H	1:88:A:LYS:HG3	10	1.25
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG23	15	1.25
(3,2113)	1:107:A:LEU:HD11	1:135:A:PRO:HB3	1	1.24
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	12	1.24
(3,2069)	1:62:A:LEU:HD11	1:89:A:THR:HA	10	1.24
(3,2034)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	11	1.24
(3,2034)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	11	1.24
(3,2034)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	11	1.24
(3,2012)	1:31:A:VAL:HG13	1:32:A:GLN:HG2	16	1.24
(3,1915)	1:31:A:VAL:HB	1:77:A:ILE:HD13	4	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1424)	1:21:A:GLN:HB2	1:26:A:ASP:HB2	18	1.24
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	1	1.24
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	1	1.24
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	1	1.24
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	1	1.24
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	1	1.24
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	1	1.24
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	1	1.24
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	1	1.24
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	1	1.24
(3,1234)	1:29:A:LYS:HA	1:48:A:ILE:HB	8	1.24
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG23	4	1.24
(3,946)	1:107:A:LEU:HA	1:107:A:LEU:HD12	11	1.24
(3,433)	1:99:A:TYR:HD2	1:146:A:ILE:HG13	6	1.24
(3,433)	1:99:A:TYR:HD2	1:146:A:ILE:HG13	13	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	1	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	1	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	1	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	8	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	8	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	8	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	16	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	16	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	16	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	19	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	19	1.24
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	19	1.24
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD23	6	1.24
(1,1583)	1:3:A:LEU:HD12	1:86:A:GLN:HE22	4	1.24
(1,1282)	1:107:A:LEU:HD13	1:126:A:GLU:H	6	1.24
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	8	1.24
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	17	1.24
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG22	4	1.24
(1,1023)	1:100:A:THR:H	1:146:A:ILE:HG13	9	1.24
(1,998)	1:72:A:VAL:HG21	1:98:A:PHE:H	15	1.24
(1,842)	1:12:A:GLU:HG2	1:77:A:ILE:H	3	1.24
(1,530)	1:51:A:ALA:H	1:74:A:VAL:HG12	12	1.24
(3,2415)	1:62:A:LEU:HD13	1:70:A:ILE:H	2	1.23
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD12	7	1.23
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG23	3	1.23
(3,2238)	1:107:A:LEU:HD23	1:135:A:PRO:HD2	1	1.23
(3,2238)	1:107:A:LEU:HD23	1:135:A:PRO:HD2	7	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2201)	1:41:A:PRO:HD2	1:130:A:PRO:HD2	4	1.23
(3,1996)	1:46:A:VAL:HG21	1:48:A:ILE:HA	5	1.23
(3,1914)	1:77:A:ILE:HD11	1:80:A:ILE:HG13	17	1.23
(3,1875)	1:72:A:VAL:HG21	1:145:A:ARG:HD2	3	1.23
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG22	7	1.23
(3,1618)	1:66:A:ALA:HA	1:69:A:LYS:HG3	7	1.23
(3,1355)	1:48:A:ILE:HG22	1:49:A:GLN:HG3	3	1.23
(3,1355)	1:49:A:GLN:HG2	1:50:A:ILE:HD11	19	1.23
(3,1355)	1:48:A:ILE:HG21	1:49:A:GLN:HG3	20	1.23
(3,1323)	1:120:A:LEU:HD13	1:121:A:TYR:H	8	1.23
(3,1313)	1:72:A:VAL:HG12	1:76:A:ASN:HB3	15	1.23
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG21	7	1.23
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG23	9	1.23
(3,944)	1:132:A:LEU:HA	1:132:A:LEU:HD13	10	1.23
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB2	20	1.23
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG21	10	1.23
(3,631)	1:136:A:ASP:HB2	1:137:A:LYS:HD2	3	1.23
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD12	17	1.23
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	2	1.23
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	2	1.23
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	2	1.23
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	4	1.23
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	4	1.23
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	4	1.23
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	15	1.23
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	15	1.23
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	15	1.23
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	18	1.23
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	18	1.23
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	18	1.23
(1,1782)	1:107:A:LEU:HG	1:110:A:ILE:H	1	1.23
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	8	1.23
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	10	1.23
(1,1540)	1:46:A:VAL:HG22	1:47:A:ASN:HD22	16	1.23
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG23	2	1.23
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG21	20	1.23
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG23	12	1.23
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	11	1.23
(1,919)	1:48:A:ILE:HG22	1:84:A:ASP:H	2	1.23
(1,644)	1:62:A:LEU:H	1:88:A:LYS:HG3	5	1.23
(1,530)	1:31:A:VAL:HG13	1:51:A:ALA:H	6	1.23
(1,458)	1:46:A:VAL:H	1:62:A:LEU:HD13	8	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD11	2	1.22
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD12	10	1.22
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD12	16	1.22
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB3	9	1.22
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG23	2	1.22
(3,1915)	1:77:A:ILE:HD11	1:80:A:ILE:HB	2	1.22
(3,1915)	1:31:A:VAL:HB	1:77:A:ILE:HD11	11	1.22
(3,1912)	1:12:A:GLU:HG3	1:77:A:ILE:HD11	10	1.22
(3,1912)	1:12:A:GLU:HG2	1:77:A:ILE:HD11	15	1.22
(3,1787)	1:107:A:LEU:HD11	1:124:A:ILE:HA	5	1.22
(3,1787)	1:107:A:LEU:HD12	1:124:A:ILE:HA	9	1.22
(3,1787)	1:107:A:LEU:HD11	1:135:A:PRO:HD3	14	1.22
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD11	13	1.22
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD13	20	1.22
(3,1596)	1:42:A:ASP:HB3	1:62:A:LEU:HG	16	1.22
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG23	6	1.22
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG22	7	1.22
(3,1122)	1:57:A:VAL:HG23	1:58:A:THR:HB	7	1.22
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG22	6	1.22
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG21	18	1.22
(3,946)	1:107:A:LEU:HA	1:107:A:LEU:HD12	14	1.22
(3,935)	1:71:A:LEU:H	1:71:A:LEU:HD13	10	1.22
(3,753)	1:144:A:LEU:HB3	1:144:A:LEU:HD13	15	1.22
(3,433)	1:99:A:TYR:HD2	1:146:A:ILE:HG13	5	1.22
(3,433)	1:99:A:TYR:HD2	1:146:A:ILE:HG13	10	1.22
(3,242)	1:13:A:LYS:HE2	1:14:A:LEU:H	15	1.22
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	7	1.22
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	7	1.22
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	7	1.22
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	12	1.22
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	12	1.22
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	12	1.22
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG11	20	1.22
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG12	20	1.22
(3,110)	1:74:A:VAL:H	1:74:A:VAL:HG13	20	1.22
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD21	15	1.22
(1,1896)	1:112:A:LYS:HD2	1:113:A:GLN:HE22	2	1.22
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	4	1.22
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	10	1.22
(1,1479)	1:98:A:PHE:HE2	1:143:A:VAL:H	1	1.22
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	14	1.22
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG21	6	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG22	6	1.22
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG23	6	1.22
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	8	1.22
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD11	12	1.22
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE2	4	1.22
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG21	10	1.22
(3,2396)	1:14:A:LEU:HD21	1:34:A:HIS:HE1	12	1.21
(3,2368)	1:33:A:GLU:HG2	1:36:A:ASN:H	10	1.21
(3,2159)	1:113:A:GLN:H	1:124:A:ILE:HD13	1	1.21
(3,2091)	1:110:A:ILE:HD12	1:111:A:SER:HB3	4	1.21
(3,2069)	1:62:A:LEU:HD11	1:89:A:THR:HA	6	1.21
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	10	1.21
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	10	1.21
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	10	1.21
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	10	1.21
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	10	1.21
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	10	1.21
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	10	1.21
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	10	1.21
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	10	1.21
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG23	5	1.21
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG23	4	1.21
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD13	7	1.21
(3,1355)	1:48:A:ILE:HG21	1:49:A:GLN:HG3	11	1.21
(3,1323)	1:120:A:LEU:HD11	1:121:A:TYR:H	17	1.21
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	2	1.21
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	2	1.21
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	2	1.21
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG23	17	1.21
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG23	19	1.21
(3,1122)	1:57:A:VAL:HG21	1:58:A:THR:HB	2	1.21
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB3	19	1.21
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG22	3	1.21
(3,951)	1:62:A:LEU:HD13	1:67:A:LYS:HE3	19	1.21
(3,941)	1:107:A:LEU:HD11	1:125:A:PHE:HD2	6	1.21
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	12	1.21
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	12	1.21
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	12	1.21
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG21	20	1.21
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	14	1.21
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD13	8	1.21
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD22	1	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	19	1.21
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	1	1.21
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	16	1.21
(1,890)	1:53:A:GLY:HA3	1:80:A:ILE:H	5	1.21
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HG2	7	1.21
(1,530)	1:31:A:VAL:HG13	1:51:A:ALA:H	9	1.21
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	11	1.21
(1,224)	1:24:A:LYS:HE2	1:27:A:GLN:H	4	1.21
(1,111)	1:7:A:VAL:HG11	1:9:A:ASP:H	17	1.21
(1,111)	1:7:A:VAL:HG12	1:9:A:ASP:H	17	1.21
(1,111)	1:7:A:VAL:HG13	1:9:A:ASP:H	17	1.21
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD13	3	1.2
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD11	6	1.2
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	16	1.2
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	15	1.2
(3,2080)	1:110:A:ILE:HD12	1:113:A:GLN:HG3	1	1.2
(3,2076)	1:110:A:ILE:HD12	1:146:A:ILE:HG13	4	1.2
(3,1940)	1:106:A:THR:HG21	1:109:A:ALA:H	8	1.2
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD21	14	1.2
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD22	14	1.2
(3,1784)	1:62:A:LEU:H	1:62:A:LEU:HD23	14	1.2
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD12	2	1.2
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG21	20	1.2
(3,1692)	1:50:A:ILE:HG22	1:56:A:THR:H	9	1.2
(3,1545)	1:146:A:ILE:HG21	1:147:A:PRO:HB2	17	1.2
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG21	9	1.2
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG22	9	1.2
(3,1332)	1:15:A:TRP:HH2	1:31:A:VAL:HG23	9	1.2
(3,1247)	1:132:A:LEU:HA	1:132:A:LEU:HD23	6	1.2
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG21	12	1.2
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG23	15	1.2
(3,1122)	1:46:A:VAL:HG23	1:58:A:THR:HB	8	1.2
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB1	1	1.2
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB3	6	1.2
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG21	1	1.2
(3,948)	1:107:A:LEU:HD11	1:125:A:PHE:HB3	13	1.2
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	10	1.2
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	10	1.2
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	10	1.2
(3,753)	1:144:A:LEU:HB3	1:144:A:LEU:HD12	18	1.2
(3,361)	1:21:A:GLN:HB3	1:23:A:ASP:H	5	1.2
(1,1977)	1:43:A:ALA:HB2	1:74:A:VAL:H	18	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	1	1.2
(1,1854)	1:11:A:GLY:H	1:12:A:GLU:HB3	15	1.2
(1,1750)	1:96:A:SER:H	1:145:A:ARG:HB3	3	1.2
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	6	1.2
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG23	5	1.2
(1,1415)	1:137:A:LYS:HD2	1:138:A:ILE:H	18	1.2
(1,1339)	1:69:A:LYS:HE2	1:129:A:LYS:H	15	1.2
(1,1282)	1:107:A:LEU:HD13	1:126:A:GLU:H	10	1.2
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	12	1.2
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG23	18	1.2
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB3	5	1.2
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD12	8	1.2
(3,2485)	1:57:A:VAL:HG11	1:87:A:VAL:HB	9	1.19
(3,2474)	1:144:A:LEU:HD21	1:145:A:ARG:H	7	1.19
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD11	15	1.19
(3,2238)	1:107:A:LEU:HD22	1:135:A:PRO:HD2	12	1.19
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD21	16	1.19
(3,2091)	1:110:A:ILE:HD13	1:111:A:SER:HB3	2	1.19
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	14	1.19
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	14	1.19
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	14	1.19
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	14	1.19
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	14	1.19
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	14	1.19
(3,1996)	1:57:A:VAL:HA	1:87:A:VAL:HG13	7	1.19
(3,1940)	1:106:A:THR:HG22	1:109:A:ALA:H	13	1.19
(3,1915)	1:77:A:ILE:HD13	1:80:A:ILE:HB	15	1.19
(3,1596)	1:42:A:ASP:HB3	1:45:A:LYS:HD2	18	1.19
(3,1355)	1:48:A:ILE:HG21	1:49:A:GLN:HG3	14	1.19
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG21	5	1.19
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG22	5	1.19
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG23	5	1.19
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG21	5	1.19
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG22	5	1.19
(3,1270)	1:14:A:LEU:HD11	1:31:A:VAL:HG23	5	1.19
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG21	5	1.19
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG22	5	1.19
(3,1270)	1:14:A:LEU:HD12	1:31:A:VAL:HG23	5	1.19
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG21	5	1.19
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG22	5	1.19
(3,1270)	1:14:A:LEU:HD13	1:31:A:VAL:HG23	5	1.19
(3,1247)	1:132:A:LEU:HA	1:132:A:LEU:HD23	19	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1224)	1:28:A:ALA:HB3	1:49:A:GLN:HG2	14	1.19
(3,1224)	1:28:A:ALA:HB1	1:49:A:GLN:HG2	20	1.19
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG23	3	1.19
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG23	4	1.19
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG21	5	1.19
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG22	6	1.19
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG21	10	1.19
(3,1122)	1:57:A:VAL:HG11	1:58:A:THR:HB	19	1.19
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG21	2	1.19
(3,939)	1:71:A:LEU:HD12	1:98:A:PHE:HZ	3	1.19
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	9	1.19
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	9	1.19
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	9	1.19
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	14	1.19
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	14	1.19
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	14	1.19
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	1	1.19
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD22	17	1.19
(3,753)	1:144:A:LEU:HB3	1:144:A:LEU:HD12	2	1.19
(3,753)	1:144:A:LEU:HB3	1:144:A:LEU:HD11	13	1.19
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	12	1.19
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	12	1.19
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	12	1.19
(3,193)	1:132:A:LEU:HD21	1:133:A:LYS:H	20	1.19
(3,193)	1:132:A:LEU:HD22	1:133:A:LYS:H	20	1.19
(3,193)	1:132:A:LEU:HD23	1:133:A:LYS:H	20	1.19
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	14	1.19
(1,1731)	1:63:A:SER:HB3	1:93:A:ALA:H	8	1.19
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	4	1.19
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	9	1.19
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	2	1.19
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG21	13	1.19
(1,998)	1:72:A:VAL:HG22	1:98:A:PHE:H	16	1.19
(1,884)	1:31:A:VAL:HG21	1:80:A:ILE:H	2	1.19
(1,815)	1:35:A:LEU:HB2	1:43:A:ALA:H	16	1.19
(1,797)	1:43:A:ALA:HB2	1:73:A:ALA:H	9	1.19
(1,615)	1:57:A:VAL:HG11	1:59:A:GLY:H	19	1.19
(1,549)	1:54:A:LYS:HG3	1:55:A:ALA:H	7	1.19
(1,530)	1:31:A:VAL:HG11	1:51:A:ALA:H	10	1.19
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG21	19	1.19
(1,77)	1:3:A:LEU:HD21	1:6:A:PHE:H	6	1.19
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG21	8	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD21	18	1.18
(3,2092)	1:110:A:ILE:HD11	1:111:A:SER:HB2	8	1.18
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	13	1.18
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	11	1.18
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	11	1.18
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	11	1.18
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	11	1.18
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	11	1.18
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	11	1.18
(3,1978)	1:31:A:VAL:HG13	1:35:A:LEU:H	12	1.18
(3,1882)	1:63:A:SER:HB3	1:65:A:GLU:HB2	4	1.18
(3,1777)	1:69:A:LYS:HG2	1:145:A:ARG:HD2	19	1.18
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG23	5	1.18
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD11	5	1.18
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD12	5	1.18
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD13	5	1.18
(3,1437)	1:62:A:LEU:HD13	1:89:A:THR:HA	18	1.18
(3,1434)	1:132:A:LEU:HD12	1:138:A:ILE:H	1	1.18
(3,1274)	1:101:A:VAL:HG13	1:105:A:ASP:HA	6	1.18
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG22	20	1.18
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG21	2	1.18
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG22	9	1.18
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG23	16	1.18
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG21	18	1.18
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG23	11	1.18
(3,948)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	18	1.18
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB2	10	1.18
(3,753)	1:144:A:LEU:HB3	1:144:A:LEU:HD13	3	1.18
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	12	1.18
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	12	1.18
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	12	1.18
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	14	1.18
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	14	1.18
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	14	1.18
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	19	1.18
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	19	1.18
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	19	1.18
(3,317)	1:112:A:LYS:HA	1:115:A:TYR:HB3	11	1.18
(3,242)	1:29:A:LYS:HE3	1:30:A:LYS:H	13	1.18
(3,238)	1:29:A:LYS:HA	1:29:A:LYS:HD3	16	1.18
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG22	14	1.18
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG23	15	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	13	1.18
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	16	1.18
(1,1415)	1:137:A:LYS:HD2	1:138:A:ILE:H	7	1.18
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG21	8	1.18
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG21	10	1.18
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG22	10	1.18
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG23	10	1.18
(1,924)	1:74:A:VAL:HG21	1:84:A:ASP:H	20	1.18
(1,890)	1:53:A:GLY:HA3	1:80:A:ILE:H	15	1.18
(1,797)	1:43:A:ALA:HB1	1:73:A:ALA:H	7	1.18
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	4	1.18
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	13	1.18
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD13	5	1.17
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	10	1.17
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB2	7	1.17
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	11	1.17
(3,2091)	1:110:A:ILE:HD12	1:111:A:SER:HB3	3	1.17
(3,1915)	1:77:A:ILE:HD12	1:80:A:ILE:HB	13	1.17
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	11	1.17
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	11	1.17
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	11	1.17
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	11	1.17
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	11	1.17
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	11	1.17
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	11	1.17
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	11	1.17
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	11	1.17
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	15	1.17
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	15	1.17
(3,1743)	1:47:A:ASN:HB3	1:58:A:THR:HG21	16	1.17
(3,1545)	1:146:A:ILE:HG23	1:147:A:PRO:HB2	1	1.17
(3,1355)	1:48:A:ILE:HG22	1:49:A:GLN:HG3	18	1.17
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG21	13	1.17
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	6	1.17
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG22	10	1.17
(3,946)	1:107:A:LEU:HA	1:107:A:LEU:HD12	17	1.17
(3,944)	1:132:A:LEU:HA	1:132:A:LEU:HD13	9	1.17
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	8	1.17
(3,914)	1:120:A:LEU:HD21	1:123:A:LYS:HB2	2	1.17
(3,910)	1:62:A:LEU:HD11	1:87:A:VAL:HA	15	1.17
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	1	1.17
(3,753)	1:144:A:LEU:HB3	1:144:A:LEU:HD13	5	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,753)	1:144:A:LEU:HB3	1:144:A:LEU:HD11	19	1.17
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG22	11	1.17
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD21	1	1.17
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD22	1	1.17
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD23	1	1.17
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD21	6	1.17
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD22	6	1.17
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD23	6	1.17
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD21	15	1.17
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD22	15	1.17
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD23	15	1.17
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	2	1.17
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	2	1.17
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	2	1.17
(3,631)	1:135:A:PRO:HB3	1:136:A:ASP:HB2	6	1.17
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD12	15	1.17
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG23	3	1.17
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG23	9	1.17
(3,71)	1:50:A:ILE:HD12	1:51:A:ALA:H	6	1.17
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG21	2	1.17
(1,1697)	1:124:A:ILE:HG13	1:128:A:ASN:HD21	13	1.17
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	5	1.17
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	18	1.17
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	5	1.17
(1,1285)	1:69:A:LYS:HD2	1:127:A:ALA:H	17	1.17
(1,1221)	1:107:A:LEU:HB2	1:121:A:TYR:H	19	1.17
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG21	7	1.17
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG22	7	1.17
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG23	7	1.17
(1,815)	1:35:A:LEU:HB2	1:43:A:ALA:H	18	1.17
(1,237)	1:24:A:LYS:HG2	1:28:A:ALA:H	17	1.17
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	1	1.17
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG22	11	1.17
(3,2479)	1:132:A:LEU:HD22	1:139:A:TYR:HD1	16	1.16
(3,1912)	1:12:A:GLU:HG2	1:77:A:ILE:HD11	2	1.16
(3,1912)	1:12:A:GLU:HG2	1:77:A:ILE:HD11	4	1.16
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	16	1.16
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	16	1.16
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	16	1.16
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	16	1.16
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	16	1.16
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	16	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	16	1.16
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	16	1.16
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	16	1.16
(3,1606)	1:127:A:ALA:HB1	1:147:A:PRO:HD2	3	1.16
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG21	1	1.16
(3,1401)	1:29:A:LYS:HG3	1:33:A:GLU:HB2	1	1.16
(3,1323)	1:120:A:LEU:HD11	1:121:A:TYR:H	14	1.16
(3,1309)	1:3:A:LEU:HG	1:83:A:VAL:HG13	12	1.16
(3,1008)	1:15:A:TRP:HZ2	1:17:A:ALA:HB2	4	1.16
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG21	20	1.16
(3,759)	1:8:A:LYS:HG3	1:81:A:ALA:HB1	4	1.16
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	18	1.16
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	18	1.16
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	18	1.16
(3,689)	1:7:A:VAL:HA	1:10:A:ALA:HB2	3	1.16
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	10	1.16
(3,558)	1:3:A:LEU:HD12	1:82:A:SER:HB3	18	1.16
(3,317)	1:67:A:LYS:HA	1:67:A:LYS:HE2	10	1.16
(3,235)	1:37:A:LYS:HD2	1:38:A:THR:H	19	1.16
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	14	1.16
(1,1854)	1:11:A:GLY:H	1:12:A:GLU:HB3	18	1.16
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	11	1.16
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG21	15	1.16
(1,890)	1:53:A:GLY:HA3	1:80:A:ILE:H	18	1.16
(1,884)	1:8:A:LYS:HG2	1:80:A:ILE:H	8	1.16
(1,732)	1:40:A:ILE:HG22	1:69:A:LYS:H	16	1.16
(1,696)	1:67:A:LYS:H	1:70:A:ILE:HB	18	1.16
(1,290)	1:30:A:LYS:HB3	1:32:A:GLN:H	1	1.16
(1,111)	1:7:A:VAL:HG11	1:9:A:ASP:H	1	1.16
(1,111)	1:7:A:VAL:HG12	1:9:A:ASP:H	1	1.16
(1,111)	1:7:A:VAL:HG13	1:9:A:ASP:H	1	1.16
(3,2363)	1:50:A:ILE:HG23	1:52:A:ASP:HB3	5	1.15
(3,2335)	1:67:A:LYS:HE2	1:68:A:GLU:HG3	13	1.15
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD21	8	1.15
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	12	1.15
(3,2091)	1:110:A:ILE:HD13	1:111:A:SER:HB3	7	1.15
(3,2046)	1:101:A:VAL:HB	1:142:A:GLN:HB2	8	1.15
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE1	1	1.15
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE2	1	1.15
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE3	1	1.15
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE1	1	1.15
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE2	1	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE3	1	1.15
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE1	1	1.15
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE2	1	1.15
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE3	1	1.15
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	18	1.15
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	18	1.15
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	18	1.15
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	18	1.15
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	18	1.15
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	18	1.15
(3,1978)	1:31:A:VAL:HG13	1:35:A:LEU:H	11	1.15
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD12	13	1.15
(3,1743)	1:47:A:ASN:HB3	1:58:A:THR:HG21	8	1.15
(3,1596)	1:42:A:ASP:HB3	1:45:A:LYS:HD2	8	1.15
(3,1421)	1:24:A:LYS:HA	1:50:A:ILE:HB	11	1.15
(3,1323)	1:120:A:LEU:HD13	1:121:A:TYR:H	1	1.15
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG23	2	1.15
(3,1224)	1:28:A:ALA:HB3	1:49:A:GLN:HG2	5	1.15
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HD11	13	1.15
(3,1122)	1:46:A:VAL:HG22	1:58:A:THR:HB	11	1.15
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB2	7	1.15
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG23	17	1.15
(3,893)	1:67:A:LYS:HB3	1:71:A:LEU:HD11	20	1.15
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD21	3	1.15
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD22	3	1.15
(3,727)	1:71:A:LEU:HA	1:71:A:LEU:HD23	3	1.15
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD12	1	1.15
(3,420)	1:131:A:MET:HE1	1:132:A:LEU:HD13	9	1.15
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG21	5	1.15
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	6	1.15
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	15	1.15
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	11	1.15
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	7	1.15
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	17	1.15
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG23	6	1.15
(1,1415)	1:107:A:LEU:HB3	1:138:A:ILE:H	16	1.15
(1,884)	1:8:A:LYS:HG2	1:80:A:ILE:H	15	1.15
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	11	1.15
(1,237)	1:24:A:LYS:HG2	1:28:A:ALA:H	7	1.15
(3,2368)	1:33:A:GLU:HG2	1:36:A:ASN:H	6	1.14
(3,2368)	1:122:A:ASN:H	1:126:A:GLU:HG3	14	1.14
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD12	10	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2275)	1:132:A:LEU:HD22	1:139:A:TYR:HD1	12	1.14
(3,2069)	1:62:A:LEU:HD12	1:89:A:THR:HA	5	1.14
(3,1940)	1:106:A:THR:HG21	1:109:A:ALA:H	9	1.14
(3,1912)	1:35:A:LEU:HG	1:77:A:ILE:HD13	9	1.14
(3,1882)	1:63:A:SER:HB3	1:65:A:GLU:HB2	18	1.14
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG23	4	1.14
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD13	15	1.14
(3,1323)	1:120:A:LEU:HD12	1:121:A:TYR:H	10	1.14
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG23	10	1.14
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	16	1.14
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	16	1.14
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	16	1.14
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	16	1.14
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	16	1.14
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	16	1.14
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	16	1.14
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	16	1.14
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	16	1.14
(3,1246)	1:122:A:ASN:HD21	1:123:A:LYS:HD3	19	1.14
(3,951)	1:67:A:LYS:HE3	1:71:A:LEU:HD12	14	1.14
(3,944)	1:132:A:LEU:HD13	1:134:A:SER:HA	11	1.14
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	16	1.14
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	16	1.14
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	16	1.14
(3,748)	1:14:A:LEU:HD23	1:30:A:LYS:HB3	16	1.14
(3,736)	1:144:A:LEU:HA	1:144:A:LEU:HD11	20	1.14
(3,736)	1:144:A:LEU:HA	1:144:A:LEU:HD12	20	1.14
(3,736)	1:144:A:LEU:HA	1:144:A:LEU:HD13	20	1.14
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	20	1.14
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	20	1.14
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	20	1.14
(3,292)	1:92:A:PRO:HB3	1:92:A:PRO:HD3	14	1.14
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG22	10	1.14
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG22	19	1.14
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	11	1.14
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	15	1.14
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	20	1.14
(1,1479)	1:98:A:PHE:HE2	1:143:A:VAL:H	3	1.14
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	4	1.14
(1,965)	1:56:A:THR:HG21	1:87:A:VAL:H	3	1.14
(1,884)	1:31:A:VAL:HG21	1:80:A:ILE:H	4	1.14
(1,884)	1:31:A:VAL:HG23	1:80:A:ILE:H	14	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,797)	1:43:A:ALA:HB2	1:73:A:ALA:H	5	1.14
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD12	11	1.14
(1,212)	1:22:A:HIS:HB2	1:25:A:ASP:H	4	1.14
(3,2415)	1:71:A:LEU:HD12	1:72:A:VAL:H	7	1.13
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	14	1.13
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	4	1.13
(3,2091)	1:110:A:ILE:HD12	1:111:A:SER:HB3	1	1.13
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	8	1.13
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	8	1.13
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	8	1.13
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	8	1.13
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	8	1.13
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	8	1.13
(3,1996)	1:57:A:VAL:HA	1:87:A:VAL:HG13	16	1.13
(3,1996)	1:57:A:VAL:HA	1:87:A:VAL:HG12	17	1.13
(3,1912)	1:12:A:GLU:HG3	1:77:A:ILE:HD11	12	1.13
(3,1787)	1:107:A:LEU:HD11	1:135:A:PRO:HD3	17	1.13
(3,1692)	1:50:A:ILE:HG22	1:56:A:THR:H	10	1.13
(3,1692)	1:50:A:ILE:HG23	1:56:A:THR:H	17	1.13
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD11	6	1.13
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD12	6	1.13
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD13	6	1.13
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD11	20	1.13
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD12	20	1.13
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD13	20	1.13
(3,1437)	1:62:A:LEU:HD12	1:89:A:THR:HA	8	1.13
(3,1426)	1:62:A:LEU:HD12	1:66:A:ALA:HB3	19	1.13
(3,1325)	1:6:A:PHE:HZ	1:83:A:VAL:HG23	15	1.13
(3,1323)	1:120:A:LEU:HD13	1:121:A:TYR:H	16	1.13
(3,1247)	1:132:A:LEU:HA	1:132:A:LEU:HD23	5	1.13
(3,1224)	1:28:A:ALA:HB3	1:49:A:GLN:HG2	18	1.13
(3,1176)	1:113:A:GLN:HA	1:113:A:GLN:HG2	1	1.13
(3,1130)	1:46:A:VAL:HA	1:46:A:VAL:HG23	1	1.13
(3,1122)	1:57:A:VAL:HG12	1:58:A:THR:HB	1	1.13
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	15	1.13
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG23	17	1.13
(3,951)	1:4:A:PHE:HB2	1:71:A:LEU:HD13	5	1.13
(3,736)	1:144:A:LEU:HA	1:144:A:LEU:HD11	6	1.13
(3,736)	1:144:A:LEU:HA	1:144:A:LEU:HD12	6	1.13
(3,736)	1:144:A:LEU:HA	1:144:A:LEU:HD13	6	1.13
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG21	15	1.13
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	11	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	11	1.13
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	11	1.13
(3,666)	1:28:A:ALA:HA	1:31:A:VAL:HB	9	1.13
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD12	7	1.13
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD11	14	1.13
(3,433)	1:99:A:TYR:HD2	1:146:A:ILE:HG13	9	1.13
(3,292)	1:92:A:PRO:HB3	1:92:A:PRO:HD3	3	1.13
(3,292)	1:92:A:PRO:HB3	1:92:A:PRO:HD3	7	1.13
(3,292)	1:92:A:PRO:HB3	1:92:A:PRO:HD3	8	1.13
(3,292)	1:92:A:PRO:HB3	1:92:A:PRO:HD3	18	1.13
(3,292)	1:92:A:PRO:HB3	1:92:A:PRO:HD3	19	1.13
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG21	6	1.13
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	5	1.13
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	19	1.13
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HB3	5	1.13
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG22	15	1.13
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG23	11	1.13
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	1	1.13
(1,815)	1:35:A:LEU:HB2	1:43:A:ALA:H	6	1.13
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG22	6	1.13
(3,2479)	1:132:A:LEU:HD22	1:139:A:TYR:H	1	1.12
(3,2415)	1:71:A:LEU:HD13	1:72:A:VAL:H	10	1.12
(3,2415)	1:71:A:LEU:HD11	1:72:A:VAL:H	12	1.12
(3,2368)	1:33:A:GLU:HG2	1:36:A:ASN:H	4	1.12
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE3	18	1.12
(3,2194)	1:54:A:LYS:HG3	1:55:A:ALA:H	19	1.12
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB3	11	1.12
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	13	1.12
(3,2099)	1:110:A:ILE:HD11	1:115:A:TYR:HD2	17	1.12
(3,2091)	1:110:A:ILE:HD11	1:111:A:SER:HB3	16	1.12
(3,2091)	1:110:A:ILE:HD13	1:111:A:SER:HB3	19	1.12
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	12	1.12
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	12	1.12
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	12	1.12
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	12	1.12
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	12	1.12
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	12	1.12
(3,1940)	1:106:A:THR:HG22	1:109:A:ALA:H	15	1.12
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	14	1.12
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	14	1.12
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	14	1.12
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	14	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	14	1.12
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	14	1.12
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	14	1.12
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	14	1.12
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	14	1.12
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD13	2	1.12
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG22	18	1.12
(3,1692)	1:50:A:ILE:HG21	1:56:A:THR:H	15	1.12
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG21	19	1.12
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD22	17	1.12
(3,1434)	1:132:A:LEU:HD11	1:138:A:ILE:H	12	1.12
(3,1430)	1:131:A:MET:HE2	1:132:A:LEU:HD13	2	1.12
(3,1401)	1:33:A:GLU:HB2	1:37:A:LYS:HG2	18	1.12
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG22	9	1.12
(3,1316)	1:31:A:VAL:HG23	1:77:A:ILE:HA	14	1.12
(3,1224)	1:28:A:ALA:HB3	1:31:A:VAL:HB	4	1.12
(3,1176)	1:113:A:GLN:HA	1:113:A:GLN:HG2	12	1.12
(3,1176)	1:113:A:GLN:HA	1:113:A:GLN:HG2	13	1.12
(3,935)	1:71:A:LEU:H	1:71:A:LEU:HD12	4	1.12
(3,914)	1:120:A:LEU:HD23	1:149:A:GLU:HG2	18	1.12
(3,837)	1:118:A:ALA:HB3	1:120:A:LEU:H	15	1.12
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	19	1.12
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	19	1.12
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	19	1.12
(3,666)	1:28:A:ALA:HA	1:31:A:VAL:HB	10	1.12
(3,631)	1:136:A:ASP:HB2	1:137:A:LYS:HD2	16	1.12
(3,433)	1:99:A:TYR:HD2	1:146:A:ILE:HG13	4	1.12
(3,292)	1:92:A:PRO:HB3	1:92:A:PRO:HD3	2	1.12
(3,292)	1:92:A:PRO:HB3	1:92:A:PRO:HD3	5	1.12
(3,292)	1:92:A:PRO:HB3	1:92:A:PRO:HD3	16	1.12
(3,208)	1:101:A:VAL:HB	1:142:A:GLN:H	19	1.12
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG23	7	1.12
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD23	6	1.12
(1,1782)	1:107:A:LEU:HG	1:110:A:ILE:H	16	1.12
(1,1494)	1:143:A:VAL:HG11	1:144:A:LEU:H	1	1.12
(1,1415)	1:137:A:LYS:HD2	1:138:A:ILE:H	1	1.12
(1,1415)	1:137:A:LYS:HD2	1:138:A:ILE:H	20	1.12
(1,1285)	1:69:A:LYS:HD2	1:127:A:ALA:H	8	1.12
(1,998)	1:72:A:VAL:HG22	1:98:A:PHE:H	3	1.12
(1,884)	1:8:A:LYS:HG2	1:80:A:ILE:H	18	1.12
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG21	12	1.12
(1,614)	1:59:A:GLY:H	1:62:A:LEU:HB2	14	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	19	1.11
(3,2479)	1:132:A:LEU:HD23	1:139:A:TYR:H	14	1.11
(3,2415)	1:71:A:LEU:HD11	1:72:A:VAL:H	9	1.11
(3,2335)	1:33:A:GLU:HG2	1:37:A:LYS:HE3	3	1.11
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD11	17	1.11
(3,1940)	1:106:A:THR:HG21	1:109:A:ALA:H	17	1.11
(3,1914)	1:14:A:LEU:HB3	1:77:A:ILE:HD13	3	1.11
(3,1914)	1:77:A:ILE:HD11	1:80:A:ILE:HG13	6	1.11
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	20	1.11
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	20	1.11
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	20	1.11
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	20	1.11
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	20	1.11
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	20	1.11
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	20	1.11
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	20	1.11
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	20	1.11
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD12	9	1.11
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG23	17	1.11
(3,1692)	1:50:A:ILE:HG23	1:56:A:THR:H	1	1.11
(3,1692)	1:50:A:ILE:HG21	1:56:A:THR:H	8	1.11
(3,1692)	1:50:A:ILE:HG23	1:56:A:THR:H	11	1.11
(3,1618)	1:66:A:ALA:HA	1:69:A:LYS:HG3	5	1.11
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG22	3	1.11
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG21	7	1.11
(3,1424)	1:26:A:ASP:HB3	1:27:A:GLN:HG2	3	1.11
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	11	1.11
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	11	1.11
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	11	1.11
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG12	5	1.11
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG12	8	1.11
(3,1215)	1:106:A:THR:HA	1:138:A:ILE:HG21	20	1.11
(3,1034)	1:56:A:THR:HG23	1:85:A:ASP:HA	18	1.11
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG11	19	1.11
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG12	19	1.11
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG13	19	1.11
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	2	1.11
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	2	1.11
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	2	1.11
(3,737)	1:71:A:LEU:HD21	1:85:A:ASP:HA	8	1.11
(3,737)	1:71:A:LEU:HD22	1:85:A:ASP:HA	8	1.11
(3,737)	1:71:A:LEU:HD23	1:85:A:ASP:HA	8	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD12	20	1.11
(3,235)	1:37:A:LYS:HD2	1:38:A:THR:H	6	1.11
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	8	1.11
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG22	1	1.11
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG23	12	1.11
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG23	17	1.11
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG22	18	1.11
(3,76)	1:57:A:VAL:HG22	1:58:A:THR:H	4	1.11
(3,76)	1:57:A:VAL:HG23	1:58:A:THR:H	6	1.11
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	13	1.11
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	17	1.11
(1,1285)	1:69:A:LYS:HD3	1:127:A:ALA:H	16	1.11
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG21	5	1.11
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG22	5	1.11
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG23	5	1.11
(1,924)	1:74:A:VAL:HG22	1:84:A:ASP:H	16	1.11
(1,919)	1:48:A:ILE:HG21	1:84:A:ASP:H	5	1.11
(1,884)	1:8:A:LYS:HG2	1:80:A:ILE:H	12	1.11
(1,644)	1:45:A:LYS:HG3	1:62:A:LEU:H	20	1.11
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	18	1.11
(1,237)	1:24:A:LYS:HG2	1:28:A:ALA:H	3	1.11
(3,2485)	1:57:A:VAL:HG11	1:87:A:VAL:HB	2	1.1
(3,2368)	1:122:A:ASN:H	1:126:A:GLU:HG3	3	1.1
(3,2363)	1:50:A:ILE:HG23	1:52:A:ASP:HB3	6	1.1
(3,2275)	1:138:A:ILE:HG22	1:139:A:TYR:HD1	19	1.1
(3,2091)	1:110:A:ILE:HD13	1:111:A:SER:HB3	6	1.1
(3,1915)	1:77:A:ILE:HD11	1:80:A:ILE:HB	19	1.1
(3,1787)	1:107:A:LEU:HD11	1:135:A:PRO:HD3	2	1.1
(3,1787)	1:107:A:LEU:HD13	1:108:A:SER:HB3	18	1.1
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG21	10	1.1
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG22	11	1.1
(3,1511)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	12	1.1
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	14	1.1
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG23	8	1.1
(3,1302)	1:83:A:VAL:HG13	1:85:A:ASP:HB3	7	1.1
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	6	1.1
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	6	1.1
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	6	1.1
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	4	1.1
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	4	1.1
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	4	1.1
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	4	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	4	1.1
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	4	1.1
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	4	1.1
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	4	1.1
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	4	1.1
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	10	1.1
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	10	1.1
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	10	1.1
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	10	1.1
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	10	1.1
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	10	1.1
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	10	1.1
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	10	1.1
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	10	1.1
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG12	4	1.1
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG12	6	1.1
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG13	18	1.1
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG11	19	1.1
(3,1215)	1:106:A:THR:HA	1:138:A:ILE:HG21	16	1.1
(3,1176)	1:113:A:GLN:HA	1:113:A:GLN:HG2	7	1.1
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB3	14	1.1
(3,1008)	1:15:A:TRP:HZ2	1:17:A:ALA:HB2	5	1.1
(3,935)	1:71:A:LEU:H	1:71:A:LEU:HD12	13	1.1
(3,934)	1:14:A:LEU:HD12	1:31:A:VAL:H	13	1.1
(3,748)	1:14:A:LEU:HD23	1:30:A:LYS:HB3	11	1.1
(3,736)	1:144:A:LEU:HA	1:144:A:LEU:HD11	11	1.1
(3,736)	1:144:A:LEU:HA	1:144:A:LEU:HD12	11	1.1
(3,736)	1:144:A:LEU:HA	1:144:A:LEU:HD13	11	1.1
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	14	1.1
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	14	1.1
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	14	1.1
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	8	1.1
(3,558)	1:3:A:LEU:HD11	1:82:A:SER:HB3	10	1.1
(3,545)	1:74:A:VAL:HA	1:74:A:VAL:HG12	3	1.1
(3,433)	1:99:A:TYR:HD2	1:146:A:ILE:HG13	18	1.1
(3,242)	1:29:A:LYS:HE2	1:30:A:LYS:H	4	1.1
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG23	11	1.1
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	7	1.1
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD3	14	1.1
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	3	1.1
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	19	1.1
(1,1494)	1:143:A:VAL:HG13	1:144:A:LEU:H	3	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1097)	1:107:A:LEU:HD23	1:110:A:ILE:H	16	1.1
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG21	8	1.1
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG22	8	1.1
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG23	8	1.1
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG21	11	1.1
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG22	11	1.1
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG23	11	1.1
(1,671)	1:66:A:ALA:H	1:70:A:ILE:HD13	8	1.1
(1,288)	1:32:A:GLN:H	1:32:A:GLN:HG3	4	1.1
(1,288)	1:32:A:GLN:H	1:32:A:GLN:HG3	6	1.1
(1,274)	1:31:A:VAL:H	1:80:A:ILE:HG12	9	1.1
(1,237)	1:24:A:LYS:HG2	1:28:A:ALA:H	10	1.1
(1,111)	1:7:A:VAL:HG11	1:9:A:ASP:H	8	1.1
(1,111)	1:7:A:VAL:HG12	1:9:A:ASP:H	8	1.1
(1,111)	1:7:A:VAL:HG13	1:9:A:ASP:H	8	1.1
(1,61)	1:83:A:VAL:H	1:83:A:VAL:HG22	11	1.1
(1,61)	1:83:A:VAL:H	1:83:A:VAL:HG21	12	1.1
(3,2364)	1:46:A:VAL:HG12	1:47:A:ASN:HB2	11	1.09
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	9	1.09
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB3	12	1.09
(3,2113)	1:107:A:LEU:HD11	1:135:A:PRO:HB3	6	1.09
(3,2091)	1:110:A:ILE:HD13	1:111:A:SER:HB3	11	1.09
(3,2091)	1:110:A:ILE:HD13	1:111:A:SER:HB3	20	1.09
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	19	1.09
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	19	1.09
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	19	1.09
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	19	1.09
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	19	1.09
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	19	1.09
(3,1955)	1:128:A:ASN:HA	1:132:A:LEU:HD23	15	1.09
(3,1882)	1:62:A:LEU:HB3	1:63:A:SER:HB3	12	1.09
(3,1831)	1:14:A:LEU:HD13	1:30:A:LYS:HB2	20	1.09
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD11	14	1.09
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG21	5	1.09
(3,1738)	1:14:A:LEU:HD22	1:34:A:HIS:HE1	18	1.09
(3,1692)	1:50:A:ILE:HG21	1:56:A:THR:H	4	1.09
(3,1401)	1:33:A:GLU:HB2	1:37:A:LYS:HG2	4	1.09
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG22	14	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	1	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	1	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	1	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	2	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	2	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	2	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	5	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	5	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	5	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	7	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	7	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	7	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	9	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	9	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	9	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	10	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	10	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	10	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	11	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	11	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	11	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	13	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	13	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	13	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	16	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	16	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	16	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	18	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	18	1.09
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	18	1.09
(3,1323)	1:120:A:LEU:HD11	1:121:A:TYR:H	11	1.09
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	11	1.09
(3,1317)	1:87:A:VAL:HG13	1:88:A:LYS:HA	9	1.09
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG13	7	1.09
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG11	12	1.09
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG11	12	1.09
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG12	18	1.09
(3,939)	1:71:A:LEU:HD12	1:98:A:PHE:HZ	6	1.09
(3,893)	1:62:A:LEU:HD11	1:67:A:LYS:HB3	16	1.09
(3,837)	1:118:A:ALA:HB2	1:120:A:LEU:H	9	1.09
(3,728)	1:7:A:VAL:HG23	1:100:A:THR:HB	19	1.09
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	17	1.09
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	17	1.09
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	17	1.09
(3,659)	1:129:A:LYS:HE2	1:130:A:PRO:HA	15	1.09
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	13	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,249)	1:35:A:LEU:H	1:35:A:LEU:HD22	2	1.09
(3,193)	1:132:A:LEU:HD21	1:133:A:LYS:H	3	1.09
(3,193)	1:132:A:LEU:HD22	1:133:A:LYS:H	3	1.09
(3,193)	1:132:A:LEU:HD23	1:133:A:LYS:H	3	1.09
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	20	1.09
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG21	2	1.09
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG22	4	1.09
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG23	13	1.09
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG22	20	1.09
(1,1896)	1:102:A:LYS:HD2	1:113:A:GLN:HE22	11	1.09
(1,1750)	1:96:A:SER:H	1:145:A:ARG:HB3	2	1.09
(1,1583)	1:3:A:LEU:HD12	1:86:A:GLN:HE22	7	1.09
(1,1571)	1:148:A:GLU:HG3	1:151:A:GLU:H	15	1.09
(1,1218)	1:120:A:LEU:H	1:120:A:LEU:HG	14	1.09
(1,590)	1:48:A:ILE:HG13	1:58:A:THR:H	14	1.09
(1,549)	1:54:A:LYS:HG3	1:55:A:ALA:H	11	1.09
(1,302)	1:129:A:LYS:HG3	1:132:A:LEU:H	4	1.09
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	17	1.09
(1,111)	1:7:A:VAL:HG11	1:9:A:ASP:H	5	1.09
(1,111)	1:7:A:VAL:HG12	1:9:A:ASP:H	5	1.09
(1,111)	1:7:A:VAL:HG13	1:9:A:ASP:H	5	1.09
(3,2487)	1:43:A:ALA:HA	1:46:A:VAL:HG12	15	1.08
(3,2415)	1:71:A:LEU:HD11	1:72:A:VAL:H	18	1.08
(3,2306)	1:132:A:LEU:HD11	1:144:A:LEU:HD23	6	1.08
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD23	2	1.08
(3,2091)	1:110:A:ILE:HD13	1:111:A:SER:HB3	9	1.08
(3,2091)	1:110:A:ILE:HD13	1:111:A:SER:HB3	10	1.08
(3,1955)	1:128:A:ASN:HA	1:132:A:LEU:HD21	20	1.08
(3,1940)	1:106:A:THR:HG22	1:109:A:ALA:H	1	1.08
(3,1940)	1:106:A:THR:HG21	1:109:A:ALA:H	10	1.08
(3,1914)	1:77:A:ILE:HD11	1:80:A:ILE:HG13	11	1.08
(3,1914)	1:77:A:ILE:HD12	1:80:A:ILE:HG13	14	1.08
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	17	1.08
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	17	1.08
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	17	1.08
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	17	1.08
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	17	1.08
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	17	1.08
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	17	1.08
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	17	1.08
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	17	1.08
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD13	5	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG22	12	1.08
(3,1545)	1:146:A:ILE:HG23	1:147:A:PRO:HB2	7	1.08
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG23	8	1.08
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG23	20	1.08
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD11	15	1.08
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD12	15	1.08
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD13	15	1.08
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD12	5	1.08
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	3	1.08
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	3	1.08
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	3	1.08
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	4	1.08
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	4	1.08
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	4	1.08
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	14	1.08
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	14	1.08
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	14	1.08
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG21	19	1.08
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	2	1.08
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	2	1.08
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	2	1.08
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	2	1.08
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	2	1.08
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	2	1.08
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	2	1.08
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	2	1.08
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	2	1.08
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	11	1.08
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	11	1.08
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	11	1.08
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	11	1.08
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	11	1.08
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	11	1.08
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	11	1.08
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	11	1.08
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	11	1.08
(3,1224)	1:28:A:ALA:HB3	1:31:A:VAL:HB	12	1.08
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG21	7	1.08
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB3	4	1.08
(3,1034)	1:62:A:LEU:HA	1:91:A:THR:HG21	14	1.08
(3,1013)	1:17:A:ALA:HB2	1:18:A:VAL:HA	12	1.08
(3,1008)	1:15:A:TRP:H	1:17:A:ALA:HB3	1	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	14	1.08
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	14	1.08
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	14	1.08
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	18	1.08
(3,893)	1:62:A:LEU:HD13	1:67:A:LYS:HB3	2	1.08
(3,837)	1:118:A:ALA:HB1	1:120:A:LEU:H	6	1.08
(3,837)	1:118:A:ALA:HB3	1:120:A:LEU:H	19	1.08
(3,748)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	9	1.08
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG23	17	1.08
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	9	1.08
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	9	1.08
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	9	1.08
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	11	1.08
(3,558)	1:3:A:LEU:HD13	1:82:A:SER:HB3	9	1.08
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD13	4	1.08
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD23	20	1.08
(3,420)	1:131:A:MET:HE3	1:132:A:LEU:HD11	11	1.08
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	5	1.08
(3,316)	1:112:A:LYS:H	1:112:A:LYS:HD3	6	1.08
(3,194)	1:132:A:LEU:HD13	1:133:A:LYS:H	16	1.08
(3,193)	1:132:A:LEU:HD21	1:133:A:LYS:H	13	1.08
(3,193)	1:132:A:LEU:HD22	1:133:A:LYS:H	13	1.08
(3,193)	1:132:A:LEU:HD23	1:133:A:LYS:H	13	1.08
(3,93)	1:70:A:ILE:H	1:70:A:ILE:HG23	8	1.08
(3,78)	1:57:A:VAL:H	1:57:A:VAL:HG12	13	1.08
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	12	1.08
(1,1782)	1:107:A:LEU:HG	1:110:A:ILE:H	12	1.08
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	18	1.08
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG22	3	1.08
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG22	13	1.08
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG21	9	1.08
(1,1140)	1:107:A:LEU:HD22	1:114:A:VAL:H	14	1.08
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD13	9	1.08
(1,884)	1:8:A:LYS:HG2	1:80:A:ILE:H	19	1.08
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	12	1.08
(1,644)	1:62:A:LEU:H	1:88:A:LYS:HG3	8	1.08
(1,290)	1:30:A:LYS:HB3	1:32:A:GLN:H	5	1.08
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	7	1.08
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG22	1	1.08
(3,2415)	1:71:A:LEU:HD12	1:72:A:VAL:H	4	1.07
(3,2415)	1:71:A:LEU:HD11	1:72:A:VAL:H	14	1.07
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD11	1	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD12	8	1.07
(3,2238)	1:107:A:LEU:HD21	1:135:A:PRO:HD2	10	1.07
(3,2120)	1:132:A:LEU:HD21	1:139:A:TYR:HE1	4	1.07
(3,2099)	1:110:A:ILE:HD11	1:115:A:TYR:HD2	16	1.07
(3,2091)	1:110:A:ILE:HD11	1:111:A:SER:HB3	17	1.07
(3,2076)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	19	1.07
(3,2046)	1:101:A:VAL:HB	1:142:A:GLN:HB2	20	1.07
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	6	1.07
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	6	1.07
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	6	1.07
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	6	1.07
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	6	1.07
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	6	1.07
(3,1912)	1:12:A:GLU:HG3	1:77:A:ILE:HD12	19	1.07
(3,1831)	1:14:A:LEU:HD11	1:30:A:LYS:HB2	19	1.07
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG22	6	1.07
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG22	19	1.07
(3,1738)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	19	1.07
(3,1693)	1:40:A:ILE:HG22	1:70:A:ILE:H	15	1.07
(3,1559)	1:40:A:ILE:HG21	1:41:A:PRO:HA	14	1.07
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG21	10	1.07
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG21	14	1.07
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG21	3	1.07
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG21	19	1.07
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	7	1.07
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	7	1.07
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	7	1.07
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG11	6	1.07
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG12	6	1.07
(3,1337)	1:101:A:VAL:H	1:101:A:VAL:HG13	6	1.07
(3,1336)	1:72:A:VAL:HG11	1:73:A:ALA:H	5	1.07
(3,1336)	1:72:A:VAL:HG12	1:73:A:ALA:H	5	1.07
(3,1336)	1:72:A:VAL:HG13	1:73:A:ALA:H	5	1.07
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG21	16	1.07
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG23	11	1.07
(3,1313)	1:72:A:VAL:HG11	1:145:A:ARG:HD3	6	1.07
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	17	1.07
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	17	1.07
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	17	1.07
(3,1247)	1:132:A:LEU:HA	1:132:A:LEU:HD22	20	1.07
(3,1224)	1:28:A:ALA:HB2	1:31:A:VAL:HB	7	1.07
(3,951)	1:4:A:PHE:HB2	1:71:A:LEU:HD11	7	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	16	1.07
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	6	1.07
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	6	1.07
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	6	1.07
(3,545)	1:74:A:VAL:HA	1:74:A:VAL:HG13	9	1.07
(3,520)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	11	1.07
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD12	16	1.07
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	9	1.07
(3,242)	1:29:A:LYS:HE2	1:30:A:LYS:H	9	1.07
(3,193)	1:132:A:LEU:HD21	1:133:A:LYS:H	15	1.07
(3,193)	1:132:A:LEU:HD22	1:133:A:LYS:H	15	1.07
(3,193)	1:132:A:LEU:HD23	1:133:A:LYS:H	15	1.07
(3,193)	1:132:A:LEU:HD21	1:133:A:LYS:H	18	1.07
(3,193)	1:132:A:LEU:HD22	1:133:A:LYS:H	18	1.07
(3,193)	1:132:A:LEU:HD23	1:133:A:LYS:H	18	1.07
(3,142)	1:107:A:LEU:HD13	1:110:A:ILE:HD11	14	1.07
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	1	1.07
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	7	1.07
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	16	1.07
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	20	1.07
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	4	1.07
(1,1874)	1:68:A:GLU:HG3	1:145:A:ARG:HE	20	1.07
(1,1849)	1:101:A:VAL:HG22	1:106:A:THR:H	16	1.07
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG22	18	1.07
(1,1494)	1:143:A:VAL:HG13	1:144:A:LEU:H	20	1.07
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	6	1.07
(1,1226)	1:107:A:LEU:HD23	1:121:A:TYR:H	4	1.07
(1,1202)	1:119:A:ASN:H	1:156:A:HIS:HB3	8	1.07
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG22	2	1.07
(1,696)	1:67:A:LYS:H	1:68:A:GLU:HB2	4	1.07
(1,696)	1:67:A:LYS:H	1:68:A:GLU:HB2	7	1.07
(1,237)	1:28:A:ALA:H	1:48:A:ILE:HG13	16	1.07
(1,237)	1:24:A:LYS:HG2	1:28:A:ALA:H	18	1.07
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	14	1.07
(3,2479)	1:132:A:LEU:HD21	1:139:A:TYR:H	12	1.06
(3,2415)	1:71:A:LEU:HD13	1:72:A:VAL:H	16	1.06
(3,2028)	1:7:A:VAL:HG11	1:9:A:ASP:HB3	17	1.06
(3,2028)	1:7:A:VAL:HG12	1:9:A:ASP:HB3	17	1.06
(3,2028)	1:7:A:VAL:HG13	1:9:A:ASP:HB3	17	1.06
(3,1914)	1:77:A:ILE:HD13	1:80:A:ILE:HG13	1	1.06
(3,1912)	1:12:A:GLU:HG2	1:77:A:ILE:HD13	5	1.06
(3,1743)	1:47:A:ASN:HB3	1:58:A:THR:HG22	4	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1692)	1:50:A:ILE:HG23	1:56:A:THR:H	2	1.06
(3,1692)	1:50:A:ILE:HG21	1:56:A:THR:H	13	1.06
(3,1434)	1:132:A:LEU:HD13	1:138:A:ILE:H	8	1.06
(3,1399)	1:30:A:LYS:HD3	1:33:A:GLU:HG2	12	1.06
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD13	13	1.06
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	9	1.06
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	9	1.06
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	9	1.06
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG22	7	1.06
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG12	2	1.06
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	13	1.06
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	13	1.06
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	13	1.06
(3,948)	1:107:A:LEU:HD11	1:125:A:PHE:HB3	8	1.06
(3,944)	1:132:A:LEU:HA	1:132:A:LEU:HD12	7	1.06
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	9	1.06
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	9	1.06
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	9	1.06
(3,914)	1:120:A:LEU:HD23	1:149:A:GLU:HG2	4	1.06
(3,893)	1:67:A:LYS:HB3	1:71:A:LEU:HD12	15	1.06
(3,837)	1:118:A:ALA:HB1	1:120:A:LEU:H	10	1.06
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	18	1.06
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	18	1.06
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	18	1.06
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	15	1.06
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	15	1.06
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	15	1.06
(3,728)	1:7:A:VAL:HG22	1:100:A:THR:HB	3	1.06
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG23	6	1.06
(3,420)	1:131:A:MET:HE1	1:132:A:LEU:HD23	6	1.06
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	3	1.06
(3,235)	1:37:A:LYS:HD2	1:38:A:THR:H	3	1.06
(3,235)	1:37:A:LYS:HD3	1:38:A:THR:H	16	1.06
(3,165)	1:26:A:ASP:HA	1:30:A:LYS:HD3	4	1.06
(3,76)	1:57:A:VAL:HG21	1:58:A:THR:H	10	1.06
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	6	1.06
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	13	1.06
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	16	1.06
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG21	16	1.06
(1,1059)	1:103:A:SER:HB2	1:105:A:ASP:H	1	1.06
(1,1059)	1:105:A:ASP:H	1:140:A:PRO:HA	10	1.06
(1,998)	1:72:A:VAL:HG22	1:98:A:PHE:H	12	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,842)	1:12:A:GLU:HG3	1:77:A:ILE:H	20	1.06
(1,644)	1:62:A:LEU:H	1:66:A:ALA:HB1	9	1.06
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB2	10	1.06
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG12	17	1.06
(1,389)	1:31:A:VAL:HG12	1:38:A:THR:H	15	1.06
(1,77)	1:3:A:LEU:HD11	1:6:A:PHE:H	5	1.06
(3,2368)	1:122:A:ASN:H	1:126:A:GLU:HG3	7	1.05
(3,2288)	1:12:A:GLU:HA	1:77:A:ILE:HG22	19	1.05
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	18	1.05
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	5	1.05
(3,2091)	1:110:A:ILE:HD13	1:111:A:SER:HB3	5	1.05
(3,2046)	1:101:A:VAL:HB	1:142:A:GLN:HB2	15	1.05
(3,2012)	1:31:A:VAL:HG13	1:32:A:GLN:HG2	12	1.05
(3,1946)	1:12:A:GLU:HG3	1:38:A:THR:HG21	10	1.05
(3,1912)	1:35:A:LEU:HG	1:77:A:ILE:HD12	17	1.05
(3,1752)	1:14:A:LEU:HD23	1:30:A:LYS:HB2	17	1.05
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG23	7	1.05
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG23	10	1.05
(3,1693)	1:40:A:ILE:HG23	1:70:A:ILE:H	16	1.05
(3,1692)	1:50:A:ILE:HG23	1:56:A:THR:H	19	1.05
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD11	4	1.05
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD12	4	1.05
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD13	4	1.05
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG21	16	1.05
(3,1437)	1:62:A:LEU:HD11	1:89:A:THR:HA	16	1.05
(3,1399)	1:148:A:GLU:HG3	1:149:A:GLU:HB3	8	1.05
(3,1361)	1:32:A:GLN:HB2	1:35:A:LEU:HD12	14	1.05
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG21	9	1.05
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG22	9	1.05
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG23	9	1.05
(3,1316)	1:31:A:VAL:HG22	1:77:A:ILE:HA	17	1.05
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	3	1.05
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	3	1.05
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	3	1.05
(3,1246)	1:122:A:ASN:HD21	1:123:A:LYS:HD2	9	1.05
(3,1215)	1:106:A:THR:HA	1:138:A:ILE:HG23	4	1.05
(3,1085)	1:142:A:GLN:HE21	1:144:A:LEU:HD11	11	1.05
(3,944)	1:132:A:LEU:HA	1:132:A:LEU:HD12	8	1.05
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD21	20	1.05
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD22	20	1.05
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD23	20	1.05
(3,893)	1:67:A:LYS:HB3	1:71:A:LEU:HD13	13	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,893)	1:62:A:LEU:HD13	1:67:A:LYS:HB3	18	1.05
(3,737)	1:71:A:LEU:HD21	1:85:A:ASP:HA	3	1.05
(3,737)	1:71:A:LEU:HD22	1:85:A:ASP:HA	3	1.05
(3,737)	1:71:A:LEU:HD23	1:85:A:ASP:HA	3	1.05
(3,737)	1:71:A:LEU:HD21	1:85:A:ASP:HA	15	1.05
(3,737)	1:71:A:LEU:HD22	1:85:A:ASP:HA	15	1.05
(3,737)	1:71:A:LEU:HD23	1:85:A:ASP:HA	15	1.05
(3,728)	1:7:A:VAL:HG21	1:100:A:THR:HB	4	1.05
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	1	1.05
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	11	1.05
(3,242)	1:29:A:LYS:HE3	1:30:A:LYS:H	18	1.05
(3,235)	1:29:A:LYS:H	1:29:A:LYS:HD2	7	1.05
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	17	1.05
(1,1633)	1:64:A:GLN:HE21	1:67:A:LYS:HE3	19	1.05
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HB3	7	1.05
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG23	7	1.05
(1,1325)	1:128:A:ASN:H	1:129:A:LYS:HB3	1	1.05
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG21	14	1.05
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG23	18	1.05
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG22	10	1.05
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG21	12	1.05
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG22	12	1.05
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG23	12	1.05
(1,998)	1:72:A:VAL:HG22	1:98:A:PHE:H	13	1.05
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	13	1.05
(1,815)	1:35:A:LEU:HB2	1:43:A:ALA:H	15	1.05
(1,696)	1:67:A:LYS:H	1:68:A:GLU:HB2	13	1.05
(1,494)	1:48:A:ILE:H	1:49:A:GLN:HB3	14	1.05
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB3	20	1.05
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG11	5	1.05
(1,458)	1:46:A:VAL:H	1:62:A:LEU:HD22	14	1.05
(3,2415)	1:71:A:LEU:HD13	1:72:A:VAL:H	19	1.04
(3,2364)	1:46:A:VAL:HG11	1:47:A:ASN:HB2	14	1.04
(3,2364)	1:46:A:VAL:HG11	1:47:A:ASN:HB2	20	1.04
(3,2363)	1:50:A:ILE:HG22	1:52:A:ASP:HB3	4	1.04
(3,2142)	1:62:A:LEU:HD13	1:66:A:ALA:H	17	1.04
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	18	1.04
(3,1914)	1:77:A:ILE:HD12	1:80:A:ILE:HG13	15	1.04
(3,1912)	1:12:A:GLU:HG2	1:77:A:ILE:HD13	6	1.04
(3,1831)	1:14:A:LEU:HD12	1:30:A:LYS:HB2	14	1.04
(3,1831)	1:14:A:LEU:HD11	1:30:A:LYS:HB2	16	1.04
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG22	18	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1692)	1:50:A:ILE:HG21	1:56:A:THR:H	3	1.04
(3,1606)	1:127:A:ALA:HB2	1:147:A:PRO:HD2	14	1.04
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG21	2	1.04
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD11	20	1.04
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD12	20	1.04
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD13	20	1.04
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD11	18	1.04
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG21	19	1.04
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	2	1.04
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	7	1.04
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	2	1.04
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	2	1.04
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	2	1.04
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	11	1.04
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	11	1.04
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	11	1.04
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG22	18	1.04
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	16	1.04
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	16	1.04
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	16	1.04
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	7	1.04
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	7	1.04
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	7	1.04
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	2	1.04
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	2	1.04
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	2	1.04
(3,420)	1:131:A:MET:HE1	1:132:A:LEU:HD21	18	1.04
(3,416)	1:131:A:MET:HE3	1:144:A:LEU:HD12	18	1.04
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	18	1.04
(3,194)	1:132:A:LEU:HD13	1:133:A:LYS:H	17	1.04
(3,193)	1:132:A:LEU:HD21	1:133:A:LYS:H	6	1.04
(3,193)	1:132:A:LEU:HD22	1:133:A:LYS:H	6	1.04
(3,193)	1:132:A:LEU:HD23	1:133:A:LYS:H	6	1.04
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	3	1.04
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	8	1.04
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	10	1.04
(1,1849)	1:101:A:VAL:HG22	1:106:A:THR:H	12	1.04
(1,1849)	1:101:A:VAL:HG21	1:106:A:THR:H	15	1.04
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	10	1.04
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HB3	2	1.04
(1,1540)	1:47:A:ASN:HD22	1:48:A:ILE:HD13	14	1.04
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG21	17	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1494)	1:143:A:VAL:HG12	1:144:A:LEU:H	16	1.04
(1,1415)	1:137:A:LYS:HD2	1:138:A:ILE:H	5	1.04
(1,1415)	1:137:A:LYS:HD2	1:138:A:ILE:H	15	1.04
(1,1285)	1:127:A:ALA:H	1:132:A:LEU:HG	20	1.04
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG22	19	1.04
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG21	14	1.04
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG22	14	1.04
(1,1021)	1:99:A:TYR:H	1:143:A:VAL:HG23	14	1.04
(1,924)	1:74:A:VAL:HG23	1:84:A:ASP:H	7	1.04
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG21	6	1.04
(1,494)	1:46:A:VAL:HB	1:48:A:ILE:H	20	1.04
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB3	2	1.04
(1,237)	1:28:A:ALA:H	1:29:A:LYS:HG2	8	1.04
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG11	7	1.04
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG12	7	1.04
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG13	7	1.04
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG21	18	1.03
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG22	18	1.03
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG23	18	1.03
(3,2320)	1:114:A:VAL:HA	1:146:A:ILE:HD13	20	1.03
(3,2282)	1:41:A:PRO:HD2	1:66:A:ALA:HB2	3	1.03
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	11	1.03
(3,2099)	1:110:A:ILE:HD11	1:115:A:TYR:HD2	8	1.03
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	4	1.03
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	4	1.03
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	4	1.03
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	4	1.03
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	4	1.03
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	4	1.03
(3,1914)	1:77:A:ILE:HD12	1:80:A:ILE:HG13	8	1.03
(3,1914)	1:77:A:ILE:HD13	1:80:A:ILE:HG13	9	1.03
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	9	1.03
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	9	1.03
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	9	1.03
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	9	1.03
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	9	1.03
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	9	1.03
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	9	1.03
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	9	1.03
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	9	1.03
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD12	7	1.03
(3,1693)	1:40:A:ILE:HG23	1:70:A:ILE:H	20	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1606)	1:127:A:ALA:HB3	1:147:A:PRO:HD2	12	1.03
(3,1596)	1:42:A:ASP:HB2	1:69:A:LYS:HB3	17	1.03
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG12	15	1.03
(3,1401)	1:33:A:GLU:HB2	1:37:A:LYS:HG2	9	1.03
(3,1398)	1:68:A:GLU:HG3	1:145:A:ARG:HG3	11	1.03
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG21	6	1.03
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	3	1.03
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	3	1.03
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	3	1.03
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	3	1.03
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	3	1.03
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	3	1.03
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	3	1.03
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	3	1.03
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	3	1.03
(3,1281)	1:71:A:LEU:HA	1:83:A:VAL:HG23	19	1.03
(3,1215)	1:106:A:THR:HA	1:138:A:ILE:HG22	12	1.03
(3,1215)	1:106:A:THR:HA	1:138:A:ILE:HG23	18	1.03
(3,1086)	1:142:A:GLN:HE22	1:144:A:LEU:HD11	6	1.03
(3,1086)	1:142:A:GLN:HE22	1:144:A:LEU:HD12	6	1.03
(3,1086)	1:142:A:GLN:HE22	1:144:A:LEU:HD13	6	1.03
(3,1034)	1:56:A:THR:HG21	1:85:A:ASP:HA	7	1.03
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	6	1.03
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	6	1.03
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	6	1.03
(3,944)	1:132:A:LEU:HA	1:132:A:LEU:HD12	14	1.03
(3,837)	1:118:A:ALA:HB1	1:120:A:LEU:H	14	1.03
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	13	1.03
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	13	1.03
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	13	1.03
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	17	1.03
(3,631)	1:117:A:ASN:HB2	1:120:A:LEU:HB2	19	1.03
(3,433)	1:99:A:TYR:HD2	1:146:A:ILE:HG13	16	1.03
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	8	1.03
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	12	1.03
(3,235)	1:37:A:LYS:HD2	1:38:A:THR:H	2	1.03
(3,235)	1:29:A:LYS:H	1:29:A:LYS:HD3	12	1.03
(3,193)	1:132:A:LEU:HD21	1:133:A:LYS:H	19	1.03
(3,193)	1:132:A:LEU:HD22	1:133:A:LYS:H	19	1.03
(3,193)	1:132:A:LEU:HD23	1:133:A:LYS:H	19	1.03
(3,50)	1:37:A:LYS:HG2	1:38:A:THR:H	10	1.03
(1,1977)	1:55:A:ALA:HB2	1:74:A:VAL:H	9	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1949)	1:137:A:LYS:HD3	1:138:A:ILE:H	7	1.03
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD3	20	1.03
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	9	1.03
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG23	6	1.03
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	12	1.03
(1,1097)	1:107:A:LEU:HD21	1:110:A:ILE:H	7	1.03
(1,998)	1:72:A:VAL:HG12	1:98:A:PHE:H	6	1.03
(1,644)	1:62:A:LEU:H	1:88:A:LYS:HG3	6	1.03
(1,77)	1:6:A:PHE:H	1:100:A:THR:HG22	11	1.03
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG21	3	1.02
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG22	3	1.02
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG23	3	1.02
(3,2479)	1:132:A:LEU:HD22	1:139:A:TYR:H	7	1.02
(3,2396)	1:14:A:LEU:HD21	1:34:A:HIS:HE1	2	1.02
(3,2364)	1:46:A:VAL:HG13	1:47:A:ASN:HB2	8	1.02
(3,2363)	1:50:A:ILE:HG22	1:52:A:ASP:HB3	13	1.02
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	8	1.02
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	8	1.02
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	8	1.02
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	12	1.02
(3,2238)	1:107:A:LEU:HD11	1:135:A:PRO:HD2	14	1.02
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE1	3	1.02
(3,2145)	1:107:A:LEU:HD22	1:125:A:PHE:HA	11	1.02
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	8	1.02
(3,2113)	1:107:A:LEU:HD12	1:135:A:PRO:HB3	5	1.02
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE1	15	1.02
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE2	15	1.02
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE3	15	1.02
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE1	15	1.02
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE2	15	1.02
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE3	15	1.02
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE1	15	1.02
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE2	15	1.02
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE3	15	1.02
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	7	1.02
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	7	1.02
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	7	1.02
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	7	1.02
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	7	1.02
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	7	1.02
(3,2006)	1:118:A:ALA:HB3	1:121:A:TYR:HB3	11	1.02
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG21	18	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1752)	1:14:A:LEU:HD21	1:30:A:LYS:HB2	6	1.02
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG23	12	1.02
(3,1618)	1:66:A:ALA:HA	1:69:A:LYS:HG3	10	1.02
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG23	14	1.02
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD11	8	1.02
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD12	8	1.02
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD13	8	1.02
(3,1511)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	18	1.02
(3,1437)	1:62:A:LEU:HD13	1:89:A:THR:HA	17	1.02
(3,1424)	1:26:A:ASP:HB3	1:27:A:GLN:HG2	17	1.02
(3,1396)	1:29:A:LYS:HG3	1:33:A:GLU:HG3	19	1.02
(3,1317)	1:87:A:VAL:HG12	1:88:A:LYS:HA	10	1.02
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG22	1	1.02
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	5	1.02
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	5	1.02
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	5	1.02
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	5	1.02
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	5	1.02
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	5	1.02
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	5	1.02
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	5	1.02
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	5	1.02
(3,1234)	1:29:A:LYS:HA	1:29:A:LYS:HD3	20	1.02
(3,1224)	1:28:A:ALA:HB2	1:49:A:GLN:HG2	17	1.02
(3,1224)	1:28:A:ALA:HB1	1:31:A:VAL:HB	19	1.02
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG23	11	1.02
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	16	1.02
(3,1034)	1:56:A:THR:HG21	1:85:A:ASP:HA	9	1.02
(3,944)	1:132:A:LEU:HD13	1:144:A:LEU:HA	4	1.02
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	16	1.02
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	16	1.02
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	16	1.02
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	19	1.02
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	19	1.02
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	19	1.02
(3,893)	1:67:A:LYS:HB3	1:87:A:VAL:HG22	1	1.02
(3,878)	1:12:A:GLU:HB2	1:77:A:ILE:HG21	12	1.02
(3,728)	1:7:A:VAL:HG22	1:100:A:THR:HB	6	1.02
(3,657)	1:125:A:PHE:HE1	1:129:A:LYS:HE2	10	1.02
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	20	1.02
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	20	1.02
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	20	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,543)	1:3:A:LEU:HD11	1:84:A:ASP:HB3	15	1.02
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD12	10	1.02
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	4	1.02
(3,254)	1:37:A:LYS:H	1:37:A:LYS:HD3	11	1.02
(3,249)	1:35:A:LEU:H	1:35:A:LEU:HD21	12	1.02
(3,235)	1:29:A:LYS:H	1:29:A:LYS:HD2	10	1.02
(3,208)	1:101:A:VAL:HB	1:142:A:GLN:H	12	1.02
(3,193)	1:132:A:LEU:HD21	1:133:A:LYS:H	2	1.02
(3,193)	1:132:A:LEU:HD22	1:133:A:LYS:H	2	1.02
(3,193)	1:132:A:LEU:HD23	1:133:A:LYS:H	2	1.02
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	3	1.02
(3,76)	1:57:A:VAL:HG22	1:58:A:THR:H	13	1.02
(3,71)	1:31:A:VAL:H	1:50:A:ILE:HD13	16	1.02
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	1	1.02
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	16	1.02
(1,1896)	1:102:A:LYS:HD3	1:113:A:GLN:HE22	19	1.02
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	6	1.02
(1,1849)	1:101:A:VAL:HG22	1:106:A:THR:H	17	1.02
(1,1731)	1:63:A:SER:HB3	1:93:A:ALA:H	4	1.02
(1,1583)	1:3:A:LEU:HD12	1:86:A:GLN:HE22	5	1.02
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	12	1.02
(1,1415)	1:137:A:LYS:HD2	1:138:A:ILE:H	4	1.02
(1,1218)	1:120:A:LEU:H	1:120:A:LEU:HG	8	1.02
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG23	3	1.02
(1,1067)	1:105:A:ASP:H	1:138:A:ILE:HG12	17	1.02
(1,924)	1:84:A:ASP:H	1:87:A:VAL:HG23	6	1.02
(1,890)	1:53:A:GLY:HA3	1:80:A:ILE:H	3	1.02
(1,890)	1:53:A:GLY:HA3	1:80:A:ILE:H	10	1.02
(1,797)	1:43:A:ALA:HB2	1:73:A:ALA:H	16	1.02
(1,237)	1:24:A:LYS:HG2	1:28:A:ALA:H	19	1.02
(1,224)	1:24:A:LYS:HE3	1:27:A:GLN:H	8	1.02
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	9	1.02
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG21	9	1.01
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG22	9	1.01
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG23	9	1.01
(3,2479)	1:132:A:LEU:HD23	1:139:A:TYR:H	8	1.01
(3,2415)	1:70:A:ILE:H	1:71:A:LEU:HD13	3	1.01
(3,2368)	1:66:A:ALA:H	1:68:A:GLU:HG3	13	1.01
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE3	6	1.01
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	1	1.01
(3,2112)	1:132:A:LEU:HD21	1:133:A:LYS:HA	9	1.01
(3,2112)	1:132:A:LEU:HD23	1:133:A:LYS:HA	11	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	2	1.01
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	2	1.01
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	2	1.01
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	2	1.01
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	2	1.01
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	2	1.01
(3,2034)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	6	1.01
(3,2034)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	6	1.01
(3,2034)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	6	1.01
(3,1946)	1:12:A:GLU:HG3	1:38:A:THR:HG21	17	1.01
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG22	6	1.01
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	6	1.01
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	6	1.01
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	6	1.01
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	6	1.01
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	6	1.01
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	6	1.01
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	6	1.01
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	6	1.01
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	6	1.01
(3,1860)	1:66:A:ALA:HB1	1:70:A:ILE:HD12	6	1.01
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD11	12	1.01
(3,1787)	1:107:A:LEU:HD12	1:135:A:PRO:HD3	3	1.01
(3,1753)	1:14:A:LEU:HD22	1:33:A:GLU:HB3	5	1.01
(3,1743)	1:47:A:ASN:HB2	1:58:A:THR:HG22	11	1.01
(3,1606)	1:127:A:ALA:HB2	1:145:A:ARG:HD2	17	1.01
(3,1606)	1:127:A:ALA:HB2	1:147:A:PRO:HD2	18	1.01
(3,1545)	1:146:A:ILE:HG23	1:147:A:PRO:HB2	2	1.01
(3,1511)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	1	1.01
(3,1511)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	13	1.01
(3,1511)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	19	1.01
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD13	4	1.01
(3,1430)	1:131:A:MET:HE2	1:132:A:LEU:HD11	20	1.01
(3,1316)	1:31:A:VAL:HG21	1:77:A:ILE:HA	4	1.01
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	14	1.01
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	14	1.01
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	14	1.01
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	14	1.01
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	14	1.01
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	14	1.01
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	14	1.01
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	14	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	14	1.01
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG13	10	1.01
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	6	1.01
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	6	1.01
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	6	1.01
(3,1224)	1:28:A:ALA:HB1	1:31:A:VAL:HB	3	1.01
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	17	1.01
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG21	7	1.01
(3,1034)	1:56:A:THR:HG22	1:85:A:ASP:HA	20	1.01
(3,944)	1:132:A:LEU:HA	1:132:A:LEU:HD11	17	1.01
(3,934)	1:14:A:LEU:HD11	1:31:A:VAL:H	19	1.01
(3,891)	1:129:A:LYS:HA	1:132:A:LEU:HB2	19	1.01
(3,837)	1:118:A:ALA:HB1	1:120:A:LEU:H	2	1.01
(3,837)	1:118:A:ALA:HB3	1:120:A:LEU:H	7	1.01
(3,677)	1:105:A:ASP:HB2	1:109:A:ALA:HB1	16	1.01
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	11	1.01
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	11	1.01
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	11	1.01
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	19	1.01
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB2	18	1.01
(3,194)	1:132:A:LEU:HD11	1:133:A:LYS:H	4	1.01
(3,194)	1:132:A:LEU:HD11	1:133:A:LYS:H	8	1.01
(3,76)	1:57:A:VAL:HG21	1:58:A:THR:H	12	1.01
(3,50)	1:29:A:LYS:H	1:29:A:LYS:HG3	2	1.01
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	6	1.01
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	9	1.01
(1,1849)	1:101:A:VAL:HG21	1:106:A:THR:H	19	1.01
(1,1325)	1:128:A:ASN:H	1:132:A:LEU:HG	2	1.01
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD13	6	1.01
(1,1059)	1:103:A:SER:HB3	1:105:A:ASP:H	4	1.01
(1,890)	1:53:A:GLY:HA3	1:80:A:ILE:H	8	1.01
(1,842)	1:12:A:GLU:HG2	1:77:A:ILE:H	18	1.01
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	5	1.01
(1,644)	1:45:A:LYS:HG3	1:62:A:LEU:H	19	1.01
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	13	1.01
(1,389)	1:31:A:VAL:HG13	1:38:A:THR:H	2	1.01
(1,77)	1:3:A:LEU:HD21	1:6:A:PHE:H	7	1.01
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG21	16	1.01
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD21	1	1.0
(3,2288)	1:12:A:GLU:HA	1:77:A:ILE:HG22	13	1.0
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	9	1.0
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	10	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	6	1.0
(3,2076)	1:110:A:ILE:HD12	1:146:A:ILE:HG13	18	1.0
(3,2028)	1:7:A:VAL:HG11	1:9:A:ASP:HB3	2	1.0
(3,2028)	1:7:A:VAL:HG12	1:9:A:ASP:HB3	2	1.0
(3,2028)	1:7:A:VAL:HG13	1:9:A:ASP:HB3	2	1.0
(3,1950)	1:115:A:TYR:HE1	1:123:A:LYS:HE3	5	1.0
(3,1950)	1:115:A:TYR:HE2	1:123:A:LYS:HE3	5	1.0
(3,1940)	1:106:A:THR:HG23	1:109:A:ALA:H	14	1.0
(3,1915)	1:77:A:ILE:HD13	1:80:A:ILE:HB	12	1.0
(3,1831)	1:14:A:LEU:HD12	1:30:A:LYS:HB2	9	1.0
(3,1787)	1:132:A:LEU:HD13	1:135:A:PRO:HD3	11	1.0
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD13	3	1.0
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD11	6	1.0
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD12	6	1.0
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD13	6	1.0
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG22	18	1.0
(3,1511)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	15	1.0
(3,1434)	1:107:A:LEU:HD12	1:138:A:ILE:H	11	1.0
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD11	19	1.0
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD12	19	1.0
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD13	19	1.0
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	2	1.0
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	2	1.0
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	2	1.0
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	5	1.0
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	5	1.0
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	5	1.0
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	18	1.0
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	18	1.0
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	18	1.0
(3,1336)	1:72:A:VAL:HG11	1:73:A:ALA:H	6	1.0
(3,1336)	1:72:A:VAL:HG12	1:73:A:ALA:H	6	1.0
(3,1336)	1:72:A:VAL:HG13	1:73:A:ALA:H	6	1.0
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG21	3	1.0
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	7	1.0
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	7	1.0
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	7	1.0
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	7	1.0
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	7	1.0
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	7	1.0
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	7	1.0
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	7	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	7	1.0
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	9	1.0
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	9	1.0
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	9	1.0
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	9	1.0
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	9	1.0
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	9	1.0
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	9	1.0
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	9	1.0
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	9	1.0
(3,1224)	1:28:A:ALA:HB2	1:49:A:GLN:HG2	13	1.0
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB3	15	1.0
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	18	1.0
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG13	17	1.0
(3,965)	1:14:A:LEU:HB2	1:14:A:LEU:HD12	10	1.0
(3,948)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	12	1.0
(3,948)	1:107:A:LEU:HD13	1:125:A:PHE:HB3	16	1.0
(3,946)	1:107:A:LEU:HA	1:107:A:LEU:HD13	3	1.0
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	14	1.0
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD23	2	1.0
(3,837)	1:118:A:ALA:HB1	1:120:A:LEU:H	4	1.0
(3,837)	1:118:A:ALA:HB1	1:120:A:LEU:H	11	1.0
(3,837)	1:118:A:ALA:HB1	1:120:A:LEU:H	17	1.0
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	4	1.0
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	4	1.0
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	4	1.0
(3,562)	1:107:A:LEU:HD21	1:121:A:TYR:HD2	2	1.0
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	5	1.0
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	7	1.0
(3,375)	1:132:A:LEU:HD21	1:134:A:SER:H	5	1.0
(3,375)	1:132:A:LEU:HD22	1:134:A:SER:H	5	1.0
(3,375)	1:132:A:LEU:HD23	1:134:A:SER:H	5	1.0
(3,194)	1:132:A:LEU:HD11	1:133:A:LYS:H	14	1.0
(3,182)	1:125:A:PHE:HE1	1:135:A:PRO:HD2	11	1.0
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD21	8	1.0
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	4	1.0
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	20	1.0
(1,1849)	1:101:A:VAL:HG21	1:106:A:THR:H	8	1.0
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	8	1.0
(1,1536)	1:72:A:VAL:HG23	1:76:A:ASN:HD22	6	1.0
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	3	1.0
(1,712)	1:68:A:GLU:H	1:145:A:ARG:HD3	16	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,696)	1:65:A:GLU:HB2	1:67:A:LYS:H	2	1.0
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG11	12	1.0
(1,237)	1:24:A:LYS:HG2	1:28:A:ALA:H	15	1.0
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD11	3	1.0
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	5	1.0
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG22	16	1.0
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG21	5	0.99
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG22	5	0.99
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG23	5	0.99
(3,2368)	1:122:A:ASN:H	1:126:A:GLU:HG3	16	0.99
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD13	5	0.99
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	20	0.99
(3,2228)	1:107:A:LEU:HD13	1:144:A:LEU:HD22	3	0.99
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	16	0.99
(3,2069)	1:87:A:VAL:HG21	1:89:A:THR:HA	11	0.99
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	10	0.99
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	10	0.99
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	10	0.99
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	10	0.99
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	10	0.99
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	10	0.99
(3,2012)	1:31:A:VAL:HG11	1:32:A:GLN:HG2	2	0.99
(3,1996)	1:57:A:VAL:HA	1:87:A:VAL:HG13	2	0.99
(3,1943)	1:4:A:PHE:H	1:82:A:SER:HB2	16	0.99
(3,1940)	1:49:A:GLN:HE22	1:58:A:THR:HG22	20	0.99
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG23	16	0.99
(3,1692)	1:50:A:ILE:HG23	1:56:A:THR:H	18	0.99
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD12	15	0.99
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG23	5	0.99
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD11	10	0.99
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD12	10	0.99
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD13	10	0.99
(3,1511)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	14	0.99
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD12	13	0.99
(3,1441)	1:120:A:LEU:HD21	1:123:A:LYS:HD3	9	0.99
(3,1441)	1:120:A:LEU:HD22	1:123:A:LYS:HD3	14	0.99
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	4	0.99
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	4	0.99
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	4	0.99
(3,1323)	1:120:A:LEU:HD12	1:121:A:TYR:H	19	0.99
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG23	13	0.99
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG22	15	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1302)	1:83:A:VAL:HG12	1:85:A:ASP:HB3	20	0.99
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG12	11	0.99
(3,1013)	1:94:A:THR:HA	1:95:A:ALA:HB1	3	0.99
(3,1008)	1:118:A:ALA:HB3	1:121:A:TYR:HD1	7	0.99
(3,941)	1:125:A:PHE:HD2	1:132:A:LEU:HD13	20	0.99
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	17	0.99
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	17	0.99
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	17	0.99
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD13	3	0.99
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD21	16	0.99
(3,893)	1:67:A:LYS:HB3	1:87:A:VAL:HG22	3	0.99
(3,837)	1:118:A:ALA:HB2	1:120:A:LEU:H	1	0.99
(3,837)	1:118:A:ALA:HB1	1:120:A:LEU:H	3	0.99
(3,748)	1:14:A:LEU:HD23	1:30:A:LYS:HB3	17	0.99
(3,737)	1:71:A:LEU:HD21	1:85:A:ASP:HA	6	0.99
(3,737)	1:71:A:LEU:HD22	1:85:A:ASP:HA	6	0.99
(3,737)	1:71:A:LEU:HD23	1:85:A:ASP:HA	6	0.99
(3,728)	1:7:A:VAL:HG23	1:100:A:THR:HB	13	0.99
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD11	11	0.99
(3,243)	1:112:A:LYS:H	1:112:A:LYS:HG3	2	0.99
(3,235)	1:29:A:LYS:H	1:29:A:LYS:HD3	11	0.99
(3,208)	1:101:A:VAL:HB	1:142:A:GLN:H	8	0.99
(3,194)	1:132:A:LEU:HD11	1:133:A:LYS:H	7	0.99
(3,193)	1:132:A:LEU:HD21	1:133:A:LYS:H	5	0.99
(3,193)	1:132:A:LEU:HD22	1:133:A:LYS:H	5	0.99
(3,193)	1:132:A:LEU:HD23	1:133:A:LYS:H	5	0.99
(3,71)	1:31:A:VAL:H	1:50:A:ILE:HD12	5	0.99
(3,50)	1:37:A:LYS:HG2	1:38:A:THR:H	11	0.99
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	16	0.99
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	5	0.99
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	13	0.99
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	18	0.99
(1,1949)	1:137:A:LYS:HD3	1:138:A:ILE:H	18	0.99
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	16	0.99
(1,1851)	1:7:A:VAL:HG11	1:11:A:GLY:H	9	0.99
(1,1851)	1:7:A:VAL:HG13	1:11:A:GLY:H	11	0.99
(1,1782)	1:107:A:LEU:HG	1:110:A:ILE:H	8	0.99
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	1	0.99
(1,1571)	1:148:A:GLU:HG3	1:151:A:GLU:H	12	0.99
(1,1571)	1:148:A:GLU:HG3	1:151:A:GLU:H	17	0.99
(1,1495)	1:132:A:LEU:HD11	1:144:A:LEU:H	1	0.99
(1,1494)	1:143:A:VAL:HG11	1:144:A:LEU:H	13	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,946)	1:83:A:VAL:HG12	1:86:A:GLN:H	12	0.99
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	1	0.99
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	13	0.99
(1,302)	1:31:A:VAL:HG21	1:33:A:GLU:H	3	0.99
(1,302)	1:31:A:VAL:HG23	1:33:A:GLU:H	12	0.99
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	1	0.99
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	2	0.99
(1,12)	1:14:A:LEU:HB2	1:15:A:TRP:HE1	12	0.99
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG21	2	0.98
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG22	2	0.98
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG23	2	0.98
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG21	14	0.98
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG22	14	0.98
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG23	14	0.98
(3,2479)	1:132:A:LEU:HD22	1:139:A:TYR:H	9	0.98
(3,2474)	1:144:A:LEU:HD23	1:145:A:ARG:H	14	0.98
(3,2451)	1:7:A:VAL:HA	1:81:A:ALA:HB3	13	0.98
(3,2415)	1:71:A:LEU:HD12	1:72:A:VAL:H	13	0.98
(3,2238)	1:107:A:LEU:HD11	1:135:A:PRO:HD2	11	0.98
(3,2076)	1:110:A:ILE:HD12	1:146:A:ILE:HG13	13	0.98
(3,2067)	1:57:A:VAL:HG21	1:71:A:LEU:HA	15	0.98
(3,2067)	1:57:A:VAL:HG22	1:71:A:LEU:HA	15	0.98
(3,2067)	1:57:A:VAL:HG23	1:71:A:LEU:HA	15	0.98
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG11	6	0.98
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG12	6	0.98
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG13	6	0.98
(3,2012)	1:31:A:VAL:HG12	1:32:A:GLN:HG2	17	0.98
(3,1978)	1:57:A:VAL:H	1:83:A:VAL:HG13	14	0.98
(3,1882)	1:62:A:LEU:HB3	1:63:A:SER:HB3	8	0.98
(3,1831)	1:14:A:LEU:HD12	1:30:A:LYS:HB2	11	0.98
(3,1738)	1:14:A:LEU:HD21	1:34:A:HIS:HE1	13	0.98
(3,1692)	1:50:A:ILE:HG22	1:56:A:THR:H	6	0.98
(3,1618)	1:65:A:GLU:HB2	1:66:A:ALA:HA	1	0.98
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG21	20	0.98
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD11	12	0.98
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD12	12	0.98
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD13	12	0.98
(3,1401)	1:33:A:GLU:HB2	1:37:A:LYS:HG2	12	0.98
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	3	0.98
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	3	0.98
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	3	0.98
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	16	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	16	0.98
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	16	0.98
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG21	6	0.98
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG22	6	0.98
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG23	6	0.98
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG21	10	0.98
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG22	10	0.98
(3,1331)	1:15:A:TRP:HZ3	1:31:A:VAL:HG23	10	0.98
(3,1323)	1:120:A:LEU:HD11	1:121:A:TYR:H	9	0.98
(3,1317)	1:46:A:VAL:HG22	1:58:A:THR:HA	14	0.98
(3,1316)	1:31:A:VAL:HG22	1:77:A:ILE:HA	16	0.98
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	5	0.98
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	5	0.98
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	5	0.98
(3,1224)	1:28:A:ALA:HB1	1:49:A:GLN:HG2	9	0.98
(3,1224)	1:28:A:ALA:HB3	1:31:A:VAL:HB	11	0.98
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG22	2	0.98
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG23	4	0.98
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG11	1	0.98
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	17	0.98
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	17	0.98
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	17	0.98
(3,950)	1:107:A:LEU:HD11	1:121:A:TYR:HB2	5	0.98
(3,944)	1:132:A:LEU:HD12	1:144:A:LEU:HA	16	0.98
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	6	0.98
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	6	0.98
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	6	0.98
(3,937)	1:14:A:LEU:HD11	1:15:A:TRP:HZ3	13	0.98
(3,937)	1:14:A:LEU:HD12	1:15:A:TRP:HZ3	13	0.98
(3,937)	1:14:A:LEU:HD13	1:15:A:TRP:HZ3	13	0.98
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD21	3	0.98
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD22	3	0.98
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD23	3	0.98
(3,893)	1:67:A:LYS:HB3	1:71:A:LEU:HD13	4	0.98
(3,837)	1:118:A:ALA:HB3	1:120:A:LEU:H	13	0.98
(3,837)	1:118:A:ALA:HB1	1:120:A:LEU:H	18	0.98
(3,748)	1:14:A:LEU:HD23	1:30:A:LYS:HB3	20	0.98
(3,737)	1:71:A:LEU:HD21	1:85:A:ASP:HA	11	0.98
(3,737)	1:71:A:LEU:HD22	1:85:A:ASP:HA	11	0.98
(3,737)	1:71:A:LEU:HD23	1:85:A:ASP:HA	11	0.98
(3,728)	1:7:A:VAL:HG22	1:100:A:THR:HB	9	0.98
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG23	14	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	6	0.98
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	6	0.98
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	6	0.98
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	14	0.98
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	14	0.98
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	14	0.98
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG22	1	0.98
(3,420)	1:131:A:MET:HE3	1:132:A:LEU:HD13	10	0.98
(3,238)	1:33:A:GLU:HA	1:37:A:LYS:HD2	15	0.98
(3,235)	1:37:A:LYS:HD3	1:38:A:THR:H	15	0.98
(3,72)	1:50:A:ILE:HG13	1:51:A:ALA:H	16	0.98
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG22	3	0.98
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG22	8	0.98
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG21	11	0.98
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	15	0.98
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	3	0.98
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	15	0.98
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG22	3	0.98
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG23	5	0.98
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD2	2	0.98
(1,1494)	1:143:A:VAL:HG12	1:144:A:LEU:H	9	0.98
(1,1415)	1:138:A:ILE:H	1:142:A:GLN:HB3	12	0.98
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG22	16	0.98
(1,1067)	1:101:A:VAL:HG11	1:105:A:ASP:H	20	0.98
(1,924)	1:74:A:VAL:HG22	1:84:A:ASP:H	15	0.98
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	10	0.98
(1,644)	1:62:A:LEU:H	1:88:A:LYS:HG3	12	0.98
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	3	0.98
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	4	0.98
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	7	0.98
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD11	1	0.98
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD11	9	0.98
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	16	0.98
(1,31)	1:5:A:ASN:H	1:71:A:LEU:HD21	11	0.98
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG21	7	0.98
(3,2485)	1:57:A:VAL:HG12	1:87:A:VAL:HB	15	0.97
(3,2356)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	18	0.97
(3,2306)	1:107:A:LEU:HD13	1:144:A:LEU:HD22	3	0.97
(3,2288)	1:12:A:GLU:HA	1:77:A:ILE:HG21	18	0.97
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	14	0.97
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	15	0.97
(3,2238)	1:107:A:LEU:HD11	1:135:A:PRO:HD2	17	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2228)	1:132:A:LEU:HD13	1:144:A:LEU:HD12	13	0.97
(3,2205)	1:131:A:MET:HE1	1:145:A:ARG:HB2	2	0.97
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	17	0.97
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD12	13	0.97
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	15	0.97
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	4	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG11	8	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG12	8	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG13	8	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG11	11	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG12	11	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG13	11	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG11	12	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG12	12	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG13	12	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG11	14	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG12	14	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG13	14	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG11	19	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG12	19	0.97
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG13	19	0.97
(3,1946)	1:12:A:GLU:HG2	1:14:A:LEU:HG	18	0.97
(3,1914)	1:77:A:ILE:HD13	1:80:A:ILE:HG13	2	0.97
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG22	8	0.97
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG22	14	0.97
(3,1714)	1:144:A:LEU:HA	1:144:A:LEU:HD11	20	0.97
(3,1714)	1:144:A:LEU:HA	1:144:A:LEU:HD12	20	0.97
(3,1714)	1:144:A:LEU:HA	1:144:A:LEU:HD13	20	0.97
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD13	5	0.97
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD13	17	0.97
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG21	16	0.97
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD11	18	0.97
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD12	18	0.97
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD13	18	0.97
(3,1437)	1:62:A:LEU:HD13	1:89:A:THR:HA	2	0.97
(3,1376)	1:32:A:GLN:HG3	1:48:A:ILE:HG13	20	0.97
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD11	20	0.97
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG21	15	0.97
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG23	12	0.97
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG22	20	0.97
(3,1275)	1:100:A:THR:HA	1:143:A:VAL:HG11	14	0.97
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	17	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	17	0.97
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	17	0.97
(3,1008)	1:118:A:ALA:HB1	1:121:A:TYR:HD1	16	0.97
(3,837)	1:118:A:ALA:HB3	1:120:A:LEU:H	20	0.97
(3,677)	1:3:A:LEU:HG	1:84:A:ASP:HB2	20	0.97
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	12	0.97
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	12	0.97
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	12	0.97
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD22	11	0.97
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	6	0.97
(3,235)	1:29:A:LYS:H	1:29:A:LYS:HD2	17	0.97
(3,194)	1:132:A:LEU:HD12	1:133:A:LYS:H	1	0.97
(3,182)	1:125:A:PHE:HE1	1:135:A:PRO:HD2	4	0.97
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	11	0.97
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	19	0.97
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	20	0.97
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	17	0.97
(1,1977)	1:43:A:ALA:HB2	1:74:A:VAL:H	16	0.97
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	17	0.97
(1,1851)	1:7:A:VAL:HG13	1:11:A:GLY:H	6	0.97
(1,1824)	1:31:A:VAL:HG22	1:32:A:GLN:HE22	18	0.97
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	8	0.97
(1,1583)	1:3:A:LEU:HD13	1:86:A:GLN:HE22	17	0.97
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HG	11	0.97
(1,1466)	1:101:A:VAL:HB	1:142:A:GLN:H	19	0.97
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG21	4	0.97
(1,1282)	1:107:A:LEU:HD12	1:126:A:GLU:H	20	0.97
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	8	0.97
(1,1024)	1:100:A:THR:H	1:100:A:THR:HG23	3	0.97
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB3	17	0.97
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	20	0.97
(1,302)	1:129:A:LYS:HG3	1:132:A:LEU:H	11	0.97
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG11	20	0.97
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG12	20	0.97
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG13	20	0.97
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG22	12	0.97
(3,2863)	1:110:A:ILE:HD11	1:144:A:LEU:HD21	6	0.96
(3,2863)	1:110:A:ILE:HD11	1:144:A:LEU:HD22	6	0.96
(3,2863)	1:110:A:ILE:HD11	1:144:A:LEU:HD23	6	0.96
(3,2863)	1:110:A:ILE:HD12	1:144:A:LEU:HD21	6	0.96
(3,2863)	1:110:A:ILE:HD12	1:144:A:LEU:HD22	6	0.96
(3,2863)	1:110:A:ILE:HD12	1:144:A:LEU:HD23	6	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2863)	1:110:A:ILE:HD13	1:144:A:LEU:HD21	6	0.96
(3,2863)	1:110:A:ILE:HD13	1:144:A:LEU:HD22	6	0.96
(3,2863)	1:110:A:ILE:HD13	1:144:A:LEU:HD23	6	0.96
(3,2863)	1:110:A:ILE:HD11	1:144:A:LEU:HD21	11	0.96
(3,2863)	1:110:A:ILE:HD11	1:144:A:LEU:HD22	11	0.96
(3,2863)	1:110:A:ILE:HD11	1:144:A:LEU:HD23	11	0.96
(3,2863)	1:110:A:ILE:HD12	1:144:A:LEU:HD21	11	0.96
(3,2863)	1:110:A:ILE:HD12	1:144:A:LEU:HD22	11	0.96
(3,2863)	1:110:A:ILE:HD12	1:144:A:LEU:HD23	11	0.96
(3,2863)	1:110:A:ILE:HD13	1:144:A:LEU:HD21	11	0.96
(3,2863)	1:110:A:ILE:HD13	1:144:A:LEU:HD22	11	0.96
(3,2863)	1:110:A:ILE:HD13	1:144:A:LEU:HD23	11	0.96
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG21	7	0.96
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG22	7	0.96
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG23	7	0.96
(3,2474)	1:107:A:LEU:H	1:144:A:LEU:HD22	17	0.96
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	20	0.96
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	10	0.96
(3,2256)	1:44:A:ASP:HB2	1:46:A:VAL:H	20	0.96
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	2	0.96
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	5	0.96
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB1	6	0.96
(3,2112)	1:132:A:LEU:HD22	1:133:A:LYS:HA	10	0.96
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	12	0.96
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	20	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG11	4	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG12	4	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG13	4	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG11	7	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG12	7	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG13	7	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG11	10	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG12	10	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG13	10	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG11	18	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG12	18	0.96
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG13	18	0.96
(3,1997)	1:58:A:THR:HG23	1:88:A:LYS:HE2	9	0.96
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG21	9	0.96
(3,1912)	1:12:A:GLU:HG2	1:77:A:ILE:HD12	18	0.96
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	2	0.96
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	2	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	2	0.96
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	2	0.96
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	2	0.96
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	2	0.96
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	2	0.96
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	2	0.96
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	2	0.96
(3,1831)	1:14:A:LEU:HD11	1:30:A:LYS:HB2	12	0.96
(3,1831)	1:14:A:LEU:HD13	1:30:A:LYS:HB2	18	0.96
(3,1714)	1:144:A:LEU:HA	1:144:A:LEU:HD11	6	0.96
(3,1714)	1:144:A:LEU:HA	1:144:A:LEU:HD12	6	0.96
(3,1714)	1:144:A:LEU:HA	1:144:A:LEU:HD13	6	0.96
(3,1692)	1:50:A:ILE:HG21	1:56:A:THR:H	14	0.96
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD12	1	0.96
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG22	11	0.96
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD12	1	0.96
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	6	0.96
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	6	0.96
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	6	0.96
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	10	0.96
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	10	0.96
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	10	0.96
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	14	0.96
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	14	0.96
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	14	0.96
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	2	0.96
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	10	0.96
(3,1302)	1:83:A:VAL:HG13	1:85:A:ASP:HB3	2	0.96
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	9	0.96
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	9	0.96
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	9	0.96
(3,1224)	1:28:A:ALA:HB3	1:31:A:VAL:HB	15	0.96
(3,951)	1:67:A:LYS:HE3	1:71:A:LEU:HD13	11	0.96
(3,910)	1:62:A:LEU:HD22	1:87:A:VAL:HA	18	0.96
(3,837)	1:118:A:ALA:HB2	1:120:A:LEU:H	8	0.96
(3,748)	1:14:A:LEU:HD23	1:30:A:LYS:HB3	14	0.96
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG22	4	0.96
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	5	0.96
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	5	0.96
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	5	0.96
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	9	0.96
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	9	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	9	0.96
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	17	0.96
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	17	0.96
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	17	0.96
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD23	6	0.96
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	14	0.96
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	17	0.96
(3,316)	1:112:A:LYS:H	1:112:A:LYS:HD2	1	0.96
(3,249)	1:35:A:LEU:H	1:35:A:LEU:HD21	17	0.96
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD12	4	0.96
(3,194)	1:132:A:LEU:HD11	1:133:A:LYS:H	12	0.96
(3,93)	1:50:A:ILE:HG21	1:54:A:LYS:H	16	0.96
(3,78)	1:57:A:VAL:HG13	1:71:A:LEU:H	16	0.96
(3,76)	1:57:A:VAL:HG23	1:58:A:THR:H	17	0.96
(3,60)	1:48:A:ILE:HD11	1:49:A:GLN:H	8	0.96
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG21	20	0.96
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	7	0.96
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	17	0.96
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	7	0.96
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	15	0.96
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	7	0.96
(1,1851)	1:7:A:VAL:HG13	1:11:A:GLY:H	16	0.96
(1,1782)	1:107:A:LEU:HG	1:110:A:ILE:H	20	0.96
(1,1593)	1:64:A:GLN:HE21	1:145:A:ARG:HB3	20	0.96
(1,1583)	1:3:A:LEU:HD22	1:86:A:GLN:HE22	20	0.96
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG22	4	0.96
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG22	19	0.96
(1,1494)	1:143:A:VAL:HG11	1:144:A:LEU:H	15	0.96
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG23	20	0.96
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD13	5	0.96
(1,1024)	1:100:A:THR:H	1:100:A:THR:HG23	1	0.96
(1,1024)	1:100:A:THR:H	1:100:A:THR:HG23	13	0.96
(1,705)	1:68:A:GLU:H	1:69:A:LYS:HB3	13	0.96
(1,644)	1:62:A:LEU:H	1:88:A:LYS:HG3	15	0.96
(1,585)	1:57:A:VAL:HG11	1:58:A:THR:H	9	0.96
(1,585)	1:57:A:VAL:HG12	1:58:A:THR:H	15	0.96
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	11	0.96
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	14	0.96
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	11	0.96
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD11	18	0.96
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG11	3	0.96
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG12	3	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG13	3	0.96
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG11	16	0.96
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG12	16	0.96
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG13	16	0.96
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG21	20	0.95
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG22	20	0.95
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG23	20	0.95
(3,2485)	1:57:A:VAL:HG13	1:87:A:VAL:HB	7	0.95
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG13	20	0.95
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	14	0.95
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	14	0.95
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	14	0.95
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	2	0.95
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD12	20	0.95
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	19	0.95
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	11	0.95
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	19	0.95
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG11	5	0.95
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG12	5	0.95
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG13	5	0.95
(3,2012)	1:31:A:VAL:HG13	1:32:A:GLN:HG2	11	0.95
(3,1996)	1:57:A:VAL:HA	1:87:A:VAL:HG13	19	0.95
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG22	17	0.95
(3,1914)	1:77:A:ILE:HD12	1:80:A:ILE:HG13	16	0.95
(3,1787)	1:107:A:LEU:HD13	1:124:A:ILE:HA	10	0.95
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD12	18	0.95
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG23	2	0.95
(3,1693)	1:40:A:ILE:HG21	1:70:A:ILE:H	10	0.95
(3,1692)	1:50:A:ILE:HG23	1:56:A:THR:H	20	0.95
(3,1606)	1:17:A:ALA:HB1	1:79:A:GLY:HA3	8	0.95
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD11	5	0.95
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD12	5	0.95
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD13	5	0.95
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	13	0.95
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	13	0.95
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	13	0.95
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	18	0.95
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	15	0.95
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	15	0.95
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	15	0.95
(3,1224)	1:28:A:ALA:HB1	1:49:A:GLN:HG2	16	0.95
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG21	6	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG22	3	0.95
(3,965)	1:14:A:LEU:HB2	1:14:A:LEU:HD13	6	0.95
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	11	0.95
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	11	0.95
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	11	0.95
(3,916)	1:15:A:TRP:HE3	1:21:A:GLN:HB3	10	0.95
(3,837)	1:118:A:ALA:HB1	1:120:A:LEU:H	12	0.95
(3,748)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	10	0.95
(3,420)	1:131:A:MET:HE2	1:132:A:LEU:HD23	19	0.95
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	16	0.95
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	14	0.95
(3,316)	1:13:A:LYS:HD2	1:14:A:LEU:H	14	0.95
(3,243)	1:112:A:LYS:H	1:112:A:LYS:HG3	13	0.95
(3,242)	1:13:A:LYS:HE3	1:14:A:LEU:H	10	0.95
(3,235)	1:29:A:LYS:H	1:29:A:LYS:HD3	9	0.95
(3,235)	1:29:A:LYS:H	1:29:A:LYS:HD3	13	0.95
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD13	10	0.95
(3,78)	1:57:A:VAL:HG11	1:71:A:LEU:H	4	0.95
(3,71)	1:50:A:ILE:HD13	1:51:A:ALA:H	13	0.95
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG21	5	0.95
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	5	0.95
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	11	0.95
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	20	0.95
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	8	0.95
(1,1952)	1:85:A:ASP:H	1:86:A:GLN:HE22	1	0.95
(1,1851)	1:7:A:VAL:HG12	1:11:A:GLY:H	13	0.95
(1,1824)	1:31:A:VAL:HG23	1:32:A:GLN:HE22	13	0.95
(1,1750)	1:96:A:SER:H	1:145:A:ARG:HB3	16	0.95
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG21	10	0.95
(1,1325)	1:128:A:ASN:H	1:129:A:LYS:HB3	6	0.95
(1,1325)	1:128:A:ASN:H	1:129:A:LYS:HB3	8	0.95
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	18	0.95
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD12	2	0.95
(1,1059)	1:103:A:SER:HB3	1:105:A:ASP:H	2	0.95
(1,1024)	1:100:A:THR:H	1:100:A:THR:HG22	20	0.95
(1,1023)	1:100:A:THR:H	1:101:A:VAL:HG13	8	0.95
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG23	9	0.95
(1,732)	1:40:A:ILE:HG23	1:69:A:LYS:H	10	0.95
(1,705)	1:68:A:GLU:H	1:69:A:LYS:HB3	14	0.95
(1,696)	1:65:A:GLU:HB2	1:67:A:LYS:H	1	0.95
(1,494)	1:46:A:VAL:HB	1:48:A:ILE:H	11	0.95
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG12	15	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,389)	1:31:A:VAL:HG12	1:38:A:THR:H	20	0.95
(1,77)	1:3:A:LEU:HD22	1:6:A:PHE:H	18	0.95
(3,2794)	1:82:A:SER:HB2	1:83:A:VAL:H	11	0.94
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG21	15	0.94
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG22	15	0.94
(3,2535)	1:57:A:VAL:H	1:57:A:VAL:HG23	15	0.94
(3,2487)	1:43:A:ALA:HA	1:46:A:VAL:HG12	16	0.94
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG21	4	0.94
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG22	4	0.94
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG23	4	0.94
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG21	4	0.94
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG22	4	0.94
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG23	4	0.94
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG13	9	0.94
(3,2336)	1:41:A:PRO:HD3	1:69:A:LYS:HD3	10	0.94
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	6	0.94
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	8	0.94
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	10	0.94
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	19	0.94
(3,2238)	1:107:A:LEU:HD13	1:135:A:PRO:HD2	13	0.94
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	14	0.94
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	16	0.94
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB2	16	0.94
(3,2145)	1:148:A:GLU:HA	1:150:A:LEU:HD23	17	0.94
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	17	0.94
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	18	0.94
(3,2034)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	5	0.94
(3,2034)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	5	0.94
(3,2034)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	5	0.94
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG11	2	0.94
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG12	2	0.94
(3,2030)	1:143:A:VAL:H	1:143:A:VAL:HG13	2	0.94
(3,2012)	1:31:A:VAL:HG13	1:32:A:GLN:HG2	7	0.94
(3,1997)	1:58:A:THR:HG21	1:88:A:LYS:HE2	13	0.94
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD11	3	0.94
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG22	19	0.94
(3,1753)	1:14:A:LEU:HD21	1:33:A:GLU:HB3	3	0.94
(3,1743)	1:47:A:ASN:HB3	1:58:A:THR:HG21	12	0.94
(3,1714)	1:144:A:LEU:HA	1:144:A:LEU:HD11	11	0.94
(3,1714)	1:144:A:LEU:HA	1:144:A:LEU:HD12	11	0.94
(3,1714)	1:144:A:LEU:HA	1:144:A:LEU:HD13	11	0.94
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG21	8	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1606)	1:127:A:ALA:HB3	1:147:A:PRO:HD2	13	0.94
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG22	6	0.94
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD11	15	0.94
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD12	15	0.94
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD13	15	0.94
(3,1511)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	4	0.94
(3,1511)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	10	0.94
(3,1399)	1:29:A:LYS:HD2	1:33:A:GLU:HG2	20	0.94
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD13	1	0.94
(3,1224)	1:28:A:ALA:HB3	1:49:A:GLN:HG2	6	0.94
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG23	9	0.94
(3,1084)	1:142:A:GLN:HE21	1:144:A:LEU:HD11	11	0.94
(3,1084)	1:142:A:GLN:HE21	1:144:A:LEU:HD12	11	0.94
(3,1084)	1:142:A:GLN:HE21	1:144:A:LEU:HD13	11	0.94
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG11	5	0.94
(3,1034)	1:56:A:THR:HG23	1:85:A:ASP:HA	5	0.94
(3,1008)	1:118:A:ALA:HB3	1:121:A:TYR:HD1	14	0.94
(3,965)	1:14:A:LEU:HB2	1:14:A:LEU:HD11	2	0.94
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	2	0.94
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	2	0.94
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	2	0.94
(3,950)	1:107:A:LEU:HD13	1:121:A:TYR:HB2	6	0.94
(3,945)	1:107:A:LEU:HD12	1:125:A:PHE:HA	20	0.94
(3,837)	1:118:A:ALA:HB2	1:120:A:LEU:H	16	0.94
(3,797)	1:8:A:LYS:HG2	1:9:A:ASP:HB2	16	0.94
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	6	0.94
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	6	0.94
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	6	0.94
(3,543)	1:107:A:LEU:HD21	1:125:A:PHE:HB2	4	0.94
(3,533)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	11	0.94
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD11	3	0.94
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	13	0.94
(3,165)	1:24:A:LYS:HD2	1:51:A:ALA:HA	18	0.94
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG23	2	0.94
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG23	13	0.94
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG23	15	0.94
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	18	0.94
(1,1977)	1:55:A:ALA:HB2	1:74:A:VAL:H	1	0.94
(1,1977)	1:55:A:ALA:HB1	1:74:A:VAL:H	5	0.94
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	8	0.94
(1,1750)	1:96:A:SER:H	1:145:A:ARG:HB3	10	0.94
(1,1583)	1:3:A:LEU:HD13	1:86:A:GLN:HE22	8	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1398)	1:136:A:ASP:H	1:137:A:LYS:HD2	13	0.94
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG22	19	0.94
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	13	0.94
(1,1059)	1:105:A:ASP:H	1:140:A:PRO:HA	16	0.94
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG12	2	0.94
(1,1024)	1:100:A:THR:H	1:100:A:THR:HG21	9	0.94
(1,1024)	1:100:A:THR:H	1:100:A:THR:HG23	17	0.94
(1,966)	1:87:A:VAL:HG12	1:88:A:LYS:H	1	0.94
(1,848)	1:7:A:VAL:H	1:75:A:GLY:HA2	3	0.94
(1,549)	1:54:A:LYS:HG3	1:55:A:ALA:H	19	0.94
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG13	1	0.94
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG13	3	0.94
(1,458)	1:46:A:VAL:H	1:62:A:LEU:HD12	20	0.94
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	9	0.94
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	19	0.94
(1,302)	1:31:A:VAL:HG23	1:33:A:GLU:H	13	0.94
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG11	4	0.94
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG12	4	0.94
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG13	4	0.94
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	7	0.94
(1,62)	1:74:A:VAL:HG23	1:83:A:VAL:H	9	0.94
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG22	3	0.94
(3,2479)	1:132:A:LEU:HD23	1:139:A:TYR:H	4	0.93
(3,2474)	1:107:A:LEU:H	1:144:A:LEU:HD21	1	0.93
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	20	0.93
(3,2368)	1:122:A:ASN:H	1:126:A:GLU:HG3	12	0.93
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	1	0.93
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	12	0.93
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	17	0.93
(3,2194)	1:54:A:LYS:HG3	1:55:A:ALA:H	6	0.93
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	3	0.93
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	10	0.93
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	6	0.93
(3,2069)	1:62:A:LEU:HD23	1:89:A:THR:HA	12	0.93
(3,2069)	1:87:A:VAL:HG21	1:89:A:THR:HA	20	0.93
(3,1831)	1:14:A:LEU:HD12	1:30:A:LYS:HB2	13	0.93
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	11	0.93
(3,1709)	1:27:A:GLN:HB3	1:50:A:ILE:HD12	17	0.93
(3,1692)	1:50:A:ILE:HG21	1:56:A:THR:H	7	0.93
(3,1692)	1:50:A:ILE:HG23	1:56:A:THR:H	12	0.93
(3,1559)	1:40:A:ILE:HG23	1:41:A:PRO:HA	8	0.93
(3,1470)	1:113:A:GLN:HA	1:113:A:GLN:HG2	1	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1470)	1:113:A:GLN:HA	1:113:A:GLN:HG2	13	0.93
(3,1464)	1:54:A:LYS:HD3	1:55:A:ALA:H	12	0.93
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD23	2	0.93
(3,1424)	1:26:A:ASP:HB3	1:30:A:LYS:HD3	11	0.93
(3,1424)	1:26:A:ASP:HB3	1:30:A:LYS:HD3	14	0.93
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG22	7	0.93
(3,1340)	1:101:A:VAL:HG21	1:102:A:LYS:H	1	0.93
(3,1340)	1:101:A:VAL:HG22	1:102:A:LYS:H	1	0.93
(3,1340)	1:101:A:VAL:HG23	1:102:A:LYS:H	1	0.93
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	6	0.93
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD12	6	0.93
(3,1293)	1:101:A:VAL:HG11	1:110:A:ILE:HD13	6	0.93
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD11	6	0.93
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD12	6	0.93
(3,1293)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	6	0.93
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD11	6	0.93
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD12	6	0.93
(3,1293)	1:101:A:VAL:HG13	1:110:A:ILE:HD13	6	0.93
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	2	0.93
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	2	0.93
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	2	0.93
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	11	0.93
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	11	0.93
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	11	0.93
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG23	5	0.93
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	7	0.93
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	7	0.93
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	7	0.93
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	12	0.93
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	12	0.93
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	12	0.93
(3,965)	1:14:A:LEU:HB2	1:14:A:LEU:HD11	9	0.93
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	20	0.93
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	20	0.93
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	20	0.93
(3,910)	1:62:A:LEU:HD22	1:89:A:THR:HB	7	0.93
(3,893)	1:62:A:LEU:HD13	1:67:A:LYS:HB3	17	0.93
(3,878)	1:12:A:GLU:HB2	1:77:A:ILE:HG21	18	0.93
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	3	0.93
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	11	0.93
(3,728)	1:7:A:VAL:HG21	1:100:A:THR:HB	7	0.93
(3,553)	1:29:A:LYS:HA	1:29:A:LYS:HG2	9	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD12	13	0.93
(3,316)	1:112:A:LYS:H	1:112:A:LYS:HD2	7	0.93
(3,242)	1:13:A:LYS:HE2	1:14:A:LEU:H	7	0.93
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	15	0.93
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG21	6	0.93
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG22	10	0.93
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG21	12	0.93
(1,1851)	1:7:A:VAL:HG13	1:11:A:GLY:H	18	0.93
(1,1849)	1:101:A:VAL:HG23	1:106:A:THR:H	20	0.93
(1,1539)	1:47:A:ASN:HD21	1:58:A:THR:HG21	12	0.93
(1,1457)	1:138:A:ILE:HD11	1:141:A:GLY:H	7	0.93
(1,1415)	1:137:A:LYS:HD2	1:138:A:ILE:H	9	0.93
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD11	13	0.93
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG22	1	0.93
(1,1218)	1:120:A:LEU:H	1:120:A:LEU:HG	16	0.93
(1,1097)	1:107:A:LEU:HD21	1:110:A:ILE:H	1	0.93
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD11	19	0.93
(1,1059)	1:103:A:SER:HB3	1:105:A:ASP:H	13	0.93
(1,1024)	1:100:A:THR:H	1:100:A:THR:HG21	15	0.93
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG12	9	0.93
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	17	0.93
(1,212)	1:22:A:HIS:HB3	1:25:A:ASP:H	5	0.93
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG11	19	0.93
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG12	19	0.93
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG13	19	0.93
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE2	10	0.93
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	19	0.93
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG23	18	0.93
(3,2363)	1:50:A:ILE:HG21	1:52:A:ASP:HB3	11	0.92
(3,2340)	1:15:A:TRP:HZ2	1:80:A:ILE:HB	13	0.92
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	13	0.92
(3,2238)	1:107:A:LEU:HD22	1:135:A:PRO:HD2	9	0.92
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE1	16	0.92
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	6	0.92
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	7	0.92
(3,2069)	1:62:A:LEU:HD12	1:89:A:THR:HA	3	0.92
(3,2059)	1:51:A:ALA:H	1:54:A:LYS:HG2	10	0.92
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE1	18	0.92
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE2	18	0.92
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE3	18	0.92
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE1	18	0.92
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE2	18	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE3	18	0.92
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE1	18	0.92
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE2	18	0.92
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE3	18	0.92
(3,2012)	1:31:A:VAL:HG13	1:32:A:GLN:HG3	20	0.92
(3,2006)	1:118:A:ALA:HB1	1:121:A:TYR:HB3	5	0.92
(3,1940)	1:106:A:THR:HG22	1:109:A:ALA:H	2	0.92
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD12	15	0.92
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG21	10	0.92
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG22	13	0.92
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG22	14	0.92
(3,1914)	1:77:A:ILE:HD13	1:80:A:ILE:HG13	4	0.92
(3,1914)	1:77:A:ILE:HD12	1:80:A:ILE:HG13	5	0.92
(3,1746)	1:18:A:VAL:HB	1:19:A:THR:HG21	4	0.92
(3,1743)	1:47:A:ASN:HB3	1:58:A:THR:HG22	19	0.92
(3,1739)	1:6:A:PHE:HZ	1:143:A:VAL:HG23	4	0.92
(3,1693)	1:40:A:ILE:HG22	1:70:A:ILE:H	7	0.92
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD12	4	0.92
(3,1596)	1:42:A:ASP:HB3	1:45:A:LYS:HD2	2	0.92
(3,1578)	1:127:A:ALA:HB2	1:147:A:PRO:HD2	8	0.92
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG11	7	0.92
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD11	9	0.92
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD12	9	0.92
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD13	9	0.92
(3,1511)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	6	0.92
(3,1511)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	11	0.92
(3,1511)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	16	0.92
(3,1470)	1:113:A:GLN:HA	1:113:A:GLN:HG2	12	0.92
(3,1393)	1:96:A:SER:HA	1:147:A:PRO:HB3	15	0.92
(3,1304)	1:31:A:VAL:HG22	1:35:A:LEU:HG	10	0.92
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	4	0.92
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	4	0.92
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	4	0.92
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	16	0.92
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	16	0.92
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	16	0.92
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	4	0.92
(3,1234)	1:29:A:LYS:HA	1:29:A:LYS:HD3	6	0.92
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG21	10	0.92
(3,1008)	1:118:A:ALA:HB1	1:121:A:TYR:HD1	8	0.92
(3,965)	1:14:A:LEU:HB2	1:14:A:LEU:HD13	16	0.92
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	14	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	14	0.92
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	14	0.92
(3,944)	1:132:A:LEU:HD13	1:144:A:LEU:HA	12	0.92
(3,941)	1:125:A:PHE:HE2	1:132:A:LEU:HD13	5	0.92
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	19	0.92
(3,737)	1:71:A:LEU:HD21	1:85:A:ASP:HA	1	0.92
(3,737)	1:71:A:LEU:HD22	1:85:A:ASP:HA	1	0.92
(3,737)	1:71:A:LEU:HD23	1:85:A:ASP:HA	1	0.92
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG21	10	0.92
(3,543)	1:3:A:LEU:HD12	1:84:A:ASP:HB3	2	0.92
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG23	10	0.92
(3,420)	1:131:A:MET:HE1	1:132:A:LEU:HD12	8	0.92
(3,316)	1:112:A:LYS:H	1:112:A:LYS:HD2	10	0.92
(3,235)	1:29:A:LYS:H	1:29:A:LYS:HD3	8	0.92
(3,208)	1:101:A:VAL:HB	1:142:A:GLN:H	15	0.92
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD22	11	0.92
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG21	1	0.92
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	3	0.92
(1,1977)	1:55:A:ALA:HB2	1:74:A:VAL:H	7	0.92
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG23	7	0.92
(1,1851)	1:7:A:VAL:HG11	1:11:A:GLY:H	7	0.92
(1,1727)	1:60:A:ASP:H	1:89:A:THR:H	13	0.92
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	2	0.92
(1,1583)	1:3:A:LEU:HD13	1:86:A:GLN:HE22	19	0.92
(1,1494)	1:143:A:VAL:HG12	1:144:A:LEU:H	17	0.92
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG22	3	0.92
(1,890)	1:53:A:GLY:HA3	1:80:A:ILE:H	9	0.92
(1,815)	1:76:A:ASN:H	1:80:A:ILE:HG13	3	0.92
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE3	9	0.92
(1,633)	1:61:A:GLY:H	1:62:A:LEU:HB2	4	0.92
(1,579)	1:55:A:ALA:HB3	1:57:A:VAL:H	2	0.92
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG12	16	0.92
(1,302)	1:129:A:LYS:HG3	1:132:A:LEU:H	8	0.92
(1,270)	1:14:A:LEU:HD11	1:30:A:LYS:H	2	0.92
(1,270)	1:14:A:LEU:HD12	1:30:A:LYS:H	2	0.92
(1,270)	1:14:A:LEU:HD13	1:30:A:LYS:H	2	0.92
(1,269)	1:30:A:LYS:H	1:50:A:ILE:HD11	1	0.92
(1,215)	1:22:A:HIS:HB2	1:26:A:ASP:H	4	0.92
(3,2474)	1:107:A:LEU:H	1:144:A:LEU:HD23	16	0.91
(3,2348)	1:31:A:VAL:HG13	1:35:A:LEU:HB2	18	0.91
(3,2344)	1:6:A:PHE:HZ	1:143:A:VAL:HG13	20	0.91
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	16	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	4	0.91
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	9	0.91
(3,2214)	1:107:A:LEU:HD12	1:108:A:SER:H	19	0.91
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE2	18	0.91
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	4	0.91
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE1	4	0.91
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE2	4	0.91
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE3	4	0.91
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE1	4	0.91
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE2	4	0.91
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE3	4	0.91
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE1	4	0.91
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE2	4	0.91
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE3	4	0.91
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE1	11	0.91
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE2	11	0.91
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE3	11	0.91
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE1	11	0.91
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE2	11	0.91
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE3	11	0.91
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE1	11	0.91
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE2	11	0.91
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE3	11	0.91
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE1	12	0.91
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE2	12	0.91
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE3	12	0.91
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE1	12	0.91
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE2	12	0.91
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE3	12	0.91
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE1	12	0.91
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE2	12	0.91
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE3	12	0.91
(3,2018)	1:121:A:TYR:HE2	1:122:A:ASN:HB3	13	0.91
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD12	12	0.91
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG21	11	0.91
(3,1849)	1:3:A:LEU:HG	1:82:A:SER:HB2	17	0.91
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	2	0.91
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	2	0.91
(3,1746)	1:18:A:VAL:HB	1:19:A:THR:HG23	15	0.91
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG22	10	0.91
(3,1691)	1:50:A:ILE:HD11	1:56:A:THR:H	16	0.91
(3,1559)	1:40:A:ILE:HG22	1:41:A:PRO:HA	11	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD12	13	0.91
(3,1470)	1:113:A:GLN:HA	1:113:A:GLN:HG2	7	0.91
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD13	3	0.91
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD21	16	0.91
(3,1441)	1:120:A:LEU:HD22	1:123:A:LYS:HD3	16	0.91
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD11	2	0.91
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD12	2	0.91
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD13	2	0.91
(3,1376)	1:32:A:GLN:HG2	1:48:A:ILE:HG13	15	0.91
(3,1325)	1:6:A:PHE:HZ	1:83:A:VAL:HG21	17	0.91
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	14	0.91
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	14	0.91
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	14	0.91
(3,1138)	1:37:A:LYS:HA	1:37:A:LYS:HG3	9	0.91
(3,1133)	1:107:A:LEU:HA	1:138:A:ILE:HG22	9	0.91
(3,1037)	1:15:A:TRP:HA	1:18:A:VAL:HG12	8	0.91
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG22	6	0.91
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG21	14	0.91
(3,965)	1:14:A:LEU:HB2	1:14:A:LEU:HD12	17	0.91
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	20	0.91
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	20	0.91
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	20	0.91
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD21	4	0.91
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD22	4	0.91
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD23	4	0.91
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD21	7	0.91
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD22	7	0.91
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD23	7	0.91
(3,837)	1:118:A:ALA:HB1	1:120:A:LEU:H	5	0.91
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD11	6	0.91
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	16	0.91
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	16	0.91
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	16	0.91
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	1	0.91
(3,235)	1:37:A:LYS:HD3	1:38:A:THR:H	20	0.91
(3,78)	1:57:A:VAL:HG11	1:71:A:LEU:H	12	0.91
(3,71)	1:50:A:ILE:HD12	1:51:A:ALA:H	7	0.91
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG23	4	0.91
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG22	9	0.91
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG23	14	0.91
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG21	16	0.91
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG22	17	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG23	19	0.91
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	19	0.91
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	11	0.91
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG22	12	0.91
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG21	16	0.91
(1,1067)	1:105:A:ASP:H	1:138:A:ILE:HG12	12	0.91
(1,1024)	1:100:A:THR:H	1:100:A:THR:HG22	16	0.91
(1,946)	1:83:A:VAL:HG12	1:86:A:GLN:H	11	0.91
(1,842)	1:12:A:GLU:HG3	1:77:A:ILE:H	13	0.91
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	12	0.91
(1,732)	1:40:A:ILE:HG22	1:69:A:LYS:H	1	0.91
(1,489)	1:48:A:ILE:H	1:55:A:ALA:HB3	13	0.91
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG11	7	0.91
(1,307)	1:29:A:LYS:HB3	1:33:A:GLU:H	12	0.91
(1,302)	1:31:A:VAL:HG22	1:33:A:GLU:H	20	0.91
(1,237)	1:28:A:ALA:H	1:29:A:LYS:HG2	5	0.91
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG11	17	0.91
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG12	17	0.91
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG13	17	0.91
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	3	0.91
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG21	6	0.9
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG22	6	0.9
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG23	6	0.9
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG21	6	0.9
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG22	6	0.9
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG23	6	0.9
(3,2363)	1:50:A:ILE:HG22	1:52:A:ASP:HB3	7	0.9
(3,2363)	1:50:A:ILE:HG23	1:52:A:ASP:HB3	9	0.9
(3,2363)	1:50:A:ILE:HG21	1:52:A:ASP:HB3	20	0.9
(3,2356)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	7	0.9
(3,2348)	1:31:A:VAL:HG13	1:35:A:LEU:HB2	7	0.9
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	10	0.9
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	10	0.9
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	10	0.9
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	2	0.9
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	6	0.9
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	18	0.9
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	20	0.9
(3,2275)	1:132:A:LEU:HD13	1:139:A:TYR:HD1	13	0.9
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE1	11	0.9
(3,2205)	1:131:A:MET:HE2	1:145:A:ARG:HB2	5	0.9
(3,2194)	1:54:A:LYS:HG3	1:55:A:ALA:H	14	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2123)	1:115:A:TYR:HE1	1:123:A:LYS:HD3	14	0.9
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	2	0.9
(3,2076)	1:101:A:VAL:HG11	1:110:A:ILE:HD11	15	0.9
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG23	20	0.9
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	18	0.9
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	18	0.9
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	18	0.9
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	18	0.9
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	18	0.9
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	18	0.9
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	18	0.9
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	18	0.9
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	18	0.9
(3,1860)	1:66:A:ALA:HB3	1:70:A:ILE:HD13	14	0.9
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG22	8	0.9
(3,1511)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	5	0.9
(3,1511)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	9	0.9
(3,1464)	1:142:A:GLN:HB3	1:144:A:LEU:H	10	0.9
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD21	18	0.9
(3,1384)	1:33:A:GLU:HG2	1:34:A:HIS:H	6	0.9
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG21	3	0.9
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	16	0.9
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	20	0.9
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	20	0.9
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	20	0.9
(3,1246)	1:115:A:TYR:HE1	1:123:A:LYS:HD3	14	0.9
(3,1034)	1:56:A:THR:HG23	1:85:A:ASP:HA	3	0.9
(3,1008)	1:15:A:TRP:H	1:17:A:ALA:HB2	13	0.9
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	9	0.9
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	9	0.9
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	9	0.9
(3,914)	1:120:A:LEU:HD21	1:149:A:GLU:HG3	13	0.9
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	20	0.9
(3,562)	1:107:A:LEU:HD22	1:124:A:ILE:H	17	0.9
(3,543)	1:3:A:LEU:HD11	1:84:A:ASP:HB3	19	0.9
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	10	0.9
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD13	9	0.9
(3,481)	1:115:A:TYR:HA	1:120:A:LEU:HD21	17	0.9
(3,479)	1:115:A:TYR:H	1:115:A:TYR:HE2	2	0.9
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG21	13	0.9
(3,182)	1:125:A:PHE:HE1	1:135:A:PRO:HD2	7	0.9
(3,76)	1:57:A:VAL:HG22	1:58:A:THR:H	1	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,76)	1:57:A:VAL:HG22	1:58:A:THR:H	8	0.9
(3,71)	1:50:A:ILE:HD11	1:51:A:ALA:H	8	0.9
(3,50)	1:36:A:ASN:H	1:37:A:LYS:HG2	8	0.9
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG23	7	0.9
(3,42)	1:40:A:ILE:H	1:40:A:ILE:HG23	18	0.9
(1,1977)	1:55:A:ALA:HB1	1:74:A:VAL:H	3	0.9
(1,1977)	1:55:A:ALA:HB2	1:74:A:VAL:H	19	0.9
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD3	16	0.9
(1,1851)	1:7:A:VAL:HG12	1:11:A:GLY:H	14	0.9
(1,1727)	1:60:A:ASP:H	1:89:A:THR:H	6	0.9
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	1	0.9
(1,1325)	1:128:A:ASN:H	1:132:A:LEU:HG	5	0.9
(1,1325)	1:128:A:ASN:H	1:129:A:LYS:HB3	9	0.9
(1,1218)	1:120:A:LEU:H	1:120:A:LEU:HG	1	0.9
(1,1218)	1:120:A:LEU:H	1:120:A:LEU:HG	10	0.9
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD11	1	0.9
(1,974)	1:67:A:LYS:HG3	1:89:A:THR:H	18	0.9
(1,793)	1:40:A:ILE:HG12	1:73:A:ALA:H	1	0.9
(1,705)	1:68:A:GLU:H	1:69:A:LYS:HB3	19	0.9
(1,678)	1:65:A:GLU:HG2	1:66:A:ALA:H	14	0.9
(1,302)	1:129:A:LYS:HG3	1:132:A:LEU:H	16	0.9
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG23	15	0.9
(3,2794)	1:82:A:SER:HB2	1:83:A:VAL:H	20	0.89
(3,2479)	1:132:A:LEU:HD21	1:139:A:TYR:H	11	0.89
(3,2356)	1:101:A:VAL:HG13	1:142:A:GLN:HB2	10	0.89
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	1	0.89
(3,2282)	1:41:A:PRO:HD2	1:66:A:ALA:HB3	8	0.89
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	12	0.89
(3,2275)	1:132:A:LEU:HD23	1:139:A:TYR:HD1	14	0.89
(3,2241)	1:134:A:SER:HB2	1:135:A:PRO:HD3	11	0.89
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD13	2	0.89
(3,2214)	1:107:A:LEU:HD13	1:108:A:SER:H	2	0.89
(3,2214)	1:107:A:LEU:HD11	1:128:A:ASN:HD22	3	0.89
(3,2069)	1:62:A:LEU:HD22	1:89:A:THR:HA	2	0.89
(3,2069)	1:87:A:VAL:HG22	1:89:A:THR:HA	8	0.89
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE1	17	0.89
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE2	17	0.89
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE3	17	0.89
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE1	17	0.89
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE2	17	0.89
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE3	17	0.89
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE1	17	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE2	17	0.89
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE3	17	0.89
(3,2012)	1:31:A:VAL:HG13	1:32:A:GLN:HG2	19	0.89
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD13	7	0.89
(3,1914)	1:77:A:ILE:HD13	1:80:A:ILE:HG13	7	0.89
(3,1914)	1:77:A:ILE:HD12	1:80:A:ILE:HG13	20	0.89
(3,1912)	1:12:A:GLU:HG3	1:77:A:ILE:HD13	13	0.89
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG22	1	0.89
(3,1693)	1:40:A:ILE:HG23	1:70:A:ILE:H	1	0.89
(3,1693)	1:40:A:ILE:HG23	1:70:A:ILE:H	6	0.89
(3,1618)	1:65:A:GLU:HB2	1:66:A:ALA:HA	4	0.89
(3,1618)	1:65:A:GLU:HB2	1:66:A:ALA:HA	6	0.89
(3,1511)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	2	0.89
(3,1511)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	3	0.89
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG23	20	0.89
(3,1322)	1:74:A:VAL:HG21	1:75:A:GLY:H	7	0.89
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	7	0.89
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	9	0.89
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	9	0.89
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	9	0.89
(3,1088)	1:5:A:ASN:HA	1:81:A:ALA:HB3	18	0.89
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG11	2	0.89
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	14	0.89
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	14	0.89
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	14	0.89
(3,1034)	1:56:A:THR:HG22	1:85:A:ASP:HA	8	0.89
(3,1025)	1:100:A:THR:HG21	1:102:A:LYS:HE3	11	0.89
(3,1008)	1:15:A:TRP:HZ2	1:17:A:ALA:HB1	6	0.89
(3,1008)	1:118:A:ALA:HB3	1:121:A:TYR:HD1	10	0.89
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD21	10	0.89
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD22	10	0.89
(3,717)	1:14:A:LEU:HA	1:14:A:LEU:HD23	10	0.89
(3,659)	1:129:A:LYS:HE2	1:130:A:PRO:HA	19	0.89
(3,562)	1:3:A:LEU:HD12	1:4:A:PHE:HD1	15	0.89
(3,420)	1:131:A:MET:HE1	1:132:A:LEU:HD11	17	0.89
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	4	0.89
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	18	0.89
(3,76)	1:57:A:VAL:HG23	1:58:A:THR:H	16	0.89
(1,1949)	1:137:A:LYS:HD3	1:138:A:ILE:H	3	0.89
(1,1851)	1:7:A:VAL:HG12	1:11:A:GLY:H	19	0.89
(1,1415)	1:107:A:LEU:HB3	1:138:A:ILE:H	11	0.89
(1,1325)	1:69:A:LYS:HD3	1:128:A:ASN:H	7	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG23	17	0.89
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG23	5	0.89
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD12	3	0.89
(1,1023)	1:100:A:THR:H	1:101:A:VAL:HG11	17	0.89
(1,924)	1:74:A:VAL:HG23	1:84:A:ASP:H	17	0.89
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	11	0.89
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	20	0.89
(1,742)	1:41:A:PRO:HB2	1:70:A:ILE:H	7	0.89
(1,732)	1:40:A:ILE:HG21	1:69:A:LYS:H	20	0.89
(1,612)	1:59:A:GLY:H	1:88:A:LYS:HG3	18	0.89
(1,609)	1:59:A:GLY:H	1:88:A:LYS:HB2	4	0.89
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	16	0.89
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	13	0.89
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	19	0.89
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	20	0.89
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	5	0.89
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD12	2	0.89
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	18	0.89
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG21	4	0.89
(3,2474)	1:107:A:LEU:H	1:144:A:LEU:HD22	12	0.88
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG21	17	0.88
(3,2363)	1:50:A:ILE:HG21	1:52:A:ASP:HB3	19	0.88
(3,2335)	1:29:A:LYS:HE2	1:33:A:GLU:HG2	10	0.88
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD23	4	0.88
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	3	0.88
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	4	0.88
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	7	0.88
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	13	0.88
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	16	0.88
(3,2238)	1:107:A:LEU:HD22	1:135:A:PRO:HD2	6	0.88
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD12	10	0.88
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE2	6	0.88
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB1	15	0.88
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	2	0.88
(3,2028)	1:7:A:VAL:HG11	1:9:A:ASP:HB3	1	0.88
(3,2028)	1:7:A:VAL:HG12	1:9:A:ASP:HB3	1	0.88
(3,2028)	1:7:A:VAL:HG13	1:9:A:ASP:HB3	1	0.88
(3,2012)	1:31:A:VAL:HG13	1:32:A:GLN:HG2	14	0.88
(3,1946)	1:12:A:GLU:HG3	1:38:A:THR:HG22	13	0.88
(3,1921)	1:14:A:LEU:HG	1:77:A:ILE:HG21	12	0.88
(3,1777)	1:8:A:LYS:HG2	1:79:A:GLY:HA3	5	0.88
(3,1662)	1:121:A:TYR:HB3	1:124:A:ILE:HD11	6	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD13	20	0.88
(3,1618)	1:65:A:GLU:HB2	1:66:A:ALA:HA	9	0.88
(3,1559)	1:40:A:ILE:HG22	1:41:A:PRO:HA	20	0.88
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG21	15	0.88
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG23	9	0.88
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG21	10	0.88
(3,1511)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	20	0.88
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD12	13	0.88
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD11	6	0.88
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD12	6	0.88
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD13	6	0.88
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG23	8	0.88
(3,1322)	1:74:A:VAL:HG23	1:75:A:GLY:H	16	0.88
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	3	0.88
(3,1310)	1:101:A:VAL:HG21	1:142:A:GLN:HB3	17	0.88
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG22	17	0.88
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB3	12	0.88
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG12	1	0.88
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG21	17	0.88
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG13	9	0.88
(3,1034)	1:56:A:THR:HG23	1:85:A:ASP:HA	16	0.88
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	3	0.88
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	3	0.88
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	3	0.88
(3,965)	1:14:A:LEU:HB2	1:14:A:LEU:HD11	14	0.88
(3,946)	1:107:A:LEU:HD13	1:121:A:TYR:HA	15	0.88
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD12	9	0.88
(3,893)	1:67:A:LYS:HB3	1:71:A:LEU:HD12	9	0.88
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	13	0.88
(3,728)	1:7:A:VAL:HG21	1:100:A:THR:HB	16	0.88
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	9	0.88
(3,422)	1:40:A:ILE:HD13	1:131:A:MET:HA	4	0.88
(3,420)	1:131:A:MET:HE2	1:132:A:LEU:HD22	13	0.88
(3,375)	1:132:A:LEU:HD21	1:134:A:SER:H	2	0.88
(3,375)	1:132:A:LEU:HD22	1:134:A:SER:H	2	0.88
(3,375)	1:132:A:LEU:HD23	1:134:A:SER:H	2	0.88
(3,375)	1:132:A:LEU:HD21	1:134:A:SER:H	19	0.88
(3,375)	1:132:A:LEU:HD22	1:134:A:SER:H	19	0.88
(3,375)	1:132:A:LEU:HD23	1:134:A:SER:H	19	0.88
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB3	8	0.88
(3,316)	1:112:A:LYS:H	1:112:A:LYS:HD2	4	0.88
(3,235)	1:37:A:LYS:HD3	1:38:A:THR:H	14	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,60)	1:48:A:ILE:HD13	1:49:A:GLN:H	14	0.88
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	3	0.88
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	9	0.88
(1,1824)	1:31:A:VAL:HG22	1:32:A:GLN:HE22	20	0.88
(1,1750)	1:96:A:SER:H	1:145:A:ARG:HB3	4	0.88
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	13	0.88
(1,1571)	1:148:A:GLU:HG3	1:151:A:GLU:H	20	0.88
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD13	15	0.88
(1,1415)	1:137:A:LYS:HD2	1:138:A:ILE:H	2	0.88
(1,1415)	1:107:A:LEU:HB3	1:138:A:ILE:H	8	0.88
(1,1195)	1:117:A:ASN:H	1:118:A:ALA:HB3	5	0.88
(1,1023)	1:100:A:THR:H	1:101:A:VAL:HG12	19	0.88
(1,890)	1:53:A:GLY:HA3	1:80:A:ILE:H	14	0.88
(1,615)	1:46:A:VAL:HG22	1:59:A:GLY:H	11	0.88
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	18	0.88
(1,302)	1:129:A:LYS:HG3	1:132:A:LEU:H	17	0.88
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD11	20	0.88
(1,212)	1:22:A:HIS:HB2	1:25:A:ASP:H	7	0.88
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG11	14	0.88
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG12	14	0.88
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG13	14	0.88
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	1	0.88
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	14	0.88
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	15	0.88
(1,115)	1:8:A:LYS:HG2	1:10:A:ALA:H	10	0.88
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG23	13	0.88
(3,2474)	1:144:A:LEU:HD23	1:145:A:ARG:H	3	0.87
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	5	0.87
(3,2451)	1:7:A:VAL:HA	1:81:A:ALA:HB1	11	0.87
(3,2336)	1:69:A:LYS:HD3	1:145:A:ARG:HD2	8	0.87
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	19	0.87
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	13	0.87
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	9	0.87
(3,2028)	1:7:A:VAL:HG11	1:9:A:ASP:HB3	8	0.87
(3,2028)	1:7:A:VAL:HG12	1:9:A:ASP:HB3	8	0.87
(3,2028)	1:7:A:VAL:HG13	1:9:A:ASP:HB3	8	0.87
(3,1940)	1:106:A:THR:HG21	1:109:A:ALA:H	5	0.87
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD13	19	0.87
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG12	16	0.87
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG21	13	0.87
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG23	12	0.87
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG21	8	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1322)	1:74:A:VAL:HG22	1:75:A:GLY:H	2	0.87
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	9	0.87
(3,1313)	1:72:A:VAL:HG11	1:145:A:ARG:HD3	8	0.87
(3,1281)	1:71:A:LEU:HA	1:83:A:VAL:HG21	2	0.87
(3,1272)	1:101:A:VAL:HG11	1:142:A:GLN:HB2	18	0.87
(3,1272)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	18	0.87
(3,1272)	1:101:A:VAL:HG13	1:142:A:GLN:HB2	18	0.87
(3,1224)	1:28:A:ALA:HB2	1:49:A:GLN:HG3	2	0.87
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG21	12	0.87
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB2	7	0.87
(3,1133)	1:107:A:LEU:HA	1:138:A:ILE:HG22	5	0.87
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG12	6	0.87
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG12	3	0.87
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	19	0.87
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	19	0.87
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	19	0.87
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	16	0.87
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	16	0.87
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	16	0.87
(3,910)	1:62:A:LEU:HD22	1:89:A:THR:HB	4	0.87
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	17	0.87
(3,316)	1:112:A:LYS:H	1:112:A:LYS:HD3	11	0.87
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD13	1	0.87
(3,76)	1:57:A:VAL:HG23	1:58:A:THR:H	19	0.87
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD12	16	0.87
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	16	0.87
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	5	0.87
(1,1675)	1:32:A:GLN:HG3	1:45:A:LYS:H	1	0.87
(1,1583)	1:3:A:LEU:HD11	1:86:A:GLN:HE22	9	0.87
(1,1583)	1:3:A:LEU:HD21	1:86:A:GLN:HE22	16	0.87
(1,1466)	1:101:A:VAL:HB	1:142:A:GLN:H	12	0.87
(1,1325)	1:128:A:ASN:H	1:132:A:LEU:HG	3	0.87
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG21	8	0.87
(1,1218)	1:120:A:LEU:H	1:120:A:LEU:HG	17	0.87
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	19	0.87
(1,1140)	1:107:A:LEU:HD23	1:114:A:VAL:H	11	0.87
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD11	7	0.87
(1,1023)	1:100:A:THR:H	1:101:A:VAL:HG12	12	0.87
(1,881)	1:14:A:LEU:HD11	1:80:A:ILE:H	10	0.87
(1,881)	1:14:A:LEU:HD12	1:80:A:ILE:H	10	0.87
(1,881)	1:14:A:LEU:HD13	1:80:A:ILE:H	10	0.87
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG22	7	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG21	14	0.87
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	18	0.87
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE3	14	0.87
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG11	15	0.87
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG12	15	0.87
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG13	15	0.87
(1,678)	1:65:A:GLU:HG2	1:66:A:ALA:H	11	0.87
(1,644)	1:62:A:LEU:H	1:67:A:LYS:HB3	3	0.87
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	9	0.87
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD12	17	0.87
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	11	0.87
(3,2863)	1:110:A:ILE:HD11	1:144:A:LEU:HD21	20	0.86
(3,2863)	1:110:A:ILE:HD11	1:144:A:LEU:HD22	20	0.86
(3,2863)	1:110:A:ILE:HD11	1:144:A:LEU:HD23	20	0.86
(3,2863)	1:110:A:ILE:HD12	1:144:A:LEU:HD21	20	0.86
(3,2863)	1:110:A:ILE:HD12	1:144:A:LEU:HD22	20	0.86
(3,2863)	1:110:A:ILE:HD12	1:144:A:LEU:HD23	20	0.86
(3,2863)	1:110:A:ILE:HD13	1:144:A:LEU:HD21	20	0.86
(3,2863)	1:110:A:ILE:HD13	1:144:A:LEU:HD22	20	0.86
(3,2863)	1:110:A:ILE:HD13	1:144:A:LEU:HD23	20	0.86
(3,2474)	1:144:A:LEU:HD23	1:145:A:ARG:H	2	0.86
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	3	0.86
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG23	1	0.86
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG22	17	0.86
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD23	3	0.86
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	11	0.86
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD13	15	0.86
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE1	5	0.86
(3,2194)	1:54:A:LYS:HG3	1:55:A:ALA:H	18	0.86
(3,2170)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	9	0.86
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD21	15	0.86
(3,2130)	1:121:A:TYR:H	1:122:A:ASN:HB2	15	0.86
(3,2069)	1:62:A:LEU:HD13	1:89:A:THR:HA	19	0.86
(3,2012)	1:31:A:VAL:HG13	1:32:A:GLN:HG3	18	0.86
(3,1940)	1:106:A:THR:HG21	1:109:A:ALA:H	7	0.86
(3,1875)	1:72:A:VAL:HG21	1:145:A:ARG:HD2	17	0.86
(3,1787)	1:107:A:LEU:HD13	1:135:A:PRO:HD3	4	0.86
(3,1618)	1:65:A:GLU:HB2	1:66:A:ALA:HA	15	0.86
(3,1596)	1:42:A:ASP:HB3	1:62:A:LEU:HG	12	0.86
(3,1468)	1:15:A:TRP:HE3	1:30:A:LYS:HD2	17	0.86
(3,1376)	1:110:A:ILE:HB	1:113:A:GLN:HG2	4	0.86
(3,1376)	1:110:A:ILE:HB	1:113:A:GLN:HG2	19	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG22	15	0.86
(3,1322)	1:74:A:VAL:HG23	1:75:A:GLY:H	15	0.86
(3,1322)	1:74:A:VAL:HG21	1:75:A:GLY:H	17	0.86
(3,1317)	1:58:A:THR:HA	1:87:A:VAL:HG11	8	0.86
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	1	0.86
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	1	0.86
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	1	0.86
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	16	0.86
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	16	0.86
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	16	0.86
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	16	0.86
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	16	0.86
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	16	0.86
(3,1234)	1:29:A:LYS:HA	1:29:A:LYS:HD3	16	0.86
(3,1215)	1:106:A:THR:HA	1:138:A:ILE:HG22	8	0.86
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG22	14	0.86
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG21	6	0.86
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG21	19	0.86
(3,1122)	1:46:A:VAL:HG22	1:58:A:THR:HB	14	0.86
(3,1034)	1:56:A:THR:HG22	1:85:A:ASP:HA	13	0.86
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	11	0.86
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	11	0.86
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	11	0.86
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	19	0.86
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	19	0.86
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	19	0.86
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	20	0.86
(3,910)	1:62:A:LEU:HD23	1:89:A:THR:HB	13	0.86
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD21	18	0.86
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD22	18	0.86
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD23	18	0.86
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	2	0.86
(3,807)	1:72:A:VAL:HG21	1:73:A:ALA:HA	6	0.86
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD12	17	0.86
(3,556)	1:3:A:LEU:HD12	1:54:A:LYS:HA	11	0.86
(3,555)	1:132:A:LEU:HD21	1:138:A:ILE:HA	20	0.86
(3,555)	1:132:A:LEU:HD22	1:138:A:ILE:HA	20	0.86
(3,555)	1:132:A:LEU:HD23	1:138:A:ILE:HA	20	0.86
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	19	0.86
(3,481)	1:115:A:TYR:HA	1:120:A:LEU:HD23	11	0.86
(3,481)	1:115:A:TYR:HA	1:120:A:LEU:HD23	19	0.86
(3,433)	1:99:A:TYR:HD2	1:146:A:ILE:HG13	14	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG23	12	0.86
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD12	12	0.86
(3,142)	1:107:A:LEU:HD11	1:110:A:ILE:HD13	3	0.86
(3,41)	1:40:A:ILE:HG22	1:43:A:ALA:H	6	0.86
(1,1977)	1:55:A:ALA:HB3	1:74:A:VAL:H	10	0.86
(1,1949)	1:137:A:LYS:HD3	1:138:A:ILE:H	16	0.86
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD2	1	0.86
(1,1325)	1:128:A:ASN:H	1:129:A:LYS:HB3	14	0.86
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG22	1	0.86
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD11	10	0.86
(1,1059)	1:103:A:SER:HB3	1:105:A:ASP:H	3	0.86
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG13	7	0.86
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG13	18	0.86
(1,1023)	1:100:A:THR:H	1:101:A:VAL:HG13	15	0.86
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG11	5	0.86
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG12	5	0.86
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG13	5	0.86
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	6	0.86
(1,815)	1:35:A:LEU:HB2	1:43:A:ALA:H	4	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG11	3	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG12	3	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG13	3	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG11	4	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG12	4	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG13	4	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG11	13	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG12	13	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG13	13	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG11	17	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG12	17	0.86
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG13	17	0.86
(1,633)	1:61:A:GLY:H	1:62:A:LEU:HB2	18	0.86
(1,579)	1:55:A:ALA:HB2	1:57:A:VAL:H	12	0.86
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG13	4	0.86
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	6	0.86
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	2	0.86
(1,290)	1:30:A:LYS:HB3	1:32:A:GLN:H	2	0.86
(1,273)	1:28:A:ALA:HB3	1:31:A:VAL:H	6	0.86
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG23	10	0.86
(1,241)	1:28:A:ALA:H	1:48:A:ILE:HG22	18	0.86
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG11	5	0.86
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG12	5	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG13	5	0.86
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG11	13	0.86
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG12	13	0.86
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG13	13	0.86
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	12	0.86
(3,2794)	1:82:A:SER:HB2	1:83:A:VAL:H	13	0.85
(3,2479)	1:132:A:LEU:HD21	1:139:A:TYR:HD1	10	0.85
(3,2479)	1:132:A:LEU:HD21	1:139:A:TYR:H	17	0.85
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	4	0.85
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG22	8	0.85
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	1	0.85
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	5	0.85
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	9	0.85
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	10	0.85
(3,2238)	1:107:A:LEU:HD12	1:135:A:PRO:HD2	3	0.85
(3,2238)	1:107:A:LEU:HD23	1:135:A:PRO:HD2	5	0.85
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE1	19	0.85
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD11	12	0.85
(3,2129)	1:121:A:TYR:H	1:122:A:ASN:HB2	15	0.85
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	1	0.85
(3,2124)	1:114:A:VAL:HB	1:115:A:TYR:HA	20	0.85
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	6	0.85
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	16	0.85
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	19	0.85
(3,2028)	1:7:A:VAL:HG11	1:9:A:ASP:HB3	5	0.85
(3,2028)	1:7:A:VAL:HG12	1:9:A:ASP:HB3	5	0.85
(3,2028)	1:7:A:VAL:HG13	1:9:A:ASP:HB3	5	0.85
(3,1777)	1:8:A:LYS:HG2	1:79:A:GLY:HA3	1	0.85
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD11	10	0.85
(3,1578)	1:127:A:ALA:HB1	1:147:A:PRO:HD2	3	0.85
(3,1578)	1:127:A:ALA:HB1	1:147:A:PRO:HD2	17	0.85
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG12	17	0.85
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG23	9	0.85
(3,1511)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	17	0.85
(3,1464)	1:142:A:GLN:HB3	1:144:A:LEU:H	2	0.85
(3,1441)	1:120:A:LEU:HD22	1:123:A:LYS:HD3	1	0.85
(3,1396)	1:29:A:LYS:HG3	1:33:A:GLU:HG3	14	0.85
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG23	19	0.85
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	6	0.85
(3,1059)	1:103:A:SER:HB3	1:140:A:PRO:HG3	19	0.85
(3,1057)	1:18:A:VAL:HG11	1:19:A:THR:HA	10	0.85
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG12	2	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1034)	1:56:A:THR:HG23	1:85:A:ASP:HA	4	0.85
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	6	0.85
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	6	0.85
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	6	0.85
(3,1008)	1:118:A:ALA:HB3	1:121:A:TYR:HD1	11	0.85
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	10	0.85
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	10	0.85
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	10	0.85
(3,944)	1:132:A:LEU:HD11	1:144:A:LEU:HA	1	0.85
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	13	0.85
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	13	0.85
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	13	0.85
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	18	0.85
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	18	0.85
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	18	0.85
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD21	8	0.85
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG22	5	0.85
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	6	0.85
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD11	5	0.85
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD13	18	0.85
(3,430)	1:99:A:TYR:HD2	1:114:A:VAL:HG21	2	0.85
(3,235)	1:29:A:LYS:H	1:29:A:LYS:HD2	18	0.85
(3,182)	1:125:A:PHE:HE1	1:135:A:PRO:HD2	9	0.85
(3,71)	1:50:A:ILE:HD11	1:51:A:ALA:H	14	0.85
(1,2476)	1:32:A:GLN:HA	1:32:A:GLN:HE22	4	0.85
(1,1851)	1:7:A:VAL:HG13	1:11:A:GLY:H	15	0.85
(1,1676)	1:45:A:LYS:H	1:62:A:LEU:HD21	8	0.85
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	14	0.85
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	17	0.85
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HG	12	0.85
(1,1466)	1:101:A:VAL:HB	1:142:A:GLN:H	8	0.85
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD12	2	0.85
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	1	0.85
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG22	6	0.85
(1,1093)	1:105:A:ASP:HB2	1:110:A:ILE:H	12	0.85
(1,1067)	1:105:A:ASP:H	1:138:A:ILE:HG12	8	0.85
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG11	3	0.85
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG12	3	0.85
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG13	3	0.85
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG11	4	0.85
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG12	4	0.85
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG13	4	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG11	6	0.85
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG12	6	0.85
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG13	6	0.85
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG11	9	0.85
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG12	9	0.85
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG13	9	0.85
(1,924)	1:84:A:ASP:H	1:87:A:VAL:HG21	10	0.85
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG22	15	0.85
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG21	19	0.85
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HB2	3	0.85
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE3	17	0.85
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG11	11	0.85
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG12	11	0.85
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG13	11	0.85
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG11	12	0.85
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG12	12	0.85
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG13	12	0.85
(1,487)	1:31:A:VAL:HG12	1:48:A:ILE:H	1	0.85
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG12	15	0.85
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	5	0.85
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	3	0.85
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	8	0.85
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	10	0.85
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	12	0.85
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG23	4	0.85
(3,2487)	1:43:A:ALA:HA	1:46:A:VAL:HG12	6	0.84
(3,2356)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	9	0.84
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD2	20	0.84
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD11	3	0.84
(3,2201)	1:41:A:PRO:HD2	1:130:A:PRO:HD2	3	0.84
(3,2194)	1:54:A:LYS:HG3	1:55:A:ALA:H	3	0.84
(3,2112)	1:125:A:PHE:HA	1:132:A:LEU:HD21	7	0.84
(3,2099)	1:110:A:ILE:HD12	1:115:A:TYR:HD2	3	0.84
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	10	0.84
(3,1984)	1:38:A:THR:HG21	1:131:A:MET:HG2	12	0.84
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD12	5	0.84
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG22	4	0.84
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG21	16	0.84
(3,1693)	1:40:A:ILE:HG23	1:70:A:ILE:H	5	0.84
(3,1693)	1:40:A:ILE:HG23	1:70:A:ILE:H	11	0.84
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	3	0.84
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	3	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	3	0.84
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	17	0.84
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	17	0.84
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	17	0.84
(3,1618)	1:65:A:GLU:HB2	1:66:A:ALA:HA	20	0.84
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG21	15	0.84
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG22	18	0.84
(3,1441)	1:120:A:LEU:HD22	1:123:A:LYS:HD3	8	0.84
(3,1434)	1:107:A:LEU:HD12	1:138:A:ILE:H	17	0.84
(3,1426)	1:62:A:LEU:HD22	1:66:A:ALA:HB1	13	0.84
(3,1424)	1:26:A:ASP:HB3	1:30:A:LYS:HD3	16	0.84
(3,1399)	1:29:A:LYS:HD2	1:33:A:GLU:HG2	18	0.84
(3,1384)	1:68:A:GLU:HG3	1:69:A:LYS:H	2	0.84
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG21	12	0.84
(3,1322)	1:74:A:VAL:HG23	1:75:A:GLY:H	12	0.84
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	10	0.84
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	10	0.84
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	10	0.84
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG23	9	0.84
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG23	11	0.84
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG21	14	0.84
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG22	15	0.84
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB3	9	0.84
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	8	0.84
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG11	12	0.84
(3,1034)	1:56:A:THR:HG23	1:85:A:ASP:HA	15	0.84
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	4	0.84
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	4	0.84
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	4	0.84
(3,965)	1:14:A:LEU:HB2	1:14:A:LEU:HD11	11	0.84
(3,935)	1:62:A:LEU:HD12	1:67:A:LYS:H	19	0.84
(3,914)	1:120:A:LEU:HD22	1:149:A:GLU:HG3	14	0.84
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG23	2	0.84
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG22	8	0.84
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG23	12	0.84
(3,238)	1:29:A:LYS:HA	1:29:A:LYS:HD3	3	0.84
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD12	16	0.84
(3,78)	1:57:A:VAL:HG12	1:71:A:LEU:H	17	0.84
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	1	0.84
(1,1727)	1:60:A:ASP:H	1:89:A:THR:H	4	0.84
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD12	18	0.84
(1,1325)	1:128:A:ASN:H	1:129:A:LYS:HB3	4	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG21	5	0.84
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG23	11	0.84
(1,1265)	1:124:A:ILE:H	1:124:A:ILE:HG22	15	0.84
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	9	0.84
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG12	20	0.84
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG11	10	0.84
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG12	10	0.84
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG13	10	0.84
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG11	13	0.84
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG12	13	0.84
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG13	13	0.84
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG11	1	0.84
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG12	1	0.84
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG13	1	0.84
(1,633)	1:61:A:GLY:H	1:62:A:LEU:HB2	13	0.84
(1,481)	1:47:A:ASN:H	1:58:A:THR:HG21	14	0.84
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	7	0.84
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	1	0.84
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	5	0.84
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	7	0.84
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	11	0.84
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD12	14	0.84
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB3	6	0.84
(1,241)	1:28:A:ALA:H	1:48:A:ILE:HG21	15	0.84
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	15	0.84
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD13	10	0.84
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE2	16	0.84
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	13	0.84
(3,2616)	1:132:A:LEU:HD21	1:142:A:GLN:HE21	18	0.83
(3,2616)	1:132:A:LEU:HD22	1:142:A:GLN:HE21	18	0.83
(3,2616)	1:132:A:LEU:HD23	1:142:A:GLN:HE21	18	0.83
(3,2474)	1:107:A:LEU:H	1:144:A:LEU:HD22	4	0.83
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	7	0.83
(3,2340)	1:15:A:TRP:HZ2	1:80:A:ILE:HB	17	0.83
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	1	0.83
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	1	0.83
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	1	0.83
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	8	0.83
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG21	16	0.83
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE3	15	0.83
(3,2182)	1:126:A:GLU:HB3	1:129:A:LYS:HB2	16	0.83
(3,2112)	1:125:A:PHE:HA	1:132:A:LEU:HD23	17	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	8	0.83
(3,2076)	1:101:A:VAL:HG12	1:110:A:ILE:HD13	17	0.83
(3,2069)	1:62:A:LEU:HD11	1:89:A:THR:HA	14	0.83
(3,2069)	1:87:A:VAL:HG22	1:89:A:THR:HA	15	0.83
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE1	13	0.83
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE2	13	0.83
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE3	13	0.83
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE1	13	0.83
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE2	13	0.83
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE3	13	0.83
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE1	13	0.83
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE2	13	0.83
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE3	13	0.83
(3,2012)	1:31:A:VAL:HG12	1:32:A:GLN:HG2	15	0.83
(3,1992)	1:41:A:PRO:HG2	1:69:A:LYS:HE3	5	0.83
(3,1955)	1:128:A:ASN:HA	1:132:A:LEU:HD13	12	0.83
(3,1955)	1:128:A:ASN:HA	1:132:A:LEU:HD11	17	0.83
(3,1946)	1:12:A:GLU:HG3	1:38:A:THR:HG23	11	0.83
(3,1946)	1:12:A:GLU:HG3	1:38:A:THR:HG21	19	0.83
(3,1940)	1:106:A:THR:HG23	1:109:A:ALA:H	19	0.83
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD12	8	0.83
(3,1476)	1:92:A:PRO:HB2	1:92:A:PRO:HD3	20	0.83
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG22	14	0.83
(3,1323)	1:120:A:LEU:HD11	1:121:A:TYR:H	15	0.83
(3,1322)	1:74:A:VAL:HG21	1:75:A:GLY:H	11	0.83
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG11	2	0.83
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	4	0.83
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	4	0.83
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	4	0.83
(3,1276)	1:101:A:VAL:HG11	1:138:A:ILE:HA	20	0.83
(3,1234)	1:29:A:LYS:HA	1:29:A:LYS:HD3	12	0.83
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	5	0.83
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	5	0.83
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	5	0.83
(3,1224)	1:28:A:ALA:HB1	1:49:A:GLN:HG2	10	0.83
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG22	2	0.83
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG21	3	0.83
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG23	4	0.83
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB3	14	0.83
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	4	0.83
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	4	0.83
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	4	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	18	0.83
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	18	0.83
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	18	0.83
(3,1008)	1:118:A:ALA:HB1	1:121:A:TYR:HD1	18	0.83
(3,893)	1:67:A:LYS:HB3	1:71:A:LEU:HD11	8	0.83
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD13	8	0.83
(3,544)	1:3:A:LEU:HD23	1:54:A:LYS:HE2	4	0.83
(3,481)	1:115:A:TYR:HA	1:120:A:LEU:HD23	10	0.83
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB2	9	0.83
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	6	0.83
(3,334)	1:115:A:TYR:HD2	1:123:A:LYS:HD3	18	0.83
(3,305)	1:55:A:ALA:HB3	1:56:A:THR:H	8	0.83
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD3	8	0.83
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	20	0.83
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	2	0.83
(1,1692)	1:62:A:LEU:HB2	1:65:A:GLU:H	12	0.83
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	2	0.83
(1,1536)	1:72:A:VAL:HG21	1:76:A:ASN:HD22	11	0.83
(1,1415)	1:107:A:LEU:HB3	1:138:A:ILE:H	6	0.83
(1,1218)	1:120:A:LEU:H	1:120:A:LEU:HG	9	0.83
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	16	0.83
(1,1133)	1:113:A:GLN:H	1:118:A:ALA:HB2	15	0.83
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD11	11	0.83
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD12	12	0.83
(1,924)	1:84:A:ASP:H	1:87:A:VAL:HG22	18	0.83
(1,924)	1:74:A:VAL:HG21	1:84:A:ASP:H	19	0.83
(1,912)	1:54:A:LYS:HB3	1:82:A:SER:H	2	0.83
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG11	16	0.83
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG12	16	0.83
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG13	16	0.83
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG11	18	0.83
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG12	18	0.83
(1,767)	1:72:A:VAL:H	1:72:A:VAL:HG13	18	0.83
(1,696)	1:65:A:GLU:HB2	1:67:A:LYS:H	16	0.83
(1,678)	1:65:A:GLU:HG2	1:66:A:ALA:H	3	0.83
(1,581)	1:57:A:VAL:H	1:83:A:VAL:HG11	12	0.83
(1,581)	1:57:A:VAL:H	1:83:A:VAL:HG12	12	0.83
(1,581)	1:57:A:VAL:H	1:83:A:VAL:HG13	12	0.83
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	8	0.83
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	19	0.83
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	2	0.83
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	16	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,269)	1:30:A:LYS:H	1:50:A:ILE:HD12	4	0.83
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG22	9	0.83
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG11	15	0.83
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG12	15	0.83
(1,204)	1:18:A:VAL:H	1:18:A:VAL:HG13	15	0.83
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	6	0.83
(1,115)	1:8:A:LYS:HG2	1:10:A:ALA:H	8	0.83
(1,115)	1:8:A:LYS:HG2	1:10:A:ALA:H	20	0.83
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG21	14	0.83
(3,2485)	1:57:A:VAL:HG12	1:87:A:VAL:HB	20	0.82
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG22	1	0.82
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD21	7	0.82
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	2	0.82
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	11	0.82
(3,2225)	1:14:A:LEU:HB2	1:30:A:LYS:HB3	12	0.82
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE2	17	0.82
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE3	20	0.82
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD22	6	0.82
(3,2069)	1:87:A:VAL:HG22	1:89:A:THR:HA	17	0.82
(3,1955)	1:128:A:ASN:HA	1:132:A:LEU:HD12	8	0.82
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD11	2	0.82
(3,1693)	1:40:A:ILE:HG21	1:70:A:ILE:H	8	0.82
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	1	0.82
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	1	0.82
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	1	0.82
(3,1578)	1:127:A:ALA:HB3	1:147:A:PRO:HD2	11	0.82
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG12	2	0.82
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	9	0.82
(3,1476)	1:92:A:PRO:HB2	1:92:A:PRO:HD3	12	0.82
(3,1430)	1:131:A:MET:HE2	1:132:A:LEU:HD11	3	0.82
(3,1424)	1:26:A:ASP:HB3	1:27:A:GLN:HG2	15	0.82
(3,1399)	1:33:A:GLU:HG2	1:37:A:LYS:HD2	16	0.82
(3,1322)	1:74:A:VAL:HG22	1:75:A:GLY:H	20	0.82
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	6	0.82
(3,1317)	1:58:A:THR:HA	1:87:A:VAL:HG12	20	0.82
(3,1316)	1:30:A:LYS:HA	1:31:A:VAL:HG23	18	0.82
(3,1313)	1:72:A:VAL:HG11	1:76:A:ASN:HB3	17	0.82
(3,1302)	1:83:A:VAL:HG12	1:85:A:ASP:HB3	11	0.82
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG22	7	0.82
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG22	16	0.82
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG21	14	0.82
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG13	11	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,965)	1:14:A:LEU:HB2	1:14:A:LEU:HD12	20	0.82
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG22	7	0.82
(3,690)	1:37:A:LYS:HB3	1:38:A:THR:HA	3	0.82
(3,556)	1:3:A:LEU:HD11	1:54:A:LYS:HA	1	0.82
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	13	0.82
(3,490)	1:138:A:ILE:HA	1:144:A:LEU:HD13	2	0.82
(3,430)	1:99:A:TYR:HD2	1:114:A:VAL:HG22	3	0.82
(3,416)	1:131:A:MET:HE2	1:144:A:LEU:HD11	15	0.82
(3,242)	1:13:A:LYS:HE3	1:14:A:LEU:H	11	0.82
(3,192)	1:8:A:LYS:HG3	1:9:A:ASP:H	6	0.82
(3,50)	1:37:A:LYS:HG2	1:38:A:THR:H	12	0.82
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	2	0.82
(1,1966)	1:13:A:LYS:H	1:77:A:ILE:HG13	10	0.82
(1,1731)	1:63:A:SER:HB3	1:93:A:ALA:H	12	0.82
(1,1727)	1:60:A:ASP:H	1:89:A:THR:H	7	0.82
(1,1727)	1:60:A:ASP:H	1:89:A:THR:H	19	0.82
(1,1571)	1:148:A:GLU:HG3	1:151:A:GLU:H	10	0.82
(1,1415)	1:138:A:ILE:H	1:142:A:GLN:HB3	19	0.82
(1,1325)	1:128:A:ASN:H	1:129:A:LYS:HB3	18	0.82
(1,1265)	1:124:A:ILE:H	1:124:A:ILE:HG22	16	0.82
(1,1265)	1:107:A:LEU:HD23	1:124:A:ILE:H	19	0.82
(1,1218)	1:120:A:LEU:H	1:120:A:LEU:HG	11	0.82
(1,1202)	1:119:A:ASN:H	1:156:A:HIS:HB3	16	0.82
(1,1140)	1:114:A:VAL:H	1:124:A:ILE:HG21	7	0.82
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG11	2	0.82
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG11	10	0.82
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG12	16	0.82
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG11	19	0.82
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG11	18	0.82
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG12	18	0.82
(1,963)	1:87:A:VAL:H	1:87:A:VAL:HG13	18	0.82
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG22	5	0.82
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HB2	8	0.82
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HB2	17	0.82
(1,696)	1:65:A:GLU:HB2	1:67:A:LYS:H	17	0.82
(1,614)	1:56:A:THR:HG21	1:59:A:GLY:H	18	0.82
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG12	2	0.82
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	14	0.82
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	17	0.82
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD11	6	0.82
(1,184)	1:13:A:LYS:HE3	1:15:A:TRP:H	17	0.82
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	18	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,115)	1:8:A:LYS:HG2	1:10:A:ALA:H	4	0.82
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG21	1	0.82
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG22	1	0.82
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG23	1	0.82
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG21	3	0.82
(1,75)	1:4:A:PHE:H	1:71:A:LEU:HD23	15	0.82
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG22	9	0.82
(3,2474)	1:144:A:LEU:HD23	1:145:A:ARG:H	9	0.81
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD1	10	0.81
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD1	11	0.81
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	14	0.81
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	15	0.81
(3,2275)	1:132:A:LEU:HD12	1:139:A:TYR:HD1	15	0.81
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE3	7	0.81
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE3	9	0.81
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB2	6	0.81
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD21	9	0.81
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	3	0.81
(3,2100)	1:110:A:ILE:HD12	1:113:A:GLN:H	4	0.81
(3,2099)	1:110:A:ILE:HD12	1:115:A:TYR:HD2	15	0.81
(3,2012)	1:31:A:VAL:HG12	1:32:A:GLN:HG3	13	0.81
(3,1984)	1:38:A:THR:HG23	1:131:A:MET:HG2	3	0.81
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD13	2	0.81
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD11	6	0.81
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	7	0.81
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD11	9	0.81
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	14	0.81
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	20	0.81
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	20	0.81
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	20	0.81
(3,1606)	1:17:A:ALA:HB2	1:79:A:GLY:HA3	9	0.81
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD11	8	0.81
(3,1578)	1:127:A:ALA:HB1	1:147:A:PRO:HD2	16	0.81
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD12	9	0.81
(3,1384)	1:33:A:GLU:HG2	1:34:A:HIS:H	7	0.81
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG22	20	0.81
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG21	11	0.81
(3,1342)	1:46:A:VAL:HG22	1:47:A:ASN:H	9	0.81
(3,1281)	1:71:A:LEU:HA	1:83:A:VAL:HG22	14	0.81
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG22	1	0.81
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG23	2	0.81
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG21	13	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG22	18	0.81
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG22	20	0.81
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HD11	5	0.81
(3,1088)	1:5:A:ASN:HA	1:81:A:ALA:HB3	2	0.81
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB3	19	0.81
(3,1086)	1:142:A:GLN:HE22	1:144:A:LEU:HD11	11	0.81
(3,1086)	1:142:A:GLN:HE22	1:144:A:LEU:HD12	11	0.81
(3,1086)	1:142:A:GLN:HE22	1:144:A:LEU:HD13	11	0.81
(3,1034)	1:56:A:THR:HG22	1:85:A:ASP:HA	6	0.81
(3,1034)	1:56:A:THR:HG21	1:85:A:ASP:HA	11	0.81
(3,1034)	1:56:A:THR:HG22	1:85:A:ASP:HA	12	0.81
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	9	0.81
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	9	0.81
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	9	0.81
(3,1005)	1:114:A:VAL:HG22	1:115:A:TYR:HE2	1	0.81
(3,1005)	1:114:A:VAL:HG23	1:115:A:TYR:HE2	12	0.81
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG23	9	0.81
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	2	0.81
(3,807)	1:72:A:VAL:HG23	1:73:A:ALA:HA	5	0.81
(3,728)	1:35:A:LEU:HA	1:38:A:THR:HG22	1	0.81
(3,562)	1:107:A:LEU:HD21	1:125:A:PHE:HD2	4	0.81
(3,479)	1:115:A:TYR:H	1:115:A:TYR:HE2	12	0.81
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	16	0.81
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG23	19	0.81
(3,375)	1:132:A:LEU:HD21	1:134:A:SER:H	13	0.81
(3,375)	1:132:A:LEU:HD22	1:134:A:SER:H	13	0.81
(3,375)	1:132:A:LEU:HD23	1:134:A:SER:H	13	0.81
(3,242)	1:29:A:LYS:HE3	1:30:A:LYS:H	1	0.81
(3,125)	1:100:A:THR:HG22	1:142:A:GLN:H	1	0.81
(3,125)	1:100:A:THR:HG23	1:142:A:GLN:H	12	0.81
(3,71)	1:50:A:ILE:HD11	1:51:A:ALA:H	2	0.81
(3,71)	1:50:A:ILE:HD13	1:51:A:ALA:H	20	0.81
(3,50)	1:37:A:LYS:HG2	1:38:A:THR:H	18	0.81
(3,41)	1:40:A:ILE:HG21	1:43:A:ALA:H	2	0.81
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	1	0.81
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD3	5	0.81
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	15	0.81
(1,1697)	1:107:A:LEU:HD12	1:128:A:ASN:HD21	2	0.81
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	15	0.81
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD12	8	0.81
(1,1282)	1:126:A:GLU:H	1:132:A:LEU:HD12	12	0.81
(1,1265)	1:124:A:ILE:H	1:124:A:ILE:HG23	4	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1265)	1:124:A:ILE:H	1:124:A:ILE:HG23	6	0.81
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG13	11	0.81
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG12	15	0.81
(1,1096)	1:101:A:VAL:HG12	1:110:A:ILE:H	19	0.81
(1,1059)	1:105:A:ASP:H	1:140:A:PRO:HA	7	0.81
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG12	6	0.81
(1,924)	1:74:A:VAL:HG23	1:84:A:ASP:H	11	0.81
(1,890)	1:53:A:GLY:HA3	1:80:A:ILE:H	13	0.81
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG22	8	0.81
(1,797)	1:43:A:ALA:HB1	1:73:A:ALA:H	15	0.81
(1,705)	1:68:A:GLU:H	1:69:A:LYS:HB3	2	0.81
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	4	0.81
(1,375)	1:35:A:LEU:HD12	1:36:A:ASN:H	18	0.81
(1,307)	1:33:A:GLU:H	1:35:A:LEU:HG	18	0.81
(1,212)	1:22:A:HIS:HB3	1:25:A:ASP:H	18	0.81
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	19	0.81
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG21	20	0.81
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG22	20	0.81
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG23	20	0.81
(1,75)	1:4:A:PHE:H	1:71:A:LEU:HD22	20	0.81
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG23	2	0.81
(1,29)	1:5:A:ASN:H	1:7:A:VAL:HG23	19	0.81
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	1	0.8
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD11	10	0.8
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG13	6	0.8
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG11	16	0.8
(3,2280)	1:40:A:ILE:H	1:41:A:PRO:HD2	17	0.8
(3,2275)	1:7:A:VAL:HG12	1:139:A:TYR:HD2	17	0.8
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	14	0.8
(3,2238)	1:107:A:LEU:HD11	1:135:A:PRO:HD2	18	0.8
(3,2219)	1:14:A:LEU:HB2	1:34:A:HIS:HB3	13	0.8
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE2	9	0.8
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	12	0.8
(3,2130)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	8	0.8
(3,2129)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	8	0.8
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	1	0.8
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	13	0.8
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	2	0.8
(3,2100)	1:110:A:ILE:HD12	1:113:A:GLN:H	3	0.8
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG21	12	0.8
(3,2073)	1:108:A:SER:HA	1:110:A:ILE:HG13	13	0.8
(3,2012)	1:31:A:VAL:HG12	1:32:A:GLN:HG3	1	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2006)	1:118:A:ALA:HB3	1:121:A:TYR:HB3	10	0.8
(3,1946)	1:12:A:GLU:HG3	1:38:A:THR:HG22	9	0.8
(3,1940)	1:106:A:THR:HG23	1:109:A:ALA:H	18	0.8
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG22	13	0.8
(3,1882)	1:63:A:SER:HB3	1:65:A:GLU:HB2	17	0.8
(3,1849)	1:81:A:ALA:HB1	1:82:A:SER:HB2	20	0.8
(3,1807)	1:99:A:TYR:HE1	1:110:A:ILE:HA	13	0.8
(3,1788)	1:107:A:LEU:HB2	1:107:A:LEU:HD13	20	0.8
(3,1739)	1:98:A:PHE:HE2	1:143:A:VAL:HG23	13	0.8
(3,1739)	1:98:A:PHE:HE2	1:143:A:VAL:HG21	16	0.8
(3,1738)	1:12:A:GLU:H	1:14:A:LEU:HD23	2	0.8
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD13	3	0.8
(3,1707)	1:53:A:GLY:HA3	1:80:A:ILE:HA	20	0.8
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG23	17	0.8
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	2	0.8
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	2	0.8
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	2	0.8
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	7	0.8
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	7	0.8
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	7	0.8
(3,1618)	1:65:A:GLU:HB2	1:66:A:ALA:HA	17	0.8
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD11	3	0.8
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD12	3	0.8
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD13	3	0.8
(3,1475)	1:54:A:LYS:HD2	1:56:A:THR:HA	19	0.8
(3,1464)	1:142:A:GLN:HB3	1:144:A:LEU:H	9	0.8
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD11	3	0.8
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD12	3	0.8
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD13	3	0.8
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD11	13	0.8
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD12	13	0.8
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD13	13	0.8
(3,1424)	1:26:A:ASP:HB3	1:27:A:GLN:HG2	1	0.8
(3,1423)	1:46:A:VAL:HG21	1:47:A:ASN:HB3	8	0.8
(3,1399)	1:148:A:GLU:HG3	1:149:A:GLU:HB3	6	0.8
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG23	8	0.8
(3,1322)	1:74:A:VAL:HG22	1:75:A:GLY:H	4	0.8
(3,1322)	1:74:A:VAL:HG22	1:75:A:GLY:H	18	0.8
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG13	18	0.8
(3,1317)	1:72:A:VAL:HG11	1:144:A:LEU:HA	4	0.8
(3,1302)	1:83:A:VAL:HG12	1:85:A:ASP:HB3	19	0.8
(3,1272)	1:101:A:VAL:HG11	1:142:A:GLN:HB2	10	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1272)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	10	0.8
(3,1272)	1:101:A:VAL:HG13	1:142:A:GLN:HB2	10	0.8
(3,1224)	1:28:A:ALA:HB3	1:49:A:GLN:HG3	8	0.8
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG22	5	0.8
(3,1169)	1:126:A:GLU:HA	1:129:A:LYS:HB2	10	0.8
(3,1091)	1:59:A:GLY:HA3	1:62:A:LEU:HD11	7	0.8
(3,1062)	1:13:A:LYS:HB2	1:78:A:SER:HB2	18	0.8
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG11	7	0.8
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	14	0.8
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	14	0.8
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	14	0.8
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD13	5	0.8
(3,878)	1:12:A:GLU:HB2	1:77:A:ILE:HG22	19	0.8
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD12	15	0.8
(3,562)	1:107:A:LEU:HD23	1:121:A:TYR:HD2	14	0.8
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	7	0.8
(3,420)	1:131:A:MET:HE1	1:132:A:LEU:HD12	14	0.8
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	2	0.8
(3,249)	1:35:A:LEU:H	1:35:A:LEU:HD21	19	0.8
(3,243)	1:29:A:LYS:HG2	1:30:A:LYS:H	7	0.8
(3,238)	1:33:A:GLU:HA	1:37:A:LYS:HD2	5	0.8
(3,221)	1:150:A:LEU:H	1:150:A:LEU:HD11	10	0.8
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	5	0.8
(1,2481)	1:119:A:ASN:H	1:119:A:ASN:HD22	14	0.8
(1,2476)	1:32:A:GLN:HA	1:32:A:GLN:HE22	6	0.8
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD2	19	0.8
(1,1833)	1:31:A:VAL:HG22	1:32:A:GLN:HE21	13	0.8
(1,1824)	1:31:A:VAL:HG21	1:32:A:GLN:HE22	1	0.8
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	3	0.8
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD13	17	0.8
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD12	19	0.8
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD12	20	0.8
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD12	9	0.8
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	3	0.8
(1,1265)	1:124:A:ILE:H	1:124:A:ILE:HG23	1	0.8
(1,1265)	1:124:A:ILE:H	1:124:A:ILE:HG22	7	0.8
(1,1265)	1:124:A:ILE:H	1:124:A:ILE:HG23	12	0.8
(1,1171)	1:112:A:LYS:HG3	1:116:A:GLY:H	15	0.8
(1,1130)	1:113:A:GLN:H	1:115:A:TYR:HB3	18	0.8
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG11	4	0.8
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG12	6	0.8
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG11	8	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1096)	1:101:A:VAL:HG12	1:110:A:ILE:H	4	0.8
(1,1067)	1:101:A:VAL:HG13	1:105:A:ASP:H	19	0.8
(1,924)	1:74:A:VAL:HG23	1:84:A:ASP:H	1	0.8
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	4	0.8
(1,458)	1:46:A:VAL:H	1:62:A:LEU:HD23	11	0.8
(1,412)	1:40:A:ILE:H	1:41:A:PRO:HB2	15	0.8
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD12	17	0.8
(1,307)	1:33:A:GLU:H	1:35:A:LEU:HG	10	0.8
(1,290)	1:32:A:GLN:H	1:35:A:LEU:HG	9	0.8
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	2	0.8
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG21	5	0.8
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG22	5	0.8
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG23	5	0.8
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG21	8	0.8
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG22	8	0.8
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG23	8	0.8
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG21	17	0.8
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG22	17	0.8
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG23	17	0.8
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG23	16	0.79
(3,2396)	1:14:A:LEU:HD22	1:34:A:HIS:HE1	18	0.79
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	12	0.79
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	12	0.79
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	12	0.79
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	18	0.79
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	18	0.79
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	18	0.79
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG21	3	0.79
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG23	20	0.79
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	3	0.79
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD11	19	0.79
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE3	17	0.79
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB1	5	0.79
(3,2120)	1:132:A:LEU:HD12	1:139:A:TYR:HE1	15	0.79
(3,2112)	1:132:A:LEU:HD21	1:133:A:LYS:HA	8	0.79
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	17	0.79
(3,1946)	1:12:A:GLU:HG3	1:14:A:LEU:HG	2	0.79
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG23	17	0.79
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD11	11	0.79
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD13	16	0.79
(3,1923)	1:77:A:ILE:HG23	1:80:A:ILE:HB	13	0.79
(3,1875)	1:72:A:VAL:HG22	1:145:A:ARG:HD2	11	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG22	9	0.79
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	6	0.79
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	6	0.79
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	6	0.79
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG13	4	0.79
(3,1545)	1:97:A:GLN:HG3	1:146:A:ILE:HG22	11	0.79
(3,1511)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	7	0.79
(3,1421)	1:24:A:LYS:HA	1:50:A:ILE:HB	5	0.79
(3,1399)	1:148:A:GLU:HG3	1:149:A:GLU:HB3	5	0.79
(3,1384)	1:33:A:GLU:HG2	1:34:A:HIS:H	14	0.79
(3,1322)	1:74:A:VAL:HG21	1:75:A:GLY:H	1	0.79
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG11	15	0.79
(3,1302)	1:83:A:VAL:HG13	1:85:A:ASP:HB3	13	0.79
(3,1292)	1:120:A:LEU:HD12	1:123:A:LYS:HD2	10	0.79
(3,1272)	1:101:A:VAL:HG11	1:142:A:GLN:HB2	7	0.79
(3,1272)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	7	0.79
(3,1272)	1:101:A:VAL:HG13	1:142:A:GLN:HB2	7	0.79
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	5	0.79
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG22	10	0.79
(3,1157)	1:112:A:LYS:HG3	1:117:A:ASN:H	2	0.79
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG12	16	0.79
(3,1034)	1:56:A:THR:HG23	1:85:A:ASP:HA	2	0.79
(3,919)	1:121:A:TYR:HD2	1:122:A:ASN:HA	2	0.79
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG23	16	0.79
(3,692)	1:133:A:LYS:HB3	1:134:A:SER:HB3	18	0.79
(3,562)	1:107:A:LEU:HD23	1:121:A:TYR:HD2	19	0.79
(3,505)	1:125:A:PHE:HB3	1:125:A:PHE:HE1	3	0.79
(3,505)	1:125:A:PHE:HB3	1:125:A:PHE:HE1	4	0.79
(3,505)	1:125:A:PHE:HB3	1:125:A:PHE:HE1	13	0.79
(3,420)	1:131:A:MET:HE3	1:132:A:LEU:HD23	5	0.79
(3,375)	1:132:A:LEU:HD21	1:134:A:SER:H	6	0.79
(3,375)	1:132:A:LEU:HD22	1:134:A:SER:H	6	0.79
(3,375)	1:132:A:LEU:HD23	1:134:A:SER:H	6	0.79
(3,316)	1:61:A:GLY:H	1:62:A:LEU:HG	18	0.79
(3,305)	1:55:A:ALA:HB3	1:56:A:THR:H	2	0.79
(3,272)	1:65:A:GLU:HA	1:93:A:ALA:HB2	1	0.79
(3,234)	1:59:A:GLY:H	1:88:A:LYS:HE2	12	0.79
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD13	9	0.79
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD12	14	0.79
(3,125)	1:100:A:THR:HG23	1:142:A:GLN:H	6	0.79
(3,71)	1:50:A:ILE:HD12	1:51:A:ALA:H	10	0.79
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	20	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1692)	1:62:A:LEU:HB2	1:65:A:GLU:H	9	0.79
(1,1692)	1:62:A:LEU:HB2	1:65:A:GLU:H	20	0.79
(1,1682)	1:87:A:VAL:HG21	1:88:A:LYS:H	3	0.79
(1,1682)	1:87:A:VAL:HG22	1:88:A:LYS:H	3	0.79
(1,1682)	1:87:A:VAL:HG23	1:88:A:LYS:H	3	0.79
(1,1616)	1:8:A:LYS:HD3	1:9:A:ASP:H	10	0.79
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	14	0.79
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	14	0.79
(1,1540)	1:47:A:ASN:HD22	1:48:A:ILE:HD12	4	0.79
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD13	12	0.79
(1,1415)	1:107:A:LEU:HB3	1:138:A:ILE:H	14	0.79
(1,1325)	1:128:A:ASN:H	1:129:A:LYS:HB3	13	0.79
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	1	0.79
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	16	0.79
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG12	3	0.79
(1,924)	1:84:A:ASP:H	1:87:A:VAL:HG23	4	0.79
(1,924)	1:74:A:VAL:HG22	1:84:A:ASP:H	8	0.79
(1,912)	1:54:A:LYS:HB3	1:82:A:SER:H	12	0.79
(1,875)	1:8:A:LYS:HG2	1:79:A:GLY:H	20	0.79
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG23	4	0.79
(1,705)	1:68:A:GLU:H	1:69:A:LYS:HB3	16	0.79
(1,671)	1:62:A:LEU:HD21	1:66:A:ALA:H	11	0.79
(1,644)	1:45:A:LYS:HG3	1:62:A:LEU:H	16	0.79
(1,630)	1:61:A:GLY:H	1:62:A:LEU:HG	13	0.79
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD11	1	0.79
(1,307)	1:30:A:LYS:HB3	1:33:A:GLU:H	14	0.79
(1,304)	1:40:A:ILE:HD13	1:132:A:LEU:H	4	0.79
(1,224)	1:24:A:LYS:HE3	1:27:A:GLN:H	7	0.79
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	8	0.79
(3,2794)	1:82:A:SER:HB2	1:83:A:VAL:H	17	0.78
(3,2451)	1:81:A:ALA:HB2	1:82:A:SER:HB3	4	0.78
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG21	2	0.78
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	5	0.78
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	5	0.78
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	5	0.78
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	19	0.78
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	19	0.78
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	19	0.78
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD11	13	0.78
(3,2214)	1:107:A:LEU:HD11	1:108:A:SER:H	15	0.78
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE2	8	0.78
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE3	14	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2193)	1:3:A:LEU:HD21	1:85:A:ASP:H	13	0.78
(3,2173)	1:77:A:ILE:HB	1:80:A:ILE:HA	18	0.78
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	5	0.78
(3,2100)	1:110:A:ILE:HD11	1:113:A:GLN:H	16	0.78
(3,2006)	1:118:A:ALA:HB1	1:121:A:TYR:HB3	8	0.78
(3,1984)	1:38:A:THR:HG23	1:131:A:MET:HG2	10	0.78
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD11	1	0.78
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	19	0.78
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	19	0.78
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	19	0.78
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	19	0.78
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	19	0.78
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	19	0.78
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	19	0.78
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	19	0.78
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	19	0.78
(3,1746)	1:94:A:THR:HG22	1:148:A:GLU:HG2	1	0.78
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	11	0.78
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	11	0.78
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	11	0.78
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD12	14	0.78
(3,1659)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	14	0.78
(3,1596)	1:42:A:ASP:HB3	1:62:A:LEU:HG	19	0.78
(3,1476)	1:92:A:PRO:HB2	1:92:A:PRO:HD3	19	0.78
(3,1376)	1:32:A:GLN:HG2	1:48:A:ILE:HG13	11	0.78
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG23	13	0.78
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG21	3	0.78
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG11	7	0.78
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG13	19	0.78
(3,1302)	1:83:A:VAL:HG11	1:85:A:ASP:HB3	15	0.78
(3,1229)	1:28:A:ALA:HB3	1:50:A:ILE:HD12	5	0.78
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG23	10	0.78
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG22	1	0.78
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG22	8	0.78
(3,1157)	1:112:A:LYS:HG3	1:117:A:ASN:H	7	0.78
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	5	0.78
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG13	11	0.78
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG23	20	0.78
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG11	9	0.78
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	10	0.78
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	10	0.78
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	10	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG21	2	0.78
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG23	11	0.78
(3,952)	1:42:A:ASP:HB3	1:62:A:LEU:HD12	13	0.78
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	5	0.78
(3,914)	1:120:A:LEU:HD23	1:149:A:GLU:HG2	20	0.78
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD12	14	0.78
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD21	2	0.78
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD22	2	0.78
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD23	2	0.78
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG21	1	0.78
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	4	0.78
(3,853)	1:10:A:ALA:HB2	1:11:A:GLY:HA3	8	0.78
(3,556)	1:3:A:LEU:HD12	1:54:A:LYS:HA	14	0.78
(3,555)	1:132:A:LEU:HD21	1:138:A:ILE:HA	13	0.78
(3,555)	1:132:A:LEU:HD22	1:138:A:ILE:HA	13	0.78
(3,555)	1:132:A:LEU:HD23	1:138:A:ILE:HA	13	0.78
(3,401)	1:126:A:GLU:HA	1:129:A:LYS:HD2	20	0.78
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	12	0.78
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE3	4	0.78
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE3	8	0.78
(3,316)	1:13:A:LYS:HD3	1:14:A:LEU:H	20	0.78
(3,221)	1:150:A:LEU:H	1:150:A:LEU:HD11	8	0.78
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD12	5	0.78
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD12	8	0.78
(3,192)	1:8:A:LYS:HG3	1:9:A:ASP:H	3	0.78
(3,41)	1:40:A:ILE:HG21	1:43:A:ALA:H	4	0.78
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	11	0.78
(1,1977)	1:55:A:ALA:HB1	1:74:A:VAL:H	11	0.78
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG21	6	0.78
(1,1874)	1:68:A:GLU:HG3	1:145:A:ARG:HE	5	0.78
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD22	1	0.78
(1,1728)	1:88:A:LYS:HD3	1:90:A:ALA:H	1	0.78
(1,1682)	1:87:A:VAL:HG21	1:88:A:LYS:H	4	0.78
(1,1682)	1:87:A:VAL:HG22	1:88:A:LYS:H	4	0.78
(1,1682)	1:87:A:VAL:HG23	1:88:A:LYS:H	4	0.78
(1,1682)	1:87:A:VAL:HG21	1:88:A:LYS:H	5	0.78
(1,1682)	1:87:A:VAL:HG22	1:88:A:LYS:H	5	0.78
(1,1682)	1:87:A:VAL:HG23	1:88:A:LYS:H	5	0.78
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	11	0.78
(1,1352)	1:38:A:THR:HG21	1:131:A:MET:H	13	0.78
(1,1330)	1:72:A:VAL:HG22	1:128:A:ASN:H	5	0.78
(1,1265)	1:124:A:ILE:H	1:124:A:ILE:HG21	20	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG11	5	0.78
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG13	9	0.78
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG11	14	0.78
(1,966)	1:87:A:VAL:HG13	1:88:A:LYS:H	12	0.78
(1,678)	1:66:A:ALA:H	1:67:A:LYS:HB2	19	0.78
(1,644)	1:62:A:LEU:H	1:66:A:ALA:HB3	4	0.78
(1,633)	1:61:A:GLY:H	1:62:A:LEU:HB2	7	0.78
(1,588)	1:58:A:THR:H	1:83:A:VAL:HG11	6	0.78
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	4	0.78
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	10	0.78
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	12	0.78
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	18	0.78
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD11	11	0.78
(1,342)	1:31:A:VAL:HG23	1:34:A:HIS:H	4	0.78
(1,241)	1:28:A:ALA:H	1:48:A:ILE:HG21	11	0.78
(1,184)	1:13:A:LYS:HE2	1:15:A:TRP:H	9	0.78
(1,134)	1:12:A:GLU:H	1:38:A:THR:HG21	13	0.78
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG21	6	0.78
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG23	17	0.78
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	17	0.77
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	13	0.77
(3,2396)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	19	0.77
(3,2363)	1:50:A:ILE:HG22	1:52:A:ASP:HB3	3	0.77
(3,2358)	1:129:A:LYS:HD3	1:130:A:PRO:HA	2	0.77
(3,2344)	1:6:A:PHE:HZ	1:143:A:VAL:HG13	15	0.77
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD1	13	0.77
(3,2295)	1:94:A:THR:HG23	1:148:A:GLU:H	17	0.77
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB2	13	0.77
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD23	3	0.77
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	11	0.77
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	14	0.77
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	20	0.77
(3,2087)	1:101:A:VAL:HG13	1:110:A:ILE:HG22	13	0.77
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG22	19	0.77
(3,2018)	1:121:A:TYR:HE2	1:135:A:PRO:HD2	15	0.77
(3,1984)	1:38:A:THR:HG23	1:131:A:MET:HG2	15	0.77
(3,1920)	1:77:A:ILE:HG22	1:80:A:ILE:HG13	3	0.77
(3,1787)	1:107:A:LEU:HD13	1:135:A:PRO:HD3	19	0.77
(3,1693)	1:40:A:ILE:HG21	1:70:A:ILE:H	17	0.77
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	5	0.77
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	5	0.77
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	5	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1618)	1:65:A:GLU:HB2	1:66:A:ALA:HA	11	0.77
(3,1495)	1:125:A:PHE:HE2	1:132:A:LEU:HG	4	0.77
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	14	0.77
(3,1464)	1:4:A:PHE:H	1:54:A:LYS:HD2	20	0.77
(3,1424)	1:26:A:ASP:HB3	1:27:A:GLN:HG2	6	0.77
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG23	2	0.77
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG21	19	0.77
(3,1325)	1:6:A:PHE:HZ	1:83:A:VAL:HG22	20	0.77
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG23	6	0.77
(3,1211)	1:80:A:ILE:H	1:80:A:ILE:HG21	17	0.77
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG23	4	0.77
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG22	18	0.77
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	5	0.77
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG11	13	0.77
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG11	13	0.77
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG12	13	0.77
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG13	13	0.77
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	9	0.77
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	9	0.77
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	9	0.77
(3,1005)	1:114:A:VAL:HG22	1:115:A:TYR:HE2	13	0.77
(3,916)	1:15:A:TRP:HE3	1:21:A:GLN:HB3	7	0.77
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD12	1	0.77
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	18	0.77
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	18	0.77
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	18	0.77
(3,505)	1:125:A:PHE:HB3	1:125:A:PHE:HE1	11	0.77
(3,430)	1:99:A:TYR:HD2	1:114:A:VAL:HG22	5	0.77
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD12	3	0.77
(3,194)	1:132:A:LEU:HD12	1:133:A:LYS:H	10	0.77
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	6	0.77
(3,125)	1:100:A:THR:HG22	1:142:A:GLN:H	4	0.77
(3,125)	1:100:A:THR:HG21	1:142:A:GLN:H	15	0.77
(3,78)	1:57:A:VAL:HG12	1:71:A:LEU:H	10	0.77
(3,71)	1:50:A:ILE:HD12	1:51:A:ALA:H	1	0.77
(3,71)	1:50:A:ILE:HD13	1:51:A:ALA:H	9	0.77
(3,45)	1:88:A:LYS:H	1:88:A:LYS:HG2	1	0.77
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	9	0.77
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	15	0.77
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	5	0.77
(1,1833)	1:31:A:VAL:HG21	1:32:A:GLN:HE21	1	0.77
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	19	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1488)	1:7:A:VAL:HG22	1:143:A:VAL:H	11	0.77
(1,1466)	1:101:A:VAL:HB	1:142:A:GLN:H	15	0.77
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	17	0.77
(1,1097)	1:107:A:LEU:HD23	1:110:A:ILE:H	8	0.77
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD13	16	0.77
(1,1059)	1:103:A:SER:HB2	1:105:A:ASP:H	5	0.77
(1,1023)	1:100:A:THR:H	1:101:A:VAL:HG12	20	0.77
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG22	18	0.77
(1,793)	1:40:A:ILE:HG12	1:73:A:ALA:H	4	0.77
(1,793)	1:40:A:ILE:HG12	1:73:A:ALA:H	11	0.77
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG12	12	0.77
(1,705)	1:68:A:GLU:H	1:69:A:LYS:HB3	18	0.77
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	14	0.77
(1,671)	1:62:A:LEU:HD22	1:66:A:ALA:H	20	0.77
(1,579)	1:55:A:ALA:HB2	1:57:A:VAL:H	4	0.77
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	16	0.77
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	17	0.77
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD13	7	0.77
(1,389)	1:31:A:VAL:HG12	1:38:A:THR:H	19	0.77
(1,304)	1:40:A:ILE:HD11	1:132:A:LEU:H	5	0.77
(1,290)	1:32:A:GLN:H	1:35:A:LEU:HG	7	0.77
(1,278)	1:14:A:LEU:HD11	1:31:A:VAL:H	2	0.77
(1,278)	1:14:A:LEU:HD12	1:31:A:VAL:H	2	0.77
(1,278)	1:14:A:LEU:HD13	1:31:A:VAL:H	2	0.77
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	8	0.77
(3,2794)	1:82:A:SER:HB2	1:83:A:VAL:H	7	0.76
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	19	0.76
(3,2451)	1:81:A:ALA:HB1	1:82:A:SER:HB3	8	0.76
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG23	5	0.76
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG23	8	0.76
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG23	10	0.76
(3,2404)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	15	0.76
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD1	9	0.76
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	2	0.76
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	2	0.76
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	2	0.76
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	4	0.76
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	4	0.76
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	4	0.76
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG22	15	0.76
(3,2275)	1:132:A:LEU:HD13	1:139:A:TYR:HD1	6	0.76
(3,2219)	1:14:A:LEU:HB2	1:15:A:TRP:HB3	12	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE2	14	0.76
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	3	0.76
(3,2170)	1:107:A:LEU:HD13	1:125:A:PHE:HB3	6	0.76
(3,2124)	1:115:A:TYR:HA	1:149:A:GLU:HB3	4	0.76
(3,2112)	1:132:A:LEU:HD22	1:133:A:LYS:HA	12	0.76
(3,2112)	1:132:A:LEU:HD23	1:133:A:LYS:HA	16	0.76
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	5	0.76
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	18	0.76
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	19	0.76
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	11	0.76
(3,2069)	1:87:A:VAL:HG22	1:89:A:THR:HA	16	0.76
(3,1923)	1:77:A:ILE:HG21	1:80:A:ILE:HB	19	0.76
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD13	20	0.76
(3,1707)	1:53:A:GLY:HA3	1:80:A:ILE:HA	12	0.76
(3,1664)	1:101:A:VAL:HB	1:138:A:ILE:HD13	10	0.76
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD12	18	0.76
(3,1578)	1:127:A:ALA:HB2	1:147:A:PRO:HD2	1	0.76
(3,1578)	1:127:A:ALA:HB3	1:147:A:PRO:HD2	10	0.76
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG12	6	0.76
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD11	2	0.76
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD11	6	0.76
(3,1441)	1:120:A:LEU:HD23	1:123:A:LYS:HD3	19	0.76
(3,1436)	1:132:A:LEU:HD13	1:138:A:ILE:HA	8	0.76
(3,1376)	1:110:A:ILE:HB	1:113:A:GLN:HG2	18	0.76
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG23	4	0.76
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG21	16	0.76
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG23	4	0.76
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG22	15	0.76
(3,1322)	1:74:A:VAL:HG22	1:75:A:GLY:H	19	0.76
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG13	3	0.76
(3,1313)	1:72:A:VAL:HG12	1:145:A:ARG:HD3	5	0.76
(3,1133)	1:107:A:LEU:HA	1:138:A:ILE:HG22	10	0.76
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	13	0.76
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG12	10	0.76
(3,1034)	1:56:A:THR:HG22	1:85:A:ASP:HA	19	0.76
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	7	0.76
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	7	0.76
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	7	0.76
(3,1008)	1:118:A:ALA:HB3	1:121:A:TYR:HD1	3	0.76
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG22	5	0.76
(3,979)	1:126:A:GLU:HA	1:129:A:LYS:HG2	2	0.76
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	2	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	6	0.76
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD13	20	0.76
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD21	6	0.76
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD22	6	0.76
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD23	6	0.76
(3,906)	1:120:A:LEU:HD23	1:123:A:LYS:HE2	5	0.76
(3,893)	1:67:A:LYS:HB3	1:71:A:LEU:HD11	12	0.76
(3,760)	1:8:A:LYS:HA	1:8:A:LYS:HG3	2	0.76
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD12	7	0.76
(3,690)	1:37:A:LYS:HB3	1:38:A:THR:HA	7	0.76
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	13	0.76
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	13	0.76
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	13	0.76
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	20	0.76
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	20	0.76
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	20	0.76
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD21	10	0.76
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD22	10	0.76
(3,607)	1:14:A:LEU:HA	1:14:A:LEU:HD23	10	0.76
(3,562)	1:107:A:LEU:HD21	1:121:A:TYR:HD2	11	0.76
(3,505)	1:125:A:PHE:HB3	1:125:A:PHE:HE1	9	0.76
(3,479)	1:115:A:TYR:H	1:115:A:TYR:HE2	3	0.76
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG21	11	0.76
(3,420)	1:131:A:MET:HE2	1:132:A:LEU:HD22	2	0.76
(3,361)	1:21:A:GLN:HB3	1:23:A:ASP:H	17	0.76
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	7	0.76
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE3	5	0.76
(3,317)	1:67:A:LYS:HA	1:67:A:LYS:HE2	12	0.76
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB3	7	0.76
(3,229)	1:18:A:VAL:HG21	1:19:A:THR:H	17	0.76
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD13	15	0.76
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD13	19	0.76
(3,192)	1:8:A:LYS:HG3	1:9:A:ASP:H	13	0.76
(3,125)	1:100:A:THR:HG22	1:142:A:GLN:H	8	0.76
(3,71)	1:50:A:ILE:HD11	1:51:A:ALA:H	17	0.76
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	2	0.76
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	4	0.76
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	16	0.76
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	17	0.76
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	18	0.76
(1,1977)	1:55:A:ALA:HB1	1:74:A:VAL:H	20	0.76
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	5	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1851)	1:7:A:VAL:HG13	1:11:A:GLY:H	3	0.76
(1,1750)	1:96:A:SER:H	1:145:A:ARG:HB3	9	0.76
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	7	0.76
(1,1616)	1:8:A:LYS:HD3	1:9:A:ASP:H	20	0.76
(1,1571)	1:148:A:GLU:HG3	1:151:A:GLU:H	8	0.76
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD11	2	0.76
(1,1325)	1:69:A:LYS:HD3	1:128:A:ASN:H	11	0.76
(1,1325)	1:69:A:LYS:HD3	1:128:A:ASN:H	16	0.76
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG22	10	0.76
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD23	2	0.76
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG11	19	0.76
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	14	0.76
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	14	0.76
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	14	0.76
(1,725)	1:68:A:GLU:HG3	1:69:A:LYS:H	6	0.76
(1,672)	1:62:A:LEU:HB2	1:66:A:ALA:H	12	0.76
(1,671)	1:62:A:LEU:HD12	1:66:A:ALA:H	19	0.76
(1,630)	1:61:A:GLY:H	1:62:A:LEU:HG	7	0.76
(1,507)	1:49:A:GLN:H	1:83:A:VAL:HG12	13	0.76
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	3	0.76
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	14	0.76
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD13	4	0.76
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD13	8	0.76
(1,273)	1:28:A:ALA:HB1	1:31:A:VAL:H	8	0.76
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG21	2	0.76
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG22	2	0.76
(1,93)	1:7:A:VAL:H	1:7:A:VAL:HG23	2	0.76
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG23	8	0.76
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	5	0.75
(3,2474)	1:144:A:LEU:HD23	1:145:A:ARG:H	5	0.75
(3,2474)	1:107:A:LEU:H	1:144:A:LEU:HD22	10	0.75
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG21	4	0.75
(3,2368)	1:66:A:ALA:H	1:68:A:GLU:HG3	8	0.75
(3,2363)	1:50:A:ILE:HG22	1:52:A:ASP:HB3	16	0.75
(3,2321)	1:40:A:ILE:HD11	1:131:A:MET:HG2	5	0.75
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	3	0.75
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	3	0.75
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	3	0.75
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG21	1	0.75
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG22	2	0.75
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB1	11	0.75
(3,2120)	1:132:A:LEU:HD21	1:139:A:TYR:HE1	14	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2114)	1:27:A:GLN:HA	1:30:A:LYS:HA	15	0.75
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	6	0.75
(3,2100)	1:110:A:ILE:HD11	1:113:A:GLN:H	8	0.75
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	20	0.75
(3,2080)	1:110:A:ILE:HD12	1:113:A:GLN:HG3	4	0.75
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	19	0.75
(3,2073)	1:108:A:SER:HA	1:110:A:ILE:HG13	18	0.75
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG13	11	0.75
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG23	12	0.75
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD13	4	0.75
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD13	8	0.75
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD13	9	0.75
(3,1860)	1:66:A:ALA:HB1	1:70:A:ILE:HD13	5	0.75
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	14	0.75
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	14	0.75
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD11	12	0.75
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG21	5	0.75
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	4	0.75
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	4	0.75
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	4	0.75
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	9	0.75
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	9	0.75
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	9	0.75
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	16	0.75
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	16	0.75
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	16	0.75
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD12	11	0.75
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG13	5	0.75
(3,1511)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	8	0.75
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	14	0.75
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD13	5	0.75
(3,1475)	1:142:A:GLN:HB3	1:143:A:VAL:HA	5	0.75
(3,1424)	1:26:A:ASP:HB3	1:30:A:LYS:HD3	9	0.75
(3,1376)	1:110:A:ILE:HB	1:113:A:GLN:HG2	2	0.75
(3,1272)	1:101:A:VAL:HG11	1:142:A:GLN:HB2	9	0.75
(3,1272)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	9	0.75
(3,1272)	1:101:A:VAL:HG13	1:142:A:GLN:HB2	9	0.75
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG23	8	0.75
(3,1133)	1:107:A:LEU:HA	1:138:A:ILE:HG22	6	0.75
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG23	13	0.75
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG11	19	0.75
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG11	7	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG12	7	0.75
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG13	7	0.75
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG11	19	0.75
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG12	19	0.75
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG13	19	0.75
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG22	3	0.75
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG21	16	0.75
(3,988)	1:114:A:VAL:HG22	1:115:A:TYR:HB3	8	0.75
(3,951)	1:4:A:PHE:HB2	1:71:A:LEU:HD13	17	0.75
(3,943)	1:14:A:LEU:HA	1:14:A:LEU:HD11	4	0.75
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD11	14	0.75
(3,690)	1:37:A:LYS:HB3	1:38:A:THR:HA	18	0.75
(3,555)	1:132:A:LEU:HD21	1:138:A:ILE:HA	3	0.75
(3,555)	1:132:A:LEU:HD22	1:138:A:ILE:HA	3	0.75
(3,555)	1:132:A:LEU:HD23	1:138:A:ILE:HA	3	0.75
(3,505)	1:125:A:PHE:HB3	1:125:A:PHE:HE1	17	0.75
(3,375)	1:132:A:LEU:HD21	1:134:A:SER:H	18	0.75
(3,375)	1:132:A:LEU:HD22	1:134:A:SER:H	18	0.75
(3,375)	1:132:A:LEU:HD23	1:134:A:SER:H	18	0.75
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB2	15	0.75
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB1	19	0.75
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD11	11	0.75
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD11	13	0.75
(3,192)	1:8:A:LYS:HG3	1:9:A:ASP:H	7	0.75
(3,71)	1:50:A:ILE:HD13	1:51:A:ALA:H	3	0.75
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	6	0.75
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	8	0.75
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	7	0.75
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	7	0.75
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	7	0.75
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	13	0.75
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	13	0.75
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	13	0.75
(1,1977)	1:55:A:ALA:HB1	1:74:A:VAL:H	6	0.75
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	6	0.75
(1,1949)	1:138:A:ILE:H	1:142:A:GLN:HB3	12	0.75
(1,1727)	1:60:A:ASP:H	1:89:A:THR:H	12	0.75
(1,1682)	1:87:A:VAL:HG21	1:88:A:LYS:H	6	0.75
(1,1682)	1:87:A:VAL:HG22	1:88:A:LYS:H	6	0.75
(1,1682)	1:87:A:VAL:HG23	1:88:A:LYS:H	6	0.75
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	17	0.75
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD13	7	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD12	10	0.75
(1,1415)	1:107:A:LEU:HB3	1:138:A:ILE:H	10	0.75
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	20	0.75
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	20	0.75
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	20	0.75
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	13	0.75
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	17	0.75
(1,1282)	1:107:A:LEU:HD11	1:126:A:GLU:H	3	0.75
(1,1265)	1:107:A:LEU:HD21	1:124:A:ILE:H	2	0.75
(1,1265)	1:124:A:ILE:H	1:124:A:ILE:HG22	8	0.75
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	9	0.75
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG12	18	0.75
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD13	14	0.75
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	5	0.75
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	5	0.75
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	5	0.75
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	6	0.75
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	6	0.75
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	6	0.75
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	11	0.75
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	11	0.75
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	11	0.75
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	17	0.75
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	17	0.75
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	17	0.75
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HB2	2	0.75
(1,792)	1:70:A:ILE:HB	1:73:A:ALA:H	13	0.75
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE3	8	0.75
(1,732)	1:40:A:ILE:HG23	1:69:A:LYS:H	7	0.75
(1,663)	1:63:A:SER:HB3	1:65:A:GLU:H	8	0.75
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG13	1	0.75
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG12	9	0.75
(1,549)	1:54:A:LYS:HG3	1:55:A:ALA:H	6	0.75
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	8	0.75
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD11	13	0.75
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG12	14	0.75
(1,241)	1:28:A:ALA:H	1:48:A:ILE:HG21	8	0.75
(1,241)	1:28:A:ALA:H	1:48:A:ILE:HG21	14	0.75
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	9	0.75
(3,2616)	1:132:A:LEU:HD21	1:142:A:GLN:HE21	13	0.74
(3,2616)	1:132:A:LEU:HD22	1:142:A:GLN:HE21	13	0.74
(3,2616)	1:132:A:LEU:HD23	1:142:A:GLN:HE21	13	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	2	0.74
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG23	20	0.74
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB1	16	0.74
(3,2415)	1:70:A:ILE:H	1:71:A:LEU:HD12	15	0.74
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG21	5	0.74
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG22	5	0.74
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG23	5	0.74
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG21	5	0.74
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG22	5	0.74
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG23	5	0.74
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD12	18	0.74
(3,2335)	1:29:A:LYS:HE3	1:33:A:GLU:HG2	14	0.74
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG22	11	0.74
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG21	12	0.74
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	5	0.74
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG23	13	0.74
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	19	0.74
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD12	18	0.74
(3,2219)	1:14:A:LEU:HB2	1:34:A:HIS:HB3	19	0.74
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE1	13	0.74
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	11	0.74
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB1	7	0.74
(3,2182)	1:126:A:GLU:HB2	1:129:A:LYS:HB2	13	0.74
(3,2180)	1:13:A:LYS:HA	1:13:A:LYS:HD2	5	0.74
(3,2170)	1:107:A:LEU:HD11	1:125:A:PHE:HB3	5	0.74
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD23	19	0.74
(3,2112)	1:132:A:LEU:HD21	1:133:A:LYS:HA	14	0.74
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	9	0.74
(3,2099)	1:110:A:ILE:HD12	1:115:A:TYR:HD2	4	0.74
(3,2087)	1:101:A:VAL:HG13	1:110:A:ILE:HG23	18	0.74
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	9	0.74
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	14	0.74
(3,2069)	1:62:A:LEU:HD23	1:89:A:THR:HA	18	0.74
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	5	0.74
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	5	0.74
(3,2035)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	5	0.74
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	5	0.74
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	5	0.74
(3,2035)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	5	0.74
(3,2012)	1:31:A:VAL:HG11	1:32:A:GLN:HG2	8	0.74
(3,1997)	1:58:A:THR:HG23	1:88:A:LYS:HE2	2	0.74
(3,1946)	1:12:A:GLU:HG3	1:38:A:THR:HG22	14	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1946)	1:12:A:GLU:HG3	1:38:A:THR:HG22	20	0.74
(3,1940)	1:106:A:THR:HG21	1:109:A:ALA:H	11	0.74
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG23	1	0.74
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG22	7	0.74
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	13	0.74
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	13	0.74
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	13	0.74
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	13	0.74
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	13	0.74
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	13	0.74
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	13	0.74
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	13	0.74
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	13	0.74
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG21	14	0.74
(3,1739)	1:98:A:PHE:HE2	1:143:A:VAL:HG23	15	0.74
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD11	5	0.74
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD12	5	0.74
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD13	5	0.74
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD11	2	0.74
(3,1578)	1:127:A:ALA:HB1	1:147:A:PRO:HD2	6	0.74
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG11	19	0.74
(3,1556)	1:48:A:ILE:HG23	1:55:A:ALA:HB2	19	0.74
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD11	13	0.74
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD12	13	0.74
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD13	13	0.74
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD11	14	0.74
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD12	14	0.74
(3,1522)	1:53:A:GLY:HA3	1:80:A:ILE:HD13	14	0.74
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	18	0.74
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	12	0.74
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	12	0.74
(3,1434)	1:132:A:LEU:HD11	1:138:A:ILE:H	9	0.74
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG23	18	0.74
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG21	7	0.74
(3,1322)	1:74:A:VAL:HG23	1:75:A:GLY:H	8	0.74
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG13	20	0.74
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	5	0.74
(3,1292)	1:120:A:LEU:HD12	1:123:A:LYS:HD3	20	0.74
(3,1281)	1:71:A:LEU:HA	1:83:A:VAL:HG22	8	0.74
(3,1215)	1:106:A:THR:HA	1:138:A:ILE:HG21	13	0.74
(3,1202)	1:54:A:LYS:HB3	1:54:A:LYS:HE2	9	0.74
(3,1176)	1:113:A:GLN:HG2	1:114:A:VAL:HA	17	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG21	9	0.74
(3,946)	1:107:A:LEU:HD13	1:121:A:TYR:HA	2	0.74
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	2	0.74
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	2	0.74
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	2	0.74
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD21	8	0.74
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD22	12	0.74
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG22	15	0.74
(3,807)	1:72:A:VAL:HG11	1:73:A:ALA:HA	18	0.74
(3,760)	1:8:A:LYS:HA	1:8:A:LYS:HG3	15	0.74
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	15	0.74
(3,479)	1:115:A:TYR:H	1:115:A:TYR:HE2	20	0.74
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	2	0.74
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB2	18	0.74
(3,161)	1:113:A:GLN:H	1:113:A:GLN:HG3	17	0.74
(3,142)	1:107:A:LEU:HD13	1:110:A:ILE:HD11	11	0.74
(1,2481)	1:119:A:ASN:H	1:119:A:ASN:HD22	9	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	1	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	1	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	1	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	2	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	2	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	2	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	4	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	4	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	4	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	5	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	5	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	5	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	9	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	9	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	9	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	10	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	10	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	10	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	11	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	11	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	11	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	14	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	14	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	14	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	16	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	16	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	16	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	18	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	18	0.74
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	18	0.74
(1,1682)	1:87:A:VAL:HG21	1:88:A:LYS:H	9	0.74
(1,1682)	1:87:A:VAL:HG22	1:88:A:LYS:H	9	0.74
(1,1682)	1:87:A:VAL:HG23	1:88:A:LYS:H	9	0.74
(1,1682)	1:87:A:VAL:HG21	1:88:A:LYS:H	10	0.74
(1,1682)	1:87:A:VAL:HG22	1:88:A:LYS:H	10	0.74
(1,1682)	1:87:A:VAL:HG23	1:88:A:LYS:H	10	0.74
(1,1682)	1:87:A:VAL:HG21	1:88:A:LYS:H	13	0.74
(1,1682)	1:87:A:VAL:HG22	1:88:A:LYS:H	13	0.74
(1,1682)	1:87:A:VAL:HG23	1:88:A:LYS:H	13	0.74
(1,1675)	1:32:A:GLN:HG3	1:45:A:LYS:H	5	0.74
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	9	0.74
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	10	0.74
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	12	0.74
(1,1406)	1:121:A:TYR:HD2	1:136:A:ASP:H	9	0.74
(1,1218)	1:120:A:LEU:H	1:120:A:LEU:HG	19	0.74
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	10	0.74
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	19	0.74
(1,1096)	1:101:A:VAL:HG11	1:110:A:ILE:H	15	0.74
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	11	0.74
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	11	0.74
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	11	0.74
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	10	0.74
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	10	0.74
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	10	0.74
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	16	0.74
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	16	0.74
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	16	0.74
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	19	0.74
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	19	0.74
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	19	0.74
(1,742)	1:68:A:GLU:HG3	1:70:A:ILE:H	4	0.74
(1,671)	1:62:A:LEU:HD23	1:66:A:ALA:H	14	0.74
(1,633)	1:61:A:GLY:H	1:62:A:LEU:HB2	2	0.74
(1,579)	1:55:A:ALA:HB3	1:57:A:VAL:H	17	0.74
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG11	6	0.74
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	4	0.74
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	17	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,302)	1:129:A:LYS:HG3	1:132:A:LEU:H	7	0.74
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG13	16	0.74
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG11	17	0.74
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG12	20	0.74
(1,241)	1:28:A:ALA:H	1:48:A:ILE:HG21	12	0.74
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	12	0.74
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	19	0.74
(1,212)	1:22:A:HIS:HB2	1:25:A:ASP:H	8	0.74
(1,184)	1:13:A:LYS:HE3	1:15:A:TRP:H	16	0.74
(3,2794)	1:82:A:SER:HB2	1:83:A:VAL:H	6	0.73
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD3	9	0.73
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD2	9	0.73
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG21	11	0.73
(3,2368)	1:66:A:ALA:H	1:68:A:GLU:HG3	19	0.73
(3,2356)	1:101:A:VAL:HG11	1:142:A:GLN:HB2	2	0.73
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD11	1	0.73
(3,2348)	1:31:A:VAL:HG12	1:35:A:LEU:HB2	17	0.73
(3,2336)	1:69:A:LYS:HD3	1:145:A:ARG:HD2	1	0.73
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG21	18	0.73
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	17	0.73
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG23	17	0.73
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE1	2	0.73
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB1	5	0.73
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	6	0.73
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG11	15	0.73
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG21	1	0.73
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG22	5	0.73
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG22	9	0.73
(3,1826)	1:112:A:LYS:HB3	1:112:A:LYS:HE2	9	0.73
(3,1794)	1:107:A:LEU:HD11	1:135:A:PRO:HA	10	0.73
(3,1794)	1:107:A:LEU:HD12	1:135:A:PRO:HA	10	0.73
(3,1794)	1:107:A:LEU:HD13	1:135:A:PRO:HA	10	0.73
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	1	0.73
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	10	0.73
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	10	0.73
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	10	0.73
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	10	0.73
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD12	7	0.73
(3,1659)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	16	0.73
(3,1618)	1:65:A:GLU:HB2	1:66:A:ALA:HA	3	0.73
(3,1602)	1:42:A:ASP:HA	1:62:A:LEU:HD23	3	0.73
(3,1578)	1:127:A:ALA:HB2	1:147:A:PRO:HD2	14	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1578)	1:127:A:ALA:HB1	1:147:A:PRO:HD2	20	0.73
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG11	3	0.73
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG13	9	0.73
(3,1495)	1:125:A:PHE:HD2	1:132:A:LEU:HG	9	0.73
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD11	14	0.73
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD11	18	0.73
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	7	0.73
(3,1464)	1:142:A:GLN:HB3	1:144:A:LEU:H	13	0.73
(3,1399)	1:29:A:LYS:HD2	1:33:A:GLU:HG2	10	0.73
(3,1398)	1:68:A:GLU:HG3	1:95:A:ALA:HB3	2	0.73
(3,1384)	1:68:A:GLU:HG3	1:69:A:LYS:H	12	0.73
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG21	17	0.73
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG23	2	0.73
(3,1339)	1:83:A:VAL:HG11	1:84:A:ASP:H	12	0.73
(3,1339)	1:83:A:VAL:HG12	1:84:A:ASP:H	12	0.73
(3,1339)	1:83:A:VAL:HG13	1:84:A:ASP:H	12	0.73
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG13	13	0.73
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG13	18	0.73
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	4	0.73
(3,1281)	1:71:A:LEU:HA	1:83:A:VAL:HG22	20	0.73
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	4	0.73
(3,1215)	1:106:A:THR:HA	1:138:A:ILE:HG22	15	0.73
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG22	12	0.73
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	1	0.73
(3,1059)	1:103:A:SER:HB3	1:140:A:PRO:HG3	14	0.73
(3,1057)	1:18:A:VAL:HG11	1:19:A:THR:HA	17	0.73
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	13	0.73
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	13	0.73
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	13	0.73
(3,1008)	1:15:A:TRP:H	1:17:A:ALA:HB2	17	0.73
(3,951)	1:67:A:LYS:HE3	1:71:A:LEU:HD13	1	0.73
(3,949)	1:125:A:PHE:HB2	1:132:A:LEU:HD12	10	0.73
(3,947)	1:107:A:LEU:HD11	1:135:A:PRO:HA	10	0.73
(3,947)	1:107:A:LEU:HD12	1:135:A:PRO:HA	10	0.73
(3,947)	1:107:A:LEU:HD13	1:135:A:PRO:HA	10	0.73
(3,946)	1:107:A:LEU:HD12	1:121:A:TYR:HA	4	0.73
(3,943)	1:14:A:LEU:HA	1:14:A:LEU:HD12	1	0.73
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD12	10	0.73
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	1	0.73
(3,760)	1:8:A:LYS:HA	1:8:A:LYS:HG3	12	0.73
(3,760)	1:8:A:LYS:HA	1:8:A:LYS:HG3	18	0.73
(3,753)	1:132:A:LEU:HG	1:144:A:LEU:HD13	9	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	10	0.73
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	2	0.73
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	2	0.73
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	2	0.73
(3,561)	1:3:A:LEU:HD21	1:5:A:ASN:HD22	9	0.73
(3,555)	1:132:A:LEU:HD21	1:138:A:ILE:HA	19	0.73
(3,555)	1:132:A:LEU:HD22	1:138:A:ILE:HA	19	0.73
(3,555)	1:132:A:LEU:HD23	1:138:A:ILE:HA	19	0.73
(3,481)	1:115:A:TYR:HA	1:120:A:LEU:HD23	15	0.73
(3,479)	1:115:A:TYR:H	1:115:A:TYR:HE2	18	0.73
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG22	6	0.73
(3,222)	1:150:A:LEU:H	1:150:A:LEU:HG	13	0.73
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD11	18	0.73
(3,125)	1:100:A:THR:HG23	1:142:A:GLN:H	13	0.73
(3,71)	1:50:A:ILE:HD13	1:51:A:ALA:H	4	0.73
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	16	0.73
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	2	0.73
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	3	0.73
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	3	0.73
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	3	0.73
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG11	6	0.73
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG12	6	0.73
(1,2065)	1:101:A:VAL:H	1:101:A:VAL:HG13	6	0.73
(1,1977)	1:55:A:ALA:HB1	1:74:A:VAL:H	8	0.73
(1,1833)	1:31:A:VAL:HG21	1:32:A:GLN:HE21	20	0.73
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	3	0.73
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	11	0.73
(1,1682)	1:87:A:VAL:HG21	1:88:A:LYS:H	18	0.73
(1,1682)	1:87:A:VAL:HG22	1:88:A:LYS:H	18	0.73
(1,1682)	1:87:A:VAL:HG23	1:88:A:LYS:H	18	0.73
(1,1581)	1:86:A:GLN:H	1:86:A:GLN:HE22	12	0.73
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	7	0.73
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG22	2	0.73
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG22	7	0.73
(1,1265)	1:107:A:LEU:HD23	1:124:A:ILE:H	9	0.73
(1,1265)	1:107:A:LEU:HD21	1:124:A:ILE:H	18	0.73
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	17	0.73
(1,1202)	1:119:A:ASN:H	1:156:A:HIS:HB3	3	0.73
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	14	0.73
(1,966)	1:87:A:VAL:HG12	1:88:A:LYS:H	2	0.73
(1,966)	1:87:A:VAL:HG12	1:88:A:LYS:H	7	0.73
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	1	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	1	0.73
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	1	0.73
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	8	0.73
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	8	0.73
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	8	0.73
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	15	0.73
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	15	0.73
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	15	0.73
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	18	0.73
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	18	0.73
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	18	0.73
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HB2	16	0.73
(1,631)	1:61:A:GLY:H	1:88:A:LYS:HG3	1	0.73
(1,615)	1:46:A:VAL:HG23	1:59:A:GLY:H	8	0.73
(1,549)	1:54:A:LYS:HG3	1:55:A:ALA:H	14	0.73
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG11	12	0.73
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD11	3	0.73
(1,307)	1:33:A:GLU:H	1:35:A:LEU:HG	15	0.73
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG11	1	0.73
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG11	2	0.73
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG13	8	0.73
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG12	18	0.73
(1,249)	1:26:A:ASP:HB3	1:29:A:LYS:H	2	0.73
(1,241)	1:28:A:ALA:H	1:48:A:ILE:HG21	19	0.73
(1,115)	1:8:A:LYS:HG2	1:10:A:ALA:H	17	0.73
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	4	0.72
(3,2484)	1:53:A:GLY:HA3	1:80:A:ILE:HA	20	0.72
(3,2368)	1:122:A:ASN:H	1:126:A:GLU:HG3	1	0.72
(3,2355)	1:128:A:ASN:HD21	1:144:A:LEU:HD13	20	0.72
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG12	15	0.72
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD23	19	0.72
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	9	0.72
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	9	0.72
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	9	0.72
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG22	5	0.72
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD11	8	0.72
(3,2209)	1:38:A:THR:HG22	1:131:A:MET:HG3	1	0.72
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB1	20	0.72
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB2	6	0.72
(3,2174)	1:50:A:ILE:HA	1:50:A:ILE:HG13	15	0.72
(3,2173)	1:77:A:ILE:HB	1:80:A:ILE:HA	12	0.72
(3,2164)	1:80:A:ILE:HG23	1:83:A:VAL:HA	14	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	5	0.72
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	10	0.72
(3,2100)	1:110:A:ILE:HD12	1:113:A:GLN:H	15	0.72
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	2	0.72
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	8	0.72
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG11	14	0.72
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD13	10	0.72
(3,1920)	1:77:A:ILE:HG21	1:80:A:ILE:HG13	10	0.72
(3,1860)	1:66:A:ALA:HB3	1:70:A:ILE:HD13	11	0.72
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG22	3	0.72
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG22	6	0.72
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG23	19	0.72
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD11	19	0.72
(3,1578)	1:127:A:ALA:HB1	1:147:A:PRO:HD2	4	0.72
(3,1578)	1:127:A:ALA:HB3	1:147:A:PRO:HD2	12	0.72
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	13	0.72
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD13	5	0.72
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD11	18	0.72
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD12	18	0.72
(3,1429)	1:128:A:ASN:HB2	1:132:A:LEU:HD13	18	0.72
(3,1423)	1:46:A:VAL:HG23	1:47:A:ASN:HB3	14	0.72
(3,1384)	1:68:A:GLU:HG3	1:69:A:LYS:H	3	0.72
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG22	7	0.72
(3,1322)	1:74:A:VAL:HG23	1:75:A:GLY:H	10	0.72
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG11	1	0.72
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG12	8	0.72
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG12	14	0.72
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	1	0.72
(3,1276)	1:101:A:VAL:HG11	1:138:A:ILE:HA	8	0.72
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	1	0.72
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	1	0.72
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	1	0.72
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB2	13	0.72
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB3	4	0.72
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG11	4	0.72
(3,1008)	1:118:A:ALA:HB1	1:121:A:TYR:HD1	9	0.72
(3,797)	1:8:A:LYS:HG2	1:9:A:ASP:HB2	11	0.72
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	14	0.72
(3,760)	1:8:A:LYS:HA	1:8:A:LYS:HG3	14	0.72
(3,760)	1:8:A:LYS:HA	1:8:A:LYS:HG3	19	0.72
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	19	0.72
(3,623)	1:107:A:LEU:HB3	1:107:A:LEU:HD12	5	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,543)	1:107:A:LEU:HD21	1:125:A:PHE:HB2	11	0.72
(3,533)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	19	0.72
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	4	0.72
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	20	0.72
(3,316)	1:112:A:LYS:H	1:112:A:LYS:HD2	9	0.72
(3,305)	1:55:A:ALA:HB3	1:56:A:THR:H	13	0.72
(3,234)	1:45:A:LYS:H	1:45:A:LYS:HE2	15	0.72
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD12	7	0.72
(3,71)	1:50:A:ILE:HD13	1:51:A:ALA:H	15	0.72
(1,2481)	1:119:A:ASN:H	1:119:A:ASN:HD22	17	0.72
(1,1851)	1:7:A:VAL:HG11	1:11:A:GLY:H	4	0.72
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	1	0.72
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	11	0.72
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	17	0.72
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	16	0.72
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HG	20	0.72
(1,1529)	1:33:A:GLU:HA	1:36:A:ASN:HD22	5	0.72
(1,1283)	1:124:A:ILE:HG23	1:126:A:GLU:H	15	0.72
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG22	15	0.72
(1,1229)	1:121:A:TYR:H	1:125:A:PHE:HB2	12	0.72
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	5	0.72
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG12	1	0.72
(1,1067)	1:105:A:ASP:H	1:138:A:ILE:HG12	15	0.72
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG12	5	0.72
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG13	10	0.72
(1,974)	1:67:A:LYS:HG3	1:89:A:THR:H	1	0.72
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	2	0.72
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG22	10	0.72
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	13	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	2	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	2	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	2	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	4	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	4	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	4	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	7	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	7	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	7	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	12	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	12	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	12	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG11	20	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG12	20	0.72
(1,803)	1:74:A:VAL:H	1:74:A:VAL:HG13	20	0.72
(1,732)	1:40:A:ILE:HG22	1:69:A:LYS:H	5	0.72
(1,633)	1:61:A:GLY:H	1:62:A:LEU:HB2	17	0.72
(1,579)	1:57:A:VAL:H	1:58:A:THR:HG23	13	0.72
(1,579)	1:55:A:ALA:HB2	1:57:A:VAL:H	15	0.72
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG13	4	0.72
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	9	0.72
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	10	0.72
(1,307)	1:33:A:GLU:H	1:35:A:LEU:HG	16	0.72
(1,290)	1:32:A:GLN:H	1:35:A:LEU:HG	12	0.72
(1,290)	1:32:A:GLN:H	1:35:A:LEU:HG	14	0.72
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG13	11	0.72
(1,67)	1:4:A:PHE:H	1:82:A:SER:HB2	17	0.72
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	2	0.71
(3,2794)	1:82:A:SER:HB2	1:83:A:VAL:H	1	0.71
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	16	0.71
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG23	15	0.71
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG11	13	0.71
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	5	0.71
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD13	6	0.71
(3,2219)	1:14:A:LEU:HB2	1:34:A:HIS:HB3	18	0.71
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	4	0.71
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	4	0.71
(3,2130)	1:121:A:TYR:HD1	1:122:A:ASN:HB2	2	0.71
(3,2129)	1:121:A:TYR:HD1	1:122:A:ASN:HB2	2	0.71
(3,2114)	1:27:A:GLN:HA	1:30:A:LYS:HA	8	0.71
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	16	0.71
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD12	16	0.71
(3,2080)	1:110:A:ILE:HD11	1:113:A:GLN:HG3	16	0.71
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB2	18	0.71
(3,2038)	1:72:A:VAL:HG22	1:76:A:ASN:HB3	9	0.71
(3,2026)	1:143:A:VAL:HA	1:143:A:VAL:HG12	15	0.71
(3,2006)	1:112:A:LYS:HE3	1:118:A:ALA:HB2	4	0.71
(3,1996)	1:57:A:VAL:HA	1:87:A:VAL:HG11	12	0.71
(3,1996)	1:46:A:VAL:HG22	1:57:A:VAL:HA	15	0.71
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG12	20	0.71
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD12	14	0.71
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD11	18	0.71
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG21	7	0.71
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG22	11	0.71
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG23	12	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG21	16	0.71
(3,1739)	1:98:A:PHE:HE2	1:143:A:VAL:HG22	17	0.71
(3,1693)	1:40:A:ILE:HG22	1:70:A:ILE:H	18	0.71
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	19	0.71
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	19	0.71
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	19	0.71
(3,1664)	1:101:A:VAL:HB	1:138:A:ILE:HD12	14	0.71
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD13	13	0.71
(3,1578)	1:127:A:ALA:HB3	1:147:A:PRO:HD2	5	0.71
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG13	1	0.71
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG11	10	0.71
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	4	0.71
(3,1475)	1:142:A:GLN:HB3	1:143:A:VAL:HA	9	0.71
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	19	0.71
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD12	14	0.71
(3,1437)	1:62:A:LEU:HD11	1:89:A:THR:HA	9	0.71
(3,1426)	1:62:A:LEU:HD11	1:66:A:ALA:HB3	16	0.71
(3,1421)	1:24:A:LYS:HA	1:50:A:ILE:HB	4	0.71
(3,1376)	1:110:A:ILE:HB	1:113:A:GLN:HG2	3	0.71
(3,1376)	1:32:A:GLN:HG2	1:48:A:ILE:HG13	10	0.71
(3,1339)	1:83:A:VAL:HG11	1:84:A:ASP:H	11	0.71
(3,1339)	1:83:A:VAL:HG12	1:84:A:ASP:H	11	0.71
(3,1339)	1:83:A:VAL:HG13	1:84:A:ASP:H	11	0.71
(3,1338)	1:72:A:VAL:HG11	1:145:A:ARG:H	19	0.71
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG23	12	0.71
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG23	18	0.71
(3,1247)	1:132:A:LEU:HA	1:132:A:LEU:HD21	15	0.71
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	10	0.71
(3,1232)	1:28:A:ALA:HB2	1:29:A:LYS:HB2	5	0.71
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB2	19	0.71
(3,1034)	1:56:A:THR:HG23	1:85:A:ASP:HA	10	0.71
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	5	0.71
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	5	0.71
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	5	0.71
(3,1008)	1:118:A:ALA:HB2	1:121:A:TYR:HD1	19	0.71
(3,1005)	1:114:A:VAL:HG22	1:115:A:TYR:HE2	16	0.71
(3,943)	1:14:A:LEU:HA	1:14:A:LEU:HD12	7	0.71
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	12	0.71
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	8	0.71
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD13	4	0.71
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	2	0.71
(3,623)	1:107:A:LEU:HB3	1:107:A:LEU:HD11	6	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,623)	1:107:A:LEU:HB3	1:107:A:LEU:HD13	9	0.71
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	7	0.71
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD22	4	0.71
(3,481)	1:115:A:TYR:HA	1:120:A:LEU:HD22	9	0.71
(3,420)	1:131:A:MET:HE2	1:132:A:LEU:HD22	20	0.71
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB3	16	0.71
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB1	20	0.71
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD11	17	0.71
(3,125)	1:100:A:THR:HG21	1:142:A:GLN:H	5	0.71
(3,125)	1:100:A:THR:HG22	1:142:A:GLN:H	19	0.71
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	3	0.71
(1,1977)	1:55:A:ALA:HB3	1:74:A:VAL:H	14	0.71
(1,1977)	1:55:A:ALA:HB1	1:74:A:VAL:H	17	0.71
(1,1833)	1:31:A:VAL:HG22	1:32:A:GLN:HE21	18	0.71
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	9	0.71
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	8	0.71
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD12	9	0.71
(1,1411)	1:137:A:LYS:H	1:137:A:LYS:HD2	16	0.71
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	10	0.71
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	8	0.71
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	18	0.71
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG21	8	0.71
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD13	4	0.71
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD11	20	0.71
(1,1050)	1:101:A:VAL:HG13	1:102:A:LYS:H	8	0.71
(1,1050)	1:101:A:VAL:HG12	1:102:A:LYS:H	19	0.71
(1,974)	1:67:A:LYS:HG3	1:89:A:THR:H	13	0.71
(1,842)	1:77:A:ILE:H	1:143:A:VAL:HB	11	0.71
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HB2	9	0.71
(1,732)	1:40:A:ILE:HG22	1:69:A:LYS:H	6	0.71
(1,614)	1:56:A:THR:HG23	1:59:A:GLY:H	6	0.71
(1,541)	1:54:A:LYS:H	1:80:A:ILE:HD11	5	0.71
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	1	0.71
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	6	0.71
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	9	0.71
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	20	0.71
(1,375)	1:35:A:LEU:HD13	1:36:A:ASN:H	8	0.71
(1,302)	1:31:A:VAL:HG23	1:33:A:GLU:H	18	0.71
(1,290)	1:32:A:GLN:H	1:35:A:LEU:HG	11	0.71
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG12	13	0.71
(1,269)	1:30:A:LYS:H	1:50:A:ILE:HD11	7	0.71
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD11	10	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	20	0.7
(3,2474)	1:107:A:LEU:H	1:144:A:LEU:HD22	15	0.7
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG23	18	0.7
(3,2282)	1:41:A:PRO:HD2	1:66:A:ALA:HB2	19	0.7
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	11	0.7
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD12	5	0.7
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD11	7	0.7
(3,2174)	1:50:A:ILE:HA	1:50:A:ILE:HG13	4	0.7
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB1	10	0.7
(3,2174)	1:50:A:ILE:HA	1:50:A:ILE:HG13	11	0.7
(3,2170)	1:125:A:PHE:HB3	1:132:A:LEU:HD12	10	0.7
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD21	5	0.7
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	14	0.7
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	12	0.7
(3,2087)	1:101:A:VAL:HG13	1:110:A:ILE:HG23	1	0.7
(3,2080)	1:110:A:ILE:HD11	1:113:A:GLN:HG3	8	0.7
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG13	16	0.7
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG21	20	0.7
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD11	6	0.7
(3,1860)	1:66:A:ALA:HB2	1:70:A:ILE:HD11	16	0.7
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG23	18	0.7
(3,1850)	1:54:A:LYS:HD3	1:82:A:SER:HB3	14	0.7
(3,1787)	1:107:A:LEU:HD13	1:111:A:SER:HB3	7	0.7
(3,1693)	1:40:A:ILE:HG22	1:70:A:ILE:H	4	0.7
(3,1578)	1:127:A:ALA:HB3	1:147:A:PRO:HD2	2	0.7
(3,1578)	1:127:A:ALA:HB2	1:147:A:PRO:HD2	18	0.7
(3,1578)	1:127:A:ALA:HB1	1:147:A:PRO:HD2	19	0.7
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD12	16	0.7
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD11	19	0.7
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD12	4	0.7
(3,1437)	1:62:A:LEU:HD12	1:89:A:THR:HA	15	0.7
(3,1342)	1:46:A:VAL:HG23	1:47:A:ASN:H	3	0.7
(3,1338)	1:72:A:VAL:HG11	1:145:A:ARG:H	8	0.7
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG22	1	0.7
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG21	19	0.7
(3,1304)	1:31:A:VAL:HG23	1:35:A:LEU:HG	6	0.7
(3,1292)	1:120:A:LEU:HD11	1:123:A:LYS:HD3	18	0.7
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	8	0.7
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	8	0.7
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	8	0.7
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	1	0.7
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	11	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1232)	1:28:A:ALA:HB2	1:29:A:LYS:HB2	8	0.7
(3,1223)	1:25:A:ASP:HB2	1:28:A:ALA:HB1	18	0.7
(3,1219)	1:28:A:ALA:HB2	1:48:A:ILE:HA	13	0.7
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	2	0.7
(3,1057)	1:18:A:VAL:HG13	1:19:A:THR:HA	7	0.7
(3,1057)	1:18:A:VAL:HG12	1:19:A:THR:HA	11	0.7
(3,1034)	1:56:A:THR:HG23	1:85:A:ASP:HA	17	0.7
(3,1005)	1:114:A:VAL:HG21	1:115:A:TYR:HE2	15	0.7
(3,1005)	1:114:A:VAL:HG22	1:115:A:TYR:HE2	20	0.7
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG23	4	0.7
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG22	19	0.7
(3,988)	1:114:A:VAL:HG22	1:115:A:TYR:HB3	17	0.7
(3,988)	1:114:A:VAL:HG21	1:115:A:TYR:HB3	19	0.7
(3,951)	1:4:A:PHE:HB2	1:71:A:LEU:HD13	18	0.7
(3,945)	1:107:A:LEU:HD11	1:125:A:PHE:HA	5	0.7
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD13	11	0.7
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD21	12	0.7
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD22	12	0.7
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD23	12	0.7
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	7	0.7
(3,807)	1:72:A:VAL:HG13	1:73:A:ALA:HA	1	0.7
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	6	0.7
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	19	0.7
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG23	5	0.7
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	6	0.7
(3,623)	1:107:A:LEU:HB3	1:107:A:LEU:HD11	10	0.7
(3,520)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	5	0.7
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	6	0.7
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	8	0.7
(3,479)	1:115:A:TYR:H	1:115:A:TYR:HE2	4	0.7
(3,349)	1:88:A:LYS:H	1:88:A:LYS:HD2	12	0.7
(3,349)	1:29:A:LYS:HD2	1:33:A:GLU:H	18	0.7
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE2	14	0.7
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	15	0.7
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD13	2	0.7
(3,192)	1:8:A:LYS:HG3	1:9:A:ASP:H	11	0.7
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	10	0.7
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	13	0.7
(3,78)	1:57:A:VAL:HG12	1:71:A:LEU:H	19	0.7
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	4	0.7
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	8	0.7
(1,1977)	1:55:A:ALA:HB1	1:74:A:VAL:H	2	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1851)	1:7:A:VAL:HG12	1:11:A:GLY:H	12	0.7
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD12	4	0.7
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	3	0.7
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	8	0.7
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HB3	17	0.7
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	4	0.7
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	17	0.7
(1,1282)	1:126:A:GLU:H	1:132:A:LEU:HD11	8	0.7
(1,1265)	1:107:A:LEU:HD22	1:124:A:ILE:H	13	0.7
(1,1229)	1:121:A:TYR:H	1:125:A:PHE:HB2	7	0.7
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	7	0.7
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	7	0.7
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	7	0.7
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	16	0.7
(1,945)	1:57:A:VAL:HG12	1:86:A:GLN:H	13	0.7
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG11	10	0.7
(1,586)	1:58:A:THR:H	1:74:A:VAL:HG23	14	0.7
(1,507)	1:49:A:GLN:H	1:83:A:VAL:HG11	9	0.7
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG13	1	0.7
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	1	0.7
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	11	0.7
(1,375)	1:35:A:LEU:HD12	1:36:A:ASN:H	14	0.7
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD23	1	0.7
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD12	12	0.7
(1,290)	1:32:A:GLN:H	1:35:A:LEU:HG	3	0.7
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG12	4	0.7
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG11	8	0.7
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD13	2	0.7
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD13	17	0.7
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	3	0.7
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	13	0.7
(1,134)	1:12:A:GLU:H	1:14:A:LEU:HG	10	0.7
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG22	13	0.7
(1,75)	1:4:A:PHE:H	1:71:A:LEU:HD13	17	0.7
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD3	1	0.69
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD2	1	0.69
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG22	14	0.69
(3,2415)	1:70:A:ILE:H	1:71:A:LEU:HD13	6	0.69
(3,2396)	1:14:A:LEU:HD21	1:34:A:HIS:HE1	13	0.69
(3,2368)	1:66:A:ALA:H	1:68:A:GLU:HG3	15	0.69
(3,2348)	1:31:A:VAL:HG13	1:35:A:LEU:HB2	3	0.69
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD22	12	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2295)	1:94:A:THR:HG21	1:148:A:GLU:H	1	0.69
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG21	2	0.69
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG23	7	0.69
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	7	0.69
(3,2238)	1:107:A:LEU:HD11	1:135:A:PRO:HD2	2	0.69
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD11	16	0.69
(3,2225)	1:14:A:LEU:HB2	1:30:A:LYS:HB3	19	0.69
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	15	0.69
(3,2174)	1:50:A:ILE:HA	1:50:A:ILE:HG13	12	0.69
(3,2174)	1:50:A:ILE:HA	1:50:A:ILE:HG13	19	0.69
(3,2173)	1:77:A:ILE:HB	1:80:A:ILE:HA	11	0.69
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD23	10	0.69
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	7	0.69
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	12	0.69
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG23	13	0.69
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG22	17	0.69
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD21	17	0.69
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD22	19	0.69
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	4	0.69
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG21	8	0.69
(3,2026)	1:143:A:VAL:HA	1:143:A:VAL:HG13	9	0.69
(3,2026)	1:143:A:VAL:HA	1:143:A:VAL:HG11	20	0.69
(3,1992)	1:41:A:PRO:HG2	1:69:A:LYS:HE3	19	0.69
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG22	20	0.69
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG12	17	0.69
(3,1946)	1:12:A:GLU:HG2	1:14:A:LEU:HG	6	0.69
(3,1882)	1:63:A:SER:HB3	1:65:A:GLU:HB2	3	0.69
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG22	2	0.69
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG22	10	0.69
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG23	17	0.69
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG22	20	0.69
(3,1818)	1:68:A:GLU:HG3	1:98:A:PHE:HE1	1	0.69
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD12	4	0.69
(3,1746)	1:58:A:THR:HG22	1:86:A:GLN:HG3	10	0.69
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG21	2	0.69
(3,1578)	1:127:A:ALA:HB2	1:147:A:PRO:HD2	9	0.69
(3,1573)	1:40:A:ILE:HD11	1:41:A:PRO:HD2	6	0.69
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD11	6	0.69
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD12	7	0.69
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD13	11	0.69
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD11	12	0.69
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD13	18	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD11	17	0.69
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD11	1	0.69
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	20	0.69
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	18	0.69
(3,1441)	1:120:A:LEU:HD21	1:123:A:LYS:HD3	17	0.69
(3,1437)	1:62:A:LEU:HD11	1:89:A:THR:HA	10	0.69
(3,1436)	1:132:A:LEU:HD13	1:138:A:ILE:HA	7	0.69
(3,1436)	1:132:A:LEU:HD11	1:138:A:ILE:HA	12	0.69
(3,1376)	1:110:A:ILE:HB	1:113:A:GLN:HG2	9	0.69
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG22	1	0.69
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	3	0.69
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	3	0.69
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	3	0.69
(3,1292)	1:120:A:LEU:HD11	1:123:A:LYS:HD3	3	0.69
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	9	0.69
(3,1169)	1:126:A:GLU:HA	1:129:A:LYS:HB2	15	0.69
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	1	0.69
(3,1059)	1:103:A:SER:HB3	1:140:A:PRO:HG3	8	0.69
(3,1057)	1:18:A:VAL:HG13	1:19:A:THR:HA	5	0.69
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	11	0.69
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	11	0.69
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	11	0.69
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG11	13	0.69
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG12	13	0.69
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG13	13	0.69
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	16	0.69
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	16	0.69
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	16	0.69
(3,988)	1:114:A:VAL:HG22	1:115:A:TYR:HB3	9	0.69
(3,988)	1:114:A:VAL:HG22	1:115:A:TYR:HB3	11	0.69
(3,988)	1:114:A:VAL:HG22	1:115:A:TYR:HB3	13	0.69
(3,988)	1:114:A:VAL:HG23	1:115:A:TYR:HB3	18	0.69
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	18	0.69
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	18	0.69
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	18	0.69
(3,914)	1:120:A:LEU:HD22	1:149:A:GLU:HB2	9	0.69
(3,910)	1:62:A:LEU:HD21	1:89:A:THR:HB	1	0.69
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD12	6	0.69
(3,910)	1:45:A:LYS:HA	1:62:A:LEU:HD12	20	0.69
(3,878)	1:12:A:GLU:HB2	1:77:A:ILE:HG22	13	0.69
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	7	0.69
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB1	2	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB2	2	0.69
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB3	2	0.69
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	3	0.69
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	13	0.69
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	19	0.69
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	4	0.69
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	5	0.69
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	7	0.69
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	9	0.69
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	16	0.69
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG21	10	0.69
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	2	0.69
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	2	0.69
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	2	0.69
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD12	16	0.69
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	4	0.69
(3,677)	1:105:A:ASP:HB2	1:109:A:ALA:HB3	14	0.69
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD21	3	0.69
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD22	3	0.69
(3,634)	1:115:A:TYR:HB3	1:120:A:LEU:HD23	3	0.69
(3,556)	1:3:A:LEU:HD13	1:54:A:LYS:HA	3	0.69
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	3	0.69
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	18	0.69
(3,349)	1:88:A:LYS:H	1:88:A:LYS:HD2	15	0.69
(3,305)	1:106:A:THR:HG23	1:107:A:LEU:H	3	0.69
(3,243)	1:112:A:LYS:H	1:112:A:LYS:HG3	17	0.69
(3,194)	1:132:A:LEU:HD13	1:133:A:LYS:H	11	0.69
(3,125)	1:100:A:THR:HG21	1:142:A:GLN:H	3	0.69
(3,125)	1:100:A:THR:HG22	1:142:A:GLN:H	10	0.69
(3,125)	1:100:A:THR:HG21	1:142:A:GLN:H	16	0.69
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	15	0.69
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	16	0.69
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD11	8	0.69
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	8	0.69
(3,41)	1:40:A:ILE:HG22	1:43:A:ALA:H	12	0.69
(1,2481)	1:119:A:ASN:H	1:119:A:ASN:HD22	12	0.69
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	14	0.69
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	14	0.69
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD3	6	0.69
(1,1731)	1:63:A:SER:HB3	1:93:A:ALA:H	18	0.69
(1,1583)	1:3:A:LEU:HD11	1:86:A:GLN:HE22	15	0.69
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HG	8	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD13	3	0.69
(1,1417)	1:137:A:LYS:HG3	1:138:A:ILE:H	13	0.69
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD13	3	0.69
(1,1293)	1:127:A:ALA:H	1:146:A:ILE:HG21	9	0.69
(1,1246)	1:107:A:LEU:HD21	1:123:A:LYS:H	18	0.69
(1,1140)	1:107:A:LEU:HD21	1:114:A:VAL:H	17	0.69
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG12	13	0.69
(1,1059)	1:105:A:ASP:H	1:140:A:PRO:HA	9	0.69
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	9	0.69
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	9	0.69
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	9	0.69
(1,974)	1:67:A:LYS:HG3	1:89:A:THR:H	2	0.69
(1,966)	1:87:A:VAL:HG12	1:88:A:LYS:H	16	0.69
(1,966)	1:87:A:VAL:HG11	1:88:A:LYS:H	17	0.69
(1,966)	1:87:A:VAL:HG11	1:88:A:LYS:H	20	0.69
(1,742)	1:41:A:PRO:HB2	1:70:A:ILE:H	6	0.69
(1,732)	1:40:A:ILE:HG21	1:69:A:LYS:H	11	0.69
(1,712)	1:68:A:GLU:H	1:145:A:ARG:HD3	11	0.69
(1,697)	1:67:A:LYS:H	1:69:A:LYS:HD3	9	0.69
(1,579)	1:55:A:ALA:HB1	1:57:A:VAL:H	3	0.69
(1,579)	1:55:A:ALA:HB3	1:57:A:VAL:H	6	0.69
(1,481)	1:47:A:ASN:H	1:58:A:THR:HG23	8	0.69
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	11	0.69
(1,290)	1:32:A:GLN:H	1:35:A:LEU:HG	13	0.69
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG13	18	0.69
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG23	7	0.69
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE2	19	0.69
(1,134)	1:12:A:GLU:H	1:38:A:THR:HG23	19	0.69
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD3	17	0.68
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD2	17	0.68
(3,2484)	1:53:A:GLY:HA3	1:80:A:ILE:HA	12	0.68
(3,2404)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	1	0.68
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG21	8	0.68
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG22	8	0.68
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG23	8	0.68
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG21	8	0.68
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG22	8	0.68
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG23	8	0.68
(3,2356)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	13	0.68
(3,2343)	1:69:A:LYS:H	1:69:A:LYS:HD2	3	0.68
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD1	14	0.68
(3,2275)	1:132:A:LEU:HD22	1:139:A:TYR:HD1	11	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	8	0.68
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB3	1	0.68
(3,2174)	1:50:A:ILE:HA	1:50:A:ILE:HG13	8	0.68
(3,2174)	1:50:A:ILE:HA	1:50:A:ILE:HG13	14	0.68
(3,2114)	1:27:A:GLN:HA	1:30:A:LYS:HA	6	0.68
(3,2114)	1:27:A:GLN:HA	1:30:A:LYS:HA	18	0.68
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	7	0.68
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD12	8	0.68
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB3	1	0.68
(3,2059)	1:130:A:PRO:HG3	1:131:A:MET:H	19	0.68
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB3	12	0.68
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG13	7	0.68
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG11	8	0.68
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG22	8	0.68
(3,1850)	1:54:A:LYS:HD2	1:82:A:SER:HB3	17	0.68
(3,1850)	1:54:A:LYS:HD2	1:82:A:SER:HB3	19	0.68
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	4	0.68
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	4	0.68
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	4	0.68
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG21	13	0.68
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD11	1	0.68
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD12	1	0.68
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD13	1	0.68
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD11	10	0.68
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD12	12	0.68
(3,1573)	1:40:A:ILE:HD12	1:41:A:PRO:HD2	13	0.68
(3,1556)	1:40:A:ILE:HG21	1:43:A:ALA:HB2	14	0.68
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD13	1	0.68
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD11	13	0.68
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD13	15	0.68
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	15	0.68
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	11	0.68
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	15	0.68
(3,1470)	1:113:A:GLN:HA	1:113:A:GLN:HG2	17	0.68
(3,1468)	1:15:A:TRP:HE3	1:30:A:LYS:HD2	6	0.68
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG21	14	0.68
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG22	14	0.68
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG23	14	0.68
(3,1436)	1:132:A:LEU:HD13	1:138:A:ILE:HA	16	0.68
(3,1434)	1:132:A:LEU:HD11	1:138:A:ILE:H	4	0.68
(3,1384)	1:68:A:GLU:HG3	1:69:A:LYS:H	5	0.68
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG21	17	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG22	20	0.68
(3,1322)	1:74:A:VAL:HG23	1:75:A:GLY:H	6	0.68
(3,1322)	1:74:A:VAL:HG21	1:75:A:GLY:H	14	0.68
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG11	2	0.68
(3,1317)	1:58:A:THR:HA	1:87:A:VAL:HG13	7	0.68
(3,1292)	1:120:A:LEU:HD12	1:123:A:LYS:HD3	2	0.68
(3,1276)	1:101:A:VAL:HG13	1:138:A:ILE:HA	17	0.68
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	18	0.68
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	18	0.68
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	18	0.68
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	20	0.68
(3,1219)	1:28:A:ALA:HB3	1:50:A:ILE:HA	5	0.68
(3,1157)	1:112:A:LYS:HG3	1:117:A:ASN:H	12	0.68
(3,1138)	1:123:A:LYS:HA	1:123:A:LYS:HG3	8	0.68
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	20	0.68
(3,1059)	1:102:A:LYS:HB3	1:103:A:SER:HB2	6	0.68
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	3	0.68
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	3	0.68
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	3	0.68
(3,1008)	1:118:A:ALA:HB1	1:121:A:TYR:HD1	12	0.68
(3,1005)	1:114:A:VAL:HG23	1:115:A:TYR:HE2	5	0.68
(3,988)	1:114:A:VAL:HG23	1:115:A:TYR:HB3	7	0.68
(3,949)	1:107:A:LEU:HD12	1:125:A:PHE:HB2	20	0.68
(3,948)	1:107:A:LEU:HD11	1:125:A:PHE:HB3	7	0.68
(3,943)	1:14:A:LEU:HA	1:14:A:LEU:HD11	3	0.68
(3,893)	1:62:A:LEU:HD13	1:67:A:LYS:HB3	19	0.68
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG22	12	0.68
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	2	0.68
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	3	0.68
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	11	0.68
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	12	0.68
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	13	0.68
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	17	0.68
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	18	0.68
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	20	0.68
(3,753)	1:132:A:LEU:HG	1:144:A:LEU:HD13	4	0.68
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	4	0.68
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	4	0.68
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	4	0.68
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG21	15	0.68
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	1	0.68
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	1	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	1	0.68
(3,556)	1:3:A:LEU:HD12	1:54:A:LYS:HA	19	0.68
(3,555)	1:132:A:LEU:HD21	1:138:A:ILE:HA	6	0.68
(3,555)	1:132:A:LEU:HD22	1:138:A:ILE:HA	6	0.68
(3,555)	1:132:A:LEU:HD23	1:138:A:ILE:HA	6	0.68
(3,479)	1:115:A:TYR:HE1	1:150:A:LEU:H	1	0.68
(3,430)	1:99:A:TYR:HD2	1:114:A:VAL:HG21	18	0.68
(3,420)	1:131:A:MET:HE2	1:132:A:LEU:HD22	3	0.68
(3,349)	1:88:A:LYS:H	1:88:A:LYS:HD2	6	0.68
(3,349)	1:29:A:LYS:HD3	1:33:A:GLU:H	13	0.68
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB1	7	0.68
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB2	17	0.68
(3,222)	1:150:A:LEU:H	1:150:A:LEU:HG	16	0.68
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD12	20	0.68
(3,69)	1:53:A:GLY:H	1:80:A:ILE:HD13	16	0.68
(3,50)	1:36:A:ASN:H	1:37:A:LYS:HG2	9	0.68
(3,47)	1:88:A:LYS:HG2	1:89:A:THR:H	16	0.68
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	6	0.68
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	11	0.68
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG21	17	0.68
(1,1750)	1:96:A:SER:H	1:145:A:ARG:HB3	17	0.68
(1,1728)	1:88:A:LYS:HD3	1:90:A:ALA:H	4	0.68
(1,1697)	1:107:A:LEU:HD11	1:128:A:ASN:HD21	19	0.68
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	6	0.68
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	3	0.68
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	3	0.68
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	3	0.68
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD11	14	0.68
(1,1415)	1:107:A:LEU:HB3	1:138:A:ILE:H	17	0.68
(1,1320)	1:69:A:LYS:HE2	1:128:A:ASN:H	1	0.68
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	11	0.68
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	13	0.68
(1,912)	1:54:A:LYS:HB3	1:82:A:SER:H	17	0.68
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	3	0.68
(1,671)	1:62:A:LEU:HD22	1:66:A:ALA:H	5	0.68
(1,588)	1:58:A:THR:H	1:83:A:VAL:HG13	1	0.68
(1,549)	1:54:A:LYS:HG3	1:55:A:ALA:H	18	0.68
(1,528)	1:50:A:ILE:HG13	1:51:A:ALA:H	16	0.68
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	7	0.68
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD12	5	0.68
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	3	0.68
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG13	7	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,139)	1:12:A:GLU:H	1:131:A:MET:HE1	12	0.68
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	1	0.67
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD3	16	0.67
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD2	16	0.67
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG23	7	0.67
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB1	3	0.67
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB2	9	0.67
(3,2368)	1:66:A:ALA:H	1:68:A:GLU:HG3	20	0.67
(3,2348)	1:31:A:VAL:HG12	1:35:A:LEU:HB2	1	0.67
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD2	7	0.67
(3,2295)	1:94:A:THR:HG23	1:148:A:GLU:H	14	0.67
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG21	17	0.67
(3,2275)	1:138:A:ILE:HG23	1:139:A:TYR:HD1	16	0.67
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB2	2	0.67
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB3	3	0.67
(3,2174)	1:50:A:ILE:HA	1:50:A:ILE:HG13	9	0.67
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB2	18	0.67
(3,2124)	1:115:A:TYR:HA	1:149:A:GLU:HB3	5	0.67
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	8	0.67
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	7	0.67
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG21	18	0.67
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	6	0.67
(3,2031)	1:76:A:ASN:HD22	1:143:A:VAL:HG11	18	0.67
(3,2026)	1:143:A:VAL:HA	1:143:A:VAL:HG13	16	0.67
(3,2006)	1:118:A:ALA:HB3	1:121:A:TYR:HB3	15	0.67
(3,1923)	1:77:A:ILE:HG23	1:80:A:ILE:HB	18	0.67
(3,1882)	1:63:A:SER:HB3	1:65:A:GLU:HB2	2	0.67
(3,1860)	1:66:A:ALA:HB3	1:70:A:ILE:HD12	9	0.67
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG23	4	0.67
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG23	15	0.67
(3,1826)	1:67:A:LYS:HE3	1:87:A:VAL:HB	4	0.67
(3,1696)	1:115:A:TYR:HD1	1:146:A:ILE:HG23	13	0.67
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD12	16	0.67
(3,1555)	1:40:A:ILE:HG22	1:73:A:ALA:HB2	4	0.67
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD13	5	0.67
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD13	8	0.67
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD12	9	0.67
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD13	14	0.67
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD13	17	0.67
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	11	0.67
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD11	11	0.67
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD13	12	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1464)	1:142:A:GLN:HB3	1:144:A:LEU:H	8	0.67
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	7	0.67
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	11	0.67
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	14	0.67
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD21	8	0.67
(3,1338)	1:72:A:VAL:HG12	1:145:A:ARG:H	14	0.67
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG11	4	0.67
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	11	0.67
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	11	0.67
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	11	0.67
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	12	0.67
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	12	0.67
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	12	0.67
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	7	0.67
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	16	0.67
(3,1234)	1:33:A:GLU:HA	1:37:A:LYS:HD2	15	0.67
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG23	3	0.67
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	10	0.67
(3,1057)	1:18:A:VAL:HG23	1:19:A:THR:HA	12	0.67
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	2	0.67
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG13	8	0.67
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG13	10	0.67
(3,1005)	1:114:A:VAL:HG22	1:115:A:TYR:HE2	18	0.67
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG21	18	0.67
(3,988)	1:114:A:VAL:HG23	1:115:A:TYR:HB3	20	0.67
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	12	0.67
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	12	0.67
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	12	0.67
(3,945)	1:107:A:LEU:HD13	1:125:A:PHE:HA	6	0.67
(3,853)	1:10:A:ALA:HB1	1:11:A:GLY:HA3	4	0.67
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	15	0.67
(3,692)	1:133:A:LYS:HB3	1:134:A:SER:HB3	7	0.67
(3,556)	1:3:A:LEU:HD11	1:54:A:LYS:HA	2	0.67
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	20	0.67
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	12	0.67
(3,479)	1:115:A:TYR:H	1:115:A:TYR:HE2	19	0.67
(3,430)	1:99:A:TYR:HD2	1:114:A:VAL:HG23	9	0.67
(3,430)	1:99:A:TYR:HD2	1:114:A:VAL:HG21	16	0.67
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	20	0.67
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE3	9	0.67
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB3	3	0.67
(3,272)	1:65:A:GLU:HA	1:93:A:ALA:HB1	13	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,251)	1:87:A:VAL:HG21	1:88:A:LYS:H	3	0.67
(3,251)	1:87:A:VAL:HG22	1:88:A:LYS:H	3	0.67
(3,251)	1:87:A:VAL:HG23	1:88:A:LYS:H	3	0.67
(3,251)	1:87:A:VAL:HG21	1:88:A:LYS:H	4	0.67
(3,251)	1:87:A:VAL:HG22	1:88:A:LYS:H	4	0.67
(3,251)	1:87:A:VAL:HG23	1:88:A:LYS:H	4	0.67
(3,195)	1:132:A:LEU:H	1:132:A:LEU:HD11	6	0.67
(3,192)	1:8:A:LYS:HG3	1:9:A:ASP:H	16	0.67
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	10	0.67
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	17	0.67
(3,71)	1:50:A:ILE:HD13	1:51:A:ALA:H	18	0.67
(3,41)	1:40:A:ILE:HG23	1:43:A:ALA:H	17	0.67
(1,1977)	1:55:A:ALA:HB3	1:74:A:VAL:H	4	0.67
(1,1898)	1:113:A:GLN:HE21	1:114:A:VAL:HB	10	0.67
(1,1457)	1:138:A:ILE:HD13	1:141:A:GLY:H	18	0.67
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD12	1	0.67
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD11	5	0.67
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD11	6	0.67
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD11	16	0.67
(1,1265)	1:107:A:LEU:HD21	1:124:A:ILE:H	5	0.67
(1,1246)	1:107:A:LEU:HD22	1:123:A:LYS:H	13	0.67
(1,1226)	1:107:A:LEU:HD22	1:121:A:TYR:H	15	0.67
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG21	9	0.67
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG13	7	0.67
(1,1096)	1:101:A:VAL:HG12	1:110:A:ILE:H	2	0.67
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG12	11	0.67
(1,924)	1:74:A:VAL:HG21	1:84:A:ASP:H	2	0.67
(1,915)	1:54:A:LYS:HG3	1:82:A:SER:H	18	0.67
(1,912)	1:54:A:LYS:HB3	1:82:A:SER:H	4	0.67
(1,678)	1:66:A:ALA:H	1:67:A:LYS:HB2	4	0.67
(1,644)	1:45:A:LYS:HG3	1:62:A:LEU:H	7	0.67
(1,549)	1:54:A:LYS:HG3	1:55:A:ALA:H	3	0.67
(1,507)	1:31:A:VAL:HG11	1:49:A:GLN:H	3	0.67
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	15	0.67
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	20	0.67
(1,389)	1:31:A:VAL:HG12	1:38:A:THR:H	12	0.67
(1,375)	1:35:A:LEU:HD12	1:36:A:ASN:H	10	0.67
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	2	0.67
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	1	0.67
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG23	20	0.67
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG23	9	0.67
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	7	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD3	19	0.66
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD2	19	0.66
(3,2514)	1:99:A:TYR:HD1	1:110:A:ILE:HG23	11	0.66
(3,2497)	1:56:A:THR:HG21	1:58:A:THR:H	14	0.66
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	10	0.66
(3,2465)	1:110:A:ILE:HD12	1:144:A:LEU:H	13	0.66
(3,2415)	1:70:A:ILE:H	1:71:A:LEU:HD13	1	0.66
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD1	12	0.66
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG23	8	0.66
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG22	16	0.66
(3,2275)	1:132:A:LEU:HD13	1:139:A:TYR:HD1	2	0.66
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD13	19	0.66
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD12	1	0.66
(3,2225)	1:14:A:LEU:HB2	1:30:A:LYS:HB3	13	0.66
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB1	2	0.66
(3,2164)	1:80:A:ILE:HG23	1:83:A:VAL:HA	19	0.66
(3,2124)	1:115:A:TYR:HA	1:149:A:GLU:HB3	13	0.66
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD21	15	0.66
(3,2080)	1:110:A:ILE:HD12	1:113:A:GLN:HG3	3	0.66
(3,2080)	1:110:A:ILE:HD12	1:113:A:GLN:HG3	15	0.66
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG13	2	0.66
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	17	0.66
(3,1944)	1:4:A:PHE:H	1:82:A:SER:HB3	15	0.66
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG21	18	0.66
(3,1928)	1:77:A:ILE:HD13	1:78:A:SER:H	3	0.66
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD12	17	0.66
(3,1923)	1:77:A:ILE:HG23	1:80:A:ILE:HB	10	0.66
(3,1849)	1:81:A:ALA:HB3	1:82:A:SER:HB2	5	0.66
(3,1789)	1:3:A:LEU:HD12	1:82:A:SER:HA	11	0.66
(3,1789)	1:3:A:LEU:HD12	1:82:A:SER:HA	17	0.66
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	18	0.66
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	18	0.66
(3,1738)	1:14:A:LEU:HD21	1:34:A:HIS:HE1	15	0.66
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG22	7	0.66
(3,1693)	1:40:A:ILE:HG21	1:70:A:ILE:H	9	0.66
(3,1664)	1:101:A:VAL:HB	1:138:A:ILE:HD13	1	0.66
(3,1637)	1:91:A:THR:HG23	1:92:A:PRO:HD2	8	0.66
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD11	6	0.66
(3,1573)	1:40:A:ILE:HD13	1:41:A:PRO:HD2	18	0.66
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD12	10	0.66
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD11	1	0.66
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD13	9	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	16	0.66
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	17	0.66
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD12	10	0.66
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD22	12	0.66
(3,1437)	1:62:A:LEU:HD11	1:89:A:THR:HA	6	0.66
(3,1426)	1:62:A:LEU:HD23	1:66:A:ALA:HB2	6	0.66
(3,1393)	1:96:A:SER:HA	1:148:A:GLU:HB2	6	0.66
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG22	14	0.66
(3,1322)	1:74:A:VAL:HG22	1:75:A:GLY:H	5	0.66
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG11	16	0.66
(3,1302)	1:83:A:VAL:HG11	1:85:A:ASP:HB3	1	0.66
(3,1302)	1:83:A:VAL:HG13	1:85:A:ASP:HB3	16	0.66
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG12	9	0.66
(3,1292)	1:120:A:LEU:HD11	1:123:A:LYS:HD3	12	0.66
(3,1292)	1:120:A:LEU:HD13	1:123:A:LYS:HD3	13	0.66
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	12	0.66
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	12	0.66
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	12	0.66
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	8	0.66
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG23	15	0.66
(3,1088)	1:5:A:ASN:HA	1:81:A:ALA:HB1	15	0.66
(3,1063)	1:13:A:LYS:HG3	1:78:A:SER:HB3	12	0.66
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG21	19	0.66
(3,988)	1:114:A:VAL:HG21	1:115:A:TYR:HB3	3	0.66
(3,988)	1:114:A:VAL:HG22	1:115:A:TYR:HB3	4	0.66
(3,988)	1:114:A:VAL:HG21	1:115:A:TYR:HB3	5	0.66
(3,946)	1:107:A:LEU:HD12	1:121:A:TYR:HA	19	0.66
(3,912)	1:88:A:LYS:HE2	1:88:A:LYS:HG2	3	0.66
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	6	0.66
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	1	0.66
(3,775)	1:33:A:GLU:H	1:33:A:GLU:HB3	10	0.66
(3,753)	1:132:A:LEU:HG	1:144:A:LEU:HD12	10	0.66
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	2	0.66
(3,624)	1:107:A:LEU:HB2	1:107:A:LEU:HD12	7	0.66
(3,559)	1:3:A:LEU:HD12	1:82:A:SER:HB2	11	0.66
(3,555)	1:132:A:LEU:HD21	1:138:A:ILE:HA	18	0.66
(3,555)	1:132:A:LEU:HD22	1:138:A:ILE:HA	18	0.66
(3,555)	1:132:A:LEU:HD23	1:138:A:ILE:HA	18	0.66
(3,544)	1:107:A:LEU:HD22	1:121:A:TYR:HB2	13	0.66
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG22	7	0.66
(3,405)	1:4:A:PHE:HD1	1:85:A:ASP:HB3	12	0.66
(3,405)	1:4:A:PHE:HD2	1:85:A:ASP:HB3	12	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	3	0.66
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE3	6	0.66
(3,305)	1:106:A:THR:HG22	1:107:A:LEU:H	12	0.66
(3,251)	1:87:A:VAL:HG21	1:88:A:LYS:H	5	0.66
(3,251)	1:87:A:VAL:HG22	1:88:A:LYS:H	5	0.66
(3,251)	1:87:A:VAL:HG23	1:88:A:LYS:H	5	0.66
(3,194)	1:132:A:LEU:HD12	1:133:A:LYS:H	9	0.66
(3,192)	1:8:A:LYS:HG3	1:9:A:ASP:H	1	0.66
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	11	0.66
(3,78)	1:57:A:VAL:HG12	1:71:A:LEU:H	6	0.66
(3,76)	1:57:A:VAL:HG23	1:58:A:THR:H	11	0.66
(3,71)	1:50:A:ILE:HD13	1:51:A:ALA:H	12	0.66
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	14	0.66
(1,2481)	1:119:A:ASN:H	1:119:A:ASN:HD22	1	0.66
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	9	0.66
(1,1874)	1:68:A:GLU:HG3	1:145:A:ARG:HE	2	0.66
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD3	4	0.66
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD13	16	0.66
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	17	0.66
(1,1616)	1:8:A:LYS:HD3	1:9:A:ASP:H	4	0.66
(1,1616)	1:8:A:LYS:HD3	1:9:A:ASP:H	17	0.66
(1,1583)	1:3:A:LEU:HD12	1:86:A:GLN:HE22	12	0.66
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HB3	12	0.66
(1,1558)	1:148:A:GLU:HB2	1:149:A:GLU:H	5	0.66
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	7	0.66
(1,1488)	1:7:A:VAL:HG21	1:143:A:VAL:H	4	0.66
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD12	11	0.66
(1,1325)	1:69:A:LYS:HD2	1:128:A:ASN:H	12	0.66
(1,1246)	1:107:A:LEU:HD23	1:123:A:LYS:H	19	0.66
(1,1130)	1:113:A:GLN:H	1:115:A:TYR:HB3	9	0.66
(1,1097)	1:107:A:LEU:HD23	1:110:A:ILE:H	12	0.66
(1,1050)	1:101:A:VAL:HG11	1:102:A:LYS:H	15	0.66
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG12	4	0.66
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	8	0.66
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	10	0.66
(1,966)	1:87:A:VAL:HG12	1:88:A:LYS:H	19	0.66
(1,912)	1:54:A:LYS:HB3	1:82:A:SER:H	1	0.66
(1,848)	1:7:A:VAL:H	1:75:A:GLY:HA2	1	0.66
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HB2	5	0.66
(1,694)	1:67:A:LYS:H	1:87:A:VAL:HB	3	0.66
(1,644)	1:62:A:LEU:H	1:67:A:LYS:HB3	11	0.66
(1,633)	1:61:A:GLY:H	1:62:A:LEU:HB2	16	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,630)	1:61:A:GLY:H	1:62:A:LEU:HG	20	0.66
(1,600)	1:59:A:GLY:H	1:60:A:ASP:H	13	0.66
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	19	0.66
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	3	0.66
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD23	16	0.66
(1,302)	1:129:A:LYS:HG3	1:132:A:LEU:H	1	0.66
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG12	15	0.66
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG13	19	0.66
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG13	14	0.66
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG22	3	0.66
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD11	7	0.66
(1,161)	1:13:A:LYS:H	1:77:A:ILE:HG21	12	0.66
(3,2867)	1:46:A:VAL:HB	1:47:A:ASN:H	8	0.65
(3,2497)	1:56:A:THR:HG23	1:58:A:THR:H	12	0.65
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG22	5	0.65
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG22	3	0.65
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG22	6	0.65
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG22	19	0.65
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	15	0.65
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	15	0.65
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	15	0.65
(3,2417)	1:6:A:PHE:HB2	1:143:A:VAL:HG13	15	0.65
(3,2359)	1:129:A:LYS:HA	1:129:A:LYS:HD3	2	0.65
(3,2275)	1:132:A:LEU:HD23	1:139:A:TYR:HD1	4	0.65
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD11	3	0.65
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD12	18	0.65
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE3	1	0.65
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE3	13	0.65
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE3	8	0.65
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB3	8	0.65
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB3	14	0.65
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB3	18	0.65
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	15	0.65
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	18	0.65
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD23	11	0.65
(3,2120)	1:132:A:LEU:HD23	1:139:A:TYR:HE1	7	0.65
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	9	0.65
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	18	0.65
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	20	0.65
(3,2100)	1:110:A:ILE:HD12	1:113:A:GLN:H	1	0.65
(3,2100)	1:110:A:ILE:HD13	1:113:A:GLN:H	13	0.65
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG22	14	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	2	0.65
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	19	0.65
(3,2012)	1:31:A:VAL:HG13	1:32:A:GLN:HG2	3	0.65
(3,1997)	1:58:A:THR:HG23	1:88:A:LYS:HE2	17	0.65
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	15	0.65
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG22	6	0.65
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG13	19	0.65
(3,1944)	1:55:A:ALA:H	1:82:A:SER:HB3	9	0.65
(3,1928)	1:77:A:ILE:HD12	1:78:A:SER:H	19	0.65
(3,1927)	1:74:A:VAL:H	1:77:A:ILE:HD12	20	0.65
(3,1923)	1:77:A:ILE:HG23	1:80:A:ILE:HB	12	0.65
(3,1860)	1:66:A:ALA:HB3	1:70:A:ILE:HD12	1	0.65
(3,1860)	1:66:A:ALA:HB2	1:70:A:ILE:HD11	19	0.65
(3,1858)	1:138:A:ILE:HG13	1:138:A:ILE:HG21	13	0.65
(3,1850)	1:54:A:LYS:HD2	1:82:A:SER:HB3	18	0.65
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG22	20	0.65
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	4	0.65
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD11	18	0.65
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD12	18	0.65
(3,1669)	1:111:A:SER:HB3	1:124:A:ILE:HD13	18	0.65
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD12	2	0.65
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD11	12	0.65
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD11	5	0.65
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD12	15	0.65
(3,1578)	1:127:A:ALA:HB1	1:147:A:PRO:HD2	7	0.65
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG23	8	0.65
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	2	0.65
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	5	0.65
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	19	0.65
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	20	0.65
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD13	3	0.65
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	6	0.65
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG21	11	0.65
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG22	11	0.65
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG23	11	0.65
(3,1398)	1:29:A:LYS:HG2	1:33:A:GLU:HG2	3	0.65
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG23	11	0.65
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG21	17	0.65
(3,1338)	1:72:A:VAL:HG11	1:145:A:ARG:H	9	0.65
(3,1320)	1:6:A:PHE:HE1	1:83:A:VAL:HG11	17	0.65
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	13	0.65
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	13	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	13	0.65
(3,1292)	1:120:A:LEU:HD11	1:123:A:LYS:HD3	17	0.65
(3,1276)	1:101:A:VAL:HG11	1:138:A:ILE:HA	12	0.65
(3,1276)	1:101:A:VAL:HG12	1:138:A:ILE:HA	15	0.65
(3,1253)	1:107:A:LEU:HD12	1:125:A:PHE:HA	20	0.65
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG22	11	0.65
(3,1155)	1:24:A:LYS:HA	1:27:A:GLN:H	6	0.65
(3,1091)	1:59:A:GLY:HA3	1:62:A:LEU:HD21	2	0.65
(3,1091)	1:59:A:GLY:HA3	1:62:A:LEU:HD22	16	0.65
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG13	7	0.65
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG11	10	0.65
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG12	18	0.65
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG21	15	0.65
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG11	3	0.65
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG12	3	0.65
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG13	3	0.65
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG22	10	0.65
(3,988)	1:114:A:VAL:HG23	1:115:A:TYR:HB3	16	0.65
(3,943)	1:14:A:LEU:HA	1:14:A:LEU:HD11	8	0.65
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD21	5	0.65
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD22	5	0.65
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD23	5	0.65
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	1	0.65
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	12	0.65
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	12	0.65
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	12	0.65
(3,624)	1:107:A:LEU:HB2	1:107:A:LEU:HD13	1	0.65
(3,514)	1:125:A:PHE:HE2	1:132:A:LEU:HG	7	0.65
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	15	0.65
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB2	15	0.65
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB3	14	0.65
(3,243)	1:29:A:LYS:HG2	1:30:A:LYS:H	4	0.65
(3,243)	1:112:A:LYS:H	1:112:A:LYS:HG3	11	0.65
(3,242)	1:29:A:LYS:HE3	1:30:A:LYS:H	8	0.65
(3,234)	1:59:A:GLY:H	1:88:A:LYS:HE2	19	0.65
(3,221)	1:150:A:LEU:HD13	1:151:A:GLU:H	13	0.65
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	1	0.65
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	9	0.65
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	12	0.65
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	14	0.65
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	18	0.65
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	20	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,77)	1:57:A:VAL:HG11	1:58:A:THR:H	17	0.65
(3,71)	1:50:A:ILE:HD11	1:51:A:ALA:H	19	0.65
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD11	5	0.65
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD12	5	0.65
(3,47)	1:29:A:LYS:HG3	1:30:A:LYS:H	8	0.65
(3,46)	1:88:A:LYS:H	1:88:A:LYS:HG3	18	0.65
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	2	0.65
(1,1913)	1:3:A:LEU:HB3	1:5:A:ASN:HD21	2	0.65
(1,1898)	1:110:A:ILE:HG13	1:113:A:GLN:HE21	9	0.65
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD13	2	0.65
(1,1676)	1:45:A:LYS:H	1:62:A:LEU:HD12	20	0.65
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	17	0.65
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	17	0.65
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HB3	20	0.65
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	13	0.65
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	19	0.65
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	20	0.65
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD12	13	0.65
(1,1398)	1:107:A:LEU:HB3	1:136:A:ASP:H	3	0.65
(1,1352)	1:38:A:THR:HG22	1:131:A:MET:H	5	0.65
(1,1325)	1:69:A:LYS:HD2	1:128:A:ASN:H	17	0.65
(1,1283)	1:124:A:ILE:HG21	1:126:A:GLU:H	17	0.65
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	19	0.65
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG22	1	0.65
(1,1050)	1:101:A:VAL:HG13	1:102:A:LYS:H	12	0.65
(1,966)	1:87:A:VAL:HG13	1:88:A:LYS:H	8	0.65
(1,918)	1:3:A:LEU:HD23	1:82:A:SER:H	16	0.65
(1,732)	1:40:A:ILE:HG23	1:69:A:LYS:H	18	0.65
(1,725)	1:68:A:GLU:HG3	1:69:A:LYS:H	7	0.65
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	13	0.65
(1,672)	1:62:A:LEU:HB2	1:66:A:ALA:H	5	0.65
(1,644)	1:62:A:LEU:H	1:88:A:LYS:HG3	18	0.65
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG13	9	0.65
(1,375)	1:35:A:LEU:HD13	1:36:A:ASN:H	9	0.65
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	15	0.65
(1,342)	1:31:A:VAL:HG22	1:34:A:HIS:H	15	0.65
(1,278)	1:14:A:LEU:HD11	1:31:A:VAL:H	17	0.65
(1,278)	1:14:A:LEU:HD12	1:31:A:VAL:H	17	0.65
(1,278)	1:14:A:LEU:HD13	1:31:A:VAL:H	17	0.65
(1,224)	1:24:A:LYS:HE2	1:27:A:GLN:H	10	0.65
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	7	0.65
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	11	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	8	0.64
(3,2794)	1:82:A:SER:HB2	1:83:A:VAL:H	5	0.64
(3,2433)	1:8:A:LYS:HB2	1:8:A:LYS:HE2	5	0.64
(3,2363)	1:50:A:ILE:HG21	1:52:A:ASP:HB3	2	0.64
(3,2348)	1:31:A:VAL:HG11	1:35:A:LEU:HB2	2	0.64
(3,2344)	1:6:A:PHE:HZ	1:143:A:VAL:HG11	9	0.64
(3,2275)	1:138:A:ILE:HG22	1:139:A:TYR:HD1	7	0.64
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD12	8	0.64
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD13	12	0.64
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	8	0.64
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	8	0.64
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	8	0.64
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	14	0.64
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	19	0.64
(3,2135)	1:122:A:ASN:HB3	1:125:A:PHE:H	7	0.64
(3,2112)	1:132:A:LEU:HD21	1:133:A:LYS:HA	4	0.64
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	15	0.64
(3,2100)	1:110:A:ILE:HD11	1:113:A:GLN:H	17	0.64
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	5	0.64
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	11	0.64
(3,2084)	1:110:A:ILE:HG23	1:113:A:GLN:HG3	5	0.64
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	18	0.64
(3,1996)	1:57:A:VAL:HA	1:87:A:VAL:HG13	1	0.64
(3,1944)	1:4:A:PHE:H	1:82:A:SER:HB3	12	0.64
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG22	8	0.64
(3,1928)	1:77:A:ILE:HD13	1:78:A:SER:H	12	0.64
(3,1923)	1:77:A:ILE:HG21	1:80:A:ILE:HB	3	0.64
(3,1920)	1:77:A:ILE:HG23	1:80:A:ILE:HG13	11	0.64
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	3	0.64
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	3	0.64
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	3	0.64
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG23	19	0.64
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG23	18	0.64
(3,1665)	1:32:A:GLN:HB2	1:48:A:ILE:HD11	11	0.64
(3,1664)	1:101:A:VAL:HB	1:138:A:ILE:HD12	6	0.64
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD11	9	0.64
(3,1578)	1:127:A:ALA:HB3	1:147:A:PRO:HD2	13	0.64
(3,1573)	1:40:A:ILE:HD12	1:41:A:PRO:HD2	7	0.64
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG11	12	0.64
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD11	2	0.64
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	3	0.64
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	8	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG21	8	0.64
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG22	8	0.64
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG23	8	0.64
(3,1434)	1:132:A:LEU:HD11	1:138:A:ILE:H	10	0.64
(3,1430)	1:131:A:MET:HE2	1:132:A:LEU:HD13	13	0.64
(3,1424)	1:26:A:ASP:HB2	1:27:A:GLN:HG2	19	0.64
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	3	0.64
(3,1398)	1:68:A:GLU:HG3	1:145:A:ARG:HG3	4	0.64
(3,1398)	1:29:A:LYS:HG2	1:33:A:GLU:HG2	14	0.64
(3,1377)	1:38:A:THR:HG23	1:130:A:PRO:HB2	12	0.64
(3,1338)	1:72:A:VAL:HG12	1:145:A:ARG:H	2	0.64
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG23	11	0.64
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG13	3	0.64
(3,1276)	1:101:A:VAL:HG13	1:138:A:ILE:HA	19	0.64
(3,1272)	1:101:A:VAL:HG11	1:142:A:GLN:HB2	2	0.64
(3,1272)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	2	0.64
(3,1272)	1:101:A:VAL:HG13	1:142:A:GLN:HB2	2	0.64
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	6	0.64
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	17	0.64
(3,1232)	1:28:A:ALA:HB1	1:29:A:LYS:HB2	15	0.64
(3,1219)	1:28:A:ALA:HB1	1:50:A:ILE:HA	20	0.64
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG23	17	0.64
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	4	0.64
(3,1091)	1:59:A:GLY:HA3	1:62:A:LEU:HD13	1	0.64
(3,1091)	1:59:A:GLY:HA3	1:62:A:LEU:HD21	19	0.64
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB1	13	0.64
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB1	17	0.64
(3,1057)	1:18:A:VAL:HG11	1:19:A:THR:HA	1	0.64
(3,1057)	1:18:A:VAL:HG12	1:19:A:THR:HA	20	0.64
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG11	17	0.64
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG13	2	0.64
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG13	14	0.64
(3,943)	1:14:A:LEU:HA	1:14:A:LEU:HD11	5	0.64
(3,943)	1:14:A:LEU:HA	1:14:A:LEU:HD11	15	0.64
(3,927)	1:35:A:LEU:HA	1:35:A:LEU:HD21	2	0.64
(3,753)	1:132:A:LEU:HG	1:144:A:LEU:HD12	12	0.64
(3,753)	1:132:A:LEU:HG	1:144:A:LEU:HD11	14	0.64
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	9	0.64
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	9	0.64
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	9	0.64
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD12	10	0.64
(3,715)	1:128:A:ASN:HA	1:144:A:LEU:HD11	12	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,706)	1:31:A:VAL:HB	1:32:A:GLN:H	5	0.64
(3,706)	1:31:A:VAL:HB	1:32:A:GLN:H	9	0.64
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	8	0.64
(3,624)	1:107:A:LEU:HB2	1:107:A:LEU:HD11	16	0.64
(3,556)	1:3:A:LEU:HD13	1:54:A:LYS:HA	9	0.64
(3,555)	1:132:A:LEU:HD21	1:138:A:ILE:HA	15	0.64
(3,555)	1:132:A:LEU:HD22	1:138:A:ILE:HA	15	0.64
(3,555)	1:132:A:LEU:HD23	1:138:A:ILE:HA	15	0.64
(3,543)	1:107:A:LEU:HD23	1:125:A:PHE:HB2	14	0.64
(3,481)	1:115:A:TYR:HA	1:120:A:LEU:HD22	16	0.64
(3,479)	1:115:A:TYR:H	1:115:A:TYR:HE2	13	0.64
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB2	4	0.64
(3,316)	1:61:A:GLY:H	1:62:A:LEU:HG	8	0.64
(3,251)	1:87:A:VAL:HG21	1:88:A:LYS:H	6	0.64
(3,251)	1:87:A:VAL:HG22	1:88:A:LYS:H	6	0.64
(3,251)	1:87:A:VAL:HG23	1:88:A:LYS:H	6	0.64
(3,192)	1:8:A:LYS:HG3	1:9:A:ASP:H	9	0.64
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	7	0.64
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	19	0.64
(3,78)	1:57:A:VAL:HG13	1:71:A:LEU:H	1	0.64
(3,50)	1:36:A:ASN:H	1:37:A:LYS:HG2	4	0.64
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	3	0.64
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	13	0.64
(1,1750)	1:96:A:SER:H	1:145:A:ARG:HB3	5	0.64
(1,1750)	1:96:A:SER:H	1:145:A:ARG:HB3	11	0.64
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	4	0.64
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HB3	9	0.64
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	1	0.64
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	3	0.64
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	3	0.64
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	3	0.64
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	13	0.64
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	13	0.64
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	13	0.64
(1,1282)	1:107:A:LEU:HD12	1:126:A:GLU:H	1	0.64
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	2	0.64
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	4	0.64
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG13	12	0.64
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD11	8	0.64
(1,1050)	1:101:A:VAL:HG12	1:102:A:LYS:H	17	0.64
(1,998)	1:72:A:VAL:HG13	1:98:A:PHE:H	5	0.64
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	5	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	17	0.64
(1,966)	1:87:A:VAL:HG13	1:88:A:LYS:H	14	0.64
(1,965)	1:67:A:LYS:HG3	1:87:A:VAL:H	14	0.64
(1,842)	1:77:A:ILE:H	1:143:A:VAL:HB	12	0.64
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HG3	19	0.64
(1,630)	1:61:A:GLY:H	1:88:A:LYS:HG2	6	0.64
(1,630)	1:61:A:GLY:H	1:88:A:LYS:HG2	10	0.64
(1,600)	1:59:A:GLY:H	1:60:A:ASP:H	5	0.64
(1,600)	1:58:A:THR:H	1:59:A:GLY:H	16	0.64
(1,600)	1:58:A:THR:H	1:59:A:GLY:H	19	0.64
(1,600)	1:58:A:THR:H	1:59:A:GLY:H	20	0.64
(1,583)	1:57:A:VAL:H	1:57:A:VAL:HG13	4	0.64
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB2	8	0.64
(1,525)	1:51:A:ALA:H	1:54:A:LYS:HG2	6	0.64
(1,434)	1:44:A:ASP:H	1:45:A:LYS:HB3	2	0.64
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	6	0.64
(1,375)	1:35:A:LEU:HD12	1:36:A:ASN:H	6	0.64
(1,346)	1:124:A:ILE:HD12	1:125:A:PHE:H	15	0.64
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	5	0.64
(1,305)	1:33:A:GLU:H	1:35:A:LEU:HD13	8	0.64
(1,304)	1:40:A:ILE:HD13	1:132:A:LEU:H	13	0.64
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD12	14	0.64
(1,290)	1:32:A:GLN:H	1:35:A:LEU:HG	4	0.64
(1,290)	1:30:A:LYS:HB3	1:32:A:GLN:H	19	0.64
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG13	12	0.64
(1,273)	1:28:A:ALA:HB1	1:31:A:VAL:H	16	0.64
(1,270)	1:14:A:LEU:HD11	1:30:A:LYS:H	6	0.64
(1,270)	1:14:A:LEU:HD12	1:30:A:LYS:H	6	0.64
(1,270)	1:14:A:LEU:HD13	1:30:A:LYS:H	6	0.64
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD11	13	0.64
(1,184)	1:13:A:LYS:HE3	1:15:A:TRP:H	10	0.64
(1,184)	1:13:A:LYS:HE3	1:15:A:TRP:H	11	0.64
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	14	0.64
(1,134)	1:12:A:GLU:H	1:14:A:LEU:HG	2	0.64
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	20	0.64
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	5	0.63
(3,2867)	1:46:A:VAL:HB	1:47:A:ASN:H	20	0.63
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG21	14	0.63
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	12	0.63
(3,2451)	1:81:A:ALA:HB3	1:82:A:SER:HB3	10	0.63
(3,2355)	1:128:A:ASN:HD21	1:144:A:LEU:HD11	16	0.63
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD13	11	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG21	4	0.63
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD11	8	0.63
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE3	12	0.63
(3,2209)	1:131:A:MET:HG3	1:132:A:LEU:HD21	15	0.63
(3,2177)	1:54:A:LYS:HD2	1:84:A:ASP:H	9	0.63
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	16	0.63
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	1	0.63
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG23	10	0.63
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	14	0.63
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	19	0.63
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG22	20	0.63
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	5	0.63
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	20	0.63
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB2	4	0.63
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB2	13	0.63
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD2	2	0.63
(3,2031)	1:76:A:ASN:HD22	1:143:A:VAL:HG12	14	0.63
(3,2026)	1:143:A:VAL:HA	1:143:A:VAL:HG11	1	0.63
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG11	12	0.63
(3,1957)	1:128:A:ASN:HA	1:145:A:ARG:HB2	16	0.63
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG21	5	0.63
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG23	6	0.63
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG22	15	0.63
(3,1851)	1:81:A:ALA:HB2	1:82:A:SER:HB3	3	0.63
(3,1851)	1:3:A:LEU:HG	1:82:A:SER:HB3	8	0.63
(3,1826)	1:112:A:LYS:HB3	1:112:A:LYS:HE2	17	0.63
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	16	0.63
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	16	0.63
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	16	0.63
(3,1746)	1:58:A:THR:HG22	1:86:A:GLN:HG3	9	0.63
(3,1739)	1:98:A:PHE:HE2	1:143:A:VAL:HG22	20	0.63
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG22	14	0.63
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD11	15	0.63
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD12	14	0.63
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG11	13	0.63
(3,1558)	1:45:A:LYS:HA	1:46:A:VAL:HG12	18	0.63
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	6	0.63
(3,1496)	1:99:A:TYR:HD1	1:110:A:ILE:HG13	8	0.63
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD12	10	0.63
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	14	0.63
(3,1424)	1:26:A:ASP:HB3	1:30:A:LYS:HD3	10	0.63
(3,1402)	1:106:A:THR:HA	1:138:A:ILE:HG13	3	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG21	16	0.63
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	2	0.63
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	19	0.63
(3,1219)	1:28:A:ALA:HB3	1:50:A:ILE:HA	1	0.63
(3,1215)	1:136:A:ASP:HA	1:138:A:ILE:HG23	5	0.63
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB3	16	0.63
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	3	0.63
(3,1091)	1:59:A:GLY:HA3	1:62:A:LEU:HD23	17	0.63
(3,1029)	1:49:A:GLN:HB2	1:56:A:THR:HG22	14	0.63
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	1	0.63
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	1	0.63
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	1	0.63
(3,1005)	1:114:A:VAL:HG21	1:115:A:TYR:HE2	11	0.63
(3,988)	1:114:A:VAL:HG22	1:115:A:TYR:HB3	15	0.63
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG23	15	0.63
(3,952)	1:42:A:ASP:HB3	1:62:A:LEU:HD13	7	0.63
(3,940)	1:14:A:LEU:HD11	1:34:A:HIS:HD2	12	0.63
(3,940)	1:14:A:LEU:HD12	1:34:A:HIS:HD2	12	0.63
(3,940)	1:14:A:LEU:HD13	1:34:A:HIS:HD2	12	0.63
(3,927)	1:35:A:LEU:HA	1:35:A:LEU:HD21	1	0.63
(3,887)	1:13:A:LYS:HA	1:14:A:LEU:HD21	11	0.63
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG23	13	0.63
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	17	0.63
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	16	0.63
(3,677)	1:105:A:ASP:HB2	1:109:A:ALA:HB2	10	0.63
(3,630)	1:8:A:LYS:HB3	1:9:A:ASP:HB3	3	0.63
(3,624)	1:107:A:LEU:HB2	1:107:A:LEU:HD13	12	0.63
(3,556)	1:3:A:LEU:HD11	1:5:A:ASN:HA	5	0.63
(3,556)	1:3:A:LEU:HD11	1:54:A:LYS:HA	12	0.63
(3,535)	1:62:A:LEU:HB3	1:66:A:ALA:HB3	16	0.63
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG23	3	0.63
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	2	0.63
(3,479)	1:115:A:TYR:H	1:115:A:TYR:HE2	7	0.63
(3,375)	1:132:A:LEU:HD21	1:134:A:SER:H	3	0.63
(3,375)	1:132:A:LEU:HD22	1:134:A:SER:H	3	0.63
(3,375)	1:132:A:LEU:HD23	1:134:A:SER:H	3	0.63
(3,349)	1:88:A:LYS:H	1:88:A:LYS:HD2	8	0.63
(3,349)	1:88:A:LYS:H	1:88:A:LYS:HD2	10	0.63
(3,316)	1:13:A:LYS:HD3	1:14:A:LEU:H	13	0.63
(3,305)	1:55:A:ALA:HB2	1:56:A:THR:H	10	0.63
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	10	0.63
(3,251)	1:87:A:VAL:HG21	1:88:A:LYS:H	10	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,251)	1:87:A:VAL:HG22	1:88:A:LYS:H	10	0.63
(3,251)	1:87:A:VAL:HG23	1:88:A:LYS:H	10	0.63
(3,251)	1:87:A:VAL:HG21	1:88:A:LYS:H	13	0.63
(3,251)	1:87:A:VAL:HG22	1:88:A:LYS:H	13	0.63
(3,251)	1:87:A:VAL:HG23	1:88:A:LYS:H	13	0.63
(3,243)	1:112:A:LYS:H	1:112:A:LYS:HG3	14	0.63
(3,243)	1:112:A:LYS:H	1:112:A:LYS:HG3	19	0.63
(3,221)	1:150:A:LEU:HD12	1:151:A:GLU:H	18	0.63
(3,140)	1:107:A:LEU:HD12	1:125:A:PHE:H	18	0.63
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	4	0.63
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	5	0.63
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	19	0.63
(1,1851)	1:7:A:VAL:HG13	1:11:A:GLY:H	10	0.63
(1,1750)	1:96:A:SER:H	1:145:A:ARG:HB3	8	0.63
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HD3	15	0.63
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HB3	5	0.63
(1,1566)	1:149:A:GLU:HB2	1:150:A:LEU:H	2	0.63
(1,1488)	1:7:A:VAL:HG21	1:143:A:VAL:H	14	0.63
(1,1421)	1:138:A:ILE:H	1:138:A:ILE:HD11	4	0.63
(1,1296)	1:126:A:GLU:HB2	1:127:A:ALA:H	13	0.63
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG23	5	0.63
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG22	12	0.63
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD11	18	0.63
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	2	0.63
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	2	0.63
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	2	0.63
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	5	0.63
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	5	0.63
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	5	0.63
(1,945)	1:57:A:VAL:HG13	1:86:A:GLN:H	4	0.63
(1,915)	1:54:A:LYS:HG3	1:82:A:SER:H	19	0.63
(1,881)	1:14:A:LEU:HD11	1:80:A:ILE:H	17	0.63
(1,881)	1:14:A:LEU:HD12	1:80:A:ILE:H	17	0.63
(1,881)	1:14:A:LEU:HD13	1:80:A:ILE:H	17	0.63
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	1	0.63
(1,725)	1:68:A:GLU:HG3	1:69:A:LYS:H	14	0.63
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	9	0.63
(1,676)	1:64:A:GLN:HB2	1:66:A:ALA:H	12	0.63
(1,615)	1:46:A:VAL:HG21	1:59:A:GLY:H	20	0.63
(1,614)	1:56:A:THR:HG21	1:59:A:GLY:H	2	0.63
(1,614)	1:56:A:THR:HG23	1:59:A:GLY:H	19	0.63
(1,600)	1:58:A:THR:H	1:59:A:GLY:H	3	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,600)	1:59:A:GLY:H	1:60:A:ASP:H	9	0.63
(1,600)	1:59:A:GLY:H	1:87:A:VAL:H	17	0.63
(1,583)	1:57:A:VAL:H	1:57:A:VAL:HG12	13	0.63
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB1	15	0.63
(1,375)	1:35:A:LEU:HD13	1:36:A:ASN:H	11	0.63
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD13	9	0.63
(1,270)	1:14:A:LEU:HD11	1:30:A:LYS:H	17	0.63
(1,270)	1:14:A:LEU:HD12	1:30:A:LYS:H	17	0.63
(1,270)	1:14:A:LEU:HD13	1:30:A:LYS:H	17	0.63
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD12	3	0.63
(1,215)	1:22:A:HIS:HB3	1:26:A:ASP:H	10	0.63
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	4	0.63
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	12	0.63
(3,2794)	1:82:A:SER:HB2	1:83:A:VAL:H	16	0.62
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	6	0.62
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	14	0.62
(3,2399)	1:72:A:VAL:HG22	1:98:A:PHE:HE2	8	0.62
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG12	14	0.62
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD22	3	0.62
(3,2293)	1:94:A:THR:H	1:94:A:THR:HG23	8	0.62
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	19	0.62
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD13	13	0.62
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	17	0.62
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD12	11	0.62
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE1	4	0.62
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB1	12	0.62
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	11	0.62
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	13	0.62
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB2	20	0.62
(3,2173)	1:77:A:ILE:HB	1:80:A:ILE:HA	9	0.62
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	8	0.62
(3,2130)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	19	0.62
(3,2129)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	19	0.62
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB3	8	0.62
(3,2038)	1:72:A:VAL:HG11	1:145:A:ARG:HD3	8	0.62
(3,2026)	1:100:A:THR:HG22	1:143:A:VAL:HA	13	0.62
(3,2006)	1:112:A:LYS:HE3	1:118:A:ALA:HB2	6	0.62
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG12	20	0.62
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	13	0.62
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG23	10	0.62
(3,1850)	1:54:A:LYS:HD3	1:82:A:SER:HB3	1	0.62
(3,1789)	1:3:A:LEU:HD11	1:82:A:SER:HA	1	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1777)	1:8:A:LYS:HG2	1:79:A:GLY:HA3	7	0.62
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	6	0.62
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	6	0.62
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	6	0.62
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	13	0.62
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	13	0.62
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	13	0.62
(3,1707)	1:53:A:GLY:HA3	1:80:A:ILE:HA	18	0.62
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD13	3	0.62
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD11	1	0.62
(3,1573)	1:40:A:ILE:HD12	1:41:A:PRO:HD2	16	0.62
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	10	0.62
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	16	0.62
(3,1495)	1:125:A:PHE:HD2	1:132:A:LEU:HG	8	0.62
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	4	0.62
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG21	6	0.62
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG22	6	0.62
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG23	6	0.62
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	8	0.62
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD13	11	0.62
(3,1426)	1:62:A:LEU:HD21	1:66:A:ALA:HB3	7	0.62
(3,1302)	1:83:A:VAL:HG13	1:85:A:ASP:HB3	3	0.62
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	13	0.62
(3,1219)	1:28:A:ALA:HB2	1:50:A:ILE:HA	18	0.62
(3,1169)	1:126:A:GLU:HA	1:129:A:LYS:HB2	19	0.62
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG22	19	0.62
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	15	0.62
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	2	0.62
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	8	0.62
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	15	0.62
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	18	0.62
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	16	0.62
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	16	0.62
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	16	0.62
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG11	7	0.62
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG12	7	0.62
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG13	7	0.62
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG11	15	0.62
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG12	15	0.62
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG13	15	0.62
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG11	16	0.62
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG12	16	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG13	16	0.62
(3,1005)	1:114:A:VAL:HG21	1:115:A:TYR:HE2	17	0.62
(3,927)	1:35:A:LEU:HA	1:35:A:LEU:HD23	5	0.62
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD21	13	0.62
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD22	13	0.62
(3,907)	1:117:A:ASN:HB3	1:120:A:LEU:HD23	13	0.62
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	8	0.62
(3,753)	1:132:A:LEU:HG	1:144:A:LEU:HD13	8	0.62
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	13	0.62
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	13	0.62
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	13	0.62
(3,677)	1:105:A:ASP:HB2	1:109:A:ALA:HB2	11	0.62
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	12	0.62
(3,556)	1:3:A:LEU:HD12	1:54:A:LYS:HA	8	0.62
(3,556)	1:3:A:LEU:HD11	1:54:A:LYS:HA	10	0.62
(3,251)	1:87:A:VAL:HG21	1:88:A:LYS:H	9	0.62
(3,251)	1:87:A:VAL:HG22	1:88:A:LYS:H	9	0.62
(3,251)	1:87:A:VAL:HG23	1:88:A:LYS:H	9	0.62
(3,140)	1:107:A:LEU:HD11	1:125:A:PHE:H	13	0.62
(3,125)	1:100:A:THR:HG21	1:142:A:GLN:H	14	0.62
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	6	0.62
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	12	0.62
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	20	0.62
(1,2481)	1:119:A:ASN:H	1:119:A:ASN:HD22	11	0.62
(1,1952)	1:85:A:ASP:H	1:86:A:GLN:HE22	2	0.62
(1,1952)	1:85:A:ASP:H	1:86:A:GLN:HE22	3	0.62
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	2	0.62
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	4	0.62
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG22	18	0.62
(1,1675)	1:32:A:GLN:HG3	1:45:A:LYS:H	13	0.62
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HB3	11	0.62
(1,1566)	1:149:A:GLU:HG2	1:150:A:LEU:H	1	0.62
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	2	0.62
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	16	0.62
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	14	0.62
(1,1457)	1:138:A:ILE:HD11	1:141:A:GLY:H	3	0.62
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	7	0.62
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	7	0.62
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	7	0.62
(1,1411)	1:137:A:LYS:H	1:137:A:LYS:HD2	6	0.62
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	15	0.62
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	15	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	15	0.62
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	18	0.62
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	18	0.62
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	18	0.62
(1,1282)	1:126:A:GLU:H	1:132:A:LEU:HD11	14	0.62
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	9	0.62
(1,1265)	1:107:A:LEU:HD23	1:124:A:ILE:H	10	0.62
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	20	0.62
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	12	0.62
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	15	0.62
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG21	7	0.62
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG22	10	0.62
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	18	0.62
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	18	0.62
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	18	0.62
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG12	8	0.62
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG11	14	0.62
(1,966)	1:87:A:VAL:HG13	1:88:A:LYS:H	15	0.62
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG22	20	0.62
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE2	4	0.62
(1,697)	1:67:A:LYS:H	1:69:A:LYS:HD3	8	0.62
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	11	0.62
(1,644)	1:45:A:LYS:HG3	1:62:A:LEU:H	17	0.62
(1,633)	1:61:A:GLY:H	1:62:A:LEU:HB2	1	0.62
(1,614)	1:56:A:THR:HG22	1:59:A:GLY:H	9	0.62
(1,614)	1:56:A:THR:HG21	1:59:A:GLY:H	10	0.62
(1,614)	1:56:A:THR:HG23	1:59:A:GLY:H	20	0.62
(1,600)	1:59:A:GLY:H	1:87:A:VAL:H	1	0.62
(1,600)	1:59:A:GLY:H	1:60:A:ASP:H	10	0.62
(1,600)	1:58:A:THR:H	1:59:A:GLY:H	11	0.62
(1,600)	1:58:A:THR:H	1:59:A:GLY:H	15	0.62
(1,600)	1:59:A:GLY:H	1:60:A:ASP:H	18	0.62
(1,583)	1:57:A:VAL:H	1:57:A:VAL:HG12	1	0.62
(1,583)	1:57:A:VAL:H	1:57:A:VAL:HG11	10	0.62
(1,309)	1:29:A:LYS:HE3	1:33:A:GLU:H	16	0.62
(1,304)	1:40:A:ILE:HD11	1:132:A:LEU:H	1	0.62
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD12	5	0.62
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD21	10	0.62
(1,278)	1:14:A:LEU:HD11	1:31:A:VAL:H	6	0.62
(1,278)	1:14:A:LEU:HD12	1:31:A:VAL:H	6	0.62
(1,278)	1:14:A:LEU:HD13	1:31:A:VAL:H	6	0.62
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG12	20	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,117)	1:10:A:ALA:H	1:100:A:THR:HG23	17	0.62
(1,83)	1:6:A:PHE:H	1:98:A:PHE:HB3	15	0.62
(1,67)	1:4:A:PHE:H	1:82:A:SER:HB2	1	0.62
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	10	0.61
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD3	8	0.61
(3,2567)	1:123:A:LYS:HB2	1:123:A:LYS:HD2	8	0.61
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	8	0.61
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG22	12	0.61
(3,2335)	1:29:A:LYS:HE3	1:33:A:GLU:HG2	12	0.61
(3,2306)	1:132:A:LEU:HD11	1:144:A:LEU:HD22	4	0.61
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	13	0.61
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG23	19	0.61
(3,2259)	1:115:A:TYR:HB3	1:117:A:ASN:HB2	12	0.61
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD11	9	0.61
(3,2215)	1:125:A:PHE:HD2	1:132:A:LEU:HB3	15	0.61
(3,2193)	1:3:A:LEU:HD23	1:85:A:ASP:H	20	0.61
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	1	0.61
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB3	1	0.61
(3,2144)	1:117:A:ASN:H	1:120:A:LEU:HD23	15	0.61
(3,2130)	1:122:A:ASN:HB2	1:125:A:PHE:HD1	12	0.61
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	13	0.61
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	19	0.61
(3,2112)	1:132:A:LEU:HD23	1:133:A:LYS:HA	1	0.61
(3,2087)	1:101:A:VAL:HG12	1:110:A:ILE:HG23	4	0.61
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	15	0.61
(3,2059)	1:130:A:PRO:HG3	1:131:A:MET:H	5	0.61
(3,2026)	1:143:A:VAL:HA	1:143:A:VAL:HG12	17	0.61
(3,2006)	1:112:A:LYS:HE2	1:118:A:ALA:HB3	18	0.61
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG22	4	0.61
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG23	10	0.61
(3,1944)	1:55:A:ALA:H	1:82:A:SER:HB3	3	0.61
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG23	2	0.61
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG22	16	0.61
(3,1923)	1:77:A:ILE:HG23	1:80:A:ILE:HB	6	0.61
(3,1860)	1:66:A:ALA:HB2	1:70:A:ILE:HD13	15	0.61
(3,1790)	1:80:A:ILE:HG21	1:82:A:SER:HA	12	0.61
(3,1789)	1:3:A:LEU:HD11	1:82:A:SER:HA	5	0.61
(3,1789)	1:3:A:LEU:HD13	1:82:A:SER:HA	16	0.61
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	16	0.61
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	16	0.61
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD11	18	0.61
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD12	18	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD13	18	0.61
(3,1637)	1:91:A:THR:HG23	1:92:A:PRO:HD2	18	0.61
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD11	9	0.61
(3,1518)	1:146:A:ILE:HD11	1:147:A:PRO:HD3	10	0.61
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	7	0.61
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	9	0.61
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	12	0.61
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD13	12	0.61
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	2	0.61
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	10	0.61
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG21	4	0.61
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG22	4	0.61
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG23	4	0.61
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD12	6	0.61
(3,1443)	1:45:A:LYS:HA	1:62:A:LEU:HD12	20	0.61
(3,1436)	1:132:A:LEU:HD12	1:138:A:ILE:HA	17	0.61
(3,1342)	1:46:A:VAL:HG21	1:47:A:ASN:H	5	0.61
(3,1281)	1:67:A:LYS:HA	1:87:A:VAL:HG11	7	0.61
(3,1236)	1:30:A:LYS:HA	1:30:A:LYS:HG2	14	0.61
(3,1232)	1:28:A:ALA:HB1	1:29:A:LYS:HB2	2	0.61
(3,1229)	1:28:A:ALA:HB2	1:48:A:ILE:HG23	10	0.61
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	3	0.61
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	3	0.61
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	3	0.61
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	10	0.61
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	10	0.61
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	10	0.61
(3,1219)	1:28:A:ALA:HB2	1:48:A:ILE:HA	7	0.61
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG23	14	0.61
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB3	2	0.61
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	3	0.61
(3,1059)	1:103:A:SER:HB2	1:140:A:PRO:HG3	20	0.61
(3,1057)	1:107:A:LEU:HD22	1:108:A:SER:HA	3	0.61
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG13	12	0.61
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG11	16	0.61
(3,1005)	1:114:A:VAL:HG21	1:115:A:TYR:HE2	8	0.61
(3,1005)	1:114:A:VAL:HG21	1:115:A:TYR:HE2	9	0.61
(3,990)	1:113:A:GLN:HB3	1:114:A:VAL:HG22	12	0.61
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	1	0.61
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	1	0.61
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	1	0.61
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG23	8	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	3	0.61
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	3	0.61
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	3	0.61
(3,738)	1:14:A:LEU:HD22	1:31:A:VAL:HA	8	0.61
(3,695)	1:140:A:PRO:HA	1:140:A:PRO:HG2	8	0.61
(3,624)	1:107:A:LEU:HB2	1:107:A:LEU:HD13	8	0.61
(3,481)	1:115:A:TYR:HA	1:120:A:LEU:HD22	1	0.61
(3,349)	1:29:A:LYS:HD2	1:33:A:GLU:H	17	0.61
(3,334)	1:115:A:TYR:HD2	1:123:A:LYS:HD3	10	0.61
(3,251)	1:87:A:VAL:HG21	1:88:A:LYS:H	18	0.61
(3,251)	1:87:A:VAL:HG22	1:88:A:LYS:H	18	0.61
(3,251)	1:87:A:VAL:HG23	1:88:A:LYS:H	18	0.61
(3,222)	1:3:A:LEU:H	1:3:A:LEU:HG	15	0.61
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	8	0.61
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD13	6	0.61
(3,47)	1:29:A:LYS:HG3	1:30:A:LYS:H	5	0.61
(1,2353)	1:86:A:GLN:HA	1:86:A:GLN:HE22	10	0.61
(1,1896)	1:102:A:LYS:HD2	1:113:A:GLN:HE22	7	0.61
(1,1782)	1:107:A:LEU:HG	1:110:A:ILE:H	4	0.61
(1,1782)	1:107:A:LEU:HG	1:110:A:ILE:H	19	0.61
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	2	0.61
(1,1593)	1:64:A:GLN:HE21	1:69:A:LYS:HD3	9	0.61
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	3	0.61
(1,1558)	1:148:A:GLU:HB2	1:149:A:GLU:H	10	0.61
(1,1488)	1:7:A:VAL:HG22	1:143:A:VAL:H	6	0.61
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	2	0.61
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	4	0.61
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	15	0.61
(1,1292)	1:72:A:VAL:HG22	1:127:A:ALA:H	5	0.61
(1,1202)	1:119:A:ASN:H	1:156:A:HIS:HB3	14	0.61
(1,1096)	1:101:A:VAL:HG11	1:110:A:ILE:H	3	0.61
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	3	0.61
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	3	0.61
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	3	0.61
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	4	0.61
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	4	0.61
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	4	0.61
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	16	0.61
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	16	0.61
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	16	0.61
(1,945)	1:57:A:VAL:HG11	1:86:A:GLN:H	10	0.61
(1,875)	1:8:A:LYS:HG2	1:79:A:GLY:H	10	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	4	0.61
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	14	0.61
(1,712)	1:68:A:GLU:H	1:145:A:ARG:HD3	18	0.61
(1,630)	1:61:A:GLY:H	1:88:A:LYS:HG2	11	0.61
(1,585)	1:57:A:VAL:HG11	1:58:A:THR:H	2	0.61
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG11	10	0.61
(1,307)	1:33:A:GLU:H	1:35:A:LEU:HG	8	0.61
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD12	3	0.61
(1,277)	1:31:A:VAL:H	1:31:A:VAL:HG13	3	0.61
(1,273)	1:28:A:ALA:HB1	1:31:A:VAL:H	9	0.61
(1,215)	1:22:A:HIS:HB3	1:26:A:ASP:H	18	0.61
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB1	16	0.61
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	16	0.6
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	3	0.6
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	3	0.6
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	3	0.6
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	5	0.6
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	5	0.6
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	5	0.6
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	7	0.6
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	7	0.6
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	7	0.6
(3,2514)	1:99:A:TYR:HD1	1:110:A:ILE:HG23	18	0.6
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG21	9	0.6
(3,2433)	1:8:A:LYS:HB2	1:8:A:LYS:HE3	4	0.6
(3,2417)	1:6:A:PHE:HB2	1:143:A:VAL:HG13	13	0.6
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD13	3	0.6
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD21	15	0.6
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG22	11	0.6
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD13	16	0.6
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD13	4	0.6
(3,2214)	1:107:A:LEU:HD11	1:128:A:ASN:HD22	5	0.6
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE2	11	0.6
(3,2209)	1:38:A:THR:HG21	1:131:A:MET:HG3	12	0.6
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB3	9	0.6
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	6	0.6
(3,2177)	1:54:A:LYS:HD2	1:84:A:ASP:H	1	0.6
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB2	17	0.6
(3,2160)	1:124:A:ILE:HG23	1:128:A:ASN:H	7	0.6
(3,2145)	1:107:A:LEU:HD23	1:125:A:PHE:HA	3	0.6
(3,2129)	1:122:A:ASN:HB2	1:125:A:PHE:HD1	12	0.6
(3,2120)	1:132:A:LEU:HD13	1:139:A:TYR:HE1	13	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	5	0.6
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	6	0.6
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD13	3	0.6
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	7	0.6
(3,2080)	1:110:A:ILE:HD13	1:113:A:GLN:HG3	10	0.6
(3,2059)	1:130:A:PRO:HG3	1:131:A:MET:H	3	0.6
(3,2059)	1:130:A:PRO:HG3	1:131:A:MET:H	14	0.6
(3,2006)	1:112:A:LYS:HE3	1:118:A:ALA:HB2	17	0.6
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG12	9	0.6
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG11	15	0.6
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG23	8	0.6
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	6	0.6
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG23	11	0.6
(3,1923)	1:77:A:ILE:HG21	1:80:A:ILE:HB	20	0.6
(3,1860)	1:66:A:ALA:HB2	1:70:A:ILE:HD11	7	0.6
(3,1860)	1:66:A:ALA:HB1	1:70:A:ILE:HD12	17	0.6
(3,1850)	1:54:A:LYS:HD2	1:82:A:SER:HB3	3	0.6
(3,1807)	1:99:A:TYR:HE1	1:110:A:ILE:HA	1	0.6
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG23	3	0.6
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG23	6	0.6
(3,1727)	1:129:A:LYS:HA	1:129:A:LYS:HG2	10	0.6
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	8	0.6
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	13	0.6
(3,1707)	1:53:A:GLY:HA3	1:80:A:ILE:HA	6	0.6
(3,1664)	1:101:A:VAL:HB	1:138:A:ILE:HD13	13	0.6
(3,1577)	1:40:A:ILE:HD13	1:41:A:PRO:HD3	17	0.6
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD13	8	0.6
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD11	18	0.6
(3,1518)	1:146:A:ILE:HD12	1:147:A:PRO:HD3	3	0.6
(3,1518)	1:146:A:ILE:HD12	1:147:A:PRO:HD3	9	0.6
(3,1495)	1:125:A:PHE:HD2	1:132:A:LEU:HG	14	0.6
(3,1495)	1:125:A:PHE:HD2	1:132:A:LEU:HG	17	0.6
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD11	15	0.6
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD12	16	0.6
(3,1468)	1:15:A:TRP:HE3	1:21:A:GLN:HB2	19	0.6
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG21	10	0.6
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG22	10	0.6
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG23	10	0.6
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	5	0.6
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	10	0.6
(3,1399)	1:29:A:LYS:HD3	1:33:A:GLU:HG2	1	0.6
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG13	6	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1292)	1:120:A:LEU:HD11	1:123:A:LYS:HD2	11	0.6
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	6	0.6
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	6	0.6
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	6	0.6
(3,1281)	1:67:A:LYS:HA	1:87:A:VAL:HG13	10	0.6
(3,1232)	1:28:A:ALA:HB1	1:29:A:LYS:HB2	4	0.6
(3,1232)	1:28:A:ALA:HB3	1:29:A:LYS:HB2	10	0.6
(3,1224)	1:28:A:ALA:HB1	1:31:A:VAL:HB	1	0.6
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG22	1	0.6
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	16	0.6
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	12	0.6
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	14	0.6
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	16	0.6
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB1	10	0.6
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG13	19	0.6
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	5	0.6
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	5	0.6
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	5	0.6
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	8	0.6
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	8	0.6
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	8	0.6
(3,1005)	1:114:A:VAL:HG21	1:115:A:TYR:HE2	4	0.6
(3,990)	1:113:A:GLN:HB3	1:114:A:VAL:HG21	1	0.6
(3,990)	1:113:A:GLN:HB3	1:114:A:VAL:HG23	13	0.6
(3,988)	1:114:A:VAL:HG21	1:115:A:TYR:HB3	6	0.6
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG22	12	0.6
(3,951)	1:67:A:LYS:HE3	1:71:A:LEU:HD11	8	0.6
(3,946)	1:107:A:LEU:HA	1:107:A:LEU:HD13	18	0.6
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG23	19	0.6
(3,887)	1:13:A:LYS:HA	1:14:A:LEU:HD21	20	0.6
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	17	0.6
(3,797)	1:8:A:LYS:HG2	1:9:A:ASP:HB2	9	0.6
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	7	0.6
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	7	0.6
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	7	0.6
(3,695)	1:140:A:PRO:HA	1:140:A:PRO:HG2	12	0.6
(3,695)	1:140:A:PRO:HA	1:140:A:PRO:HG2	20	0.6
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	6	0.6
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG23	14	0.6
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG22	20	0.6
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB2	13	0.6
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB2	14	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,222)	1:3:A:LEU:H	1:3:A:LEU:HG	8	0.6
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	2	0.6
(3,125)	1:100:A:THR:HG23	1:142:A:GLN:H	9	0.6
(3,114)	1:77:A:ILE:HG12	1:78:A:SER:H	2	0.6
(3,94)	1:138:A:ILE:HG22	1:139:A:TYR:H	18	0.6
(3,71)	1:50:A:ILE:HD11	1:51:A:ALA:H	11	0.6
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	9	0.6
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	10	0.6
(1,1824)	1:32:A:GLN:HE22	1:43:A:ALA:HB1	4	0.6
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD22	11	0.6
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	20	0.6
(1,1727)	1:60:A:ASP:H	1:89:A:THR:H	14	0.6
(1,1583)	1:3:A:LEU:HD13	1:86:A:GLN:HE22	11	0.6
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HB3	2	0.6
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HB3	7	0.6
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	18	0.6
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	5	0.6
(1,1398)	1:136:A:ASP:H	1:137:A:LYS:HD2	2	0.6
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	11	0.6
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	2	0.6
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	3	0.6
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	13	0.6
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	18	0.6
(1,1096)	1:101:A:VAL:HG12	1:110:A:ILE:H	17	0.6
(1,1024)	1:100:A:THR:H	1:143:A:VAL:HG11	12	0.6
(1,915)	1:54:A:LYS:HG3	1:82:A:SER:H	14	0.6
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	8	0.6
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE2	11	0.6
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE1	19	0.6
(1,600)	1:59:A:GLY:H	1:60:A:ASP:H	4	0.6
(1,583)	1:57:A:VAL:H	1:57:A:VAL:HG11	6	0.6
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB2	13	0.6
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG12	6	0.6
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	7	0.6
(1,342)	1:31:A:VAL:HG21	1:34:A:HIS:H	8	0.6
(1,304)	1:40:A:ILE:HD13	1:132:A:LEU:H	3	0.6
(1,304)	1:40:A:ILE:HD11	1:132:A:LEU:H	14	0.6
(1,304)	1:40:A:ILE:HD13	1:132:A:LEU:H	16	0.6
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD21	8	0.6
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD13	19	0.6
(1,290)	1:32:A:GLN:H	1:35:A:LEU:HG	20	0.6
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	1	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	1	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	1	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	2	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	2	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	2	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	4	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	4	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	4	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	6	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	6	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	6	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	9	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	9	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	9	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	10	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	10	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	10	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	12	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	12	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	12	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	13	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	13	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	13	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	15	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	15	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	15	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	16	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	16	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	16	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	17	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	17	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	17	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	18	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	18	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	18	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG21	19	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG22	19	0.59
(3,2812)	1:46:A:VAL:HA	1:46:A:VAL:HG23	19	0.59
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG12	9	0.59
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG13	19	0.59
(3,2417)	1:6:A:PHE:HB2	1:143:A:VAL:HG11	9	0.59
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD1	1	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD2	5	0.59
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD1	17	0.59
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	15	0.59
(3,2278)	1:139:A:TYR:HD2	1:140:A:PRO:HD3	17	0.59
(3,2275)	1:7:A:VAL:HG12	1:139:A:TYR:HD2	1	0.59
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD11	10	0.59
(3,2209)	1:38:A:THR:HG23	1:131:A:MET:HG3	10	0.59
(3,2164)	1:80:A:ILE:HG21	1:83:A:VAL:HA	8	0.59
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	1	0.59
(3,2059)	1:24:A:LYS:HG2	1:51:A:ALA:H	11	0.59
(3,2026)	1:100:A:THR:HG23	1:143:A:VAL:HA	3	0.59
(3,1992)	1:123:A:LYS:HE3	1:147:A:PRO:HG2	12	0.59
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG21	3	0.59
(3,1882)	1:63:A:SER:HB3	1:65:A:GLU:HB2	6	0.59
(3,1851)	1:3:A:LEU:HG	1:82:A:SER:HB3	15	0.59
(3,1793)	1:135:A:PRO:HA	1:135:A:PRO:HG3	16	0.59
(3,1777)	1:8:A:LYS:HG2	1:79:A:GLY:HA3	3	0.59
(3,1777)	1:8:A:LYS:HG2	1:79:A:GLY:HA3	6	0.59
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	7	0.59
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	7	0.59
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	7	0.59
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	10	0.59
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	10	0.59
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	10	0.59
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	11	0.59
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	11	0.59
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	11	0.59
(3,1739)	1:98:A:PHE:HE2	1:143:A:VAL:HG22	3	0.59
(3,1712)	1:57:A:VAL:HG22	1:84:A:ASP:H	16	0.59
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG22	15	0.59
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD11	13	0.59
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD12	13	0.59
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD13	13	0.59
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD12	11	0.59
(3,1578)	1:127:A:ALA:HB2	1:147:A:PRO:HD2	15	0.59
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD11	5	0.59
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD12	9	0.59
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD13	10	0.59
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD11	15	0.59
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD13	20	0.59
(3,1518)	1:146:A:ILE:HD13	1:147:A:PRO:HD3	1	0.59
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	1	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	17	0.59
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	19	0.59
(3,1475)	1:54:A:LYS:HD2	1:84:A:ASP:HA	17	0.59
(3,1475)	1:54:A:LYS:HD2	1:56:A:THR:HA	18	0.59
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG21	12	0.59
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG22	12	0.59
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG23	12	0.59
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	3	0.59
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	13	0.59
(3,1437)	1:62:A:LEU:HD12	1:89:A:THR:HA	5	0.59
(3,1402)	1:106:A:THR:HA	1:138:A:ILE:HG13	16	0.59
(3,1399)	1:29:A:LYS:HD2	1:33:A:GLU:HG2	17	0.59
(3,1395)	1:30:A:LYS:HD3	1:33:A:GLU:HG3	15	0.59
(3,1374)	1:32:A:GLN:HG2	1:48:A:ILE:H	14	0.59
(3,1342)	1:46:A:VAL:HG21	1:47:A:ASN:H	10	0.59
(3,1342)	1:46:A:VAL:HG21	1:47:A:ASN:H	13	0.59
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG11	7	0.59
(3,1272)	1:101:A:VAL:HG11	1:142:A:GLN:HB2	13	0.59
(3,1272)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	13	0.59
(3,1272)	1:101:A:VAL:HG13	1:142:A:GLN:HB2	13	0.59
(3,1243)	1:60:A:ASP:HB2	1:88:A:LYS:HD2	3	0.59
(3,1232)	1:28:A:ALA:HB2	1:29:A:LYS:HB2	1	0.59
(3,1232)	1:28:A:ALA:HB2	1:29:A:LYS:HB2	9	0.59
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	15	0.59
(3,1062)	1:13:A:LYS:HD3	1:78:A:SER:HB2	11	0.59
(3,1059)	1:103:A:SER:HB2	1:140:A:PRO:HG3	11	0.59
(3,1056)	1:58:A:THR:HG22	1:87:A:VAL:HA	1	0.59
(3,1056)	1:58:A:THR:HG21	1:87:A:VAL:HA	19	0.59
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG11	20	0.59
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	18	0.59
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	18	0.59
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	18	0.59
(3,1034)	1:56:A:THR:HG22	1:85:A:ASP:HA	1	0.59
(3,1008)	1:15:A:TRP:HZ2	1:17:A:ALA:HB3	20	0.59
(3,1005)	1:114:A:VAL:HG23	1:115:A:TYR:HE2	10	0.59
(3,1005)	1:114:A:VAL:HG23	1:115:A:TYR:HE2	19	0.59
(3,988)	1:114:A:VAL:HG23	1:115:A:TYR:HB3	1	0.59
(3,949)	1:107:A:LEU:HD12	1:125:A:PHE:HB2	9	0.59
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD12	15	0.59
(3,914)	1:120:A:LEU:HD21	1:149:A:GLU:HG3	16	0.59
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	5	0.59
(3,807)	1:72:A:VAL:HG11	1:73:A:ALA:HA	16	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	20	0.59
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG21	6	0.59
(3,738)	1:14:A:LEU:HD22	1:31:A:VAL:HA	5	0.59
(3,695)	1:140:A:PRO:HA	1:140:A:PRO:HG2	15	0.59
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	17	0.59
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	13	0.59
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	5	0.59
(3,502)	1:6:A:PHE:HE1	1:71:A:LEU:HB3	13	0.59
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	8	0.59
(3,420)	1:131:A:MET:HE3	1:132:A:LEU:HD21	15	0.59
(3,419)	1:131:A:MET:HE3	1:144:A:LEU:HA	10	0.59
(3,349)	1:88:A:LYS:H	1:88:A:LYS:HD2	9	0.59
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB3	19	0.59
(3,334)	1:123:A:LYS:HD3	1:124:A:ILE:H	11	0.59
(3,334)	1:115:A:TYR:HD2	1:123:A:LYS:HD3	13	0.59
(3,305)	1:55:A:ALA:HB2	1:56:A:THR:H	4	0.59
(3,243)	1:112:A:LYS:H	1:112:A:LYS:HG3	10	0.59
(3,208)	1:101:A:VAL:HB	1:142:A:GLN:H	20	0.59
(3,142)	1:107:A:LEU:HD13	1:110:A:ILE:HD12	17	0.59
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	17	0.59
(3,48)	1:122:A:ASN:H	1:123:A:LYS:HG3	19	0.59
(3,47)	1:88:A:LYS:HG2	1:89:A:THR:H	6	0.59
(1,1977)	1:43:A:ALA:HB2	1:74:A:VAL:H	15	0.59
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	17	0.59
(1,1949)	1:138:A:ILE:H	1:142:A:GLN:HB3	19	0.59
(1,1898)	1:102:A:LYS:HD3	1:113:A:GLN:HE21	19	0.59
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG21	10	0.59
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	12	0.59
(1,1675)	1:32:A:GLN:HG3	1:45:A:LYS:H	20	0.59
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	5	0.59
(1,1488)	1:7:A:VAL:HG23	1:143:A:VAL:H	18	0.59
(1,1457)	1:138:A:ILE:HD12	1:141:A:GLY:H	2	0.59
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	2	0.59
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	2	0.59
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	2	0.59
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	6	0.59
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	6	0.59
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	6	0.59
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD12	18	0.59
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	4	0.59
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG22	13	0.59
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	4	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	13	0.59
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	7	0.59
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	20	0.59
(1,1099)	1:110:A:ILE:H	1:114:A:VAL:HG11	17	0.59
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD11	13	0.59
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	6	0.59
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	6	0.59
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	6	0.59
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	10	0.59
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	10	0.59
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	10	0.59
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	14	0.59
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	14	0.59
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	14	0.59
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	9	0.59
(1,742)	1:41:A:PRO:HB2	1:70:A:ILE:H	16	0.59
(1,732)	1:40:A:ILE:HG21	1:69:A:LYS:H	12	0.59
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	6	0.59
(1,671)	1:62:A:LEU:HD22	1:66:A:ALA:H	9	0.59
(1,630)	1:61:A:GLY:H	1:88:A:LYS:HG2	5	0.59
(1,630)	1:61:A:GLY:H	1:88:A:LYS:HG2	9	0.59
(1,600)	1:58:A:THR:H	1:59:A:GLY:H	2	0.59
(1,600)	1:58:A:THR:H	1:59:A:GLY:H	7	0.59
(1,600)	1:59:A:GLY:H	1:87:A:VAL:H	8	0.59
(1,585)	1:57:A:VAL:HG13	1:58:A:THR:H	7	0.59
(1,583)	1:57:A:VAL:H	1:71:A:LEU:HD23	19	0.59
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB1	10	0.59
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG13	2	0.59
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG11	6	0.59
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	9	0.59
(1,389)	1:31:A:VAL:HG12	1:38:A:THR:H	18	0.59
(1,375)	1:35:A:LEU:HD12	1:36:A:ASN:H	12	0.59
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	12	0.59
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	16	0.59
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	17	0.59
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD11	11	0.59
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD11	13	0.59
(1,273)	1:28:A:ALA:HB2	1:31:A:VAL:H	10	0.59
(1,273)	1:28:A:ALA:HB1	1:31:A:VAL:H	14	0.59
(1,249)	1:25:A:ASP:HB2	1:29:A:LYS:H	5	0.59
(1,246)	1:29:A:LYS:H	1:29:A:LYS:HD3	5	0.59
(1,212)	1:22:A:HIS:HB2	1:25:A:ASP:H	12	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG23	10	0.59
(1,67)	1:4:A:PHE:H	1:82:A:SER:HB2	5	0.59
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG22	19	0.59
(1,4)	1:15:A:TRP:HE1	1:81:A:ALA:HB2	7	0.59
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	17	0.58
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	18	0.58
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD12	4	0.58
(3,2336)	1:69:A:LYS:HD3	1:145:A:ARG:HD2	20	0.58
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD23	8	0.58
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	8	0.58
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	12	0.58
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD12	18	0.58
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	6	0.58
(3,2238)	1:107:A:LEU:HD22	1:135:A:PRO:HD2	20	0.58
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD12	14	0.58
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE2	5	0.58
(3,2209)	1:38:A:THR:HG23	1:131:A:MET:HG3	3	0.58
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	18	0.58
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	18	0.58
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	18	0.58
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB2	15	0.58
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	17	0.58
(3,2164)	1:80:A:ILE:HG22	1:83:A:VAL:HA	4	0.58
(3,2164)	1:80:A:ILE:HG22	1:83:A:VAL:HA	9	0.58
(3,2142)	1:45:A:LYS:H	1:62:A:LEU:HD22	14	0.58
(3,2130)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	3	0.58
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	14	0.58
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	2	0.58
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG22	11	0.58
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD13	1	0.58
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	2	0.58
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG21	9	0.58
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG13	16	0.58
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG23	19	0.58
(3,1849)	1:81:A:ALA:HB2	1:82:A:SER:HB2	1	0.58
(3,1849)	1:81:A:ALA:HB1	1:82:A:SER:HB2	7	0.58
(3,1789)	1:3:A:LEU:HD11	1:82:A:SER:HA	7	0.58
(3,1739)	1:98:A:PHE:HE2	1:143:A:VAL:HG23	1	0.58
(3,1738)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	5	0.58
(3,1727)	1:129:A:LYS:HA	1:129:A:LYS:HG2	15	0.58
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG12	15	0.58
(3,1664)	1:105:A:ASP:HB2	1:138:A:ILE:HD12	2	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1637)	1:91:A:THR:HG22	1:92:A:PRO:HD2	14	0.58
(3,1637)	1:91:A:THR:HG22	1:92:A:PRO:HD2	16	0.58
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD13	7	0.58
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD12	1	0.58
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD12	2	0.58
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD12	4	0.58
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD12	12	0.58
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD13	17	0.58
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD12	20	0.58
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD11	4	0.58
(3,1518)	1:146:A:ILE:HD12	1:147:A:PRO:HD3	5	0.58
(3,1518)	1:146:A:ILE:HD11	1:147:A:PRO:HD3	13	0.58
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	6	0.58
(3,1475)	1:142:A:GLN:HB3	1:143:A:VAL:HA	6	0.58
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG21	19	0.58
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG22	19	0.58
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG23	19	0.58
(3,1436)	1:132:A:LEU:HD12	1:138:A:ILE:HA	1	0.58
(3,1436)	1:132:A:LEU:HD13	1:138:A:ILE:HA	14	0.58
(3,1430)	1:131:A:MET:HE2	1:132:A:LEU:HD13	19	0.58
(3,1426)	1:62:A:LEU:HD23	1:66:A:ALA:HB3	14	0.58
(3,1384)	1:68:A:GLU:HG3	1:69:A:LYS:H	10	0.58
(3,1342)	1:46:A:VAL:HG21	1:47:A:ASN:H	18	0.58
(3,1317)	1:72:A:VAL:HG13	1:144:A:LEU:HA	16	0.58
(3,1232)	1:28:A:ALA:HB1	1:29:A:LYS:HB2	6	0.58
(3,1232)	1:28:A:ALA:HB3	1:29:A:LYS:HB2	7	0.58
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	14	0.58
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	14	0.58
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	14	0.58
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	16	0.58
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	16	0.58
(3,1165)	1:27:A:GLN:HA	1:50:A:ILE:HG23	7	0.58
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	5	0.58
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	19	0.58
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB3	7	0.58
(3,1005)	1:114:A:VAL:HG22	1:115:A:TYR:HE2	7	0.58
(3,949)	1:107:A:LEU:HD11	1:125:A:PHE:HB2	5	0.58
(3,893)	1:67:A:LYS:HB3	1:87:A:VAL:HG21	11	0.58
(3,807)	1:72:A:VAL:HG13	1:73:A:ALA:HA	3	0.58
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	5	0.58
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	14	0.58
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	18	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	2	0.58
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	2	0.58
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	2	0.58
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG21	3	0.58
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	15	0.58
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	15	0.58
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	15	0.58
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	16	0.58
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	16	0.58
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	16	0.58
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	17	0.58
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG21	15	0.58
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG21	18	0.58
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	10	0.58
(3,420)	1:131:A:MET:HE2	1:132:A:LEU:HD12	7	0.58
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	5	0.58
(3,238)	1:29:A:LYS:HA	1:29:A:LYS:HD2	1	0.58
(3,229)	1:18:A:VAL:HG13	1:19:A:THR:H	16	0.58
(3,222)	1:3:A:LEU:H	1:3:A:LEU:HG	18	0.58
(3,47)	1:88:A:LYS:HG2	1:89:A:THR:H	15	0.58
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	7	0.58
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	15	0.58
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	20	0.58
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	17	0.58
(1,1675)	1:32:A:GLN:HG3	1:45:A:LYS:H	18	0.58
(1,1594)	1:64:A:GLN:HE21	1:67:A:LYS:HB3	3	0.58
(1,1412)	1:137:A:LYS:H	1:138:A:ILE:HG12	18	0.58
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	19	0.58
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	19	0.58
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	19	0.58
(1,1359)	1:129:A:LYS:HG3	1:131:A:MET:H	18	0.58
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	5	0.58
(1,1282)	1:107:A:LEU:HD13	1:126:A:GLU:H	11	0.58
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	12	0.58
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	12	0.58
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	1	0.58
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	14	0.58
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD12	17	0.58
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	13	0.58
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	13	0.58
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	13	0.58
(1,875)	1:8:A:LYS:HG2	1:79:A:GLY:H	4	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG22	16	0.58
(1,842)	1:77:A:ILE:H	1:143:A:VAL:HB	14	0.58
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	15	0.58
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE1	1	0.58
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE2	16	0.58
(1,673)	1:65:A:GLU:HB2	1:66:A:ALA:H	7	0.58
(1,614)	1:56:A:THR:HG21	1:59:A:GLY:H	3	0.58
(1,614)	1:56:A:THR:HG22	1:59:A:GLY:H	7	0.58
(1,585)	1:57:A:VAL:HG13	1:58:A:THR:H	3	0.58
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG21	6	0.58
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG22	6	0.58
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG23	6	0.58
(1,550)	1:55:A:ALA:H	1:83:A:VAL:HG12	3	0.58
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	19	0.58
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD21	4	0.58
(1,269)	1:30:A:LYS:H	1:50:A:ILE:HD11	9	0.58
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	17	0.58
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB2	7	0.58
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB3	8	0.58
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	3	0.57
(3,2701)	1:132:A:LEU:HD21	1:142:A:GLN:HE22	19	0.57
(3,2701)	1:132:A:LEU:HD22	1:142:A:GLN:HE22	19	0.57
(3,2701)	1:132:A:LEU:HD23	1:142:A:GLN:HE22	19	0.57
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	9	0.57
(3,2436)	1:69:A:LYS:HA	1:69:A:LYS:HE3	18	0.57
(3,2433)	1:8:A:LYS:HB3	1:8:A:LYS:HE2	1	0.57
(3,2344)	1:98:A:PHE:HE2	1:143:A:VAL:HG13	1	0.57
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD2	2	0.57
(3,2339)	1:115:A:TYR:HB3	1:149:A:GLU:HG3	16	0.57
(3,2335)	1:29:A:LYS:HE2	1:33:A:GLU:HG2	11	0.57
(3,2304)	1:138:A:ILE:HB	1:144:A:LEU:HD23	20	0.57
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD22	10	0.57
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG21	7	0.57
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD13	7	0.57
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	2	0.57
(3,2238)	1:107:A:LEU:HD13	1:135:A:PRO:HD2	4	0.57
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD13	3	0.57
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	15	0.57
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	6	0.57
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	6	0.57
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	6	0.57
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	3	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB3	7	0.57
(3,2146)	1:118:A:ALA:HB3	1:121:A:TYR:HD1	2	0.57
(3,2129)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	3	0.57
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	4	0.57
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB3	10	0.57
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG23	16	0.57
(3,1979)	1:86:A:GLN:H	1:87:A:VAL:HG13	11	0.57
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	12	0.57
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG22	9	0.57
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD11	12	0.57
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD12	12	0.57
(3,1911)	1:14:A:LEU:HD11	1:77:A:ILE:HD13	12	0.57
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD11	12	0.57
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD12	12	0.57
(3,1911)	1:14:A:LEU:HD12	1:77:A:ILE:HD13	12	0.57
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD11	12	0.57
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD12	12	0.57
(3,1911)	1:14:A:LEU:HD13	1:77:A:ILE:HD13	12	0.57
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	9	0.57
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	9	0.57
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	9	0.57
(3,1752)	1:14:A:LEU:HD22	1:30:A:LYS:HB2	2	0.57
(3,1739)	1:98:A:PHE:HE2	1:143:A:VAL:HG22	9	0.57
(3,1727)	1:129:A:LYS:HA	1:129:A:LYS:HG2	19	0.57
(3,1692)	1:50:A:ILE:HG22	1:56:A:THR:H	5	0.57
(3,1550)	1:99:A:TYR:HB3	1:146:A:ILE:HG22	17	0.57
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD12	3	0.57
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD12	6	0.57
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD11	11	0.57
(3,1539)	1:40:A:ILE:HD12	1:73:A:ALA:HB3	7	0.57
(3,1539)	1:40:A:ILE:HD13	1:73:A:ALA:HB3	19	0.57
(3,1518)	1:146:A:ILE:HD13	1:147:A:PRO:HD3	2	0.57
(3,1518)	1:146:A:ILE:HD13	1:147:A:PRO:HD3	11	0.57
(3,1518)	1:146:A:ILE:HD12	1:147:A:PRO:HD3	20	0.57
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	16	0.57
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	17	0.57
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	19	0.57
(3,1399)	1:148:A:GLU:HG3	1:149:A:GLU:HB3	15	0.57
(3,1374)	1:32:A:GLN:HG3	1:48:A:ILE:H	1	0.57
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	13	0.57
(3,1302)	1:83:A:VAL:HG13	1:85:A:ASP:HB3	10	0.57
(3,1059)	1:103:A:SER:HB3	1:140:A:PRO:HG3	12	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG23	20	0.57
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	18	0.57
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	18	0.57
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	18	0.57
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG23	8	0.57
(3,946)	1:107:A:LEU:HA	1:107:A:LEU:HD12	13	0.57
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD12	5	0.57
(3,916)	1:15:A:TRP:HE3	1:21:A:GLN:HB3	9	0.57
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	10	0.57
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	9	0.57
(3,695)	1:140:A:PRO:HA	1:140:A:PRO:HG2	17	0.57
(3,695)	1:140:A:PRO:HA	1:140:A:PRO:HG2	19	0.57
(3,692)	1:107:A:LEU:HB2	1:111:A:SER:HB3	13	0.57
(3,533)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	6	0.57
(3,533)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	7	0.57
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	16	0.57
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	6	0.57
(3,430)	1:99:A:TYR:HD2	1:114:A:VAL:HG23	4	0.57
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG21	15	0.57
(3,420)	1:131:A:MET:HE2	1:132:A:LEU:HD13	12	0.57
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB2	17	0.57
(3,305)	1:55:A:ALA:HB3	1:56:A:THR:H	6	0.57
(3,113)	1:74:A:VAL:HG12	1:75:A:GLY:H	13	0.57
(3,86)	1:65:A:GLU:H	1:65:A:GLU:HG2	10	0.57
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	3	0.57
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	1	0.57
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	10	0.57
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	3	0.57
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	12	0.57
(1,1949)	1:135:A:PRO:HB3	1:138:A:ILE:H	8	0.57
(1,1853)	1:11:A:GLY:H	1:77:A:ILE:HB	2	0.57
(1,1782)	1:107:A:LEU:HG	1:110:A:ILE:H	15	0.57
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	10	0.57
(1,1675)	1:32:A:GLN:HG2	1:45:A:LYS:H	15	0.57
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	20	0.57
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	2	0.57
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	2	0.57
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	2	0.57
(1,1313)	1:125:A:PHE:HD2	1:128:A:ASN:H	2	0.57
(1,1282)	1:126:A:GLU:H	1:132:A:LEU:HD11	16	0.57
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	18	0.57
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	1	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	3	0.57
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	19	0.57
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	2	0.57
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	5	0.57
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	7	0.57
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG21	13	0.57
(1,1059)	1:103:A:SER:HB2	1:105:A:ASP:H	6	0.57
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	9	0.57
(1,965)	1:67:A:LYS:HG3	1:87:A:VAL:H	11	0.57
(1,875)	1:8:A:LYS:HG2	1:79:A:GLY:H	17	0.57
(1,846)	1:13:A:LYS:HG3	1:78:A:SER:H	15	0.57
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	16	0.57
(1,732)	1:40:A:ILE:HG23	1:69:A:LYS:H	4	0.57
(1,732)	1:40:A:ILE:HG23	1:69:A:LYS:H	17	0.57
(1,725)	1:68:A:GLU:HG3	1:69:A:LYS:H	2	0.57
(1,697)	1:67:A:LYS:H	1:69:A:LYS:HD2	14	0.57
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	15	0.57
(1,676)	1:64:A:GLN:HB2	1:66:A:ALA:H	10	0.57
(1,579)	1:55:A:ALA:HB2	1:57:A:VAL:H	10	0.57
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB2	6	0.57
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG12	17	0.57
(1,367)	1:32:A:GLN:HG3	1:36:A:ASN:H	1	0.57
(1,304)	1:40:A:ILE:HD11	1:132:A:LEU:H	18	0.57
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD11	18	0.57
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG12	1	0.57
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG12	13	0.57
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB3	13	0.57
(1,83)	1:6:A:PHE:H	1:98:A:PHE:HB3	11	0.57
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG22	2	0.57
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG12	6	0.56
(3,2497)	1:56:A:THR:HG23	1:58:A:THR:H	1	0.56
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB3	13	0.56
(3,2368)	1:66:A:ALA:H	1:68:A:GLU:HG3	17	0.56
(3,2356)	1:101:A:VAL:HG13	1:142:A:GLN:HB2	11	0.56
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD1	16	0.56
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD13	12	0.56
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD22	2	0.56
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD22	5	0.56
(3,2294)	1:94:A:THR:H	1:94:A:THR:HG23	10	0.56
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD11	2	0.56
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD11	5	0.56
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD11	17	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	9	0.56
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD12	17	0.56
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE3	19	0.56
(3,2160)	1:124:A:ILE:HG22	1:128:A:ASN:H	20	0.56
(3,2145)	1:107:A:LEU:HD22	1:125:A:PHE:HA	2	0.56
(3,2135)	1:122:A:ASN:HB3	1:125:A:PHE:H	2	0.56
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	3	0.56
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	12	0.56
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	16	0.56
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	9	0.56
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	12	0.56
(3,2059)	1:51:A:ALA:H	1:54:A:LYS:HG2	15	0.56
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	11	0.56
(3,2006)	1:112:A:LYS:HE3	1:118:A:ALA:HB1	19	0.56
(3,1997)	1:58:A:THR:HG23	1:88:A:LYS:HE2	12	0.56
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG23	17	0.56
(3,1957)	1:127:A:ALA:HB1	1:128:A:ASN:HA	3	0.56
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG23	4	0.56
(3,1860)	1:66:A:ALA:HB2	1:70:A:ILE:HD11	3	0.56
(3,1860)	1:66:A:ALA:HB2	1:70:A:ILE:HD12	4	0.56
(3,1851)	1:3:A:LEU:HG	1:82:A:SER:HB3	10	0.56
(3,1851)	1:81:A:ALA:HB2	1:82:A:SER:HB3	14	0.56
(3,1849)	1:81:A:ALA:HB2	1:82:A:SER:HB2	6	0.56
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	11	0.56
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	11	0.56
(3,1777)	1:8:A:LYS:HG2	1:79:A:GLY:HA3	9	0.56
(3,1738)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	4	0.56
(3,1707)	1:53:A:GLY:HA3	1:80:A:ILE:HA	5	0.56
(3,1659)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	8	0.56
(3,1637)	1:91:A:THR:HG23	1:92:A:PRO:HD2	2	0.56
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD11	20	0.56
(3,1573)	1:40:A:ILE:HD13	1:41:A:PRO:HD2	10	0.56
(3,1573)	1:40:A:ILE:HD11	1:41:A:PRO:HD2	12	0.56
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD13	7	0.56
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD13	16	0.56
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD12	19	0.56
(3,1518)	1:146:A:ILE:HD13	1:147:A:PRO:HD3	17	0.56
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	18	0.56
(3,1395)	1:30:A:LYS:HD2	1:33:A:GLU:HG3	16	0.56
(3,1384)	1:68:A:GLU:HG3	1:69:A:LYS:H	4	0.56
(3,1376)	1:110:A:ILE:HB	1:113:A:GLN:HG2	6	0.56
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG11	16	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1325)	1:99:A:TYR:HE1	1:101:A:VAL:HG23	14	0.56
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG23	11	0.56
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG23	12	0.56
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	2	0.56
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	2	0.56
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	2	0.56
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	20	0.56
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	20	0.56
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	20	0.56
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	8	0.56
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	8	0.56
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	8	0.56
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	17	0.56
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	17	0.56
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	17	0.56
(3,1091)	1:59:A:GLY:HA3	1:62:A:LEU:HD23	12	0.56
(3,1086)	1:142:A:GLN:HE22	1:144:A:LEU:HD11	20	0.56
(3,1086)	1:142:A:GLN:HE22	1:144:A:LEU:HD12	20	0.56
(3,1086)	1:142:A:GLN:HE22	1:144:A:LEU:HD13	20	0.56
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG11	15	0.56
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	15	0.56
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	15	0.56
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	15	0.56
(3,1005)	1:114:A:VAL:HG23	1:115:A:TYR:HE2	3	0.56
(3,990)	1:113:A:GLN:HB3	1:114:A:VAL:HG23	17	0.56
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG21	14	0.56
(3,797)	1:8:A:LYS:HG2	1:9:A:ASP:HB2	15	0.56
(3,797)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	17	0.56
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	10	0.56
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	17	0.56
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG21	19	0.56
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	20	0.56
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	20	0.56
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	20	0.56
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	9	0.56
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	9	0.56
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	9	0.56
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD11	3	0.56
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD12	13	0.56
(3,674)	1:105:A:ASP:HB2	1:138:A:ILE:HD13	4	0.56
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	4	0.56
(3,632)	1:25:A:ASP:HB3	1:28:A:ALA:HB3	10	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,630)	1:135:A:PRO:HB2	1:136:A:ASP:HB2	14	0.56
(3,622)	1:115:A:TYR:HB3	1:120:A:LEU:HB2	13	0.56
(3,556)	1:3:A:LEU:HD22	1:5:A:ASN:HA	18	0.56
(3,533)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	5	0.56
(3,533)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	8	0.56
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG21	7	0.56
(3,481)	1:115:A:TYR:HA	1:120:A:LEU:HD22	8	0.56
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	9	0.56
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	17	0.56
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB2	11	0.56
(3,349)	1:29:A:LYS:HD2	1:33:A:GLU:H	2	0.56
(3,305)	1:55:A:ALA:HB3	1:56:A:THR:H	20	0.56
(3,243)	1:29:A:LYS:HG2	1:30:A:LYS:H	1	0.56
(3,165)	1:26:A:ASP:HA	1:29:A:LYS:HD2	8	0.56
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	13	0.56
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	15	0.56
(3,48)	1:59:A:GLY:H	1:88:A:LYS:HG3	5	0.56
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	12	0.56
(3,48)	1:59:A:GLY:H	1:88:A:LYS:HG3	13	0.56
(3,47)	1:88:A:LYS:HG2	1:89:A:THR:H	12	0.56
(3,41)	1:40:A:ILE:HG21	1:43:A:ALA:H	19	0.56
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	3	0.56
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	13	0.56
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	1	0.56
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	4	0.56
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG21	20	0.56
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	20	0.56
(1,1750)	1:96:A:SER:H	1:145:A:ARG:HB3	1	0.56
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	6	0.56
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	8	0.56
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	12	0.56
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	19	0.56
(1,1265)	1:107:A:LEU:HD23	1:124:A:ILE:H	14	0.56
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	6	0.56
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	9	0.56
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	17	0.56
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	3	0.56
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	6	0.56
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	10	0.56
(1,1052)	1:101:A:VAL:HG21	1:102:A:LYS:H	1	0.56
(1,1052)	1:101:A:VAL:HG22	1:102:A:LYS:H	1	0.56
(1,1052)	1:101:A:VAL:HG23	1:102:A:LYS:H	1	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	3	0.56
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	11	0.56
(1,924)	1:74:A:VAL:HG21	1:84:A:ASP:H	5	0.56
(1,912)	1:54:A:LYS:HB3	1:82:A:SER:H	13	0.56
(1,912)	1:54:A:LYS:HB3	1:82:A:SER:H	20	0.56
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	7	0.56
(1,758)	1:68:A:GLU:HG3	1:71:A:LEU:H	4	0.56
(1,697)	1:67:A:LYS:H	1:69:A:LYS:HB3	6	0.56
(1,644)	1:45:A:LYS:HG3	1:62:A:LEU:H	2	0.56
(1,600)	1:59:A:GLY:H	1:60:A:ASP:H	6	0.56
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG13	3	0.56
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG12	15	0.56
(1,563)	1:56:A:THR:H	1:56:A:THR:HG22	6	0.56
(1,563)	1:56:A:THR:H	1:56:A:THR:HG22	11	0.56
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG23	5	0.56
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG11	19	0.56
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	18	0.56
(1,375)	1:35:A:LEU:HD11	1:36:A:ASN:H	20	0.56
(1,342)	1:31:A:VAL:HG22	1:34:A:HIS:H	1	0.56
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD12	7	0.56
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	19	0.56
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG13	11	0.56
(1,246)	1:29:A:LYS:H	1:29:A:LYS:HD3	6	0.56
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB1	5	0.56
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG23	14	0.56
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	17	0.55
(3,2919)	1:126:A:GLU:HA	1:126:A:GLU:HG2	13	0.55
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	6	0.55
(3,2474)	1:107:A:LEU:H	1:144:A:LEU:HD23	19	0.55
(3,2433)	1:8:A:LYS:HB3	1:8:A:LYS:HE2	3	0.55
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG21	2	0.55
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG22	2	0.55
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG23	2	0.55
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG21	2	0.55
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG22	2	0.55
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG23	2	0.55
(3,2346)	1:100:A:THR:HA	1:101:A:VAL:HG22	13	0.55
(3,2344)	1:6:A:PHE:HZ	1:143:A:VAL:HG11	16	0.55
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD22	4	0.55
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	4	0.55
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD11	2	0.55
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD12	12	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	8	0.55
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE3	2	0.55
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	10	0.55
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	10	0.55
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	10	0.55
(3,2182)	1:126:A:GLU:HB2	1:129:A:LYS:HB2	17	0.55
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	16	0.55
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	18	0.55
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	18	0.55
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	10	0.55
(3,2059)	1:130:A:PRO:HG3	1:131:A:MET:H	7	0.55
(3,1944)	1:4:A:PHE:H	1:82:A:SER:HB3	8	0.55
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	11	0.55
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	11	0.55
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	11	0.55
(3,1877)	1:45:A:LYS:HA	1:45:A:LYS:HG3	4	0.55
(3,1877)	1:45:A:LYS:HA	1:45:A:LYS:HG3	18	0.55
(3,1789)	1:3:A:LEU:HD11	1:82:A:SER:HA	2	0.55
(3,1738)	1:14:A:LEU:HD22	1:34:A:HIS:HE1	3	0.55
(3,1738)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	8	0.55
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD13	18	0.55
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD11	20	0.55
(3,1664)	1:105:A:ASP:HB2	1:138:A:ILE:HD11	7	0.55
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD12	10	0.55
(3,1573)	1:40:A:ILE:HD11	1:41:A:PRO:HD2	4	0.55
(3,1558)	1:44:A:ASP:HA	1:46:A:VAL:HG13	11	0.55
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD12	13	0.55
(3,1542)	1:80:A:ILE:HB	1:80:A:ILE:HD13	14	0.55
(3,1538)	1:40:A:ILE:HB	1:40:A:ILE:HD11	3	0.55
(3,1518)	1:146:A:ILE:HD11	1:147:A:PRO:HD3	4	0.55
(3,1495)	1:125:A:PHE:HD2	1:132:A:LEU:HG	11	0.55
(3,1495)	1:125:A:PHE:HD2	1:132:A:LEU:HG	16	0.55
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD13	20	0.55
(3,1478)	1:134:A:SER:H	1:134:A:SER:HB3	11	0.55
(3,1434)	1:107:A:LEU:HD12	1:138:A:ILE:H	14	0.55
(3,1338)	1:72:A:VAL:HG12	1:145:A:ARG:H	20	0.55
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG23	13	0.55
(3,1322)	1:74:A:VAL:HG23	1:75:A:GLY:H	9	0.55
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG12	20	0.55
(3,1294)	1:83:A:VAL:HG12	1:83:A:VAL:HG22	8	0.55
(3,1291)	1:101:A:VAL:HG13	1:110:A:ILE:HB	20	0.55
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	18	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1177)	1:38:A:THR:HB	1:130:A:PRO:HB2	4	0.55
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	4	0.55
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	9	0.55
(3,1057)	1:18:A:VAL:HG12	1:19:A:THR:HA	14	0.55
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	3	0.55
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	3	0.55
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	3	0.55
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	9	0.55
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	9	0.55
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	9	0.55
(3,1025)	1:100:A:THR:HG23	1:102:A:LYS:HE3	19	0.55
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	2	0.55
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	2	0.55
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	2	0.55
(3,1009)	1:118:A:ALA:HB3	1:119:A:ASN:HD21	13	0.55
(3,986)	1:111:A:SER:HB3	1:114:A:VAL:HG23	13	0.55
(3,948)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	1	0.55
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD12	8	0.55
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	17	0.55
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	15	0.55
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	15	0.55
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	6	0.55
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	7	0.55
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	8	0.55
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	8	0.55
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	8	0.55
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG22	13	0.55
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG21	17	0.55
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG22	17	0.55
(3,741)	1:98:A:PHE:HB2	1:143:A:VAL:HG23	17	0.55
(3,738)	1:14:A:LEU:HD22	1:31:A:VAL:HA	1	0.55
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	7	0.55
(3,630)	1:8:A:LYS:HB3	1:9:A:ASP:HB3	13	0.55
(3,555)	1:132:A:LEU:HD21	1:138:A:ILE:HA	2	0.55
(3,555)	1:132:A:LEU:HD22	1:138:A:ILE:HA	2	0.55
(3,555)	1:132:A:LEU:HD23	1:138:A:ILE:HA	2	0.55
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	2	0.55
(3,222)	1:3:A:LEU:H	1:3:A:LEU:HG	4	0.55
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	16	0.55
(3,182)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	19	0.55
(3,94)	1:138:A:ILE:HG21	1:139:A:TYR:H	6	0.55
(3,94)	1:138:A:ILE:HG23	1:139:A:TYR:H	13	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	18	0.55
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	9	0.55
(3,48)	1:59:A:GLY:H	1:88:A:LYS:HG3	10	0.55
(3,48)	1:59:A:GLY:H	1:88:A:LYS:HG3	14	0.55
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	8	0.55
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	11	0.55
(1,2342)	1:86:A:GLN:H	1:86:A:GLN:HE22	12	0.55
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	2	0.55
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	5	0.55
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	6	0.55
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	10	0.55
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	16	0.55
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD21	8	0.55
(1,1788)	1:110:A:ILE:HB	1:115:A:TYR:H	5	0.55
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	5	0.55
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	6	0.55
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	9	0.55
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	11	0.55
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	5	0.55
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	5	0.55
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	5	0.55
(1,1359)	1:129:A:LYS:HG3	1:131:A:MET:H	13	0.55
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	12	0.55
(1,1338)	1:126:A:GLU:HB3	1:129:A:LYS:H	15	0.55
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	5	0.55
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	10	0.55
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	11	0.55
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	3	0.55
(1,1133)	1:112:A:LYS:HG3	1:113:A:GLN:H	6	0.55
(1,1130)	1:112:A:LYS:HE2	1:113:A:GLN:H	4	0.55
(1,1130)	1:113:A:GLN:H	1:115:A:TYR:HB3	17	0.55
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	2	0.55
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	4	0.55
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	8	0.55
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	16	0.55
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG23	20	0.55
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	15	0.55
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	7	0.55
(1,732)	1:40:A:ILE:HG23	1:69:A:LYS:H	9	0.55
(1,673)	1:65:A:GLU:HB2	1:66:A:ALA:H	5	0.55
(1,663)	1:63:A:SER:HB3	1:65:A:GLU:H	4	0.55
(1,637)	1:62:A:LEU:H	1:87:A:VAL:HG13	14	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,579)	1:55:A:ALA:HB3	1:57:A:VAL:H	18	0.55
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG21	20	0.55
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG22	20	0.55
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG23	20	0.55
(1,563)	1:56:A:THR:H	1:56:A:THR:HG23	19	0.55
(1,563)	1:56:A:THR:H	1:56:A:THR:HG23	20	0.55
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB2	14	0.55
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG11	13	0.55
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	13	0.55
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD13	16	0.55
(1,375)	1:35:A:LEU:HD11	1:36:A:ASN:H	7	0.55
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD13	2	0.55
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD11	17	0.55
(1,273)	1:29:A:LYS:HG3	1:31:A:VAL:H	2	0.55
(1,134)	1:12:A:GLU:H	1:38:A:THR:HG21	18	0.55
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG21	19	0.55
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	11	0.54
(3,2512)	1:113:A:GLN:H	1:114:A:VAL:HA	17	0.54
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	16	0.54
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	16	0.54
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	16	0.54
(3,2493)	1:31:A:VAL:HA	1:77:A:ILE:HD12	12	0.54
(3,2487)	1:35:A:LEU:HD23	1:43:A:ALA:HA	4	0.54
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	11	0.54
(3,2463)	1:82:A:SER:HB3	1:84:A:ASP:H	17	0.54
(3,2443)	1:75:A:GLY:H	1:80:A:ILE:HG22	13	0.54
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	9	0.54
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	9	0.54
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	9	0.54
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD13	15	0.54
(3,2344)	1:6:A:PHE:HZ	1:143:A:VAL:HG13	13	0.54
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD22	9	0.54
(3,2275)	1:132:A:LEU:HD22	1:139:A:TYR:HD1	9	0.54
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD12	14	0.54
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD11	20	0.54
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	11	0.54
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB2	4	0.54
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	9	0.54
(3,2160)	1:124:A:ILE:HG23	1:128:A:ASN:H	16	0.54
(3,2160)	1:124:A:ILE:HG21	1:128:A:ASN:H	17	0.54
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	20	0.54
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD22	8	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2087)	1:101:A:VAL:HG12	1:110:A:ILE:HG21	2	0.54
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB3	15	0.54
(3,2006)	1:112:A:LYS:HE2	1:118:A:ALA:HB2	14	0.54
(3,1946)	1:12:A:GLU:HG2	1:14:A:LEU:HG	3	0.54
(3,1882)	1:63:A:SER:HB3	1:64:A:GLN:HB3	7	0.54
(3,1882)	1:63:A:SER:HB3	1:65:A:GLU:HB2	9	0.54
(3,1787)	1:107:A:LEU:HD12	1:111:A:SER:HB3	16	0.54
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG22	16	0.54
(3,1693)	1:40:A:ILE:HG22	1:70:A:ILE:H	13	0.54
(3,1585)	1:115:A:TYR:HE2	1:123:A:LYS:HB2	14	0.54
(3,1518)	1:146:A:ILE:HD11	1:147:A:PRO:HD3	7	0.54
(3,1518)	1:146:A:ILE:HD11	1:147:A:PRO:HD3	8	0.54
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD11	17	0.54
(3,1478)	1:134:A:SER:H	1:134:A:SER:HB3	4	0.54
(3,1478)	1:134:A:SER:H	1:134:A:SER:HB3	8	0.54
(3,1464)	1:142:A:GLN:HB3	1:144:A:LEU:H	5	0.54
(3,1436)	1:132:A:LEU:HD12	1:138:A:ILE:HA	11	0.54
(3,1423)	1:46:A:VAL:HG22	1:47:A:ASN:HB2	11	0.54
(3,1423)	1:46:A:VAL:HG22	1:47:A:ASN:HB2	20	0.54
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	7	0.54
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG13	19	0.54
(3,1294)	1:31:A:VAL:HG13	1:35:A:LEU:HD11	3	0.54
(3,1292)	1:120:A:LEU:HD13	1:123:A:LYS:HD3	7	0.54
(3,1281)	1:71:A:LEU:HA	1:83:A:VAL:HG22	9	0.54
(3,1229)	1:28:A:ALA:HB1	1:48:A:ILE:HG22	1	0.54
(3,1229)	1:28:A:ALA:HB2	1:48:A:ILE:HG23	7	0.54
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	2	0.54
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	2	0.54
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	2	0.54
(3,1177)	1:38:A:THR:HB	1:130:A:PRO:HB2	20	0.54
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB2	20	0.54
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	18	0.54
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	11	0.54
(3,1057)	1:18:A:VAL:HG11	1:19:A:THR:HA	19	0.54
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG12	5	0.54
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	15	0.54
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	15	0.54
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	15	0.54
(3,990)	1:113:A:GLN:HB3	1:114:A:VAL:HG21	7	0.54
(3,983)	1:126:A:GLU:HA	1:126:A:GLU:HG2	13	0.54
(3,949)	1:107:A:LEU:HD13	1:125:A:PHE:HB2	6	0.54
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD11	13	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	4	0.54
(3,917)	1:133:A:LYS:H	1:137:A:LYS:HB2	20	0.54
(3,891)	1:129:A:LYS:HA	1:132:A:LEU:HB2	15	0.54
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG23	4	0.54
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB1	1	0.54
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB2	1	0.54
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB3	1	0.54
(3,820)	1:52:A:ASP:HB3	1:53:A:GLY:H	18	0.54
(3,807)	1:72:A:VAL:HG12	1:73:A:ALA:HA	13	0.54
(3,797)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	1	0.54
(3,797)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	8	0.54
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	11	0.54
(3,738)	1:14:A:LEU:HD21	1:31:A:VAL:HA	3	0.54
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	13	0.54
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	13	0.54
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	13	0.54
(3,677)	1:105:A:ASP:HB2	1:109:A:ALA:HB2	13	0.54
(3,623)	1:107:A:LEU:HB3	1:107:A:LEU:HD12	13	0.54
(3,555)	1:132:A:LEU:HD21	1:138:A:ILE:HA	5	0.54
(3,555)	1:132:A:LEU:HD22	1:138:A:ILE:HA	5	0.54
(3,555)	1:132:A:LEU:HD23	1:138:A:ILE:HA	5	0.54
(3,544)	1:107:A:LEU:HD21	1:121:A:TYR:HB2	18	0.54
(3,533)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	20	0.54
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	3	0.54
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	4	0.54
(3,502)	1:6:A:PHE:HE2	1:71:A:LEU:HB3	15	0.54
(3,502)	1:6:A:PHE:HE1	1:71:A:LEU:HB3	20	0.54
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD21	12	0.54
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	14	0.54
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	19	0.54
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG21	8	0.54
(3,430)	1:99:A:TYR:HD2	1:114:A:VAL:HG21	14	0.54
(3,416)	1:131:A:MET:HE3	1:144:A:LEU:HD11	16	0.54
(3,361)	1:20:A:GLY:H	1:21:A:GLN:HB3	7	0.54
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB3	10	0.54
(3,316)	1:61:A:GLY:H	1:62:A:LEU:HG	2	0.54
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB3	4	0.54
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB1	17	0.54
(3,243)	1:112:A:LYS:H	1:112:A:LYS:HG3	9	0.54
(3,229)	1:18:A:VAL:HG13	1:19:A:THR:H	5	0.54
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD21	12	0.54
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD22	12	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD23	12	0.54
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD21	13	0.54
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD22	13	0.54
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD23	13	0.54
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	8	0.54
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	16	0.54
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	18	0.54
(3,125)	1:100:A:THR:HG23	1:142:A:GLN:H	2	0.54
(3,125)	1:100:A:THR:HG21	1:142:A:GLN:H	18	0.54
(3,94)	1:138:A:ILE:HG21	1:139:A:TYR:H	3	0.54
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	11	0.54
(3,47)	1:88:A:LYS:HG2	1:89:A:THR:H	19	0.54
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	15	0.54
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	17	0.54
(1,2481)	1:119:A:ASN:H	1:119:A:ASN:HD22	7	0.54
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	11	0.54
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	18	0.54
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	19	0.54
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	20	0.54
(1,1898)	1:110:A:ILE:HG13	1:113:A:GLN:HE21	11	0.54
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	7	0.54
(1,1751)	1:96:A:SER:H	1:145:A:ARG:HG2	14	0.54
(1,1751)	1:96:A:SER:H	1:145:A:ARG:HG2	19	0.54
(1,1613)	1:64:A:GLN:HE22	1:67:A:LYS:HE3	19	0.54
(1,1613)	1:64:A:GLN:HE22	1:67:A:LYS:HE2	19	0.54
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	16	0.54
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HB3	4	0.54
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	11	0.54
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	10	0.54
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	13	0.54
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	13	0.54
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	13	0.54
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	14	0.54
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	14	0.54
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	14	0.54
(1,1296)	1:126:A:GLU:HB2	1:127:A:ALA:H	17	0.54
(1,1283)	1:124:A:ILE:HG21	1:126:A:GLU:H	2	0.54
(1,1283)	1:107:A:LEU:HD22	1:126:A:GLU:H	7	0.54
(1,1283)	1:124:A:ILE:HG21	1:126:A:GLU:H	11	0.54
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	7	0.54
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	8	0.54
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	14	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1246)	1:107:A:LEU:HD21	1:123:A:LYS:H	2	0.54
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	11	0.54
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	17	0.54
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	19	0.54
(1,1050)	1:101:A:VAL:HG13	1:102:A:LYS:H	20	0.54
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	12	0.54
(1,842)	1:77:A:ILE:H	1:143:A:VAL:HB	19	0.54
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE2	10	0.54
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	19	0.54
(1,663)	1:63:A:SER:HB3	1:65:A:GLU:H	18	0.54
(1,630)	1:61:A:GLY:H	1:88:A:LYS:HG2	15	0.54
(1,614)	1:56:A:THR:HG21	1:59:A:GLY:H	15	0.54
(1,590)	1:48:A:ILE:HG13	1:58:A:THR:H	8	0.54
(1,590)	1:48:A:ILE:HG13	1:58:A:THR:H	16	0.54
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG12	14	0.54
(1,583)	1:57:A:VAL:H	1:57:A:VAL:HG12	16	0.54
(1,563)	1:56:A:THR:H	1:56:A:THR:HG21	4	0.54
(1,563)	1:56:A:THR:H	1:56:A:THR:HG22	9	0.54
(1,563)	1:56:A:THR:H	1:56:A:THR:HG23	10	0.54
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG21	16	0.54
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB1	20	0.54
(1,375)	1:35:A:LEU:HD13	1:36:A:ASN:H	3	0.54
(1,375)	1:35:A:LEU:HD12	1:36:A:ASN:H	19	0.54
(1,342)	1:31:A:VAL:HG23	1:34:A:HIS:H	14	0.54
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	17	0.54
(1,302)	1:129:A:LYS:HG3	1:132:A:LEU:H	14	0.54
(1,290)	1:30:A:LYS:HB3	1:32:A:GLN:H	17	0.54
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG21	15	0.54
(1,212)	1:22:A:HIS:HB3	1:25:A:ASP:H	10	0.54
(1,141)	1:12:A:GLU:H	1:142:A:GLN:HG2	16	0.54
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG23	20	0.54
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	18	0.53
(3,2867)	1:46:A:VAL:HB	1:47:A:ASN:H	11	0.53
(3,2726)	1:56:A:THR:HG21	1:86:A:GLN:HE22	12	0.53
(3,2726)	1:56:A:THR:HG22	1:86:A:GLN:HE22	12	0.53
(3,2726)	1:56:A:THR:HG23	1:86:A:GLN:HE22	12	0.53
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG22	10	0.53
(3,2497)	1:56:A:THR:HG22	1:58:A:THR:H	7	0.53
(3,2484)	1:53:A:GLY:HA3	1:80:A:ILE:HA	18	0.53
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB1	1	0.53
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB2	5	0.53
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB3	7	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2356)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	5	0.53
(3,2346)	1:100:A:THR:HA	1:101:A:VAL:HG21	6	0.53
(3,2344)	1:6:A:PHE:HZ	1:143:A:VAL:HG11	17	0.53
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD22	15	0.53
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD21	18	0.53
(3,2293)	1:94:A:THR:H	1:94:A:THR:HG23	10	0.53
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	17	0.53
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	5	0.53
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	11	0.53
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	1	0.53
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	13	0.53
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD13	13	0.53
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD11	6	0.53
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	16	0.53
(3,2245)	1:135:A:PRO:HA	1:135:A:PRO:HG3	16	0.53
(3,2135)	1:122:A:ASN:HB3	1:125:A:PHE:H	13	0.53
(3,2130)	1:122:A:ASN:HB2	1:125:A:PHE:HD1	16	0.53
(3,2129)	1:122:A:ASN:HB2	1:125:A:PHE:HD1	16	0.53
(3,2120)	1:132:A:LEU:HD13	1:139:A:TYR:HE1	2	0.53
(3,2120)	1:132:A:LEU:HD23	1:139:A:TYR:HE1	16	0.53
(3,2114)	1:27:A:GLN:HA	1:30:A:LYS:HA	17	0.53
(3,2059)	1:130:A:PRO:HG3	1:131:A:MET:H	6	0.53
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	19	0.53
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG23	9	0.53
(3,1984)	1:38:A:THR:HG22	1:131:A:MET:HG2	5	0.53
(3,1928)	1:77:A:ILE:HD11	1:78:A:SER:H	7	0.53
(3,1928)	1:77:A:ILE:HD11	1:78:A:SER:H	16	0.53
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	6	0.53
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	6	0.53
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	6	0.53
(3,1789)	1:3:A:LEU:HD13	1:82:A:SER:HA	6	0.53
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	19	0.53
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	19	0.53
(3,1752)	1:14:A:LEU:HD21	1:30:A:LYS:HB2	3	0.53
(3,1709)	1:110:A:ILE:HG13	1:124:A:ILE:HD12	15	0.53
(3,1693)	1:40:A:ILE:HG22	1:70:A:ILE:H	14	0.53
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD12	17	0.53
(3,1606)	1:17:A:ALA:HB3	1:79:A:GLY:HA3	16	0.53
(3,1539)	1:40:A:ILE:HD11	1:73:A:ALA:HB3	12	0.53
(3,1539)	1:40:A:ILE:HD11	1:73:A:ALA:HB3	15	0.53
(3,1518)	1:146:A:ILE:HD11	1:147:A:PRO:HD3	16	0.53
(3,1478)	1:134:A:SER:H	1:134:A:SER:HB3	9	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	18	0.53
(3,1437)	1:62:A:LEU:HD12	1:89:A:THR:HA	11	0.53
(3,1426)	1:62:A:LEU:HD21	1:66:A:ALA:HB3	11	0.53
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	12	0.53
(3,1388)	1:37:A:LYS:HA	1:39:A:GLY:H	13	0.53
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG11	4	0.53
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG21	3	0.53
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG21	5	0.53
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG22	5	0.53
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG23	5	0.53
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG21	6	0.53
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG22	6	0.53
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG23	6	0.53
(3,1234)	1:29:A:LYS:HA	1:29:A:LYS:HD3	3	0.53
(3,1232)	1:28:A:ALA:HB1	1:29:A:LYS:HB2	11	0.53
(3,1229)	1:28:A:ALA:HB3	1:48:A:ILE:HG22	3	0.53
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	6	0.53
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB1	20	0.53
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG12	1	0.53
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG11	3	0.53
(3,1005)	1:114:A:VAL:HG22	1:115:A:TYR:HE2	2	0.53
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	19	0.53
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	19	0.53
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	19	0.53
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	10	0.53
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	19	0.53
(3,853)	1:10:A:ALA:HB1	1:11:A:GLY:HA3	18	0.53
(3,772)	1:30:A:LYS:H	1:30:A:LYS:HB3	18	0.53
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	14	0.53
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	14	0.53
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	14	0.53
(3,738)	1:14:A:LEU:HD23	1:31:A:VAL:HA	15	0.53
(3,556)	1:3:A:LEU:HD11	1:54:A:LYS:HA	4	0.53
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG23	19	0.53
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	18	0.53
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	11	0.53
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB3	16	0.53
(3,361)	1:18:A:VAL:H	1:21:A:GLN:HB3	16	0.53
(3,349)	1:88:A:LYS:H	1:88:A:LYS:HD2	11	0.53
(3,272)	1:65:A:GLU:HA	1:93:A:ALA:HB2	12	0.53
(3,221)	1:150:A:LEU:HD13	1:151:A:GLU:H	16	0.53
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	2	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	5	0.53
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD13	4	0.53
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	2	0.53
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	2	0.53
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	14	0.53
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	20	0.53
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	13	0.53
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	14	0.53
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	17	0.53
(1,1898)	1:110:A:ILE:HG13	1:113:A:GLN:HE21	16	0.53
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	3	0.53
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	18	0.53
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	3	0.53
(1,1282)	1:126:A:GLU:H	1:132:A:LEU:HD11	7	0.53
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	16	0.53
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	3	0.53
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	7	0.53
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	11	0.53
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	12	0.53
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	16	0.53
(1,1110)	1:110:A:ILE:HB	1:111:A:SER:H	9	0.53
(1,1096)	1:101:A:VAL:HG13	1:110:A:ILE:H	14	0.53
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	7	0.53
(1,966)	1:87:A:VAL:HG12	1:88:A:LYS:H	11	0.53
(1,945)	1:57:A:VAL:HG11	1:86:A:GLN:H	6	0.53
(1,912)	1:54:A:LYS:HB3	1:82:A:SER:H	8	0.53
(1,912)	1:54:A:LYS:HD3	1:82:A:SER:H	10	0.53
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	17	0.53
(1,657)	1:62:A:LEU:HD12	1:63:A:SER:H	19	0.53
(1,563)	1:56:A:THR:H	1:56:A:THR:HG21	2	0.53
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG13	19	0.53
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	15	0.53
(1,297)	1:31:A:VAL:HG11	1:32:A:GLN:H	6	0.53
(1,297)	1:31:A:VAL:HG12	1:32:A:GLN:H	10	0.53
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG13	16	0.53
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG12	17	0.53
(1,265)	1:30:A:LYS:H	1:30:A:LYS:HG2	19	0.53
(1,249)	1:25:A:ASP:HB3	1:29:A:LYS:H	6	0.53
(1,249)	1:25:A:ASP:HB2	1:29:A:LYS:H	8	0.53
(1,134)	1:12:A:GLU:H	1:14:A:LEU:HG	20	0.53
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	10	0.53
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB1	9	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,83)	1:6:A:PHE:H	1:98:A:PHE:HB3	18	0.53
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	8	0.52
(3,2919)	1:126:A:GLU:HA	1:126:A:GLU:HG2	17	0.52
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	14	0.52
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG22	3	0.52
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG13	5	0.52
(3,2484)	1:53:A:GLY:HA3	1:80:A:ILE:HA	6	0.52
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB3	20	0.52
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	3	0.52
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	3	0.52
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	3	0.52
(3,2415)	1:70:A:ILE:H	1:71:A:LEU:HD11	8	0.52
(3,2363)	1:50:A:ILE:HG21	1:52:A:ASP:HB3	12	0.52
(3,2356)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	14	0.52
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	20	0.52
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD13	19	0.52
(3,2259)	1:117:A:ASN:HB2	1:156:A:HIS:HB2	20	0.52
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	6	0.52
(3,2193)	1:3:A:LEU:HD22	1:85:A:ASP:H	16	0.52
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB3	10	0.52
(3,2164)	1:80:A:ILE:HG23	1:83:A:VAL:HA	3	0.52
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD12	9	0.52
(3,2114)	1:27:A:GLN:HA	1:30:A:LYS:HA	5	0.52
(3,2067)	1:57:A:VAL:HG21	1:71:A:LEU:HA	9	0.52
(3,2067)	1:57:A:VAL:HG22	1:71:A:LEU:HA	9	0.52
(3,2067)	1:57:A:VAL:HG23	1:71:A:LEU:HA	9	0.52
(3,1997)	1:58:A:THR:HG22	1:88:A:LYS:HE3	15	0.52
(3,1967)	1:87:A:VAL:HA	1:87:A:VAL:HG13	1	0.52
(3,1956)	1:72:A:VAL:HG11	1:128:A:ASN:HA	3	0.52
(3,1956)	1:72:A:VAL:HG12	1:128:A:ASN:HA	18	0.52
(3,1944)	1:55:A:ALA:H	1:82:A:SER:HB3	14	0.52
(3,1851)	1:3:A:LEU:HG	1:82:A:SER:HB3	2	0.52
(3,1746)	1:58:A:THR:HG23	1:86:A:GLN:HG3	13	0.52
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	6	0.52
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	6	0.52
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD11	20	0.52
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD12	20	0.52
(3,1663)	1:32:A:GLN:HG2	1:48:A:ILE:HD13	20	0.52
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD11	2	0.52
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD13	16	0.52
(3,1573)	1:40:A:ILE:HD13	1:41:A:PRO:HD2	1	0.52
(3,1556)	1:48:A:ILE:HG23	1:55:A:ALA:HB2	12	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1518)	1:146:A:ILE:HD11	1:147:A:PRO:HD3	19	0.52
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	8	0.52
(3,1478)	1:134:A:SER:H	1:134:A:SER:HB3	12	0.52
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	2	0.52
(3,1437)	1:62:A:LEU:HD11	1:89:A:THR:HA	20	0.52
(3,1426)	1:62:A:LEU:HD22	1:66:A:ALA:HB2	5	0.52
(3,1421)	1:24:A:LYS:HA	1:50:A:ILE:HB	16	0.52
(3,1402)	1:106:A:THR:HA	1:138:A:ILE:HG13	6	0.52
(3,1398)	1:68:A:GLU:HG3	1:95:A:ALA:HB1	5	0.52
(3,1292)	1:120:A:LEU:HD11	1:123:A:LYS:HD3	1	0.52
(3,1292)	1:120:A:LEU:HD12	1:123:A:LYS:HD3	19	0.52
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG21	9	0.52
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG22	9	0.52
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG23	9	0.52
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG21	10	0.52
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG22	10	0.52
(3,1266)	1:31:A:VAL:HA	1:31:A:VAL:HG23	10	0.52
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	19	0.52
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	19	0.52
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	19	0.52
(3,1223)	1:25:A:ASP:HB3	1:28:A:ALA:HB1	4	0.52
(3,988)	1:114:A:VAL:HG21	1:115:A:TYR:HB3	10	0.52
(3,988)	1:114:A:VAL:HG23	1:115:A:TYR:HB3	14	0.52
(3,954)	1:14:A:LEU:HD11	1:31:A:VAL:HA	13	0.52
(3,954)	1:14:A:LEU:HD12	1:31:A:VAL:HA	13	0.52
(3,954)	1:14:A:LEU:HD13	1:31:A:VAL:HA	13	0.52
(3,941)	1:107:A:LEU:HD11	1:125:A:PHE:HD2	3	0.52
(3,926)	1:35:A:LEU:HD23	1:43:A:ALA:HA	4	0.52
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	6	0.52
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	8	0.52
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	9	0.52
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	11	0.52
(3,917)	1:64:A:GLN:H	1:64:A:GLN:HG2	17	0.52
(3,906)	1:120:A:LEU:HD23	1:123:A:LYS:HE2	10	0.52
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD21	11	0.52
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	11	0.52
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	11	0.52
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD21	11	0.52
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	11	0.52
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	11	0.52
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB1	17	0.52
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB2	17	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB3	17	0.52
(3,809)	1:73:A:ALA:HA	1:131:A:MET:HG2	20	0.52
(3,797)	1:8:A:LYS:HG2	1:9:A:ASP:HB2	14	0.52
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	9	0.52
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	4	0.52
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG21	4	0.52
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	4	0.52
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	4	0.52
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	4	0.52
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	12	0.52
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	12	0.52
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	12	0.52
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	20	0.52
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	20	0.52
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	20	0.52
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD13	9	0.52
(3,715)	1:128:A:ASN:HA	1:144:A:LEU:HD12	19	0.52
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG21	9	0.52
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	8	0.52
(3,630)	1:135:A:PRO:HB2	1:136:A:ASP:HB2	20	0.52
(3,556)	1:3:A:LEU:HD13	1:54:A:LYS:HA	15	0.52
(3,543)	1:107:A:LEU:HD22	1:125:A:PHE:HB2	17	0.52
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG22	9	0.52
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	5	0.52
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	18	0.52
(3,420)	1:131:A:MET:HE3	1:132:A:LEU:HD12	16	0.52
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB2	14	0.52
(3,273)	1:64:A:GLN:HG3	1:93:A:ALA:HB1	13	0.52
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB2	16	0.52
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	20	0.52
(3,94)	1:138:A:ILE:HG23	1:139:A:TYR:H	14	0.52
(3,94)	1:138:A:ILE:HG21	1:139:A:TYR:H	15	0.52
(3,94)	1:138:A:ILE:HG23	1:139:A:TYR:H	16	0.52
(3,47)	1:88:A:LYS:HG2	1:89:A:THR:H	14	0.52
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	9	0.52
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	16	0.52
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	9	0.52
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	15	0.52
(1,1824)	1:32:A:GLN:HE22	1:43:A:ALA:HB1	6	0.52
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	5	0.52
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	9	0.52
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	5	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	5	0.52
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	5	0.52
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	6	0.52
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	6	0.52
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	6	0.52
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	11	0.52
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	11	0.52
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	11	0.52
(1,1313)	1:125:A:PHE:HD2	1:128:A:ASN:H	20	0.52
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	19	0.52
(1,1282)	1:107:A:LEU:HD13	1:126:A:GLU:H	17	0.52
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	1	0.52
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	15	0.52
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	18	0.52
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	13	0.52
(1,912)	1:54:A:LYS:HB3	1:82:A:SER:H	9	0.52
(1,875)	1:8:A:LYS:HG2	1:79:A:GLY:H	8	0.52
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	5	0.52
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	17	0.52
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	19	0.52
(1,804)	1:35:A:LEU:HD23	1:74:A:VAL:H	12	0.52
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE1	20	0.52
(1,694)	1:67:A:LYS:H	1:87:A:VAL:HB	18	0.52
(1,678)	1:66:A:ALA:H	1:67:A:LYS:HB2	13	0.52
(1,630)	1:61:A:GLY:H	1:88:A:LYS:HG2	3	0.52
(1,614)	1:59:A:GLY:H	1:67:A:LYS:HG3	13	0.52
(1,583)	1:57:A:VAL:H	1:57:A:VAL:HG11	17	0.52
(1,579)	1:55:A:ALA:HB3	1:57:A:VAL:H	11	0.52
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG21	4	0.52
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG22	4	0.52
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG23	4	0.52
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG21	8	0.52
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG22	8	0.52
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG23	8	0.52
(1,563)	1:56:A:THR:H	1:56:A:THR:HG21	3	0.52
(1,563)	1:56:A:THR:H	1:56:A:THR:HG22	12	0.52
(1,563)	1:56:A:THR:H	1:56:A:THR:HG23	13	0.52
(1,541)	1:54:A:LYS:H	1:80:A:ILE:HD13	6	0.52
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB1	9	0.52
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB1	12	0.52
(1,525)	1:24:A:LYS:HG2	1:51:A:ALA:H	18	0.52
(1,342)	1:31:A:VAL:HG22	1:34:A:HIS:H	7	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,342)	1:31:A:VAL:HG22	1:34:A:HIS:H	16	0.52
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD12	20	0.52
(1,269)	1:30:A:LYS:H	1:48:A:ILE:HG22	15	0.52
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG12	4	0.52
(1,249)	1:26:A:ASP:HB3	1:29:A:LYS:H	9	0.52
(1,246)	1:29:A:LYS:H	1:29:A:LYS:HD3	3	0.52
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD12	4	0.52
(1,184)	1:13:A:LYS:HE3	1:15:A:TRP:H	6	0.52
(1,134)	1:12:A:GLU:H	1:14:A:LEU:HG	6	0.52
(1,134)	1:12:A:GLU:H	1:14:A:LEU:HG	14	0.52
(1,119)	1:8:A:LYS:HD3	1:10:A:ALA:H	4	0.52
(1,83)	1:6:A:PHE:H	1:98:A:PHE:HB3	14	0.52
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	20	0.51
(3,2512)	1:97:A:GLN:HE21	1:114:A:VAL:HA	13	0.51
(3,2510)	1:110:A:ILE:HD11	1:114:A:VAL:HG11	16	0.51
(3,2470)	1:147:A:PRO:HG2	1:148:A:GLU:H	15	0.51
(3,2463)	1:82:A:SER:HB3	1:84:A:ASP:H	13	0.51
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB1	6	0.51
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	1	0.51
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	3	0.51
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	5	0.51
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	8	0.51
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	9	0.51
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	10	0.51
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	11	0.51
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	12	0.51
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	13	0.51
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	16	0.51
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	17	0.51
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	19	0.51
(3,2346)	1:100:A:THR:HA	1:101:A:VAL:HG23	4	0.51
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD2	19	0.51
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD21	1	0.51
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD11	10	0.51
(3,2269)	1:53:A:GLY:HA3	1:80:A:ILE:HG22	4	0.51
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD11	4	0.51
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD12	11	0.51
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	10	0.51
(3,2248)	1:106:A:THR:HB	1:135:A:PRO:HA	15	0.51
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	20	0.51
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE1	1	0.51
(3,2187)	1:26:A:ASP:HB3	1:29:A:LYS:HB3	19	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2164)	1:80:A:ILE:HG21	1:83:A:VAL:HA	1	0.51
(3,2164)	1:80:A:ILE:HG23	1:83:A:VAL:HA	17	0.51
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	14	0.51
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	10	0.51
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	11	0.51
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	3	0.51
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD2	9	0.51
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG23	4	0.51
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG13	3	0.51
(3,2002)	1:55:A:ALA:H	1:83:A:VAL:HG12	13	0.51
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD21	5	0.51
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD22	5	0.51
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD23	5	0.51
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD21	8	0.51
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD22	8	0.51
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD23	8	0.51
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD21	15	0.51
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD22	15	0.51
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD23	15	0.51
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG22	11	0.51
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG23	15	0.51
(3,1979)	1:86:A:GLN:H	1:87:A:VAL:HG11	14	0.51
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	16	0.51
(3,1957)	1:128:A:ASN:HA	1:145:A:ARG:HB2	17	0.51
(3,1944)	1:55:A:ALA:H	1:82:A:SER:HB3	18	0.51
(3,1928)	1:77:A:ILE:HD13	1:78:A:SER:H	15	0.51
(3,1920)	1:77:A:ILE:HG22	1:80:A:ILE:HG13	2	0.51
(3,1919)	1:14:A:LEU:HB2	1:77:A:ILE:HG22	6	0.51
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	4	0.51
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	4	0.51
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	4	0.51
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	18	0.51
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	18	0.51
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	18	0.51
(3,1860)	1:66:A:ALA:HB1	1:70:A:ILE:HD13	12	0.51
(3,1848)	1:54:A:LYS:HD2	1:82:A:SER:HB2	7	0.51
(3,1789)	1:3:A:LEU:HD12	1:82:A:SER:HA	19	0.51
(3,1752)	1:14:A:LEU:HD21	1:30:A:LYS:HB2	10	0.51
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG11	7	0.51
(3,1693)	1:40:A:ILE:HG22	1:70:A:ILE:H	2	0.51
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD11	4	0.51
(3,1556)	1:48:A:ILE:HG21	1:55:A:ALA:HB1	1	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1518)	1:146:A:ILE:HD13	1:147:A:PRO:HD3	14	0.51
(3,1496)	1:99:A:TYR:HE1	1:110:A:ILE:HG13	13	0.51
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD12	8	0.51
(3,1478)	1:134:A:SER:H	1:134:A:SER:HB3	1	0.51
(3,1478)	1:134:A:SER:H	1:134:A:SER:HB3	17	0.51
(3,1478)	1:134:A:SER:H	1:134:A:SER:HB3	19	0.51
(3,1374)	1:32:A:GLN:HG3	1:48:A:ILE:H	8	0.51
(3,1325)	1:99:A:TYR:HE1	1:101:A:VAL:HG23	18	0.51
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG21	16	0.51
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG23	18	0.51
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG13	5	0.51
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	5	0.51
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	5	0.51
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	5	0.51
(3,1272)	1:101:A:VAL:HG11	1:142:A:GLN:HB2	11	0.51
(3,1272)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	11	0.51
(3,1272)	1:101:A:VAL:HG13	1:142:A:GLN:HB2	11	0.51
(3,1260)	1:14:A:LEU:HD11	1:31:A:VAL:HA	13	0.51
(3,1260)	1:14:A:LEU:HD12	1:31:A:VAL:HA	13	0.51
(3,1260)	1:14:A:LEU:HD13	1:31:A:VAL:HA	13	0.51
(3,1229)	1:28:A:ALA:HB2	1:48:A:ILE:HG22	13	0.51
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	16	0.51
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	16	0.51
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	16	0.51
(3,1223)	1:25:A:ASP:HB2	1:28:A:ALA:HB2	5	0.51
(3,1132)	1:24:A:LYS:HA	1:25:A:ASP:HA	10	0.51
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	9	0.51
(3,1062)	1:13:A:LYS:HD3	1:78:A:SER:HB2	5	0.51
(3,1057)	1:18:A:VAL:HG11	1:19:A:THR:HA	6	0.51
(3,1005)	1:114:A:VAL:HG23	1:115:A:TYR:HE2	6	0.51
(3,988)	1:114:A:VAL:HG21	1:115:A:TYR:HB3	12	0.51
(3,983)	1:126:A:GLU:HA	1:126:A:GLU:HG2	17	0.51
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	16	0.51
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD11	7	0.51
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	20	0.51
(3,820)	1:52:A:ASP:HB3	1:53:A:GLY:H	15	0.51
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	15	0.51
(3,753)	1:132:A:LEU:HG	1:144:A:LEU:HD12	16	0.51
(3,738)	1:14:A:LEU:HD22	1:31:A:VAL:HA	4	0.51
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	14	0.51
(3,659)	1:129:A:LYS:HE2	1:130:A:PRO:HA	10	0.51
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	9	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,636)	1:6:A:PHE:HD1	1:80:A:ILE:HG21	12	0.51
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	14	0.51
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	14	0.51
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	14	0.51
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	14	0.51
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	14	0.51
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	14	0.51
(3,563)	1:107:A:LEU:HD22	1:125:A:PHE:H	7	0.51
(3,559)	1:3:A:LEU:HD12	1:82:A:SER:HB2	17	0.51
(3,556)	1:3:A:LEU:HD12	1:54:A:LYS:HA	17	0.51
(3,514)	1:125:A:PHE:HE2	1:132:A:LEU:HG	12	0.51
(3,514)	1:125:A:PHE:HE2	1:132:A:LEU:HG	16	0.51
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	20	0.51
(3,502)	1:6:A:PHE:HE2	1:71:A:LEU:HB3	1	0.51
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	5	0.51
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	7	0.51
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	15	0.51
(3,361)	1:21:A:GLN:HB3	1:23:A:ASP:H	4	0.51
(3,361)	1:21:A:GLN:HB3	1:23:A:ASP:H	12	0.51
(3,349)	1:88:A:LYS:H	1:88:A:LYS:HD2	5	0.51
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB1	2	0.51
(3,317)	1:67:A:LYS:HA	1:67:A:LYS:HE2	18	0.51
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	4	0.51
(3,238)	1:29:A:LYS:HA	1:29:A:LYS:HD2	14	0.51
(3,234)	1:45:A:LYS:H	1:45:A:LYS:HE3	17	0.51
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD21	18	0.51
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD22	18	0.51
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD23	18	0.51
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD21	19	0.51
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD22	19	0.51
(3,226)	1:14:A:LEU:H	1:14:A:LEU:HD23	19	0.51
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	3	0.51
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	12	0.51
(3,94)	1:138:A:ILE:HG23	1:139:A:TYR:H	2	0.51
(3,72)	1:31:A:VAL:H	1:50:A:ILE:HG13	8	0.51
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	7	0.51
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	1	0.51
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	6	0.51
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	18	0.51
(1,1898)	1:110:A:ILE:HG13	1:113:A:GLN:HE21	3	0.51
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	17	0.51
(1,1768)	1:99:A:TYR:H	1:144:A:LEU:HB3	6	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	7	0.51
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HG	1	0.51
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	9	0.51
(1,1558)	1:148:A:GLU:HB2	1:149:A:GLU:H	15	0.51
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	9	0.51
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	9	0.51
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	9	0.51
(1,1338)	1:126:A:GLU:HB2	1:129:A:LYS:H	10	0.51
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD12	4	0.51
(1,1283)	1:124:A:ILE:HG21	1:126:A:GLU:H	19	0.51
(1,1280)	1:126:A:GLU:H	1:135:A:PRO:HB3	12	0.51
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG21	16	0.51
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	2	0.51
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	6	0.51
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	2	0.51
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE3	18	0.51
(1,723)	1:69:A:LYS:H	1:69:A:LYS:HE2	10	0.51
(1,712)	1:68:A:GLU:H	1:145:A:ARG:HD3	1	0.51
(1,697)	1:67:A:LYS:H	1:69:A:LYS:HB3	3	0.51
(1,678)	1:66:A:ALA:H	1:67:A:LYS:HB2	8	0.51
(1,671)	1:62:A:LEU:HD23	1:66:A:ALA:H	6	0.51
(1,663)	1:63:A:SER:HB3	1:65:A:GLU:H	12	0.51
(1,630)	1:61:A:GLY:H	1:62:A:LEU:HG	1	0.51
(1,588)	1:58:A:THR:H	1:83:A:VAL:HG12	5	0.51
(1,579)	1:55:A:ALA:HB3	1:57:A:VAL:H	20	0.51
(1,563)	1:56:A:THR:H	1:56:A:THR:HG21	16	0.51
(1,563)	1:56:A:THR:H	1:56:A:THR:HG21	17	0.51
(1,563)	1:56:A:THR:H	1:56:A:THR:HG21	18	0.51
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG13	18	0.51
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	15	0.51
(1,307)	1:33:A:GLU:H	1:35:A:LEU:HG	6	0.51
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD11	6	0.51
(1,297)	1:31:A:VAL:HG11	1:32:A:GLN:H	9	0.51
(1,265)	1:30:A:LYS:H	1:30:A:LYS:HG2	17	0.51
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG23	11	0.51
(3,2867)	1:46:A:VAL:HB	1:47:A:ASN:H	14	0.5
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	19	0.5
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	20	0.5
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG22	6	0.5
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG12	11	0.5
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	7	0.5
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	14	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	18	0.5
(3,2425)	1:44:A:ASP:HA	1:44:A:ASP:HB3	20	0.5
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD2	6	0.5
(3,2321)	1:40:A:ILE:HD13	1:131:A:MET:HG2	13	0.5
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD23	8	0.5
(3,2295)	1:94:A:THR:HG22	1:148:A:GLU:H	3	0.5
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD23	5	0.5
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD12	12	0.5
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD11	9	0.5
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	1	0.5
(3,2238)	1:107:A:LEU:HD13	1:135:A:PRO:HD2	19	0.5
(3,2193)	1:3:A:LEU:HD11	1:85:A:ASP:H	8	0.5
(3,2193)	1:3:A:LEU:HD13	1:85:A:ASP:H	12	0.5
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	8	0.5
(3,2171)	1:125:A:PHE:HB3	1:126:A:GLU:HB2	4	0.5
(3,2164)	1:80:A:ILE:HG21	1:83:A:VAL:HA	15	0.5
(3,2124)	1:115:A:TYR:HA	1:149:A:GLU:HB3	14	0.5
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG22	1	0.5
(3,2067)	1:57:A:VAL:HG21	1:71:A:LEU:HA	2	0.5
(3,2067)	1:57:A:VAL:HG22	1:71:A:LEU:HA	2	0.5
(3,2067)	1:57:A:VAL:HG23	1:71:A:LEU:HA	2	0.5
(3,2038)	1:72:A:VAL:HG21	1:145:A:ARG:HD3	17	0.5
(3,2023)	1:99:A:TYR:HD2	1:113:A:GLN:HG3	10	0.5
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD21	1	0.5
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD22	1	0.5
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD23	1	0.5
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD21	4	0.5
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD22	4	0.5
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD23	4	0.5
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD21	7	0.5
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD22	7	0.5
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD23	7	0.5
(3,1992)	1:123:A:LYS:HE3	1:147:A:PRO:HG2	18	0.5
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG22	2	0.5
(3,1928)	1:77:A:ILE:HD11	1:78:A:SER:H	2	0.5
(3,1920)	1:77:A:ILE:HG21	1:80:A:ILE:HG13	6	0.5
(3,1875)	1:35:A:LEU:HA	1:35:A:LEU:HD12	5	0.5
(3,1851)	1:3:A:LEU:HG	1:82:A:SER:HB3	19	0.5
(3,1738)	1:14:A:LEU:HD21	1:34:A:HIS:HE1	7	0.5
(3,1712)	1:57:A:VAL:HG22	1:84:A:ASP:H	11	0.5
(3,1707)	1:53:A:GLY:HA3	1:80:A:ILE:HA	15	0.5
(3,1665)	1:32:A:GLN:HB2	1:48:A:ILE:HD13	19	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1637)	1:91:A:THR:HG21	1:92:A:PRO:HD2	5	0.5
(3,1577)	1:40:A:ILE:HD12	1:41:A:PRO:HD3	5	0.5
(3,1573)	1:40:A:ILE:HD13	1:41:A:PRO:HD2	5	0.5
(3,1555)	1:40:A:ILE:HG23	1:73:A:ALA:HB3	1	0.5
(3,1539)	1:40:A:ILE:HD12	1:73:A:ALA:HB3	2	0.5
(3,1518)	1:146:A:ILE:HD13	1:147:A:PRO:HD3	18	0.5
(3,1509)	1:40:A:ILE:HG22	1:70:A:ILE:HA	15	0.5
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	10	0.5
(3,1478)	1:134:A:SER:H	1:134:A:SER:HB3	14	0.5
(3,1478)	1:134:A:SER:HB3	1:137:A:LYS:H	20	0.5
(3,1476)	1:101:A:VAL:HB	1:140:A:PRO:HA	3	0.5
(3,1475)	1:142:A:GLN:HB3	1:143:A:VAL:HA	3	0.5
(3,1475)	1:54:A:LYS:HD2	1:84:A:ASP:HA	4	0.5
(3,1399)	1:29:A:LYS:HD2	1:33:A:GLU:HG2	2	0.5
(3,1377)	1:38:A:THR:HG23	1:130:A:PRO:HB2	13	0.5
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG12	15	0.5
(3,1308)	1:31:A:VAL:HG12	1:77:A:ILE:HG12	18	0.5
(3,1308)	1:31:A:VAL:HG13	1:48:A:ILE:HB	19	0.5
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	15	0.5
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	15	0.5
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	15	0.5
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	6	0.5
(3,1063)	1:13:A:LYS:HG3	1:78:A:SER:HB3	13	0.5
(3,1059)	1:102:A:LYS:HB3	1:103:A:SER:HB2	18	0.5
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG12	13	0.5
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG13	4	0.5
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG11	12	0.5
(3,1025)	1:100:A:THR:HG22	1:102:A:LYS:HE3	15	0.5
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG21	7	0.5
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG21	16	0.5
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD12	19	0.5
(3,906)	1:117:A:ASN:HB2	1:120:A:LEU:HD23	14	0.5
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG21	3	0.5
(3,887)	1:13:A:LYS:HA	1:14:A:LEU:HD21	14	0.5
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG22	18	0.5
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	5	0.5
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD21	17	0.5
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	17	0.5
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	17	0.5
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD21	17	0.5
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	17	0.5
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	17	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,753)	1:132:A:LEU:HG	1:144:A:LEU:HD12	17	0.5
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG21	17	0.5
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	5	0.5
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	5	0.5
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	5	0.5
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	10	0.5
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	10	0.5
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	10	0.5
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	16	0.5
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	16	0.5
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	16	0.5
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	17	0.5
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	17	0.5
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	17	0.5
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	19	0.5
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	19	0.5
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	19	0.5
(3,738)	1:14:A:LEU:HD23	1:31:A:VAL:HA	7	0.5
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	19	0.5
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	19	0.5
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	19	0.5
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	11	0.5
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	11	0.5
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	11	0.5
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	11	0.5
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	11	0.5
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	11	0.5
(3,632)	1:25:A:ASP:HB3	1:28:A:ALA:HB1	2	0.5
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	15	0.5
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	8	0.5
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	14	0.5
(3,479)	1:115:A:TYR:HE1	1:150:A:LEU:H	5	0.5
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	3	0.5
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	2	0.5
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	20	0.5
(3,420)	1:131:A:MET:HE2	1:132:A:LEU:HD11	1	0.5
(3,420)	1:131:A:MET:HE3	1:132:A:LEU:HD13	4	0.5
(3,416)	1:131:A:MET:HE3	1:144:A:LEU:HD11	17	0.5
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	2	0.5
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	2	0.5
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	15	0.5
(3,361)	1:21:A:GLN:HB3	1:23:A:ASP:H	14	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,349)	1:29:A:LYS:HD2	1:33:A:GLU:H	14	0.5
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB3	2	0.5
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB2	9	0.5
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	8	0.5
(3,229)	1:18:A:VAL:HG21	1:19:A:THR:H	7	0.5
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	19	0.5
(3,94)	1:138:A:ILE:HG22	1:139:A:TYR:H	7	0.5
(3,94)	1:138:A:ILE:HG22	1:139:A:TYR:H	19	0.5
(3,72)	1:31:A:VAL:H	1:50:A:ILE:HG13	1	0.5
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD11	7	0.5
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD13	9	0.5
(3,48)	1:59:A:GLY:H	1:88:A:LYS:HG3	11	0.5
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	4	0.5
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	5	0.5
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	12	0.5
(1,2023)	1:97:A:GLN:H	1:97:A:GLN:HG3	8	0.5
(1,1898)	1:110:A:ILE:HG13	1:113:A:GLN:HE21	4	0.5
(1,1896)	1:102:A:LYS:HD2	1:113:A:GLN:HE22	12	0.5
(1,1727)	1:87:A:VAL:H	1:89:A:THR:H	16	0.5
(1,1594)	1:64:A:GLN:HE21	1:67:A:LYS:HB3	14	0.5
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HG	17	0.5
(1,1462)	1:101:A:VAL:HG12	1:142:A:GLN:H	18	0.5
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	6	0.5
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG23	12	0.5
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	18	0.5
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	20	0.5
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	6	0.5
(1,1069)	1:105:A:ASP:H	1:138:A:ILE:HD12	15	0.5
(1,885)	1:8:A:LYS:HG3	1:80:A:ILE:H	15	0.5
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	8	0.5
(1,792)	1:71:A:LEU:HB3	1:73:A:ALA:H	3	0.5
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG12	17	0.5
(1,758)	1:68:A:GLU:HG3	1:71:A:LEU:H	6	0.5
(1,732)	1:40:A:ILE:HG23	1:69:A:LYS:H	13	0.5
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	1	0.5
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	2	0.5
(1,630)	1:61:A:GLY:H	1:88:A:LYS:HG2	12	0.5
(1,600)	1:59:A:GLY:H	1:87:A:VAL:H	14	0.5
(1,585)	1:57:A:VAL:HG13	1:58:A:THR:H	5	0.5
(1,563)	1:56:A:THR:H	1:56:A:THR:HG23	1	0.5
(1,563)	1:56:A:THR:H	1:56:A:THR:HG22	7	0.5
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB1	4	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG22	13	0.5
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG11	7	0.5
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD13	10	0.5
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB1	12	0.5
(1,375)	1:35:A:LEU:HD13	1:36:A:ASN:H	16	0.5
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	8	0.5
(1,304)	1:40:A:ILE:HD12	1:132:A:LEU:H	6	0.5
(1,304)	1:40:A:ILE:HD13	1:132:A:LEU:H	19	0.5
(1,300)	1:132:A:LEU:H	1:132:A:LEU:HG	20	0.5
(1,273)	1:29:A:LYS:HG3	1:31:A:VAL:H	4	0.5
(1,269)	1:30:A:LYS:H	1:50:A:ILE:HD13	10	0.5
(1,269)	1:30:A:LYS:H	1:48:A:ILE:HG23	18	0.5
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	2	0.5
(1,134)	1:12:A:GLU:H	1:14:A:LEU:HG	9	0.5
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB3	11	0.5
(1,83)	1:6:A:PHE:H	1:98:A:PHE:HB3	8	0.5
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG11	12	0.5
(3,2487)	1:35:A:LEU:HD21	1:43:A:ALA:HA	1	0.49
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	20	0.49
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	20	0.49
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	20	0.49
(3,2417)	1:6:A:PHE:HB2	1:143:A:VAL:HG11	3	0.49
(3,2352)	1:38:A:THR:HG21	1:40:A:ILE:HD11	20	0.49
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG12	8	0.49
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG13	19	0.49
(3,2346)	1:100:A:THR:HA	1:101:A:VAL:HG22	5	0.49
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD2	4	0.49
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	10	0.49
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	10	0.49
(3,2275)	1:7:A:VAL:HG13	1:139:A:TYR:HD2	20	0.49
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD11	6	0.49
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD11	1	0.49
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	8	0.49
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	5	0.49
(3,2218)	1:14:A:LEU:HB3	1:34:A:HIS:HB2	13	0.49
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	2	0.49
(3,2209)	1:38:A:THR:HG21	1:131:A:MET:HG3	7	0.49
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	15	0.49
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	15	0.49
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	15	0.49
(3,2171)	1:125:A:PHE:HB3	1:126:A:GLU:HB2	10	0.49
(3,2171)	1:125:A:PHE:HB3	1:126:A:GLU:HB2	19	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2164)	1:80:A:ILE:HG21	1:83:A:VAL:HA	16	0.49
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	4	0.49
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	6	0.49
(3,2130)	1:121:A:TYR:HD2	1:122:A:ASN:HB2	7	0.49
(3,2129)	1:121:A:TYR:HD2	1:122:A:ASN:HB2	7	0.49
(3,2124)	1:115:A:TYR:HA	1:149:A:GLU:HB3	7	0.49
(3,2031)	1:76:A:ASN:HD22	1:143:A:VAL:HG13	11	0.49
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD21	3	0.49
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD22	3	0.49
(3,1999)	1:14:A:LEU:HB2	1:14:A:LEU:HD23	3	0.49
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	12	0.49
(3,1961)	1:17:A:ALA:HA	1:21:A:GLN:HG2	20	0.49
(3,1957)	1:128:A:ASN:HA	1:145:A:ARG:HB2	8	0.49
(3,1945)	1:6:A:PHE:HD1	1:82:A:SER:HB3	16	0.49
(3,1945)	1:6:A:PHE:HD2	1:82:A:SER:HB3	16	0.49
(3,1944)	1:4:A:PHE:H	1:82:A:SER:HB3	2	0.49
(3,1931)	1:115:A:TYR:HE2	1:124:A:ILE:HG23	14	0.49
(3,1928)	1:77:A:ILE:HD11	1:78:A:SER:H	4	0.49
(3,1928)	1:77:A:ILE:HD12	1:78:A:SER:H	11	0.49
(3,1928)	1:77:A:ILE:HD13	1:78:A:SER:H	14	0.49
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	14	0.49
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	14	0.49
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	14	0.49
(3,1875)	1:72:A:VAL:HG23	1:145:A:ARG:HD2	16	0.49
(3,1851)	1:81:A:ALA:HB3	1:82:A:SER:HB3	9	0.49
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD11	11	0.49
(3,1787)	1:107:A:LEU:HD11	1:111:A:SER:HB3	20	0.49
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	12	0.49
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	12	0.49
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	13	0.49
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	13	0.49
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	15	0.49
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	4	0.49
(3,1758)	1:49:A:GLN:HB2	1:56:A:THR:HB	12	0.49
(3,1726)	1:8:A:LYS:HA	1:8:A:LYS:HG3	15	0.49
(3,1724)	1:129:A:LYS:H	1:129:A:LYS:HD2	2	0.49
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	16	0.49
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	16	0.49
(3,1664)	1:105:A:ASP:HB2	1:138:A:ILE:HD12	3	0.49
(3,1598)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	20	0.49
(3,1577)	1:40:A:ILE:HD13	1:41:A:PRO:HD3	14	0.49
(3,1573)	1:40:A:ILE:HD12	1:41:A:PRO:HD2	2	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1573)	1:40:A:ILE:HD12	1:41:A:PRO:HD2	19	0.49
(3,1539)	1:40:A:ILE:HD11	1:73:A:ALA:HB1	14	0.49
(3,1539)	1:40:A:ILE:HD11	1:73:A:ALA:HB3	17	0.49
(3,1518)	1:146:A:ILE:HD12	1:147:A:PRO:HD3	12	0.49
(3,1518)	1:146:A:ILE:HD13	1:147:A:PRO:HD3	15	0.49
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	4	0.49
(3,1384)	1:68:A:GLU:HG3	1:69:A:LYS:H	16	0.49
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD12	17	0.49
(3,1310)	1:101:A:VAL:HG23	1:142:A:GLN:HB3	8	0.49
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG13	7	0.49
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG12	18	0.49
(3,1234)	1:33:A:GLU:HA	1:37:A:LYS:HD2	5	0.49
(3,1223)	1:25:A:ASP:HB2	1:28:A:ALA:HB3	7	0.49
(3,1139)	1:123:A:LYS:HA	1:123:A:LYS:HG3	6	0.49
(3,1057)	1:18:A:VAL:HG22	1:19:A:THR:HA	2	0.49
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG12	15	0.49
(3,1008)	1:118:A:ALA:HB3	1:121:A:TYR:HD1	15	0.49
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	3	0.49
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	5	0.49
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	18	0.49
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG23	5	0.49
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD21	16	0.49
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	16	0.49
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	16	0.49
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD21	16	0.49
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	16	0.49
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	16	0.49
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	11	0.49
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG22	20	0.49
(3,705)	1:31:A:VAL:H	1:31:A:VAL:HB	10	0.49
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	2	0.49
(3,502)	1:6:A:PHE:HE2	1:71:A:LEU:HB3	9	0.49
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD22	7	0.49
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD22	11	0.49
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	9	0.49
(3,334)	1:115:A:TYR:HD2	1:123:A:LYS:HD3	15	0.49
(3,316)	1:61:A:GLY:H	1:62:A:LEU:HG	17	0.49
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	12	0.49
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	17	0.49
(3,234)	1:45:A:LYS:H	1:45:A:LYS:HE3	2	0.49
(3,94)	1:138:A:ILE:HG23	1:139:A:TYR:H	20	0.49
(3,77)	1:57:A:VAL:HG11	1:58:A:THR:H	6	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,66)	1:80:A:ILE:HD13	1:81:A:ALA:H	5	0.49
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	15	0.49
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	19	0.49
(1,1952)	1:85:A:ASP:H	1:86:A:GLN:HE22	18	0.49
(1,1898)	1:113:A:GLN:HE21	1:114:A:VAL:HB	20	0.49
(1,1833)	1:32:A:GLN:HE21	1:43:A:ALA:HB2	19	0.49
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	7	0.49
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	19	0.49
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG22	7	0.49
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD23	18	0.49
(1,1461)	1:138:A:ILE:HD13	1:142:A:GLN:H	11	0.49
(1,1457)	1:138:A:ILE:HD12	1:141:A:GLY:H	5	0.49
(1,1352)	1:38:A:THR:HG21	1:131:A:MET:H	7	0.49
(1,1348)	1:128:A:ASN:HD22	1:129:A:LYS:H	20	0.49
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD23	13	0.49
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	13	0.49
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	13	0.49
(1,1226)	1:107:A:LEU:HD22	1:121:A:TYR:H	13	0.49
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	4	0.49
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	8	0.49
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	17	0.49
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	18	0.49
(1,1093)	1:105:A:ASP:HB2	1:110:A:ILE:H	7	0.49
(1,899)	1:8:A:LYS:HG3	1:81:A:ALA:H	14	0.49
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HG3	12	0.49
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HG3	13	0.49
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB1	11	0.49
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	14	0.49
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	20	0.49
(1,305)	1:33:A:GLU:H	1:48:A:ILE:HD11	18	0.49
(1,288)	1:32:A:GLN:H	1:32:A:GLN:HG2	9	0.49
(1,273)	1:28:A:ALA:HB3	1:31:A:VAL:H	17	0.49
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG11	2	0.49
(1,265)	1:30:A:LYS:H	1:30:A:LYS:HG2	6	0.49
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG22	6	0.49
(1,184)	1:13:A:LYS:HE3	1:15:A:TRP:H	2	0.49
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	6	0.49
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB2	6	0.49
(1,83)	1:6:A:PHE:H	1:98:A:PHE:HB3	3	0.49
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG21	5	0.49
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	15	0.48
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG22	7	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG13	14	0.48
(3,2484)	1:53:A:GLY:HA3	1:80:A:ILE:HA	5	0.48
(3,2474)	1:107:A:LEU:H	1:144:A:LEU:HD23	8	0.48
(3,2457)	1:13:A:LYS:H	1:13:A:LYS:HG3	7	0.48
(3,2451)	1:81:A:ALA:HB2	1:82:A:SER:HB3	3	0.48
(3,2417)	1:6:A:PHE:HB2	1:143:A:VAL:HG12	20	0.48
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD13	12	0.48
(3,2346)	1:100:A:THR:HA	1:101:A:VAL:HG21	3	0.48
(3,2346)	1:100:A:THR:HA	1:101:A:VAL:HG21	9	0.48
(3,2346)	1:100:A:THR:HA	1:101:A:VAL:HG23	10	0.48
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD23	16	0.48
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	15	0.48
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	4	0.48
(3,2256)	1:42:A:ASP:HB3	1:46:A:VAL:H	15	0.48
(3,2228)	1:107:A:LEU:HD13	1:144:A:LEU:HD13	20	0.48
(3,2214)	1:107:A:LEU:HD13	1:128:A:ASN:HD22	6	0.48
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE1	20	0.48
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB3	14	0.48
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB1	10	0.48
(3,2182)	1:126:A:GLU:HB2	1:127:A:ALA:HB2	19	0.48
(3,2180)	1:109:A:ALA:HA	1:112:A:LYS:HD3	17	0.48
(3,2174)	1:50:A:ILE:HA	1:55:A:ALA:HB2	5	0.48
(3,2145)	1:107:A:LEU:HD21	1:125:A:PHE:HA	14	0.48
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	17	0.48
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	20	0.48
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	7	0.48
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG21	8	0.48
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD13	15	0.48
(3,2087)	1:101:A:VAL:HG13	1:110:A:ILE:HG23	14	0.48
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB3	11	0.48
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE1	3	0.48
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE2	3	0.48
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE3	3	0.48
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE1	3	0.48
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE2	3	0.48
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE3	3	0.48
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE1	3	0.48
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE2	3	0.48
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE3	3	0.48
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG23	8	0.48
(3,2031)	1:76:A:ASN:HD22	1:143:A:VAL:HG11	7	0.48
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG23	12	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	10	0.48
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	11	0.48
(3,1851)	1:3:A:LEU:HG	1:82:A:SER:HB3	4	0.48
(3,1851)	1:3:A:LEU:HG	1:82:A:SER:HB3	18	0.48
(3,1850)	1:54:A:LYS:HD3	1:82:A:SER:HB3	7	0.48
(3,1826)	1:112:A:LYS:HB3	1:112:A:LYS:HE2	8	0.48
(3,1789)	1:3:A:LEU:HD11	1:82:A:SER:HA	4	0.48
(3,1786)	1:128:A:ASN:H	1:132:A:LEU:HD13	10	0.48
(3,1777)	1:8:A:LYS:HG2	1:79:A:GLY:HA3	11	0.48
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	2	0.48
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	3	0.48
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	7	0.48
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	9	0.48
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	11	0.48
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	18	0.48
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	20	0.48
(3,1752)	1:14:A:LEU:HD22	1:30:A:LYS:HB2	4	0.48
(3,1752)	1:14:A:LEU:HD23	1:30:A:LYS:HB2	7	0.48
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	5	0.48
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	5	0.48
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG12	17	0.48
(3,1693)	1:40:A:ILE:HG21	1:70:A:ILE:H	3	0.48
(3,1693)	1:40:A:ILE:HG23	1:70:A:ILE:H	12	0.48
(3,1665)	1:32:A:GLN:HB2	1:48:A:ILE:HD13	10	0.48
(3,1602)	1:42:A:ASP:HA	1:70:A:ILE:HD11	17	0.48
(3,1602)	1:42:A:ASP:HA	1:62:A:LEU:HD23	19	0.48
(3,1598)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	10	0.48
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	4	0.48
(3,1577)	1:40:A:ILE:HD12	1:41:A:PRO:HD3	1	0.48
(3,1577)	1:40:A:ILE:HD11	1:41:A:PRO:HD3	16	0.48
(3,1539)	1:40:A:ILE:HD13	1:73:A:ALA:HB3	10	0.48
(3,1475)	1:54:A:LYS:HD2	1:84:A:ASP:HA	2	0.48
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG21	18	0.48
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG22	18	0.48
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG23	18	0.48
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	1	0.48
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	20	0.48
(3,1430)	1:131:A:MET:HE1	1:132:A:LEU:HD11	6	0.48
(3,1425)	1:13:A:LYS:HD3	1:13:A:LYS:HG2	12	0.48
(3,1424)	1:26:A:ASP:HB3	1:30:A:LYS:HD2	2	0.48
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG13	9	0.48
(3,1317)	1:58:A:THR:HA	1:87:A:VAL:HG11	12	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1302)	1:83:A:VAL:HG13	1:85:A:ASP:HB3	4	0.48
(3,1292)	1:120:A:LEU:HD11	1:123:A:LYS:HD3	8	0.48
(3,1272)	1:101:A:VAL:HG11	1:142:A:GLN:HB2	5	0.48
(3,1272)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	5	0.48
(3,1272)	1:101:A:VAL:HG13	1:142:A:GLN:HB2	5	0.48
(3,1269)	1:31:A:VAL:HG23	1:50:A:ILE:HD12	3	0.48
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	2	0.48
(3,1232)	1:28:A:ALA:HB2	1:29:A:LYS:HB2	19	0.48
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB3	4	0.48
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	13	0.48
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	10	0.48
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	17	0.48
(3,1062)	1:13:A:LYS:HB3	1:78:A:SER:HB2	19	0.48
(3,1059)	1:103:A:SER:HB3	1:140:A:PRO:HG3	15	0.48
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	10	0.48
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG11	18	0.48
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB3	6	0.48
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG22	19	0.48
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	14	0.48
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG22	7	0.48
(3,887)	1:13:A:LYS:HA	1:14:A:LEU:HD22	10	0.48
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	19	0.48
(3,807)	1:72:A:VAL:HG11	1:73:A:ALA:HA	17	0.48
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	8	0.48
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD11	5	0.48
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	16	0.48
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	16	0.48
(3,553)	1:29:A:LYS:HA	1:29:A:LYS:HG2	15	0.48
(3,514)	1:125:A:PHE:HE2	1:132:A:LEU:HG	1	0.48
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	1	0.48
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	18	0.48
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	3	0.48
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	4	0.48
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB3	18	0.48
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	16	0.48
(3,306)	1:106:A:THR:H	1:106:A:THR:HG21	20	0.48
(3,305)	1:55:A:ALA:HB3	1:56:A:THR:H	17	0.48
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB1	11	0.48
(3,242)	1:29:A:LYS:HE3	1:30:A:LYS:H	3	0.48
(3,229)	1:18:A:VAL:HG12	1:19:A:THR:H	14	0.48
(3,222)	1:150:A:LEU:HG	1:151:A:GLU:H	9	0.48
(3,222)	1:150:A:LEU:H	1:150:A:LEU:HG	17	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,221)	1:150:A:LEU:H	1:150:A:LEU:HD13	19	0.48
(3,113)	1:74:A:VAL:HG13	1:75:A:GLY:H	10	0.48
(3,112)	1:74:A:VAL:HB	1:75:A:GLY:H	3	0.48
(3,94)	1:138:A:ILE:HG21	1:139:A:TYR:H	8	0.48
(3,94)	1:138:A:ILE:HG21	1:139:A:TYR:H	10	0.48
(3,94)	1:138:A:ILE:HG21	1:139:A:TYR:H	11	0.48
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	4	0.48
(3,41)	1:40:A:ILE:HG23	1:43:A:ALA:H	10	0.48
(3,41)	1:40:A:ILE:HG22	1:43:A:ALA:H	16	0.48
(1,1811)	1:145:A:ARG:HB3	1:148:A:GLU:H	14	0.48
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	10	0.48
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	13	0.48
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HB3	1	0.48
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HB3	8	0.48
(1,1566)	1:149:A:GLU:HB2	1:150:A:LEU:H	13	0.48
(1,1499)	1:142:A:GLN:HG3	1:144:A:LEU:H	6	0.48
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	9	0.48
(1,1411)	1:137:A:LYS:H	1:137:A:LYS:HD2	3	0.48
(1,1358)	1:130:A:PRO:HG3	1:131:A:MET:H	15	0.48
(1,1352)	1:38:A:THR:HG23	1:131:A:MET:H	17	0.48
(1,1283)	1:124:A:ILE:HG21	1:126:A:GLU:H	4	0.48
(1,1171)	1:112:A:LYS:HG3	1:116:A:GLY:H	5	0.48
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	14	0.48
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	20	0.48
(1,1130)	1:113:A:GLN:H	1:115:A:TYR:HB3	10	0.48
(1,899)	1:8:A:LYS:HG3	1:81:A:ALA:H	15	0.48
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	15	0.48
(1,842)	1:77:A:ILE:H	1:143:A:VAL:HB	6	0.48
(1,826)	1:36:A:ASN:HA	1:43:A:ALA:H	10	0.48
(1,758)	1:68:A:GLU:HG3	1:71:A:LEU:H	13	0.48
(1,697)	1:67:A:LYS:H	1:69:A:LYS:HB3	5	0.48
(1,678)	1:66:A:ALA:H	1:69:A:LYS:HB2	17	0.48
(1,672)	1:62:A:LEU:HB2	1:66:A:ALA:H	20	0.48
(1,630)	1:61:A:GLY:H	1:88:A:LYS:HG2	14	0.48
(1,585)	1:57:A:VAL:HG11	1:58:A:THR:H	18	0.48
(1,581)	1:57:A:VAL:H	1:83:A:VAL:HG11	11	0.48
(1,581)	1:57:A:VAL:H	1:83:A:VAL:HG12	11	0.48
(1,581)	1:57:A:VAL:H	1:83:A:VAL:HG13	11	0.48
(1,563)	1:56:A:THR:H	1:56:A:THR:HG22	8	0.48
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB2	11	0.48
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG21	8	0.48
(1,375)	1:35:A:LEU:HD13	1:36:A:ASN:H	17	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	2	0.48
(1,304)	1:40:A:ILE:HD11	1:132:A:LEU:H	8	0.48
(1,269)	1:30:A:LYS:H	1:48:A:ILE:HG23	3	0.48
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG23	4	0.48
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	5	0.48
(1,184)	1:13:A:LYS:HE2	1:15:A:TRP:H	5	0.48
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	8	0.48
(1,134)	1:12:A:GLU:H	1:38:A:THR:HG21	12	0.48
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB1	1	0.48
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	9	0.47
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	13	0.47
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	13	0.47
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	13	0.47
(3,2577)	1:65:A:GLU:HB2	1:66:A:ALA:H	7	0.47
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG22	9	0.47
(3,2497)	1:56:A:THR:HG23	1:58:A:THR:H	13	0.47
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB3	10	0.47
(3,2346)	1:85:A:ASP:HA	1:87:A:VAL:HG13	11	0.47
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD2	8	0.47
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	7	0.47
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD11	5	0.47
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD12	15	0.47
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD11	8	0.47
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	17	0.47
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	5	0.47
(3,2193)	1:3:A:LEU:HD13	1:85:A:ASP:H	10	0.47
(3,2193)	1:3:A:LEU:HD11	1:85:A:ASP:H	19	0.47
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	16	0.47
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	16	0.47
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	16	0.47
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	19	0.47
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	20	0.47
(3,2182)	1:17:A:ALA:HB2	1:21:A:GLN:HB3	3	0.47
(3,2173)	1:8:A:LYS:HD3	1:80:A:ILE:HA	10	0.47
(3,2160)	1:124:A:ILE:HG23	1:128:A:ASN:H	15	0.47
(3,2130)	1:122:A:ASN:HB2	1:125:A:PHE:HD1	1	0.47
(3,2129)	1:122:A:ASN:HB2	1:125:A:PHE:HD1	1	0.47
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	2	0.47
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	19	0.47
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG23	15	0.47
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	15	0.47
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB3	5	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	7	0.47
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	15	0.47
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	3	0.47
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	9	0.47
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	18	0.47
(3,1928)	1:77:A:ILE:HD13	1:78:A:SER:H	20	0.47
(3,1923)	1:77:A:ILE:HG22	1:80:A:ILE:HB	11	0.47
(3,1914)	1:14:A:LEU:HB3	1:77:A:ILE:HD13	18	0.47
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	10	0.47
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	10	0.47
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	10	0.47
(3,1875)	1:35:A:LEU:HA	1:35:A:LEU:HD13	2	0.47
(3,1875)	1:72:A:VAL:HG22	1:76:A:ASN:HB2	7	0.47
(3,1860)	1:66:A:ALA:HB1	1:70:A:ILE:HD12	20	0.47
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD21	19	0.47
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD22	19	0.47
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD23	19	0.47
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	5	0.47
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	5	0.47
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	19	0.47
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	17	0.47
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	18	0.47
(3,1726)	1:8:A:LYS:HA	1:8:A:LYS:HG3	12	0.47
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	19	0.47
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	19	0.47
(3,1618)	1:66:A:ALA:HA	1:69:A:LYS:HG3	18	0.47
(3,1518)	1:146:A:ILE:HD13	1:147:A:PRO:HD3	6	0.47
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD13	5	0.47
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	8	0.47
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	20	0.47
(3,1468)	1:15:A:TRP:HE3	1:21:A:GLN:HB2	12	0.47
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG21	2	0.47
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG22	2	0.47
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG23	2	0.47
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	11	0.47
(3,1436)	1:132:A:LEU:HD11	1:138:A:ILE:HA	10	0.47
(3,1430)	1:131:A:MET:HE1	1:132:A:LEU:HD13	9	0.47
(3,1405)	1:126:A:GLU:HB3	1:126:A:GLU:HG2	7	0.47
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	17	0.47
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG12	17	0.47
(3,1336)	1:72:A:VAL:HG11	1:73:A:ALA:H	18	0.47
(3,1336)	1:72:A:VAL:HG12	1:73:A:ALA:H	18	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1336)	1:72:A:VAL:HG13	1:73:A:ALA:H	18	0.47
(3,1325)	1:6:A:PHE:HZ	1:83:A:VAL:HG23	19	0.47
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG13	13	0.47
(3,1272)	1:101:A:VAL:HG11	1:142:A:GLN:HB2	14	0.47
(3,1272)	1:101:A:VAL:HG12	1:142:A:GLN:HB2	14	0.47
(3,1272)	1:101:A:VAL:HG13	1:142:A:GLN:HB2	14	0.47
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	7	0.47
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	12	0.47
(3,1232)	1:28:A:ALA:HB1	1:29:A:LYS:HB2	17	0.47
(3,1223)	1:25:A:ASP:HB3	1:28:A:ALA:HB3	10	0.47
(3,1146)	1:23:A:ASP:HB2	1:24:A:LYS:HA	1	0.47
(3,1062)	1:13:A:LYS:HD2	1:78:A:SER:HB2	1	0.47
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	7	0.47
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	7	0.47
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	7	0.47
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG13	7	0.47
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB2	2	0.47
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG21	20	0.47
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG22	5	0.47
(3,950)	1:107:A:LEU:HD12	1:121:A:TYR:HB2	3	0.47
(3,926)	1:35:A:LEU:HD21	1:43:A:ALA:HA	1	0.47
(3,925)	1:13:A:LYS:HG3	1:78:A:SER:HB3	12	0.47
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	6	0.47
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	15	0.47
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	9	0.47
(3,807)	1:72:A:VAL:HG13	1:73:A:ALA:HA	12	0.47
(3,798)	1:106:A:THR:HG23	1:136:A:ASP:HB3	9	0.47
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD13	18	0.47
(3,681)	1:6:A:PHE:HA	1:100:A:THR:HG23	11	0.47
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	2	0.47
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	1	0.47
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	5	0.47
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	18	0.47
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	18	0.47
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	18	0.47
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	18	0.47
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	18	0.47
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	18	0.47
(3,632)	1:9:A:ASP:HB3	1:10:A:ALA:HB1	8	0.47
(3,630)	1:135:A:PRO:HB2	1:136:A:ASP:HB2	8	0.47
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	10	0.47
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	12	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,422)	1:40:A:ILE:HD13	1:131:A:MET:HA	3	0.47
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB2	4	0.47
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB3	8	0.47
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB1	19	0.47
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	8	0.47
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	14	0.47
(3,330)	1:111:A:SER:H	1:111:A:SER:HB2	8	0.47
(3,330)	1:111:A:SER:H	1:111:A:SER:HB2	15	0.47
(3,316)	1:112:A:LYS:H	1:112:A:LYS:HD2	5	0.47
(3,249)	1:62:A:LEU:HD21	1:63:A:SER:H	11	0.47
(3,192)	1:8:A:LYS:HG3	1:9:A:ASP:H	5	0.47
(3,165)	1:24:A:LYS:HD2	1:51:A:ALA:HA	9	0.47
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	14	0.47
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	19	0.47
(3,131)	1:121:A:TYR:HE2	1:135:A:PRO:HG3	9	0.47
(3,125)	1:100:A:THR:HG21	1:142:A:GLN:H	11	0.47
(3,113)	1:74:A:VAL:HG13	1:75:A:GLY:H	5	0.47
(3,95)	1:138:A:ILE:HD11	1:139:A:TYR:H	15	0.47
(3,94)	1:138:A:ILE:HG22	1:139:A:TYR:H	4	0.47
(3,94)	1:138:A:ILE:HG21	1:139:A:TYR:H	5	0.47
(3,77)	1:57:A:VAL:HG13	1:58:A:THR:H	8	0.47
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	9	0.47
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	2	0.47
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	17	0.47
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG22	11	0.47
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD11	18	0.47
(1,1462)	1:101:A:VAL:HG12	1:142:A:GLN:H	10	0.47
(1,1457)	1:138:A:ILE:HD13	1:141:A:GLY:H	9	0.47
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	15	0.47
(1,1226)	1:107:A:LEU:HD21	1:121:A:TYR:H	18	0.47
(1,1195)	1:117:A:ASN:H	1:118:A:ALA:HB2	15	0.47
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	13	0.47
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	20	0.47
(1,924)	1:74:A:VAL:HG23	1:84:A:ASP:H	14	0.47
(1,918)	1:3:A:LEU:HD11	1:82:A:SER:H	2	0.47
(1,885)	1:8:A:LYS:HG3	1:80:A:ILE:H	2	0.47
(1,885)	1:8:A:LYS:HG3	1:80:A:ILE:H	14	0.47
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG21	13	0.47
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG21	17	0.47
(1,846)	1:13:A:LYS:HG3	1:78:A:SER:H	14	0.47
(1,842)	1:77:A:ILE:H	1:143:A:VAL:HB	8	0.47
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HG3	18	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG11	5	0.47
(1,759)	1:71:A:LEU:H	1:71:A:LEU:HG	8	0.47
(1,697)	1:62:A:LEU:HG	1:67:A:LYS:H	19	0.47
(1,693)	1:64:A:GLN:HB2	1:67:A:LYS:H	6	0.47
(1,671)	1:62:A:LEU:HD22	1:66:A:ALA:H	15	0.47
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	1	0.47
(1,563)	1:56:A:THR:H	1:56:A:THR:HG21	5	0.47
(1,561)	1:31:A:VAL:HG23	1:56:A:THR:H	16	0.47
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB2	18	0.47
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG22	3	0.47
(1,485)	1:46:A:VAL:HG11	1:48:A:ILE:H	14	0.47
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD13	9	0.47
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	18	0.47
(1,305)	1:33:A:GLU:H	1:48:A:ILE:HD11	15	0.47
(1,304)	1:40:A:ILE:HD13	1:132:A:LEU:H	9	0.47
(1,300)	1:29:A:LYS:HG3	1:33:A:GLU:H	6	0.47
(1,298)	1:32:A:GLN:H	1:35:A:LEU:HD13	8	0.47
(1,272)	1:30:A:LYS:HG2	1:31:A:VAL:H	13	0.47
(1,246)	1:29:A:LYS:H	1:29:A:LYS:HD3	19	0.47
(1,184)	1:13:A:LYS:HE2	1:15:A:TRP:H	8	0.47
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	3	0.46
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	3	0.46
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	3	0.46
(3,2510)	1:110:A:ILE:HD12	1:114:A:VAL:HG13	4	0.46
(3,2497)	1:56:A:THR:HG21	1:58:A:THR:H	2	0.46
(3,2497)	1:56:A:THR:HG23	1:58:A:THR:H	20	0.46
(3,2463)	1:82:A:SER:HB3	1:84:A:ASP:H	5	0.46
(3,2433)	1:8:A:LYS:HB3	1:8:A:LYS:HE2	6	0.46
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:HD1	18	0.46
(3,2417)	1:6:A:PHE:HB2	1:143:A:VAL:HG11	16	0.46
(3,2339)	1:115:A:TYR:HB3	1:149:A:GLU:HG2	12	0.46
(3,2321)	1:40:A:ILE:HD13	1:131:A:MET:HG3	19	0.46
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	6	0.46
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	5	0.46
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	7	0.46
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	16	0.46
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD12	14	0.46
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	6	0.46
(3,2218)	1:14:A:LEU:HB3	1:15:A:TRP:HB2	12	0.46
(3,2218)	1:14:A:LEU:HB3	1:34:A:HIS:HB2	19	0.46
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	19	0.46
(3,2193)	1:3:A:LEU:HD12	1:85:A:ASP:H	3	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	12	0.46
(3,2171)	1:125:A:PHE:HB3	1:126:A:GLU:HB2	6	0.46
(3,2171)	1:124:A:ILE:HB	1:125:A:PHE:HB3	9	0.46
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	9	0.46
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	7	0.46
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	12	0.46
(3,2114)	1:30:A:LYS:HA	1:34:A:HIS:HB2	1	0.46
(3,2099)	1:110:A:ILE:HD13	1:115:A:TYR:HD2	14	0.46
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD22	16	0.46
(3,2059)	1:51:A:ALA:H	1:54:A:LYS:HG2	20	0.46
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	7	0.46
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	7	0.46
(3,1993)	1:107:A:LEU:HG	1:121:A:TYR:HB2	17	0.46
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	4	0.46
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	5	0.46
(3,1950)	1:115:A:TYR:HE1	1:123:A:LYS:HE3	19	0.46
(3,1950)	1:115:A:TYR:HE2	1:123:A:LYS:HE3	19	0.46
(3,1928)	1:77:A:ILE:HD12	1:78:A:SER:H	6	0.46
(3,1928)	1:77:A:ILE:HD11	1:78:A:SER:H	9	0.46
(3,1928)	1:77:A:ILE:HD11	1:78:A:SER:H	10	0.46
(3,1928)	1:77:A:ILE:HD13	1:78:A:SER:H	13	0.46
(3,1928)	1:77:A:ILE:HD13	1:78:A:SER:H	17	0.46
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD11	17	0.46
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD21	11	0.46
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD22	11	0.46
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD23	11	0.46
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	4	0.46
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	5	0.46
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	6	0.46
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	12	0.46
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	13	0.46
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	16	0.46
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	6	0.46
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	10	0.46
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	15	0.46
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG21	18	0.46
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	2	0.46
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	2	0.46
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG12	16	0.46
(3,1691)	1:50:A:ILE:HD13	1:56:A:THR:H	13	0.46
(3,1665)	1:32:A:GLN:HB2	1:48:A:ILE:HD13	7	0.46
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD13	13	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1664)	1:105:A:ASP:HB2	1:138:A:ILE:HD13	4	0.46
(3,1573)	1:40:A:ILE:HD11	1:41:A:PRO:HD2	15	0.46
(3,1558)	1:44:A:ASP:HA	1:46:A:VAL:HG11	8	0.46
(3,1539)	1:40:A:ILE:HD12	1:73:A:ALA:HB2	16	0.46
(3,1495)	1:125:A:PHE:HD2	1:132:A:LEU:HG	1	0.46
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD12	7	0.46
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	5	0.46
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG21	7	0.46
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG22	7	0.46
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG23	7	0.46
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	12	0.46
(3,1405)	1:126:A:GLU:HB3	1:126:A:GLU:HG2	3	0.46
(3,1330)	1:15:A:TRP:HE3	1:31:A:VAL:HG23	2	0.46
(3,1325)	1:99:A:TYR:HE1	1:101:A:VAL:HG21	11	0.46
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG12	14	0.46
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG13	20	0.46
(3,1302)	1:83:A:VAL:HG11	1:85:A:ASP:HB3	17	0.46
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	18	0.46
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	18	0.46
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	18	0.46
(3,1232)	1:28:A:ALA:HB2	1:29:A:LYS:HB2	3	0.46
(3,1232)	1:28:A:ALA:HB1	1:29:A:LYS:HB2	12	0.46
(3,1219)	1:28:A:ALA:HB3	1:48:A:ILE:HA	6	0.46
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	4	0.46
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB3	17	0.46
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	19	0.46
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB2	3	0.46
(3,1062)	1:13:A:LYS:HB2	1:78:A:SER:HB2	2	0.46
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG12	11	0.46
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	2	0.46
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	2	0.46
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	2	0.46
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB3	10	0.46
(3,988)	1:114:A:VAL:HG23	1:115:A:TYR:HB3	2	0.46
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG21	1	0.46
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD12	18	0.46
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	1	0.46
(3,917)	1:64:A:GLN:H	1:64:A:GLN:HG2	15	0.46
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD21	14	0.46
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	14	0.46
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	14	0.46
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD21	14	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	14	0.46
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	14	0.46
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD21	18	0.46
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	18	0.46
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	18	0.46
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD21	18	0.46
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	18	0.46
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	18	0.46
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	12	0.46
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD12	1	0.46
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD12	10	0.46
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG21	2	0.46
(3,748)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	2	0.46
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	2	0.46
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	4	0.46
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	4	0.46
(3,674)	1:105:A:ASP:HB2	1:138:A:ILE:HD11	12	0.46
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	18	0.46
(3,632)	1:25:A:ASP:HB3	1:28:A:ALA:HB1	12	0.46
(3,553)	1:29:A:LYS:HA	1:29:A:LYS:HG2	16	0.46
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	14	0.46
(3,514)	1:125:A:PHE:HE2	1:132:A:LEU:HG	8	0.46
(3,486)	1:121:A:TYR:HE2	1:135:A:PRO:HG2	6	0.46
(3,419)	1:131:A:MET:HE2	1:144:A:LEU:HA	15	0.46
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB2	2	0.46
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB2	6	0.46
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	2	0.46
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	17	0.46
(3,280)	1:68:A:GLU:HA	1:68:A:GLU:HG3	10	0.46
(3,280)	1:68:A:GLU:HA	1:68:A:GLU:HG3	12	0.46
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	1	0.46
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	16	0.46
(3,238)	1:29:A:LYS:HA	1:29:A:LYS:HD3	19	0.46
(3,208)	1:101:A:VAL:HB	1:142:A:GLN:H	17	0.46
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	2	0.46
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	4	0.46
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	20	0.46
(3,161)	1:113:A:GLN:H	1:113:A:GLN:HG3	7	0.46
(3,113)	1:74:A:VAL:HG13	1:75:A:GLY:H	6	0.46
(3,109)	1:74:A:VAL:H	1:74:A:VAL:HB	13	0.46
(3,94)	1:138:A:ILE:HG21	1:139:A:TYR:H	9	0.46
(3,94)	1:138:A:ILE:HG21	1:139:A:TYR:H	17	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,72)	1:31:A:VAL:H	1:50:A:ILE:HG13	11	0.46
(3,41)	1:40:A:ILE:HG23	1:43:A:ALA:H	9	0.46
(3,21)	1:139:A:TYR:H	1:140:A:PRO:HD3	7	0.46
(1,1898)	1:110:A:ILE:HG13	1:113:A:GLN:HE21	2	0.46
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD11	9	0.46
(1,1814)	1:151:A:GLU:H	1:152:A:HIS:HB3	7	0.46
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	13	0.46
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	15	0.46
(1,1662)	1:42:A:ASP:H	1:45:A:LYS:HG3	12	0.46
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	19	0.46
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	15	0.46
(1,1462)	1:101:A:VAL:HG13	1:142:A:GLN:H	4	0.46
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	4	0.46
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	4	0.46
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	4	0.46
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	18	0.46
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	18	0.46
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	18	0.46
(1,1352)	1:38:A:THR:HG22	1:131:A:MET:H	1	0.46
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	20	0.46
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD13	3	0.46
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD23	9	0.46
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	5	0.46
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG23	18	0.46
(1,1265)	1:107:A:LEU:HD21	1:124:A:ILE:H	11	0.46
(1,1251)	1:111:A:SER:H	1:124:A:ILE:H	15	0.46
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	9	0.46
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	12	0.46
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	2	0.46
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	4	0.46
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	14	0.46
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	19	0.46
(1,924)	1:74:A:VAL:HG22	1:84:A:ASP:H	12	0.46
(1,912)	1:54:A:LYS:HB3	1:82:A:SER:H	5	0.46
(1,912)	1:54:A:LYS:HB3	1:82:A:SER:H	16	0.46
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	6	0.46
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG11	16	0.46
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	8	0.46
(1,649)	1:62:A:LEU:H	1:90:A:ALA:HA	7	0.46
(1,640)	1:62:A:LEU:H	1:62:A:LEU:HB2	4	0.46
(1,640)	1:62:A:LEU:H	1:62:A:LEU:HB2	18	0.46
(1,563)	1:54:A:LYS:HG3	1:56:A:THR:H	15	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,550)	1:55:A:ALA:H	1:83:A:VAL:HG11	18	0.46
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG22	7	0.46
(1,342)	1:31:A:VAL:HG23	1:34:A:HIS:H	13	0.46
(1,342)	1:31:A:VAL:HG22	1:34:A:HIS:H	19	0.46
(1,303)	1:132:A:LEU:H	1:132:A:LEU:HD21	15	0.46
(1,300)	1:132:A:LEU:H	1:132:A:LEU:HG	5	0.46
(1,297)	1:31:A:VAL:HG12	1:32:A:GLN:H	5	0.46
(1,246)	1:29:A:LYS:H	1:29:A:LYS:HD3	15	0.46
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG21	17	0.46
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	2	0.46
(1,75)	1:4:A:PHE:H	1:83:A:VAL:HG21	12	0.46
(1,67)	1:4:A:PHE:H	1:82:A:SER:HB2	7	0.46
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD13	8	0.45
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	11	0.45
(3,2512)	1:97:A:GLN:HE21	1:114:A:VAL:HA	12	0.45
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG13	10	0.45
(3,2465)	1:110:A:ILE:HD12	1:144:A:LEU:H	7	0.45
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG22	16	0.45
(3,2415)	1:70:A:ILE:H	1:71:A:LEU:HD11	11	0.45
(3,2368)	1:66:A:ALA:H	1:68:A:GLU:HG3	18	0.45
(3,2304)	1:138:A:ILE:HB	1:144:A:LEU:HD23	6	0.45
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD21	13	0.45
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD22	13	0.45
(3,2298)	1:128:A:ASN:HD21	1:144:A:LEU:HD23	13	0.45
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	15	0.45
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	18	0.45
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	19	0.45
(3,2275)	1:132:A:LEU:HD11	1:139:A:TYR:HD1	18	0.45
(3,2193)	1:3:A:LEU:HD11	1:85:A:ASP:H	11	0.45
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	7	0.45
(3,2171)	1:125:A:PHE:HB3	1:126:A:GLU:HB2	2	0.45
(3,2146)	1:118:A:ALA:HB3	1:121:A:TYR:HD1	4	0.45
(3,2130)	1:122:A:ASN:HB3	1:125:A:PHE:HD1	13	0.45
(3,2129)	1:122:A:ASN:HB3	1:125:A:PHE:HD1	13	0.45
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD21	12	0.45
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG21	16	0.45
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB2	3	0.45
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	2	0.45
(3,1944)	1:4:A:PHE:H	1:82:A:SER:HB3	10	0.45
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	7	0.45
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	7	0.45
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	7	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	9	0.45
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	9	0.45
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	9	0.45
(3,1875)	1:72:A:VAL:HG22	1:76:A:ASN:HB2	9	0.45
(3,1875)	1:72:A:VAL:HG21	1:76:A:ASN:HB2	14	0.45
(3,1875)	1:72:A:VAL:HG22	1:76:A:ASN:HB2	19	0.45
(3,1849)	1:81:A:ALA:HB1	1:82:A:SER:HB2	13	0.45
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	1	0.45
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	14	0.45
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	5	0.45
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	14	0.45
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	16	0.45
(3,1758)	1:49:A:GLN:HB2	1:56:A:THR:HB	2	0.45
(3,1758)	1:49:A:GLN:HB2	1:56:A:THR:HB	8	0.45
(3,1758)	1:49:A:GLN:HB2	1:56:A:THR:HB	15	0.45
(3,1738)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	1	0.45
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG21	17	0.45
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	8	0.45
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	8	0.45
(3,1721)	1:40:A:ILE:HA	1:130:A:PRO:HG3	9	0.45
(3,1712)	1:57:A:VAL:HG21	1:84:A:ASP:H	1	0.45
(3,1712)	1:57:A:VAL:HG22	1:84:A:ASP:H	19	0.45
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG22	19	0.45
(3,1664)	1:105:A:ASP:HB2	1:138:A:ILE:HD13	9	0.45
(3,1637)	1:91:A:THR:HG22	1:92:A:PRO:HD2	3	0.45
(3,1637)	1:91:A:THR:HG22	1:92:A:PRO:HD2	19	0.45
(3,1556)	1:48:A:ILE:HG21	1:55:A:ALA:HB3	6	0.45
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD12	19	0.45
(3,1481)	1:38:A:THR:HB	1:130:A:PRO:HD3	3	0.45
(3,1478)	1:134:A:SER:HB3	1:137:A:LYS:H	5	0.45
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	7	0.45
(3,1426)	1:62:A:LEU:HD22	1:66:A:ALA:HB1	20	0.45
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	5	0.45
(3,1342)	1:46:A:VAL:HG22	1:47:A:ASN:H	6	0.45
(3,1336)	1:72:A:VAL:HG11	1:73:A:ALA:H	1	0.45
(3,1336)	1:72:A:VAL:HG12	1:73:A:ALA:H	1	0.45
(3,1336)	1:72:A:VAL:HG13	1:73:A:ALA:H	1	0.45
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG22	15	0.45
(3,1298)	1:75:A:GLY:HA3	1:83:A:VAL:HG21	11	0.45
(3,1298)	1:75:A:GLY:HA3	1:83:A:VAL:HG22	11	0.45
(3,1298)	1:75:A:GLY:HA3	1:83:A:VAL:HG23	11	0.45
(3,1292)	1:120:A:LEU:HD13	1:123:A:LYS:HD3	16	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	9	0.45
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	9	0.45
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	9	0.45
(3,1223)	1:25:A:ASP:HB3	1:28:A:ALA:HB1	6	0.45
(3,1223)	1:25:A:ASP:HB2	1:28:A:ALA:HB2	8	0.45
(3,1219)	1:28:A:ALA:HB1	1:48:A:ILE:HA	3	0.45
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	20	0.45
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB3	11	0.45
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	19	0.45
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB2	8	0.45
(3,1063)	1:13:A:LYS:HG3	1:78:A:SER:HB3	15	0.45
(3,1057)	1:18:A:VAL:HG13	1:19:A:THR:HA	4	0.45
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	15	0.45
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG12	13	0.45
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG23	13	0.45
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG23	8	0.45
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG23	15	0.45
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG21	2	0.45
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG23	4	0.45
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG23	17	0.45
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	2	0.45
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	14	0.45
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD21	9	0.45
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	9	0.45
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	9	0.45
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD21	9	0.45
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	9	0.45
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	9	0.45
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB1	5	0.45
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB2	5	0.45
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB3	5	0.45
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	15	0.45
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	15	0.45
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	15	0.45
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD12	5	0.45
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD11	7	0.45
(3,797)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	10	0.45
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	5	0.45
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	5	0.45
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	5	0.45
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	2	0.45
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	2	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	2	0.45
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	20	0.45
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	20	0.45
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	20	0.45
(3,715)	1:138:A:ILE:HA	1:144:A:LEU:HD13	2	0.45
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	18	0.45
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	3	0.45
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	8	0.45
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	8	0.45
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	8	0.45
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	8	0.45
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	8	0.45
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	8	0.45
(3,632)	1:25:A:ASP:HB2	1:28:A:ALA:HB1	15	0.45
(3,583)	1:4:A:PHE:HB3	1:6:A:PHE:HZ	6	0.45
(3,563)	1:107:A:LEU:HD21	1:125:A:PHE:H	16	0.45
(3,562)	1:107:A:LEU:HD23	1:121:A:TYR:HD2	3	0.45
(3,533)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	13	0.45
(3,419)	1:131:A:MET:HE3	1:132:A:LEU:HA	16	0.45
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	5	0.45
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	9	0.45
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	11	0.45
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	4	0.45
(3,305)	1:55:A:ALA:HB1	1:56:A:THR:H	7	0.45
(3,273)	1:64:A:GLN:HG3	1:93:A:ALA:HB1	5	0.45
(3,229)	1:18:A:VAL:HG11	1:19:A:THR:H	19	0.45
(3,221)	1:150:A:LEU:H	1:150:A:LEU:HD11	6	0.45
(3,221)	1:150:A:LEU:H	1:150:A:LEU:HD12	14	0.45
(3,164)	1:107:A:LEU:HG	1:122:A:ASN:HA	7	0.45
(3,161)	1:113:A:GLN:H	1:113:A:GLN:HG3	13	0.45
(3,95)	1:138:A:ILE:HD13	1:139:A:TYR:H	10	0.45
(3,94)	1:138:A:ILE:HG23	1:139:A:TYR:H	1	0.45
(3,88)	1:67:A:LYS:H	1:67:A:LYS:HB2	3	0.45
(3,72)	1:31:A:VAL:H	1:50:A:ILE:HG13	19	0.45
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG21	16	0.45
(1,1854)	1:11:A:GLY:H	1:142:A:GLN:HB3	12	0.45
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	9	0.45
(1,1594)	1:64:A:GLN:HE21	1:67:A:LYS:HB3	11	0.45
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD23	11	0.45
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD22	19	0.45
(1,1488)	1:7:A:VAL:HG21	1:143:A:VAL:H	7	0.45
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	7	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1462)	1:101:A:VAL:HG11	1:142:A:GLN:H	7	0.45
(1,1462)	1:101:A:VAL:HG11	1:142:A:GLN:H	9	0.45
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	16	0.45
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	16	0.45
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	16	0.45
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	5	0.45
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	16	0.45
(1,1313)	1:125:A:PHE:HD2	1:128:A:ASN:H	6	0.45
(1,1298)	1:123:A:LYS:HE3	1:127:A:ALA:H	20	0.45
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG21	5	0.45
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	10	0.45
(1,1130)	1:112:A:LYS:HE2	1:113:A:GLN:H	8	0.45
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	1	0.45
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	6	0.45
(1,1074)	1:109:A:ALA:H	1:112:A:LYS:HB2	8	0.45
(1,1074)	1:109:A:ALA:H	1:112:A:LYS:HB2	14	0.45
(1,1025)	1:100:A:THR:H	1:101:A:VAL:HG21	17	0.45
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	8	0.45
(1,843)	1:14:A:LEU:HD11	1:78:A:SER:H	10	0.45
(1,843)	1:14:A:LEU:HD12	1:78:A:SER:H	10	0.45
(1,843)	1:14:A:LEU:HD13	1:78:A:SER:H	10	0.45
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HG3	20	0.45
(1,758)	1:68:A:GLU:HG3	1:71:A:LEU:H	10	0.45
(1,732)	1:40:A:ILE:HG22	1:69:A:LYS:H	8	0.45
(1,725)	1:68:A:GLU:HG3	1:69:A:LYS:H	12	0.45
(1,614)	1:59:A:GLY:H	1:67:A:LYS:HG3	12	0.45
(1,586)	1:58:A:THR:H	1:87:A:VAL:HG23	17	0.45
(1,583)	1:57:A:VAL:H	1:57:A:VAL:HG13	8	0.45
(1,568)	1:54:A:LYS:HG2	1:56:A:THR:H	14	0.45
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG23	10	0.45
(1,487)	1:31:A:VAL:HG13	1:48:A:ILE:H	7	0.45
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG11	10	0.45
(1,389)	1:38:A:THR:H	1:77:A:ILE:HD11	6	0.45
(1,375)	1:35:A:LEU:HD12	1:36:A:ASN:H	15	0.45
(1,342)	1:31:A:VAL:HG21	1:34:A:HIS:H	11	0.45
(1,305)	1:33:A:GLU:H	1:35:A:LEU:HD13	16	0.45
(1,272)	1:30:A:LYS:HG2	1:31:A:VAL:H	20	0.45
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG13	7	0.45
(1,249)	1:25:A:ASP:HB2	1:29:A:LYS:H	7	0.45
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	5	0.45
(1,83)	1:6:A:PHE:H	1:98:A:PHE:HB3	2	0.45
(1,75)	1:4:A:PHE:H	1:71:A:LEU:HD21	1	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	2	0.44
(3,2577)	1:65:A:GLU:HB2	1:66:A:ALA:H	5	0.44
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	6	0.44
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG11	20	0.44
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	17	0.44
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	17	0.44
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	17	0.44
(3,2497)	1:56:A:THR:HG21	1:58:A:THR:H	5	0.44
(3,2497)	1:56:A:THR:HG23	1:58:A:THR:H	8	0.44
(3,2497)	1:56:A:THR:HG22	1:58:A:THR:H	11	0.44
(3,2487)	1:35:A:LEU:HD21	1:43:A:ALA:HA	3	0.44
(3,2487)	1:35:A:LEU:HD23	1:43:A:ALA:HA	7	0.44
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG21	19	0.44
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG22	19	0.44
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG23	19	0.44
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG21	19	0.44
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG22	19	0.44
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG23	19	0.44
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG11	4	0.44
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD22	13	0.44
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	2	0.44
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	15	0.44
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	2	0.44
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	9	0.44
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	12	0.44
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	20	0.44
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD11	1	0.44
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	16	0.44
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	18	0.44
(3,2211)	1:129:A:LYS:H	1:131:A:MET:HE3	3	0.44
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE1	12	0.44
(3,2209)	1:38:A:THR:HG21	1:131:A:MET:HG3	20	0.44
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	2	0.44
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	13	0.44
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	14	0.44
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	17	0.44
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	18	0.44
(3,2180)	1:109:A:ALA:HA	1:112:A:LYS:HD2	16	0.44
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	2	0.44
(3,2171)	1:124:A:ILE:HB	1:125:A:PHE:HB3	11	0.44
(3,2157)	1:72:A:VAL:HA	1:75:A:GLY:H	11	0.44
(3,2120)	1:132:A:LEU:HD13	1:139:A:TYR:HE1	19	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2087)	1:101:A:VAL:HG11	1:110:A:ILE:HG21	10	0.44
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	6	0.44
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	17	0.44
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG13	5	0.44
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG13	10	0.44
(3,1997)	1:58:A:THR:HG22	1:88:A:LYS:HE2	3	0.44
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG22	3	0.44
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	15	0.44
(3,1944)	1:55:A:ALA:H	1:82:A:SER:HB3	19	0.44
(3,1928)	1:77:A:ILE:HD13	1:78:A:SER:H	5	0.44
(3,1877)	1:45:A:LYS:HA	1:45:A:LYS:HG3	1	0.44
(3,1860)	1:66:A:ALA:HB1	1:70:A:ILE:HD12	2	0.44
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD11	18	0.44
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD21	9	0.44
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD22	9	0.44
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD23	9	0.44
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	8	0.44
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	10	0.44
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	9	0.44
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	12	0.44
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	19	0.44
(3,1746)	1:18:A:VAL:HB	1:19:A:THR:HG22	5	0.44
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD12	1	0.44
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	17	0.44
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	17	0.44
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	17	0.44
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	17	0.44
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	17	0.44
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	17	0.44
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	18	0.44
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	18	0.44
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	18	0.44
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	18	0.44
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	18	0.44
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	18	0.44
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	1	0.44
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	13	0.44
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	17	0.44
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	19	0.44
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	19	0.44
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	19	0.44
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD11	18	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1481)	1:38:A:THR:HB	1:130:A:PRO:HD3	4	0.44
(3,1475)	1:54:A:LYS:HD2	1:84:A:ASP:HA	16	0.44
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	17	0.44
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	9	0.44
(3,1425)	1:112:A:LYS:HD2	1:112:A:LYS:HG2	19	0.44
(3,1421)	1:24:A:LYS:HA	1:50:A:ILE:HB	2	0.44
(3,1338)	1:72:A:VAL:HG13	1:145:A:ARG:H	10	0.44
(3,1317)	1:58:A:THR:HA	1:87:A:VAL:HG13	2	0.44
(3,1308)	1:31:A:VAL:HG12	1:77:A:ILE:HG12	12	0.44
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG12	6	0.44
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG11	15	0.44
(3,1292)	1:120:A:LEU:HD13	1:123:A:LYS:HD3	6	0.44
(3,1287)	1:101:A:VAL:HG21	1:105:A:ASP:HB3	19	0.44
(3,1287)	1:101:A:VAL:HG22	1:105:A:ASP:HB3	19	0.44
(3,1287)	1:101:A:VAL:HG23	1:105:A:ASP:HB3	19	0.44
(3,1232)	1:28:A:ALA:HB2	1:29:A:LYS:HB2	16	0.44
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	6	0.44
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	6	0.44
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	6	0.44
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	7	0.44
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	7	0.44
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	7	0.44
(3,1223)	1:25:A:ASP:HB3	1:28:A:ALA:HB2	9	0.44
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB1	12	0.44
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	1	0.44
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	12	0.44
(3,1107)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	20	0.44
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG12	18	0.44
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG12	9	0.44
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG12	1	0.44
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG12	13	0.44
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG12	15	0.44
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG11	17	0.44
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG12	17	0.44
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG13	17	0.44
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB1	4	0.44
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB3	5	0.44
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG23	11	0.44
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG21	20	0.44
(3,948)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	3	0.44
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD11	11	0.44
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	1	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	8	0.44
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	8	0.44
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	8	0.44
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG23	1	0.44
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG22	14	0.44
(3,706)	1:64:A:GLN:HG3	1:93:A:ALA:H	10	0.44
(3,705)	1:31:A:VAL:H	1:31:A:VAL:HB	9	0.44
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	12	0.44
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	12	0.44
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	12	0.44
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	12	0.44
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	12	0.44
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	12	0.44
(3,632)	1:9:A:ASP:HB3	1:10:A:ALA:HB2	5	0.44
(3,561)	1:107:A:LEU:HD22	1:138:A:ILE:H	12	0.44
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	5	0.44
(3,431)	1:99:A:TYR:HD1	1:110:A:ILE:HG23	14	0.44
(3,417)	1:131:A:MET:HE2	1:132:A:LEU:H	20	0.44
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	5	0.44
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE3	1	0.44
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB1	5	0.44
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB3	8	0.44
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	13	0.44
(3,249)	1:62:A:LEU:HD23	1:63:A:SER:H	14	0.44
(3,234)	1:59:A:GLY:H	1:88:A:LYS:HE3	6	0.44
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	1	0.44
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD1	5	0.44
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD2	5	0.44
(3,125)	1:100:A:THR:HG23	1:142:A:GLN:H	17	0.44
(3,66)	1:80:A:ILE:HD12	1:81:A:ALA:H	2	0.44
(3,66)	1:80:A:ILE:HD13	1:81:A:ALA:H	17	0.44
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	10	0.44
(1,1846)	1:105:A:ASP:HB2	1:106:A:THR:H	6	0.44
(1,1697)	1:107:A:LEU:HD11	1:128:A:ASN:HD21	5	0.44
(1,1566)	1:149:A:GLU:HB2	1:150:A:LEU:H	14	0.44
(1,1466)	1:101:A:VAL:HB	1:142:A:GLN:H	20	0.44
(1,1462)	1:101:A:VAL:HG12	1:142:A:GLN:H	3	0.44
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	10	0.44
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	10	0.44
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	10	0.44
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	16	0.44
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE3	15	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD12	18	0.44
(1,1218)	1:120:A:LEU:H	1:120:A:LEU:HG	15	0.44
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG22	6	0.44
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	4	0.44
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	4	0.44
(1,759)	1:71:A:LEU:H	1:71:A:LEU:HG	3	0.44
(1,759)	1:71:A:LEU:H	1:71:A:LEU:HG	11	0.44
(1,758)	1:68:A:GLU:HG3	1:71:A:LEU:H	7	0.44
(1,758)	1:68:A:GLU:HG3	1:71:A:LEU:H	16	0.44
(1,750)	1:71:A:LEU:H	1:98:A:PHE:HE2	19	0.44
(1,725)	1:68:A:GLU:HG3	1:69:A:LYS:H	3	0.44
(1,694)	1:65:A:GLU:HB3	1:67:A:LYS:H	16	0.44
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	19	0.44
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG21	18	0.44
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG22	18	0.44
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG23	18	0.44
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG21	10	0.44
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG22	10	0.44
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG23	10	0.44
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG12	19	0.44
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG23	6	0.44
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG21	20	0.44
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG22	5	0.44
(1,367)	1:32:A:GLN:HG3	1:36:A:ASN:H	20	0.44
(1,346)	1:124:A:ILE:HD13	1:125:A:PHE:H	17	0.44
(1,249)	1:25:A:ASP:HB2	1:29:A:LYS:H	16	0.44
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG23	2	0.44
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	2	0.44
(1,12)	1:14:A:LEU:HB2	1:15:A:TRP:HE1	19	0.44
(3,2549)	1:132:A:LEU:HD11	1:142:A:GLN:HE21	10	0.43
(3,2549)	1:132:A:LEU:HD12	1:142:A:GLN:HE21	10	0.43
(3,2549)	1:132:A:LEU:HD13	1:142:A:GLN:HE21	10	0.43
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG11	9	0.43
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG12	9	0.43
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG13	9	0.43
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG22	2	0.43
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG23	13	0.43
(3,2487)	1:43:A:ALA:HA	1:46:A:VAL:HG11	10	0.43
(3,2463)	1:82:A:SER:HB3	1:84:A:ASP:H	1	0.43
(3,2463)	1:82:A:SER:HB3	1:84:A:ASP:H	11	0.43
(3,2368)	1:66:A:ALA:H	1:68:A:GLU:HG3	9	0.43
(3,2346)	1:100:A:THR:HA	1:101:A:VAL:HG22	18	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD1	15	0.43
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD2	18	0.43
(3,2336)	1:69:A:LYS:HD3	1:145:A:ARG:HD2	15	0.43
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD23	2	0.43
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	8	0.43
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	11	0.43
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	17	0.43
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD11	9	0.43
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	3	0.43
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	18	0.43
(3,2193)	1:3:A:LEU:HD13	1:85:A:ASP:H	7	0.43
(3,2193)	1:3:A:LEU:HD12	1:85:A:ASP:H	9	0.43
(3,2187)	1:26:A:ASP:HB3	1:29:A:LYS:HB3	13	0.43
(3,2160)	1:124:A:ILE:HG21	1:128:A:ASN:H	14	0.43
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	5	0.43
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	10	0.43
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	2	0.43
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	19	0.43
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG13	2	0.43
(3,1994)	1:128:A:ASN:H	1:145:A:ARG:HB3	5	0.43
(3,1992)	1:123:A:LYS:HE3	1:147:A:PRO:HG2	9	0.43
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG22	19	0.43
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	1	0.43
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	8	0.43
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	20	0.43
(3,1928)	1:77:A:ILE:HD11	1:78:A:SER:H	8	0.43
(3,1920)	1:77:A:ILE:HG23	1:80:A:ILE:HG13	9	0.43
(3,1860)	1:66:A:ALA:HB3	1:70:A:ILE:HD13	10	0.43
(3,1860)	1:66:A:ALA:HB3	1:70:A:ILE:HD11	13	0.43
(3,1851)	1:3:A:LEU:HG	1:82:A:SER:HB3	12	0.43
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD11	9	0.43
(3,1794)	1:107:A:LEU:HD11	1:135:A:PRO:HA	9	0.43
(3,1794)	1:107:A:LEU:HD12	1:135:A:PRO:HA	9	0.43
(3,1794)	1:107:A:LEU:HD13	1:135:A:PRO:HA	9	0.43
(3,1786)	1:128:A:ASN:H	1:132:A:LEU:HD13	9	0.43
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD21	1	0.43
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD22	1	0.43
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD23	1	0.43
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	2	0.43
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	7	0.43
(3,1752)	1:14:A:LEU:HD23	1:30:A:LYS:HB2	15	0.43
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG21	11	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1707)	1:53:A:GLY:HA3	1:80:A:ILE:HA	10	0.43
(3,1696)	1:115:A:TYR:HD1	1:146:A:ILE:HG21	12	0.43
(3,1685)	1:139:A:TYR:H	1:142:A:GLN:HG2	7	0.43
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	16	0.43
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	16	0.43
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	16	0.43
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	16	0.43
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	16	0.43
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	16	0.43
(3,1598)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	3	0.43
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	12	0.43
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	12	0.43
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	12	0.43
(3,1539)	1:40:A:ILE:HD11	1:73:A:ALA:HB3	1	0.43
(3,1539)	1:40:A:ILE:HD11	1:73:A:ALA:HB2	11	0.43
(3,1495)	1:125:A:PHE:HD2	1:132:A:LEU:HG	12	0.43
(3,1478)	1:134:A:SER:HB3	1:137:A:LYS:H	10	0.43
(3,1475)	1:142:A:GLN:HB3	1:143:A:VAL:HA	1	0.43
(3,1425)	1:13:A:LYS:HD2	1:13:A:LYS:HG2	6	0.43
(3,1425)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	16	0.43
(3,1405)	1:126:A:GLU:HB3	1:126:A:GLU:HG2	4	0.43
(3,1405)	1:126:A:GLU:HB3	1:126:A:GLU:HG2	8	0.43
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	1	0.43
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	2	0.43
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG13	20	0.43
(3,1325)	1:99:A:TYR:HE1	1:101:A:VAL:HG23	7	0.43
(3,1317)	1:72:A:VAL:HG12	1:144:A:LEU:HA	18	0.43
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG22	20	0.43
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	14	0.43
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	14	0.43
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	14	0.43
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	18	0.43
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	18	0.43
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	18	0.43
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB3	17	0.43
(3,1219)	1:28:A:ALA:HB3	1:48:A:ILE:HA	11	0.43
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	7	0.43
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	10	0.43
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	13	0.43
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	16	0.43
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	16	0.43
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	15	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	15	0.43
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB3	10	0.43
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB3	12	0.43
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	12	0.43
(3,1085)	1:142:A:GLN:HE21	1:144:A:LEU:HD12	20	0.43
(3,1063)	1:13:A:LYS:HG3	1:78:A:SER:HB3	19	0.43
(3,1029)	1:56:A:THR:HG23	1:86:A:GLN:HB2	13	0.43
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	19	0.43
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	19	0.43
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	19	0.43
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG22	10	0.43
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	12	0.43
(3,952)	1:42:A:ASP:HB3	1:62:A:LEU:HD22	20	0.43
(3,947)	1:107:A:LEU:HD11	1:135:A:PRO:HA	9	0.43
(3,947)	1:107:A:LEU:HD12	1:135:A:PRO:HA	9	0.43
(3,947)	1:107:A:LEU:HD13	1:135:A:PRO:HA	9	0.43
(3,926)	1:35:A:LEU:HD23	1:43:A:ALA:HA	5	0.43
(3,906)	1:120:A:LEU:HD23	1:123:A:LYS:HE2	6	0.43
(3,901)	1:21:A:GLN:HA	1:21:A:GLN:HG3	10	0.43
(3,901)	1:21:A:GLN:HA	1:21:A:GLN:HG2	10	0.43
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	14	0.43
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	12	0.43
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	12	0.43
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	12	0.43
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB1	20	0.43
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB2	20	0.43
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB3	20	0.43
(3,798)	1:117:A:ASN:HB2	1:120:A:LEU:HG	18	0.43
(3,753)	1:132:A:LEU:HG	1:144:A:LEU:HD12	1	0.43
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG22	9	0.43
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	7	0.43
(3,624)	1:107:A:LEU:HB2	1:107:A:LEU:HD13	20	0.43
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	17	0.43
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG21	5	0.43
(3,514)	1:125:A:PHE:HE2	1:132:A:LEU:HG	14	0.43
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	9	0.43
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	6	0.43
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD22	14	0.43
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	10	0.43
(3,430)	1:99:A:TYR:HD1	1:114:A:VAL:HG21	17	0.43
(3,422)	1:40:A:ILE:HD12	1:131:A:MET:HA	15	0.43
(3,383)	1:64:A:GLN:HG2	1:65:A:GLU:H	14	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	19	0.43
(3,361)	1:20:A:GLY:H	1:21:A:GLN:HB3	10	0.43
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	3	0.43
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	9	0.43
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	15	0.43
(3,330)	1:111:A:SER:HB2	1:112:A:LYS:H	14	0.43
(3,316)	1:61:A:GLY:H	1:62:A:LEU:HG	16	0.43
(3,272)	1:64:A:GLN:HA	1:93:A:ALA:HB3	6	0.43
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	9	0.43
(3,234)	1:45:A:LYS:H	1:45:A:LYS:HE2	14	0.43
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	13	0.43
(3,161)	1:113:A:GLN:H	1:113:A:GLN:HG3	12	0.43
(3,125)	1:100:A:THR:HG21	1:142:A:GLN:H	7	0.43
(3,116)	1:85:A:ASP:H	1:85:A:ASP:HB2	9	0.43
(3,78)	1:57:A:VAL:HG13	1:71:A:LEU:H	11	0.43
(3,77)	1:57:A:VAL:HG11	1:58:A:THR:H	10	0.43
(3,72)	1:31:A:VAL:H	1:50:A:ILE:HG13	14	0.43
(3,66)	1:80:A:ILE:HD11	1:81:A:ALA:H	8	0.43
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	6	0.43
(3,48)	1:59:A:GLY:H	1:88:A:LYS:HG3	7	0.43
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	16	0.43
(1,2145)	1:88:A:LYS:H	1:88:A:LYS:HG2	1	0.43
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	1	0.43
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	6	0.43
(1,1571)	1:148:A:GLU:HG3	1:151:A:GLU:H	16	0.43
(1,1529)	1:33:A:GLU:HA	1:36:A:ASN:HD22	2	0.43
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD21	2	0.43
(1,1488)	1:7:A:VAL:HG21	1:143:A:VAL:H	10	0.43
(1,1462)	1:101:A:VAL:HG13	1:142:A:GLN:H	2	0.43
(1,1462)	1:101:A:VAL:HG11	1:142:A:GLN:H	6	0.43
(1,1462)	1:101:A:VAL:HG12	1:142:A:GLN:H	11	0.43
(1,1456)	1:101:A:VAL:HG21	1:141:A:GLY:H	1	0.43
(1,1456)	1:101:A:VAL:HG22	1:141:A:GLY:H	1	0.43
(1,1456)	1:101:A:VAL:HG23	1:141:A:GLY:H	1	0.43
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	1	0.43
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	18	0.43
(1,1313)	1:125:A:PHE:HD2	1:128:A:ASN:H	8	0.43
(1,1173)	1:114:A:VAL:HG13	1:116:A:GLY:H	9	0.43
(1,1104)	1:111:A:SER:H	1:124:A:ILE:HG23	18	0.43
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	7	0.43
(1,1074)	1:109:A:ALA:H	1:112:A:LYS:HB2	19	0.43
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	14	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	10	0.43
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	20	0.43
(1,925)	1:49:A:GLN:HB2	1:84:A:ASP:H	8	0.43
(1,925)	1:49:A:GLN:HB2	1:84:A:ASP:H	15	0.43
(1,705)	1:68:A:GLU:H	1:69:A:LYS:HD3	8	0.43
(1,644)	1:62:A:LEU:H	1:67:A:LYS:HB3	14	0.43
(1,640)	1:62:A:LEU:H	1:62:A:LEU:HB2	7	0.43
(1,640)	1:62:A:LEU:H	1:62:A:LEU:HB2	13	0.43
(1,600)	1:59:A:GLY:H	1:87:A:VAL:H	12	0.43
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG21	3	0.43
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG22	3	0.43
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG23	3	0.43
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG21	9	0.43
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG22	9	0.43
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG23	9	0.43
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB2	2	0.43
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG12	11	0.43
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG22	9	0.43
(1,479)	1:46:A:VAL:HB	1:47:A:ASN:H	8	0.43
(1,435)	1:44:A:ASP:H	1:45:A:LYS:HD2	11	0.43
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG13	5	0.43
(1,352)	1:35:A:LEU:H	1:35:A:LEU:HG	1	0.43
(1,346)	1:124:A:ILE:HD11	1:125:A:PHE:H	19	0.43
(1,342)	1:31:A:VAL:HG22	1:34:A:HIS:H	9	0.43
(1,342)	1:31:A:VAL:HG22	1:34:A:HIS:H	20	0.43
(1,273)	1:28:A:ALA:HB1	1:31:A:VAL:H	19	0.43
(1,272)	1:30:A:LYS:HG2	1:31:A:VAL:H	7	0.43
(1,249)	1:25:A:ASP:HB3	1:29:A:LYS:H	10	0.43
(1,246)	1:29:A:LYS:H	1:30:A:LYS:HD2	20	0.43
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG21	19	0.43
(1,215)	1:22:A:HIS:HB2	1:26:A:ASP:H	8	0.43
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	9	0.43
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	20	0.43
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB2	17	0.43
(1,15)	1:15:A:TRP:HE1	1:80:A:ILE:HD12	4	0.43
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	19	0.42
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	9	0.42
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	9	0.42
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	9	0.42
(3,2549)	1:132:A:LEU:HD11	1:142:A:GLN:HE21	9	0.42
(3,2549)	1:132:A:LEU:HD12	1:142:A:GLN:HE21	9	0.42
(3,2549)	1:132:A:LEU:HD13	1:142:A:GLN:HE21	9	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG11	3	0.42
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG12	3	0.42
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG13	3	0.42
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	5	0.42
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG21	1	0.42
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG22	5	0.42
(3,2510)	1:110:A:ILE:HD12	1:114:A:VAL:HG11	3	0.42
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	19	0.42
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	19	0.42
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	19	0.42
(3,2497)	1:56:A:THR:HG21	1:58:A:THR:H	18	0.42
(3,2484)	1:53:A:GLY:HA3	1:80:A:ILE:HA	15	0.42
(3,2464)	1:82:A:SER:HB2	1:84:A:ASP:H	12	0.42
(3,2463)	1:82:A:SER:HB3	1:84:A:ASP:H	7	0.42
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG21	3	0.42
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	6	0.42
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	6	0.42
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	6	0.42
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG21	7	0.42
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG22	7	0.42
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG23	7	0.42
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG21	7	0.42
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG22	7	0.42
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG23	7	0.42
(3,2339)	1:149:A:GLU:HG3	1:152:A:HIS:HB3	9	0.42
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	6	0.42
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	18	0.42
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	10	0.42
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	12	0.42
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE2	4	0.42
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE2	15	0.42
(3,2193)	1:3:A:LEU:HD11	1:85:A:ASP:H	17	0.42
(3,2171)	1:124:A:ILE:HB	1:125:A:PHE:HB3	5	0.42
(3,2171)	1:124:A:ILE:HB	1:125:A:PHE:HB3	18	0.42
(3,2170)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	20	0.42
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD11	7	0.42
(3,2144)	1:117:A:ASN:H	1:120:A:LEU:HD23	9	0.42
(3,2087)	1:101:A:VAL:HG11	1:110:A:ILE:HG21	3	0.42
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	17	0.42
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB2	16	0.42
(3,2059)	1:130:A:PRO:HG3	1:131:A:MET:H	18	0.42
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	17	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	3	0.42
(3,1944)	1:4:A:PHE:H	1:82:A:SER:HB3	4	0.42
(3,1943)	1:55:A:ALA:H	1:82:A:SER:HB2	13	0.42
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	15	0.42
(3,1928)	1:77:A:ILE:HD12	1:78:A:SER:H	18	0.42
(3,1923)	1:77:A:ILE:HG22	1:80:A:ILE:HB	15	0.42
(3,1920)	1:77:A:ILE:HG22	1:80:A:ILE:HG13	20	0.42
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	13	0.42
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	13	0.42
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	13	0.42
(3,1849)	1:81:A:ALA:HB2	1:82:A:SER:HB2	11	0.42
(3,1818)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	11	0.42
(3,1789)	1:3:A:LEU:HD12	1:82:A:SER:HA	8	0.42
(3,1773)	1:78:A:SER:HA	1:79:A:GLY:HA3	17	0.42
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	11	0.42
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	13	0.42
(3,1752)	1:14:A:LEU:HD23	1:30:A:LYS:HB2	16	0.42
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG21	7	0.42
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	10	0.42
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	10	0.42
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	13	0.42
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	13	0.42
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	15	0.42
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	15	0.42
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	18	0.42
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	18	0.42
(3,1598)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	11	0.42
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	14	0.42
(3,1577)	1:40:A:ILE:HD13	1:41:A:PRO:HD3	6	0.42
(3,1573)	1:40:A:ILE:HD13	1:41:A:PRO:HD2	17	0.42
(3,1556)	1:48:A:ILE:HG23	1:55:A:ALA:HB3	11	0.42
(3,1478)	1:134:A:SER:HB3	1:137:A:LYS:H	6	0.42
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	6	0.42
(3,1426)	1:45:A:LYS:HG3	1:62:A:LEU:HD23	8	0.42
(3,1425)	1:13:A:LYS:HD3	1:13:A:LYS:HG2	14	0.42
(3,1421)	1:24:A:LYS:HA	1:50:A:ILE:HB	13	0.42
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	5	0.42
(3,1405)	1:126:A:GLU:HB3	1:126:A:GLU:HG2	12	0.42
(3,1393)	1:96:A:SER:HA	1:148:A:GLU:HB2	12	0.42
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG12	15	0.42
(3,1338)	1:72:A:VAL:HG13	1:145:A:ARG:H	13	0.42
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	9	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	9	0.42
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	9	0.42
(3,1292)	1:120:A:LEU:HD11	1:123:A:LYS:HD3	9	0.42
(3,1269)	1:31:A:VAL:HG22	1:50:A:ILE:HD12	4	0.42
(3,1268)	1:31:A:VAL:HG12	1:31:A:VAL:HG23	7	0.42
(3,1229)	1:28:A:ALA:HB3	1:48:A:ILE:HG22	18	0.42
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB3	9	0.42
(3,1219)	1:28:A:ALA:HB3	1:48:A:ILE:HA	4	0.42
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	9	0.42
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	18	0.42
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	19	0.42
(3,1138)	1:123:A:LYS:HA	1:123:A:LYS:HG3	10	0.42
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	1	0.42
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	9	0.42
(3,1120)	1:115:A:TYR:HA	1:117:A:ASN:H	7	0.42
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	20	0.42
(3,1084)	1:142:A:GLN:HE21	1:144:A:LEU:HD11	20	0.42
(3,1084)	1:142:A:GLN:HE21	1:144:A:LEU:HD12	20	0.42
(3,1084)	1:142:A:GLN:HE21	1:144:A:LEU:HD13	20	0.42
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG12	18	0.42
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	12	0.42
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	12	0.42
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	12	0.42
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB1	20	0.42
(3,1008)	1:15:A:TRP:HZ2	1:17:A:ALA:HB1	2	0.42
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG22	3	0.42
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG21	18	0.42
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	10	0.42
(3,926)	1:35:A:LEU:HD21	1:43:A:ALA:HA	3	0.42
(3,926)	1:35:A:LEU:HD23	1:43:A:ALA:HA	7	0.42
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	13	0.42
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD13	13	0.42
(3,906)	1:120:A:LEU:HD22	1:123:A:LYS:HE2	3	0.42
(3,901)	1:21:A:GLN:HA	1:21:A:GLN:HG3	12	0.42
(3,901)	1:21:A:GLN:HA	1:21:A:GLN:HG2	12	0.42
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	7	0.42
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	7	0.42
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	7	0.42
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD21	20	0.42
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	20	0.42
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	20	0.42
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD21	20	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	20	0.42
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	20	0.42
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB1	8	0.42
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB2	8	0.42
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB3	8	0.42
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD12	4	0.42
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD13	15	0.42
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	15	0.42
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	15	0.42
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	15	0.42
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	14	0.42
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	14	0.42
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	14	0.42
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	17	0.42
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	17	0.42
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	17	0.42
(3,705)	1:31:A:VAL:H	1:31:A:VAL:HB	6	0.42
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	19	0.42
(3,674)	1:105:A:ASP:HB2	1:138:A:ILE:HD11	8	0.42
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	8	0.42
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	4	0.42
(3,632)	1:9:A:ASP:HB3	1:10:A:ALA:HB3	4	0.42
(3,622)	1:115:A:TYR:HB3	1:120:A:LEU:HB2	18	0.42
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	10	0.42
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	16	0.42
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB2	3	0.42
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB2	10	0.42
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	1	0.42
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	3	0.42
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	13	0.42
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	20	0.42
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	17	0.42
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	20	0.42
(3,320)	1:108:A:SER:HA	1:121:A:TYR:HD1	20	0.42
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	3	0.42
(3,161)	1:113:A:GLN:H	1:113:A:GLN:HG3	1	0.42
(3,112)	1:74:A:VAL:HB	1:75:A:GLY:H	13	0.42
(3,95)	1:138:A:ILE:HD12	1:139:A:TYR:H	2	0.42
(3,95)	1:138:A:ILE:HD13	1:139:A:TYR:H	8	0.42
(3,94)	1:138:A:ILE:HG21	1:139:A:TYR:H	12	0.42
(3,72)	1:31:A:VAL:H	1:50:A:ILE:HG13	9	0.42
(3,72)	1:31:A:VAL:H	1:50:A:ILE:HG13	10	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,62)	1:48:A:ILE:H	1:48:A:ILE:HG13	8	0.42
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD13	1	0.42
(1,1898)	1:113:A:GLN:HE21	1:114:A:VAL:HB	8	0.42
(1,1782)	1:107:A:LEU:HG	1:110:A:ILE:H	2	0.42
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	14	0.42
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	16	0.42
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	4	0.42
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	9	0.42
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	14	0.42
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD22	7	0.42
(1,1462)	1:101:A:VAL:HG11	1:142:A:GLN:H	5	0.42
(1,1461)	1:142:A:GLN:H	1:144:A:LEU:HD23	6	0.42
(1,1352)	1:38:A:THR:HG22	1:131:A:MET:H	11	0.42
(1,1352)	1:38:A:THR:HG22	1:131:A:MET:H	16	0.42
(1,1352)	1:38:A:THR:HG21	1:131:A:MET:H	18	0.42
(1,1320)	1:69:A:LYS:HE2	1:128:A:ASN:H	8	0.42
(1,1265)	1:107:A:LEU:HD23	1:124:A:ILE:H	3	0.42
(1,1197)	1:112:A:LYS:HG2	1:117:A:ASN:H	9	0.42
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD23	8	0.42
(1,1173)	1:114:A:VAL:HG11	1:116:A:GLY:H	10	0.42
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD23	15	0.42
(1,1170)	1:114:A:VAL:HB	1:116:A:GLY:H	19	0.42
(1,1166)	1:114:A:VAL:HG11	1:115:A:TYR:H	17	0.42
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	3	0.42
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	11	0.42
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	18	0.42
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	19	0.42
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	5	0.42
(1,881)	1:14:A:LEU:HD11	1:80:A:ILE:H	20	0.42
(1,881)	1:14:A:LEU:HD12	1:80:A:ILE:H	20	0.42
(1,881)	1:14:A:LEU:HD13	1:80:A:ILE:H	20	0.42
(1,842)	1:77:A:ILE:H	1:143:A:VAL:HB	7	0.42
(1,759)	1:71:A:LEU:H	1:71:A:LEU:HG	6	0.42
(1,758)	1:68:A:GLU:HG3	1:71:A:LEU:H	15	0.42
(1,742)	1:41:A:PRO:HB2	1:70:A:ILE:H	3	0.42
(1,742)	1:41:A:PRO:HB2	1:70:A:ILE:H	12	0.42
(1,693)	1:67:A:LYS:H	1:68:A:GLU:HG3	2	0.42
(1,678)	1:66:A:ALA:H	1:69:A:LYS:HB2	2	0.42
(1,672)	1:62:A:LEU:HB2	1:66:A:ALA:H	6	0.42
(1,657)	1:62:A:LEU:HD11	1:63:A:SER:H	16	0.42
(1,640)	1:62:A:LEU:H	1:62:A:LEU:HB2	2	0.42
(1,640)	1:62:A:LEU:H	1:62:A:LEU:HB2	16	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,614)	1:59:A:GLY:H	1:67:A:LYS:HG3	4	0.42
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG21	18	0.42
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG11	10	0.42
(1,346)	1:124:A:ILE:HD11	1:125:A:PHE:H	6	0.42
(1,342)	1:31:A:VAL:HG21	1:34:A:HIS:H	3	0.42
(1,304)	1:40:A:ILE:HD12	1:132:A:LEU:H	12	0.42
(1,269)	1:30:A:LYS:H	1:48:A:ILE:HG22	11	0.42
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	7	0.42
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	7	0.42
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	15	0.42
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	15	0.42
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	17	0.42
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	12	0.42
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB3	3	0.42
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB3	4	0.42
(1,49)	1:82:A:SER:HB2	1:83:A:VAL:H	11	0.42
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG11	5	0.41
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG12	5	0.41
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG13	5	0.41
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG11	15	0.41
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG12	15	0.41
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG13	15	0.41
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG11	20	0.41
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG12	20	0.41
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG13	20	0.41
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG13	2	0.41
(3,2493)	1:31:A:VAL:HA	1:77:A:ILE:HD13	19	0.41
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD13	17	0.41
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	6	0.41
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD12	11	0.41
(3,2250)	1:121:A:TYR:HD2	1:135:A:PRO:HG2	16	0.41
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	20	0.41
(3,2237)	1:38:A:THR:HA	1:40:A:ILE:HD12	20	0.41
(3,2215)	1:125:A:PHE:HD2	1:132:A:LEU:HB3	2	0.41
(3,2193)	1:3:A:LEU:HD13	1:85:A:ASP:H	4	0.41
(3,2187)	1:26:A:ASP:HB3	1:29:A:LYS:HB3	20	0.41
(3,2164)	1:80:A:ILE:HG21	1:83:A:VAL:HA	5	0.41
(3,2164)	1:80:A:ILE:HG21	1:83:A:VAL:HA	7	0.41
(3,2164)	1:80:A:ILE:HG21	1:83:A:VAL:HA	18	0.41
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	11	0.41
(3,2135)	1:122:A:ASN:HB3	1:125:A:PHE:H	15	0.41
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HG3	8	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG23	2	0.41
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG21	12	0.41
(3,2087)	1:101:A:VAL:HG12	1:110:A:ILE:HG22	16	0.41
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB2	8	0.41
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB1	14	0.41
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	18	0.41
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG23	2	0.41
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG12	18	0.41
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	2	0.41
(3,1993)	1:107:A:LEU:HG	1:121:A:TYR:HB2	15	0.41
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG23	5	0.41
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	14	0.41
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	19	0.41
(3,1942)	1:6:A:PHE:H	1:82:A:SER:HB3	16	0.41
(3,1923)	1:77:A:ILE:HG23	1:80:A:ILE:HB	4	0.41
(3,1920)	1:77:A:ILE:HG21	1:80:A:ILE:HG13	14	0.41
(3,1882)	1:63:A:SER:HB3	1:64:A:GLN:HB3	5	0.41
(3,1882)	1:63:A:SER:HB3	1:65:A:GLU:HB2	16	0.41
(3,1826)	1:112:A:LYS:HB3	1:112:A:LYS:HE3	12	0.41
(3,1789)	1:3:A:LEU:HD11	1:82:A:SER:HA	10	0.41
(3,1789)	1:3:A:LEU:HD11	1:82:A:SER:HA	12	0.41
(3,1787)	1:107:A:LEU:HD11	1:111:A:SER:HB3	1	0.41
(3,1786)	1:128:A:ASN:H	1:132:A:LEU:HD12	8	0.41
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD21	15	0.41
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD22	15	0.41
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD23	15	0.41
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	8	0.41
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	8	0.41
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	20	0.41
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	1	0.41
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	1	0.41
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD11	12	0.41
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG12	2	0.41
(3,1691)	1:50:A:ILE:HD12	1:56:A:THR:H	10	0.41
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD11	18	0.41
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD13	3	0.41
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	2	0.41
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	2	0.41
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	2	0.41
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	2	0.41
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	2	0.41
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	2	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	11	0.41
(3,1577)	1:40:A:ILE:HD11	1:41:A:PRO:HD3	9	0.41
(3,1558)	1:44:A:ASP:HA	1:46:A:VAL:HG12	14	0.41
(3,1539)	1:40:A:ILE:HD12	1:73:A:ALA:HB3	6	0.41
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	5	0.41
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	3	0.41
(3,1425)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	2	0.41
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	18	0.41
(3,1385)	1:148:A:GLU:HG3	1:149:A:GLU:H	13	0.41
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG12	8	0.41
(3,1308)	1:31:A:VAL:HG12	1:77:A:ILE:HG12	7	0.41
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG22	7	0.41
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG22	14	0.41
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG13	2	0.41
(3,1294)	1:71:A:LEU:HD21	1:83:A:VAL:HG11	7	0.41
(3,1294)	1:71:A:LEU:HD21	1:83:A:VAL:HG12	19	0.41
(3,1292)	1:120:A:LEU:HD13	1:123:A:LYS:HD3	4	0.41
(3,1268)	1:31:A:VAL:HG12	1:31:A:VAL:HG23	20	0.41
(3,1253)	1:107:A:LEU:HD11	1:125:A:PHE:HA	5	0.41
(3,1232)	1:28:A:ALA:HB1	1:29:A:LYS:HB2	18	0.41
(3,1229)	1:28:A:ALA:HB3	1:48:A:ILE:HG23	2	0.41
(3,1229)	1:28:A:ALA:HB1	1:48:A:ILE:HG22	9	0.41
(3,1229)	1:28:A:ALA:HB3	1:48:A:ILE:HG21	17	0.41
(3,1223)	1:25:A:ASP:HB3	1:28:A:ALA:HB1	2	0.41
(3,1219)	1:28:A:ALA:HB3	1:48:A:ILE:HA	2	0.41
(3,1219)	1:28:A:ALA:HB2	1:48:A:ILE:HA	10	0.41
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	3	0.41
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	6	0.41
(3,1177)	1:38:A:THR:HB	1:130:A:PRO:HB2	9	0.41
(3,1091)	1:59:A:GLY:HA3	1:62:A:LEU:HD11	15	0.41
(3,1065)	1:13:A:LYS:HG2	1:78:A:SER:HB2	7	0.41
(3,1054)	1:129:A:LYS:HD2	1:130:A:PRO:HA	15	0.41
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG13	12	0.41
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG11	4	0.41
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG12	16	0.41
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG11	17	0.41
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG11	19	0.41
(3,1029)	1:56:A:THR:HG21	1:86:A:GLN:HB2	4	0.41
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB2	3	0.41
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB2	12	0.41
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG23	9	0.41
(3,984)	1:114:A:VAL:HG23	1:146:A:ILE:HA	12	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	6	0.41
(3,952)	1:42:A:ASP:HB3	1:62:A:LEU:HD12	2	0.41
(3,950)	1:107:A:LEU:HD11	1:121:A:TYR:HB2	15	0.41
(3,916)	1:15:A:TRP:HE3	1:21:A:GLN:HB3	4	0.41
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD11	17	0.41
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD12	17	0.41
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD13	17	0.41
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD21	17	0.41
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD22	17	0.41
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD23	17	0.41
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD11	18	0.41
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD12	18	0.41
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD13	18	0.41
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD21	18	0.41
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD22	18	0.41
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD23	18	0.41
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD12	6	0.41
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD12	20	0.41
(3,791)	1:24:A:LYS:HD3	1:24:A:LYS:HE2	9	0.41
(3,744)	1:7:A:VAL:HB	1:10:A:ALA:HB1	2	0.41
(3,744)	1:7:A:VAL:HB	1:10:A:ALA:HB2	2	0.41
(3,744)	1:7:A:VAL:HB	1:10:A:ALA:HB3	2	0.41
(3,709)	1:144:A:LEU:H	1:144:A:LEU:HD13	11	0.41
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	9	0.41
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	3	0.41
(3,587)	1:42:A:ASP:HA	1:45:A:LYS:HE2	6	0.41
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB3	9	0.41
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB1	13	0.41
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	18	0.41
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	7	0.41
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	11	0.41
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB1	6	0.41
(3,316)	1:13:A:LYS:HD3	1:14:A:LEU:H	12	0.41
(3,273)	1:64:A:GLN:HG3	1:93:A:ALA:HB1	20	0.41
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	11	0.41
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	14	0.41
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	8	0.41
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	9	0.41
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	15	0.41
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD1	9	0.41
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD2	9	0.41
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD21	5	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,95)	1:138:A:ILE:HD12	1:139:A:TYR:H	5	0.41
(3,77)	1:57:A:VAL:HG11	1:87:A:VAL:H	9	0.41
(3,72)	1:31:A:VAL:H	1:50:A:ILE:HG13	17	0.41
(3,66)	1:80:A:ILE:HD11	1:81:A:ALA:H	15	0.41
(1,1704)	1:6:A:PHE:HE2	1:77:A:ILE:H	15	0.41
(1,1529)	1:33:A:GLU:HA	1:36:A:ASN:HD22	8	0.41
(1,1529)	1:33:A:GLU:HA	1:36:A:ASN:HD22	18	0.41
(1,1462)	1:101:A:VAL:HG12	1:142:A:GLN:H	1	0.41
(1,1457)	1:141:A:GLY:H	1:144:A:LEU:HD11	4	0.41
(1,1412)	1:137:A:LYS:H	1:138:A:ILE:HG12	3	0.41
(1,1412)	1:137:A:LYS:H	1:138:A:ILE:HG12	13	0.41
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	19	0.41
(1,1348)	1:128:A:ASN:HD22	1:129:A:LYS:H	7	0.41
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	11	0.41
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE2	18	0.41
(1,1277)	1:122:A:ASN:HB3	1:126:A:GLU:H	20	0.41
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG22	19	0.41
(1,1217)	1:118:A:ALA:HB1	1:120:A:LEU:H	6	0.41
(1,1166)	1:114:A:VAL:HG12	1:115:A:TYR:H	20	0.41
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	7	0.41
(1,1096)	1:101:A:VAL:HG11	1:110:A:ILE:H	11	0.41
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	17	0.41
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	13	0.41
(1,1059)	1:103:A:SER:HB2	1:105:A:ASP:H	11	0.41
(1,1038)	1:101:A:VAL:H	1:102:A:LYS:HG2	17	0.41
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	18	0.41
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	6	0.41
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	16	0.41
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	18	0.41
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	19	0.41
(1,961)	1:87:A:VAL:H	1:88:A:LYS:HG3	17	0.41
(1,925)	1:49:A:GLN:HB2	1:84:A:ASP:H	12	0.41
(1,881)	1:14:A:LEU:HD11	1:80:A:ILE:H	6	0.41
(1,881)	1:14:A:LEU:HD12	1:80:A:ILE:H	6	0.41
(1,881)	1:14:A:LEU:HD13	1:80:A:ILE:H	6	0.41
(1,842)	1:77:A:ILE:H	1:143:A:VAL:HB	10	0.41
(1,800)	1:72:A:VAL:HG21	1:73:A:ALA:H	13	0.41
(1,758)	1:68:A:GLU:HG3	1:71:A:LEU:H	3	0.41
(1,696)	1:62:A:LEU:HB3	1:67:A:LYS:H	19	0.41
(1,678)	1:66:A:ALA:H	1:69:A:LYS:HB2	16	0.41
(1,640)	1:62:A:LEU:H	1:62:A:LEU:HB2	1	0.41
(1,640)	1:62:A:LEU:H	1:62:A:LEU:HB2	17	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,579)	1:55:A:ALA:HB2	1:57:A:VAL:H	16	0.41
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB1	19	0.41
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB2	20	0.41
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG22	6	0.41
(1,479)	1:46:A:VAL:HB	1:47:A:ASN:H	20	0.41
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	10	0.41
(1,375)	1:35:A:LEU:HD11	1:36:A:ASN:H	13	0.41
(1,342)	1:31:A:VAL:HG23	1:34:A:HIS:H	5	0.41
(1,342)	1:31:A:VAL:HG22	1:34:A:HIS:H	17	0.41
(1,339)	1:125:A:PHE:H	1:135:A:PRO:HB3	4	0.41
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	19	0.41
(1,304)	1:40:A:ILE:HD11	1:132:A:LEU:H	17	0.41
(1,273)	1:28:A:ALA:HB1	1:31:A:VAL:H	3	0.41
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG13	19	0.41
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB3	4	0.41
(1,141)	1:12:A:GLU:H	1:142:A:GLN:HG3	18	0.41
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	4	0.41
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	4	0.41
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	8	0.41
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	8	0.41
(1,67)	1:4:A:PHE:H	1:82:A:SER:HB2	20	0.41
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	15	0.4
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG11	3	0.4
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG12	3	0.4
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG13	3	0.4
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	5	0.4
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	5	0.4
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	5	0.4
(3,2672)	1:126:A:GLU:HB3	1:127:A:ALA:H	13	0.4
(3,2672)	1:126:A:GLU:HB2	1:127:A:ALA:H	13	0.4
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG11	2	0.4
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG12	2	0.4
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG13	2	0.4
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG11	7	0.4
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG12	7	0.4
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG13	7	0.4
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG11	14	0.4
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG12	14	0.4
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG13	14	0.4
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG11	18	0.4
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG12	18	0.4
(3,2523)	1:57:A:VAL:HA	1:57:A:VAL:HG13	18	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	14	0.4
(3,2487)	1:35:A:LEU:HD21	1:43:A:ALA:HA	2	0.4
(3,2465)	1:110:A:ILE:HD12	1:144:A:LEU:H	18	0.4
(3,2463)	1:82:A:SER:HB3	1:84:A:ASP:H	20	0.4
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG21	6	0.4
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	11	0.4
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	10	0.4
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	10	0.4
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	10	0.4
(3,2390)	1:15:A:TRP:HZ2	1:80:A:ILE:HG13	2	0.4
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG11	10	0.4
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	14	0.4
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD13	7	0.4
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	12	0.4
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	3	0.4
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	1	0.4
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB2	3	0.4
(3,2135)	1:122:A:ASN:HB2	1:125:A:PHE:H	19	0.4
(3,2114)	1:27:A:GLN:HA	1:30:A:LYS:HA	2	0.4
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	19	0.4
(3,2023)	1:99:A:TYR:HD2	1:113:A:GLN:HG3	11	0.4
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	2	0.4
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	18	0.4
(3,1928)	1:77:A:ILE:HD12	1:78:A:SER:H	1	0.4
(3,1923)	1:77:A:ILE:HG23	1:80:A:ILE:HB	17	0.4
(3,1920)	1:77:A:ILE:HG21	1:80:A:ILE:HG13	5	0.4
(3,1920)	1:77:A:ILE:HG23	1:80:A:ILE:HG13	7	0.4
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	5	0.4
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	5	0.4
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	5	0.4
(3,1882)	1:63:A:SER:HB3	1:65:A:GLU:HB2	1	0.4
(3,1877)	1:45:A:LYS:HA	1:45:A:LYS:HG3	3	0.4
(3,1860)	1:66:A:ALA:HB3	1:70:A:ILE:HD13	8	0.4
(3,1786)	1:128:A:ASN:H	1:132:A:LEU:HD12	4	0.4
(3,1786)	1:128:A:ASN:H	1:132:A:LEU:HD11	14	0.4
(3,1783)	1:62:A:LEU:H	1:62:A:LEU:HB2	4	0.4
(3,1783)	1:62:A:LEU:H	1:62:A:LEU:HB2	18	0.4
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	8	0.4
(3,1766)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	4	0.4
(3,1738)	1:12:A:GLU:H	1:14:A:LEU:HD22	6	0.4
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG22	1	0.4
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	12	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	12	0.4
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	13	0.4
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	13	0.4
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	13	0.4
(3,1556)	1:40:A:ILE:HG22	1:43:A:ALA:HB2	5	0.4
(3,1539)	1:40:A:ILE:HD12	1:73:A:ALA:HB2	13	0.4
(3,1537)	1:40:A:ILE:HD11	1:130:A:PRO:HG2	3	0.4
(3,1491)	1:97:A:GLN:HE21	1:146:A:ILE:HD12	7	0.4
(3,1475)	1:54:A:LYS:HD2	1:84:A:ASP:HA	15	0.4
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	5	0.4
(3,1468)	1:15:A:TRP:HE3	1:21:A:GLN:HB2	4	0.4
(3,1425)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	3	0.4
(3,1425)	1:13:A:LYS:HD3	1:13:A:LYS:HG2	8	0.4
(3,1399)	1:29:A:LYS:HD2	1:33:A:GLU:HG2	11	0.4
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	6	0.4
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	14	0.4
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG12	1	0.4
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG11	4	0.4
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG11	16	0.4
(3,1317)	1:72:A:VAL:HG13	1:144:A:LEU:HA	13	0.4
(3,1310)	1:101:A:VAL:HG23	1:142:A:GLN:HB3	15	0.4
(3,1268)	1:31:A:VAL:HG12	1:31:A:VAL:HG22	19	0.4
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	20	0.4
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	20	0.4
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	20	0.4
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	5	0.4
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	11	0.4
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	14	0.4
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	16	0.4
(3,1139)	1:123:A:LYS:HA	1:123:A:LYS:HG3	2	0.4
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	20	0.4
(3,1063)	1:13:A:LYS:HG3	1:78:A:SER:HB3	14	0.4
(3,1057)	1:18:A:VAL:HG12	1:19:A:THR:HA	15	0.4
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	20	0.4
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	20	0.4
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	20	0.4
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG11	4	0.4
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG12	4	0.4
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG13	4	0.4
(3,1025)	1:100:A:THR:HG21	1:102:A:LYS:HE3	17	0.4
(3,997)	1:124:A:ILE:HA	1:127:A:ALA:HB2	1	0.4
(3,984)	1:114:A:VAL:HG23	1:146:A:ILE:HA	6	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	20	0.4
(3,914)	1:120:A:LEU:HD21	1:149:A:GLU:HG3	17	0.4
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD11	16	0.4
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD12	16	0.4
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD13	16	0.4
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD21	16	0.4
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD22	16	0.4
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD23	16	0.4
(3,906)	1:117:A:ASN:HB2	1:120:A:LEU:HD21	19	0.4
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	18	0.4
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	18	0.4
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	18	0.4
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD12	9	0.4
(3,774)	1:49:A:GLN:HB3	1:50:A:ILE:H	15	0.4
(3,751)	1:12:A:GLU:HB3	1:14:A:LEU:HD21	12	0.4
(3,748)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	3	0.4
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	7	0.4
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	7	0.4
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	7	0.4
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	18	0.4
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	18	0.4
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	18	0.4
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG21	16	0.4
(3,669)	1:28:A:ALA:HA	1:31:A:VAL:HG21	16	0.4
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	17	0.4
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	7	0.4
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	19	0.4
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	19	0.4
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	19	0.4
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	19	0.4
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	19	0.4
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	19	0.4
(3,563)	1:107:A:LEU:HD23	1:125:A:PHE:H	4	0.4
(3,533)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	3	0.4
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD22	9	0.4
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	12	0.4
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	10	0.4
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	1	0.4
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	2	0.4
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	4	0.4
(3,349)	1:88:A:LYS:H	1:88:A:LYS:HD2	7	0.4
(3,330)	1:111:A:SER:HB2	1:112:A:LYS:H	13	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,317)	1:67:A:LYS:HA	1:67:A:LYS:HE2	19	0.4
(3,280)	1:68:A:GLU:HA	1:68:A:GLU:HG3	6	0.4
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	11	0.4
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	2	0.4
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	6	0.4
(3,112)	1:74:A:VAL:HB	1:75:A:GLY:H	9	0.4
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	8	0.4
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	20	0.4
(3,95)	1:138:A:ILE:HD13	1:139:A:TYR:H	9	0.4
(3,95)	1:138:A:ILE:HD13	1:139:A:TYR:H	11	0.4
(3,95)	1:138:A:ILE:HD11	1:139:A:TYR:H	17	0.4
(3,95)	1:138:A:ILE:HD13	1:139:A:TYR:H	20	0.4
(3,66)	1:80:A:ILE:HD12	1:81:A:ALA:H	19	0.4
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD11	4	0.4
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	18	0.4
(1,1811)	1:148:A:GLU:H	1:149:A:GLU:HB3	2	0.4
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG21	6	0.4
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG22	9	0.4
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG22	13	0.4
(1,1611)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	18	0.4
(1,1611)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	18	0.4
(1,1611)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	18	0.4
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	11	0.4
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	11	0.4
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	18	0.4
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HB3	15	0.4
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	4	0.4
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD21	12	0.4
(1,1462)	1:101:A:VAL:HG11	1:142:A:GLN:H	14	0.4
(1,1462)	1:101:A:VAL:HG11	1:142:A:GLN:H	16	0.4
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	3	0.4
(1,1352)	1:38:A:THR:HG23	1:131:A:MET:H	6	0.4
(1,1352)	1:38:A:THR:HG23	1:131:A:MET:H	19	0.4
(1,1283)	1:124:A:ILE:HG23	1:126:A:GLU:H	16	0.4
(1,1277)	1:122:A:ASN:HB3	1:126:A:GLU:H	6	0.4
(1,1277)	1:122:A:ASN:HB3	1:126:A:GLU:H	10	0.4
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG23	6	0.4
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG22	16	0.4
(1,1166)	1:114:A:VAL:HG11	1:115:A:TYR:H	8	0.4
(1,1166)	1:114:A:VAL:HG12	1:115:A:TYR:H	13	0.4
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	10	0.4
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	15	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	13	0.4
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	5	0.4
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	7	0.4
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	10	0.4
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	11	0.4
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	16	0.4
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	2	0.4
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	9	0.4
(1,973)	1:88:A:LYS:HG3	1:89:A:THR:H	20	0.4
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	5	0.4
(1,846)	1:13:A:LYS:HG3	1:78:A:SER:H	20	0.4
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HG3	14	0.4
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE1	15	0.4
(1,732)	1:40:A:ILE:HG21	1:69:A:LYS:H	15	0.4
(1,725)	1:68:A:GLU:HG3	1:69:A:LYS:H	5	0.4
(1,657)	1:62:A:LEU:HD11	1:63:A:SER:H	8	0.4
(1,649)	1:62:A:LEU:H	1:90:A:ALA:HA	13	0.4
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG13	4	0.4
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG21	5	0.4
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG22	5	0.4
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG23	5	0.4
(1,579)	1:55:A:ALA:HB3	1:57:A:VAL:H	5	0.4
(1,579)	1:55:A:ALA:HB2	1:57:A:VAL:H	19	0.4
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG11	15	0.4
(1,541)	1:54:A:LYS:H	1:80:A:ILE:HD13	9	0.4
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG21	1	0.4
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG21	2	0.4
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG22	14	0.4
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG13	2	0.4
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB1	14	0.4
(1,375)	1:35:A:LEU:HD12	1:36:A:ASN:H	5	0.4
(1,352)	1:35:A:LEU:H	1:35:A:LEU:HG	2	0.4
(1,352)	1:35:A:LEU:H	1:35:A:LEU:HG	5	0.4
(1,342)	1:31:A:VAL:HG23	1:34:A:HIS:H	6	0.4
(1,273)	1:29:A:LYS:HG3	1:31:A:VAL:H	7	0.4
(1,273)	1:28:A:ALA:HB3	1:31:A:VAL:H	15	0.4
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG12	15	0.4
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD11	6	0.4
(1,184)	1:13:A:LYS:HE2	1:15:A:TRP:H	18	0.4
(1,178)	1:14:A:LEU:H	1:15:A:TRP:HE3	18	0.4
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	2	0.4
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	2	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	5	0.4
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	5	0.4
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	6	0.4
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	6	0.4
(1,134)	1:12:A:GLU:H	1:38:A:THR:HG22	16	0.4
(1,112)	1:9:A:ASP:H	1:100:A:THR:HG22	17	0.4
(1,77)	1:6:A:PHE:H	1:143:A:VAL:HG12	1	0.4
(1,77)	1:6:A:PHE:H	1:143:A:VAL:HG13	17	0.4
(1,73)	1:3:A:LEU:HG	1:4:A:PHE:H	13	0.4
(1,31)	1:5:A:ASN:H	1:71:A:LEU:HD13	17	0.4
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	19	0.39
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	20	0.39
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	12	0.39
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	18	0.39
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG23	16	0.39
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG12	7	0.39
(3,2497)	1:56:A:THR:HG21	1:58:A:THR:H	3	0.39
(3,2487)	1:35:A:LEU:HD22	1:43:A:ALA:HA	13	0.39
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG21	14	0.39
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	18	0.39
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	19	0.39
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD12	2	0.39
(3,2295)	1:94:A:THR:HG23	1:148:A:GLU:H	11	0.39
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	5	0.39
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	2	0.39
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	3	0.39
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	4	0.39
(3,2265)	1:45:A:LYS:H	1:70:A:ILE:HD12	15	0.39
(3,2250)	1:121:A:TYR:HD2	1:135:A:PRO:HG2	6	0.39
(3,2218)	1:14:A:LEU:HB3	1:34:A:HIS:HB2	18	0.39
(3,2214)	1:128:A:ASN:HD22	1:132:A:LEU:HD13	4	0.39
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	13	0.39
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	16	0.39
(3,2187)	1:26:A:ASP:HB3	1:29:A:LYS:HB3	7	0.39
(3,2180)	1:109:A:ALA:HA	1:112:A:LYS:HD3	19	0.39
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD11	3	0.39
(3,2144)	1:117:A:ASN:H	1:120:A:LEU:HD21	19	0.39
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HG3	19	0.39
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	10	0.39
(3,2087)	1:101:A:VAL:HG13	1:110:A:ILE:HG21	9	0.39
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG21	13	0.39
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG22	18	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB1	12	0.39
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB3	19	0.39
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	9	0.39
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	11	0.39
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG22	14	0.39
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	12	0.39
(3,1992)	1:123:A:LYS:HE3	1:147:A:PRO:HG2	6	0.39
(3,1956)	1:72:A:VAL:HG13	1:128:A:ASN:HA	13	0.39
(3,1943)	1:55:A:ALA:H	1:82:A:SER:HB2	6	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	1	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	1	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	1	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	3	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	3	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	3	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	4	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	4	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	4	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	5	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	5	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	5	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	8	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	8	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	8	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	10	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	10	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	10	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	13	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	13	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	13	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	15	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	15	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	15	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	17	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	17	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	17	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	18	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	18	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	18	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	20	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	20	0.39
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	20	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1923)	1:77:A:ILE:HG23	1:80:A:ILE:HB	7	0.39
(3,1850)	1:54:A:LYS:HD3	1:82:A:SER:HB3	2	0.39
(3,1758)	1:49:A:GLN:HB2	1:56:A:THR:HB	19	0.39
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD13	14	0.39
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD11	15	0.39
(3,1746)	1:58:A:THR:HG22	1:86:A:GLN:HG3	8	0.39
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	17	0.39
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	17	0.39
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD12	11	0.39
(3,1664)	1:105:A:ASP:HB2	1:138:A:ILE:HD13	16	0.39
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	6	0.39
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	12	0.39
(3,1478)	1:134:A:SER:HB3	1:137:A:LYS:H	13	0.39
(3,1478)	1:134:A:SER:HB3	1:137:A:LYS:H	15	0.39
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	3	0.39
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	1	0.39
(3,1430)	1:131:A:MET:HE3	1:132:A:LEU:HD11	11	0.39
(3,1430)	1:131:A:MET:HE1	1:132:A:LEU:HD11	18	0.39
(3,1425)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	13	0.39
(3,1425)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	18	0.39
(3,1424)	1:26:A:ASP:HB3	1:30:A:LYS:HG3	5	0.39
(3,1421)	1:24:A:LYS:HA	1:50:A:ILE:HB	14	0.39
(3,1398)	1:67:A:LYS:HB3	1:68:A:GLU:HG3	15	0.39
(3,1374)	1:32:A:GLN:HG2	1:33:A:GLU:H	6	0.39
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	13	0.39
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD11	15	0.39
(3,1359)	1:49:A:GLN:HB3	1:49:A:GLN:HG2	13	0.39
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG12	1	0.39
(3,1341)	1:60:A:ASP:H	1:87:A:VAL:HG23	2	0.39
(3,1338)	1:72:A:VAL:HG13	1:145:A:ARG:H	4	0.39
(3,1325)	1:99:A:TYR:HE1	1:101:A:VAL:HG21	2	0.39
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG11	1	0.39
(3,1294)	1:71:A:LEU:HD23	1:83:A:VAL:HG13	18	0.39
(3,1268)	1:31:A:VAL:HG12	1:31:A:VAL:HG22	3	0.39
(3,1268)	1:31:A:VAL:HG12	1:31:A:VAL:HG21	12	0.39
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	11	0.39
(3,1229)	1:28:A:ALA:HB1	1:48:A:ILE:HG21	8	0.39
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	2	0.39
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	8	0.39
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	17	0.39
(3,1177)	1:38:A:THR:HB	1:130:A:PRO:HB2	15	0.39
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG12	20	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG12	3	0.39
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG11	4	0.39
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG12	15	0.39
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG12	16	0.39
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG11	19	0.39
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG23	4	0.39
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG21	7	0.39
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG12	10	0.39
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG21	16	0.39
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG13	12	0.39
(3,997)	1:124:A:ILE:HA	1:127:A:ALA:HB1	19	0.39
(3,994)	1:35:A:LEU:HD22	1:73:A:ALA:HB2	5	0.39
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	1	0.39
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD11	2	0.39
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD12	2	0.39
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD13	2	0.39
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD21	2	0.39
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD22	2	0.39
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD23	2	0.39
(3,906)	1:120:A:LEU:HD21	1:123:A:LYS:HE2	2	0.39
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	1	0.39
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	1	0.39
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	1	0.39
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	4	0.39
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	4	0.39
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	4	0.39
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	19	0.39
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	19	0.39
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	19	0.39
(3,841)	1:10:A:ALA:HB1	1:11:A:GLY:H	2	0.39
(3,841)	1:10:A:ALA:HB2	1:11:A:GLY:H	2	0.39
(3,841)	1:10:A:ALA:HB3	1:11:A:GLY:H	2	0.39
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	11	0.39
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	11	0.39
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	11	0.39
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	14	0.39
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	14	0.39
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	14	0.39
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	19	0.39
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	19	0.39
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	19	0.39
(3,791)	1:88:A:LYS:HD3	1:88:A:LYS:HE2	1	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,791)	1:37:A:LYS:HD2	1:37:A:LYS:HE3	3	0.39
(3,791)	1:29:A:LYS:HD3	1:29:A:LYS:HE2	12	0.39
(3,791)	1:29:A:LYS:HD2	1:29:A:LYS:HE2	14	0.39
(3,791)	1:29:A:LYS:HD3	1:29:A:LYS:HE2	16	0.39
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	13	0.39
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	13	0.39
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	13	0.39
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG22	9	0.39
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG23	17	0.39
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG23	20	0.39
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	6	0.39
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	6	0.39
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	6	0.39
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	9	0.39
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	9	0.39
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	13	0.39
(3,662)	1:23:A:ASP:HB2	1:24:A:LYS:HA	5	0.39
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE2	19	0.39
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	6	0.39
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	6	0.39
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	6	0.39
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	6	0.39
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	6	0.39
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	6	0.39
(3,632)	1:25:A:ASP:HB3	1:28:A:ALA:HB3	20	0.39
(3,630)	1:135:A:PRO:HB2	1:136:A:ASP:HB2	10	0.39
(3,630)	1:135:A:PRO:HB2	1:136:A:ASP:HB2	12	0.39
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	15	0.39
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	11	0.39
(3,514)	1:125:A:PHE:HE2	1:132:A:LEU:HG	17	0.39
(3,502)	1:6:A:PHE:HE1	1:71:A:LEU:HB3	17	0.39
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	17	0.39
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	19	0.39
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	13	0.39
(3,419)	1:131:A:MET:HE2	1:132:A:LEU:HA	7	0.39
(3,416)	1:131:A:MET:HE2	1:144:A:LEU:HD11	12	0.39
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB3	1	0.39
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	7	0.39
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	12	0.39
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	10	0.39
(3,249)	1:62:A:LEU:HD22	1:63:A:SER:H	9	0.39
(3,249)	1:62:A:LEU:HD22	1:63:A:SER:H	20	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,234)	1:59:A:GLY:H	1:88:A:LYS:HE2	20	0.39
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	10	0.39
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	18	0.39
(3,107)	1:67:A:LYS:HG2	1:68:A:GLU:H	10	0.39
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	4	0.39
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	18	0.39
(3,88)	1:67:A:LYS:H	1:67:A:LYS:HB2	11	0.39
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD11	17	0.39
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD12	4	0.39
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	20	0.39
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	19	0.39
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HB2	7	0.39
(1,1782)	1:107:A:LEU:HG	1:110:A:ILE:H	18	0.39
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	16	0.39
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	16	0.39
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	13	0.39
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	13	0.39
(1,1462)	1:101:A:VAL:HG11	1:142:A:GLN:H	13	0.39
(1,1448)	1:101:A:VAL:HB	1:141:A:GLY:H	19	0.39
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	9	0.39
(1,1348)	1:128:A:ASN:HD22	1:129:A:LYS:H	16	0.39
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	3	0.39
(1,1320)	1:69:A:LYS:HE2	1:128:A:ASN:H	15	0.39
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	6	0.39
(1,1277)	1:126:A:GLU:H	1:129:A:LYS:HE3	17	0.39
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG21	14	0.39
(1,1217)	1:118:A:ALA:HB1	1:120:A:LEU:H	10	0.39
(1,1166)	1:114:A:VAL:HG12	1:115:A:TYR:H	1	0.39
(1,1166)	1:114:A:VAL:HG13	1:115:A:TYR:H	7	0.39
(1,1166)	1:114:A:VAL:HG12	1:115:A:TYR:H	18	0.39
(1,1166)	1:114:A:VAL:HG11	1:115:A:TYR:H	19	0.39
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	19	0.39
(1,1074)	1:109:A:ALA:H	1:112:A:LYS:HB2	11	0.39
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	16	0.39
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	4	0.39
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	16	0.39
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	17	0.39
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	2	0.39
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	4	0.39
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	14	0.39
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	17	0.39
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	4	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,800)	1:72:A:VAL:HG13	1:73:A:ALA:H	12	0.39
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG13	20	0.39
(1,759)	1:71:A:LEU:H	1:71:A:LEU:HG	1	0.39
(1,759)	1:71:A:LEU:H	1:71:A:LEU:HG	15	0.39
(1,758)	1:68:A:GLU:HG3	1:71:A:LEU:H	5	0.39
(1,697)	1:67:A:LYS:H	1:69:A:LYS:HD3	15	0.39
(1,614)	1:56:A:THR:HG21	1:59:A:GLY:H	5	0.39
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG21	2	0.39
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG22	2	0.39
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG23	2	0.39
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG21	14	0.39
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG22	14	0.39
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG23	14	0.39
(1,536)	1:52:A:ASP:HB2	1:54:A:LYS:H	12	0.39
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB3	1	0.39
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG22	4	0.39
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG21	11	0.39
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG22	16	0.39
(1,487)	1:31:A:VAL:HG13	1:48:A:ILE:H	20	0.39
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB3	1	0.39
(1,375)	1:35:A:LEU:HD11	1:36:A:ASN:H	1	0.39
(1,367)	1:32:A:GLN:HG3	1:36:A:ASN:H	13	0.39
(1,346)	1:124:A:ILE:HD12	1:125:A:PHE:H	7	0.39
(1,340)	1:107:A:LEU:HB3	1:125:A:PHE:H	5	0.39
(1,304)	1:40:A:ILE:HD12	1:132:A:LEU:H	15	0.39
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG13	12	0.39
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG21	20	0.39
(1,228)	1:28:A:ALA:H	1:29:A:LYS:HA	18	0.39
(1,161)	1:13:A:LYS:H	1:77:A:ILE:HG21	18	0.39
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	18	0.39
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	18	0.39
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	20	0.39
(1,75)	1:4:A:PHE:H	1:71:A:LEU:HD22	5	0.39
(1,73)	1:3:A:LEU:HB2	1:4:A:PHE:H	20	0.39
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	12	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG11	1	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG12	1	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG13	1	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG11	13	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG12	13	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG13	13	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG11	15	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG12	15	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG13	15	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG11	20	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG12	20	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG13	20	0.38
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	18	0.38
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	18	0.38
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	18	0.38
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD11	15	0.38
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD13	16	0.38
(3,2497)	1:56:A:THR:HG21	1:58:A:THR:H	10	0.38
(3,2464)	1:82:A:SER:HB2	1:84:A:ASP:H	10	0.38
(3,2463)	1:82:A:SER:HB3	1:84:A:ASP:H	6	0.38
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG23	4	0.38
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	2	0.38
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	4	0.38
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	10	0.38
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	15	0.38
(3,2424)	1:114:A:VAL:HG11	1:146:A:ILE:HG12	16	0.38
(3,2321)	1:40:A:ILE:HD13	1:131:A:MET:HG2	2	0.38
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD21	13	0.38
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	16	0.38
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	16	0.38
(3,2275)	1:132:A:LEU:HD21	1:139:A:TYR:HD1	10	0.38
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD11	20	0.38
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD12	14	0.38
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD11	20	0.38
(3,2248)	1:125:A:PHE:HA	1:135:A:PRO:HA	19	0.38
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	2	0.38
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	11	0.38
(3,2214)	1:128:A:ASN:HD22	1:132:A:LEU:HD13	12	0.38
(3,2209)	1:38:A:THR:HG22	1:131:A:MET:HG3	11	0.38
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	4	0.38
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	10	0.38
(3,2160)	1:124:A:ILE:HG21	1:128:A:ASN:H	4	0.38
(3,2160)	1:124:A:ILE:HG23	1:128:A:ASN:H	8	0.38
(3,2160)	1:124:A:ILE:HG21	1:128:A:ASN:H	10	0.38
(3,2160)	1:124:A:ILE:HG21	1:128:A:ASN:H	12	0.38
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	11	0.38
(3,2120)	1:132:A:LEU:HD22	1:139:A:TYR:HE1	12	0.38
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD12	17	0.38
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG23	13	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2067)	1:57:A:VAL:HG21	1:71:A:LEU:HA	3	0.38
(3,2067)	1:57:A:VAL:HG22	1:71:A:LEU:HA	3	0.38
(3,2067)	1:57:A:VAL:HG23	1:71:A:LEU:HA	3	0.38
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	17	0.38
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	4	0.38
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	12	0.38
(3,1992)	1:123:A:LYS:HE3	1:147:A:PRO:HG2	4	0.38
(3,1984)	1:38:A:THR:HG21	1:131:A:MET:HG2	20	0.38
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	15	0.38
(3,1946)	1:12:A:GLU:HG2	1:38:A:THR:HG23	16	0.38
(3,1943)	1:55:A:ALA:H	1:82:A:SER:HB2	20	0.38
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	12	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	2	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	2	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	2	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	6	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	6	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	6	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	7	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	7	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	7	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	9	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	9	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	9	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	11	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	11	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	11	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	12	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	12	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	12	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	14	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	14	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	14	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	16	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	16	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	16	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG21	19	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG22	19	0.38
(3,1933)	1:80:A:ILE:HG12	1:80:A:ILE:HG23	19	0.38
(3,1923)	1:77:A:ILE:HG23	1:80:A:ILE:HB	8	0.38
(3,1923)	1:77:A:ILE:HG23	1:80:A:ILE:HB	14	0.38
(3,1875)	1:72:A:VAL:HG23	1:76:A:ASN:HB2	20	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1850)	1:54:A:LYS:HD3	1:82:A:SER:HB3	12	0.38
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD13	6	0.38
(3,1803)	1:6:A:PHE:HZ	1:72:A:VAL:HA	15	0.38
(3,1786)	1:128:A:ASN:H	1:132:A:LEU:HD13	1	0.38
(3,1783)	1:62:A:LEU:H	1:62:A:LEU:HB2	13	0.38
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	1	0.38
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	1	0.38
(3,1752)	1:14:A:LEU:HD22	1:30:A:LYS:HB2	1	0.38
(3,1752)	1:14:A:LEU:HD23	1:30:A:LYS:HB2	9	0.38
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD12	8	0.38
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	3	0.38
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	3	0.38
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	4	0.38
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	4	0.38
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	20	0.38
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	20	0.38
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD12	7	0.38
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD12	14	0.38
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD13	20	0.38
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG12	14	0.38
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	9	0.38
(3,1577)	1:40:A:ILE:HD12	1:41:A:PRO:HD3	11	0.38
(3,1577)	1:40:A:ILE:HD13	1:41:A:PRO:HD3	12	0.38
(3,1556)	1:48:A:ILE:HG21	1:55:A:ALA:HB2	9	0.38
(3,1555)	1:40:A:ILE:HG23	1:73:A:ALA:HB2	6	0.38
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	2	0.38
(3,1437)	1:62:A:LEU:HD12	1:89:A:THR:HA	3	0.38
(3,1426)	1:62:A:LEU:HD21	1:66:A:ALA:HB1	10	0.38
(3,1425)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	15	0.38
(3,1425)	1:13:A:LYS:HD3	1:13:A:LYS:HG2	20	0.38
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	1	0.38
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	6	0.38
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	9	0.38
(3,1398)	1:29:A:LYS:HG2	1:33:A:GLU:HG2	16	0.38
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	3	0.38
(3,1385)	1:148:A:GLU:HG3	1:149:A:GLU:H	20	0.38
(3,1342)	1:46:A:VAL:HG23	1:47:A:ASN:H	4	0.38
(3,1324)	1:6:A:PHE:HE1	1:83:A:VAL:HG23	8	0.38
(3,1310)	1:101:A:VAL:HG22	1:142:A:GLN:HB3	20	0.38
(3,1308)	1:31:A:VAL:HG12	1:77:A:ILE:HG12	3	0.38
(3,1307)	1:57:A:VAL:HB	1:83:A:VAL:HG11	6	0.38
(3,1307)	1:57:A:VAL:HB	1:83:A:VAL:HG13	17	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1298)	1:75:A:GLY:HA3	1:83:A:VAL:HG21	12	0.38
(3,1298)	1:75:A:GLY:HA3	1:83:A:VAL:HG22	12	0.38
(3,1298)	1:75:A:GLY:HA3	1:83:A:VAL:HG23	12	0.38
(3,1268)	1:31:A:VAL:HG11	1:31:A:VAL:HG22	11	0.38
(3,1268)	1:31:A:VAL:HG11	1:31:A:VAL:HG23	15	0.38
(3,1253)	1:107:A:LEU:HD13	1:125:A:PHE:HA	6	0.38
(3,1243)	1:21:A:GLN:HB2	1:26:A:ASP:HB3	4	0.38
(3,1232)	1:28:A:ALA:HB2	1:29:A:LYS:HB2	14	0.38
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	19	0.38
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	19	0.38
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	19	0.38
(3,1205)	1:41:A:PRO:HA	1:41:A:PRO:HG2	15	0.38
(3,1177)	1:38:A:THR:HB	1:130:A:PRO:HB2	3	0.38
(3,1157)	1:112:A:LYS:HG3	1:117:A:ASN:H	10	0.38
(3,1139)	1:24:A:LYS:HA	1:24:A:LYS:HG2	8	0.38
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	12	0.38
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	13	0.38
(3,1059)	1:103:A:SER:HB3	1:140:A:PRO:HG3	17	0.38
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	12	0.38
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG11	5	0.38
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG11	3	0.38
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG12	3	0.38
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG13	3	0.38
(3,1010)	1:127:A:ALA:HB1	1:128:A:ASN:HA	4	0.38
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB1	14	0.38
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	7	0.38
(3,948)	1:107:A:LEU:HD11	1:125:A:PHE:HB3	11	0.38
(3,938)	1:99:A:TYR:HD1	1:144:A:LEU:HD21	17	0.38
(3,926)	1:35:A:LEU:HD21	1:43:A:ALA:HA	2	0.38
(3,926)	1:35:A:LEU:HD23	1:43:A:ALA:HA	11	0.38
(3,914)	1:120:A:LEU:HD22	1:149:A:GLU:HG3	15	0.38
(3,906)	1:120:A:LEU:HD23	1:123:A:LYS:HE2	20	0.38
(3,887)	1:13:A:LYS:HA	1:77:A:ILE:HG23	8	0.38
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	12	0.38
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	12	0.38
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	12	0.38
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	20	0.38
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	20	0.38
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	20	0.38
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD13	12	0.38
(3,807)	1:72:A:VAL:HG12	1:73:A:ALA:HA	15	0.38
(3,798)	1:117:A:ASN:HB2	1:120:A:LEU:HG	3	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,791)	1:29:A:LYS:HD3	1:29:A:LYS:HE2	13	0.38
(3,791)	1:88:A:LYS:HD2	1:88:A:LYS:HE3	19	0.38
(3,778)	1:12:A:GLU:HB2	1:13:A:LYS:H	2	0.38
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG21	1	0.38
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG22	2	0.38
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG23	5	0.38
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG23	6	0.38
(3,732)	1:19:A:THR:HA	1:19:A:THR:HG22	8	0.38
(3,732)	1:19:A:THR:HA	1:19:A:THR:HG22	10	0.38
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG23	13	0.38
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG21	14	0.38
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG21	16	0.38
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG23	18	0.38
(3,732)	1:19:A:THR:HB	1:19:A:THR:HG23	19	0.38
(3,722)	1:93:A:ALA:HB1	1:94:A:THR:HB	16	0.38
(3,709)	1:144:A:LEU:H	1:144:A:LEU:HD13	6	0.38
(3,692)	1:133:A:LYS:HB3	1:134:A:SER:HB3	3	0.38
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	11	0.38
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	11	0.38
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	6	0.38
(3,632)	1:9:A:ASP:HB3	1:10:A:ALA:HB2	7	0.38
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	7	0.38
(3,593)	1:40:A:ILE:HA	1:130:A:PRO:HG2	4	0.38
(3,587)	1:42:A:ASP:HA	1:45:A:LYS:HE2	19	0.38
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	18	0.38
(3,440)	1:99:A:TYR:HE1	1:100:A:THR:H	14	0.38
(3,431)	1:99:A:TYR:HD1	1:110:A:ILE:HG21	17	0.38
(3,419)	1:131:A:MET:HE2	1:144:A:LEU:HA	12	0.38
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB2	20	0.38
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	16	0.38
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	12	0.38
(3,349)	1:88:A:LYS:H	1:88:A:LYS:HD2	20	0.38
(3,339)	1:64:A:GLN:HB2	1:93:A:ALA:HB3	1	0.38
(3,325)	1:52:A:ASP:HA	1:52:A:ASP:HB3	3	0.38
(3,325)	1:52:A:ASP:HA	1:52:A:ASP:HB3	11	0.38
(3,325)	1:52:A:ASP:HA	1:52:A:ASP:HB3	12	0.38
(3,325)	1:52:A:ASP:HA	1:52:A:ASP:HB3	19	0.38
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	12	0.38
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	15	0.38
(3,163)	1:92:A:PRO:HA	1:92:A:PRO:HG3	15	0.38
(3,163)	1:92:A:PRO:HA	1:92:A:PRO:HG3	20	0.38
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	16	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,155)	1:113:A:GLN:HG3	1:114:A:VAL:H	2	0.38
(3,113)	1:74:A:VAL:HG11	1:75:A:GLY:H	14	0.38
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD23	18	0.38
(3,95)	1:138:A:ILE:HD11	1:139:A:TYR:H	7	0.38
(3,88)	1:67:A:LYS:H	1:67:A:LYS:HB2	14	0.38
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD11	20	0.38
(3,66)	1:80:A:ILE:HD12	1:81:A:ALA:H	6	0.38
(3,66)	1:80:A:ILE:HD13	1:81:A:ALA:H	10	0.38
(3,66)	1:80:A:ILE:HD11	1:81:A:ALA:H	20	0.38
(3,62)	1:48:A:ILE:H	1:48:A:ILE:HG13	14	0.38
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	1	0.38
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	2	0.38
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	5	0.38
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	13	0.38
(1,1940)	1:53:A:GLY:H	1:80:A:ILE:HD13	5	0.38
(1,1800)	1:124:A:ILE:HD11	1:146:A:ILE:H	7	0.38
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD21	6	0.38
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	18	0.38
(1,1359)	1:129:A:LYS:HD3	1:131:A:MET:H	3	0.38
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	6	0.38
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	13	0.38
(1,1283)	1:107:A:LEU:HD23	1:126:A:GLU:H	3	0.38
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	20	0.38
(1,1200)	1:119:A:ASN:H	1:120:A:LEU:HG	15	0.38
(1,1197)	1:112:A:LYS:HG2	1:117:A:ASN:H	11	0.38
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD23	14	0.38
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	20	0.38
(1,1093)	1:105:A:ASP:HB2	1:110:A:ILE:H	13	0.38
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	5	0.38
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	1	0.38
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	6	0.38
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	7	0.38
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	8	0.38
(1,1059)	1:103:A:SER:HB2	1:105:A:ASP:H	14	0.38
(1,1025)	1:100:A:THR:H	1:101:A:VAL:HG23	8	0.38
(1,1025)	1:100:A:THR:H	1:101:A:VAL:HG23	19	0.38
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	9	0.38
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	16	0.38
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	3	0.38
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	12	0.38
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	15	0.38
(1,974)	1:67:A:LYS:HG3	1:89:A:THR:H	7	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,974)	1:62:A:LEU:HB2	1:89:A:THR:H	19	0.38
(1,961)	1:87:A:VAL:H	1:88:A:LYS:HG3	2	0.38
(1,847)	1:7:A:VAL:H	1:100:A:THR:HG21	2	0.38
(1,800)	1:72:A:VAL:HG22	1:73:A:ALA:H	18	0.38
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG13	6	0.38
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG11	5	0.38
(1,758)	1:68:A:GLU:HG3	1:71:A:LEU:H	2	0.38
(1,699)	1:67:A:LYS:H	1:67:A:LYS:HG2	10	0.38
(1,678)	1:66:A:ALA:H	1:69:A:LYS:HB2	18	0.38
(1,644)	1:62:A:LEU:H	1:66:A:ALA:HB1	1	0.38
(1,615)	1:46:A:VAL:HG22	1:59:A:GLY:H	14	0.38
(1,614)	1:56:A:THR:HG22	1:59:A:GLY:H	11	0.38
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG21	7	0.38
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG22	7	0.38
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG23	7	0.38
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG11	11	0.38
(1,541)	1:54:A:LYS:H	1:80:A:ILE:HD11	8	0.38
(1,536)	1:52:A:ASP:HB2	1:54:A:LYS:H	3	0.38
(1,529)	1:51:A:ALA:H	1:54:A:LYS:HG3	5	0.38
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG23	9	0.38
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG21	12	0.38
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG21	17	0.38
(1,506)	1:49:A:GLN:H	1:56:A:THR:HG23	8	0.38
(1,506)	1:48:A:ILE:HG12	1:49:A:GLN:H	14	0.38
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG22	1	0.38
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	12	0.38
(1,375)	1:35:A:LEU:HD13	1:36:A:ASN:H	2	0.38
(1,340)	1:107:A:LEU:HB3	1:125:A:PHE:H	6	0.38
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	3	0.38
(1,304)	1:40:A:ILE:HD11	1:132:A:LEU:H	11	0.38
(1,269)	1:30:A:LYS:H	1:48:A:ILE:HG22	19	0.38
(1,260)	1:26:A:ASP:HB3	1:30:A:LYS:H	1	0.38
(1,237)	1:24:A:LYS:HG3	1:28:A:ALA:H	12	0.38
(1,161)	1:13:A:LYS:H	1:77:A:ILE:HG22	19	0.38
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	15	0.38
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	19	0.38
(1,77)	1:6:A:PHE:H	1:143:A:VAL:HG11	3	0.38
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG23	13	0.38
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG11	16	0.37
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG12	16	0.37
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG13	16	0.37
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG11	17	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG12	17	0.37
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG13	17	0.37
(3,2733)	1:64:A:GLN:HE22	1:64:A:GLN:HG3	3	0.37
(3,2733)	1:64:A:GLN:HE22	1:64:A:GLN:HG3	14	0.37
(3,2487)	1:35:A:LEU:HD22	1:43:A:ALA:HA	12	0.37
(3,2487)	1:35:A:LEU:HD22	1:43:A:ALA:HA	17	0.37
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB1	11	0.37
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	1	0.37
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	3	0.37
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	5	0.37
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	9	0.37
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	14	0.37
(3,2404)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	3	0.37
(3,2390)	1:15:A:TRP:HZ2	1:80:A:ILE:HG13	4	0.37
(3,2284)	1:68:A:GLU:HB2	1:145:A:ARG:HD3	7	0.37
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	7	0.37
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD11	3	0.37
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	3	0.37
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	14	0.37
(3,2214)	1:128:A:ASN:HD22	1:132:A:LEU:HD11	11	0.37
(3,2209)	1:38:A:THR:HG22	1:131:A:MET:HG3	16	0.37
(3,2193)	1:3:A:LEU:HD12	1:85:A:ASP:H	6	0.37
(3,2180)	1:109:A:ALA:HA	1:112:A:LYS:HD3	6	0.37
(3,2170)	1:107:A:LEU:HD11	1:125:A:PHE:HB3	13	0.37
(3,2164)	1:80:A:ILE:HG23	1:83:A:VAL:HA	13	0.37
(3,2160)	1:124:A:ILE:HG22	1:128:A:ASN:H	3	0.37
(3,2160)	1:124:A:ILE:HG23	1:128:A:ASN:H	13	0.37
(3,2160)	1:124:A:ILE:HG22	1:128:A:ASN:H	18	0.37
(3,2146)	1:118:A:ALA:HB3	1:121:A:TYR:HD1	20	0.37
(3,2124)	1:115:A:TYR:HA	1:149:A:GLU:HB3	12	0.37
(3,2120)	1:132:A:LEU:HD11	1:139:A:TYR:HE1	6	0.37
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	18	0.37
(3,2087)	1:101:A:VAL:HG11	1:110:A:ILE:HG23	11	0.37
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG22	14	0.37
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB1	6	0.37
(3,2059)	1:51:A:ALA:H	1:54:A:LYS:HG2	13	0.37
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	20	0.37
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD2	20	0.37
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG21	16	0.37
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG21	19	0.37
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	8	0.37
(3,2018)	1:121:A:TYR:HE1	1:122:A:ASN:HB2	2	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	13	0.37
(3,1982)	1:138:A:ILE:HG21	1:144:A:LEU:HD12	15	0.37
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	2	0.37
(3,1946)	1:12:A:GLU:HG3	1:38:A:THR:HG22	12	0.37
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	9	0.37
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	10	0.37
(3,1923)	1:77:A:ILE:HG22	1:80:A:ILE:HB	2	0.37
(3,1923)	1:77:A:ILE:HG23	1:80:A:ILE:HB	5	0.37
(3,1920)	1:77:A:ILE:HG23	1:80:A:ILE:HG13	15	0.37
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	3	0.37
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	3	0.37
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	3	0.37
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	16	0.37
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	16	0.37
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	16	0.37
(3,1851)	1:81:A:ALA:HB2	1:82:A:SER:HB3	16	0.37
(3,1850)	1:54:A:LYS:HD3	1:82:A:SER:HB3	8	0.37
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD21	17	0.37
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD22	17	0.37
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD23	17	0.37
(3,1783)	1:62:A:LEU:H	1:62:A:LEU:HB2	7	0.37
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	3	0.37
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	3	0.37
(3,1766)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	15	0.37
(3,1763)	1:31:A:VAL:HG13	1:32:A:GLN:HA	20	0.37
(3,1762)	1:111:A:SER:HB3	1:121:A:TYR:HA	18	0.37
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	15	0.37
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	15	0.37
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	15	0.37
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD11	1	0.37
(3,1746)	1:18:A:VAL:HB	1:19:A:THR:HG22	20	0.37
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	14	0.37
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	14	0.37
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD12	8	0.37
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD13	17	0.37
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD13	13	0.37
(3,1598)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	5	0.37
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	8	0.37
(3,1573)	1:40:A:ILE:HD13	1:41:A:PRO:HD2	14	0.37
(3,1495)	1:125:A:PHE:HD2	1:132:A:LEU:HG	7	0.37
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD12	18	0.37
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	14	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1445)	1:45:A:LYS:HA	1:45:A:LYS:HG2	15	0.37
(3,1425)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	4	0.37
(3,1425)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	5	0.37
(3,1425)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	7	0.37
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	12	0.37
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	14	0.37
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	16	0.37
(3,1399)	1:29:A:LYS:HD2	1:33:A:GLU:HG2	9	0.37
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	8	0.37
(3,1374)	1:32:A:GLN:HG2	1:48:A:ILE:H	16	0.37
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG11	7	0.37
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG11	10	0.37
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG21	5	0.37
(3,1341)	1:60:A:ASP:H	1:87:A:VAL:HG21	1	0.37
(3,1338)	1:72:A:VAL:HG13	1:145:A:ARG:H	7	0.37
(3,1325)	1:99:A:TYR:HE1	1:101:A:VAL:HG21	10	0.37
(3,1317)	1:72:A:VAL:HG11	1:144:A:LEU:HA	11	0.37
(3,1307)	1:57:A:VAL:HB	1:83:A:VAL:HG13	15	0.37
(3,1294)	1:83:A:VAL:HG11	1:83:A:VAL:HG21	11	0.37
(3,1268)	1:31:A:VAL:HG11	1:31:A:VAL:HG21	13	0.37
(3,1223)	1:25:A:ASP:HB3	1:28:A:ALA:HB1	12	0.37
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB3	7	0.37
(3,1185)	1:27:A:GLN:H	1:27:A:GLN:HB3	6	0.37
(3,1157)	1:122:A:ASN:HD21	1:123:A:LYS:HG3	5	0.37
(3,1132)	1:24:A:LYS:HA	1:25:A:ASP:HA	18	0.37
(3,1068)	1:108:A:SER:HB2	1:121:A:TYR:HB3	14	0.37
(3,1061)	1:13:A:LYS:HB3	1:78:A:SER:HB3	2	0.37
(3,1054)	1:129:A:LYS:HD2	1:130:A:PRO:HA	19	0.37
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG12	1	0.37
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG12	3	0.37
(3,1025)	1:100:A:THR:HG22	1:102:A:LYS:HE3	10	0.37
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG11	2	0.37
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	2	0.37
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	8	0.37
(3,948)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	2	0.37
(3,926)	1:35:A:LEU:HD22	1:43:A:ALA:HA	13	0.37
(3,887)	1:13:A:LYS:HA	1:14:A:LEU:HD21	16	0.37
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	3	0.37
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	3	0.37
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	3	0.37
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	10	0.37
(3,791)	1:24:A:LYS:HD2	1:24:A:LYS:HE3	5	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,791)	1:88:A:LYS:HD2	1:88:A:LYS:HE3	7	0.37
(3,760)	1:8:A:LYS:HA	1:8:A:LYS:HG3	8	0.37
(3,748)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	6	0.37
(3,732)	1:19:A:THR:HA	1:19:A:THR:HG22	3	0.37
(3,731)	1:38:A:THR:HB	1:38:A:THR:HG21	8	0.37
(3,706)	1:64:A:GLN:HG3	1:93:A:ALA:H	6	0.37
(3,705)	1:64:A:GLN:HG3	1:65:A:GLU:H	5	0.37
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	12	0.37
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	12	0.37
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	9	0.37
(3,632)	1:25:A:ASP:HB3	1:28:A:ALA:HB2	3	0.37
(3,632)	1:9:A:ASP:HB3	1:10:A:ALA:HB3	18	0.37
(3,630)	1:135:A:PRO:HB2	1:136:A:ASP:HB2	5	0.37
(3,630)	1:135:A:PRO:HB2	1:136:A:ASP:HB2	17	0.37
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	19	0.37
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	15	0.37
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	4	0.37
(3,514)	1:125:A:PHE:HE2	1:132:A:LEU:HG	11	0.37
(3,419)	1:131:A:MET:HE3	1:144:A:LEU:HA	4	0.37
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB2	7	0.37
(3,406)	1:69:A:LYS:H	1:69:A:LYS:HG3	6	0.37
(3,405)	1:4:A:PHE:HD1	1:85:A:ASP:HB3	10	0.37
(3,405)	1:4:A:PHE:HD2	1:85:A:ASP:HB3	10	0.37
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	6	0.37
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	8	0.37
(3,325)	1:52:A:ASP:HA	1:52:A:ASP:HB3	2	0.37
(3,325)	1:52:A:ASP:HA	1:52:A:ASP:HB3	4	0.37
(3,325)	1:52:A:ASP:HA	1:52:A:ASP:HB3	7	0.37
(3,325)	1:52:A:ASP:HA	1:52:A:ASP:HB3	9	0.37
(3,325)	1:52:A:ASP:HA	1:52:A:ASP:HB3	15	0.37
(3,325)	1:52:A:ASP:HA	1:52:A:ASP:HB3	16	0.37
(3,229)	1:18:A:VAL:HG22	1:19:A:THR:H	3	0.37
(3,229)	1:18:A:VAL:HG12	1:19:A:THR:H	20	0.37
(3,163)	1:92:A:PRO:HA	1:92:A:PRO:HG3	6	0.37
(3,163)	1:92:A:PRO:HA	1:92:A:PRO:HG3	11	0.37
(3,163)	1:92:A:PRO:HA	1:92:A:PRO:HG3	12	0.37
(3,163)	1:92:A:PRO:HA	1:92:A:PRO:HG3	13	0.37
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	14	0.37
(3,113)	1:74:A:VAL:HG12	1:75:A:GLY:H	2	0.37
(3,113)	1:74:A:VAL:HG12	1:75:A:GLY:H	4	0.37
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	10	0.37
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	17	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD21	7	0.37
(3,95)	1:138:A:ILE:HD11	1:139:A:TYR:H	3	0.37
(3,95)	1:138:A:ILE:HD13	1:139:A:TYR:H	13	0.37
(3,95)	1:138:A:ILE:HD13	1:139:A:TYR:H	18	0.37
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD11	13	0.37
(3,48)	1:45:A:LYS:H	1:45:A:LYS:HG3	8	0.37
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	17	0.37
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	18	0.37
(1,1768)	1:99:A:TYR:H	1:144:A:LEU:HB3	20	0.37
(1,1681)	1:49:A:GLN:H	1:58:A:THR:HB	14	0.37
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG22	12	0.37
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG23	16	0.37
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	20	0.37
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	16	0.37
(1,1558)	1:148:A:GLU:HB3	1:149:A:GLU:H	17	0.37
(1,1529)	1:33:A:GLU:HA	1:36:A:ASN:HD22	20	0.37
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	7	0.37
(1,1464)	1:138:A:ILE:HB	1:142:A:GLN:H	7	0.37
(1,1412)	1:137:A:LYS:H	1:138:A:ILE:HG12	7	0.37
(1,1398)	1:136:A:ASP:H	1:137:A:LYS:HD2	4	0.37
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	10	0.37
(1,1325)	1:128:A:ASN:H	1:132:A:LEU:HG	20	0.37
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	15	0.37
(1,1197)	1:112:A:LYS:HG2	1:117:A:ASN:H	10	0.37
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD21	19	0.37
(1,1166)	1:114:A:VAL:HG12	1:115:A:TYR:H	3	0.37
(1,1166)	1:114:A:VAL:HG11	1:115:A:TYR:H	4	0.37
(1,1166)	1:114:A:VAL:HG11	1:115:A:TYR:H	5	0.37
(1,1166)	1:114:A:VAL:HG13	1:115:A:TYR:H	11	0.37
(1,1166)	1:114:A:VAL:HG12	1:115:A:TYR:H	15	0.37
(1,1074)	1:109:A:ALA:H	1:110:A:ILE:HG13	12	0.37
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	3	0.37
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	19	0.37
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	20	0.37
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	2	0.37
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	20	0.37
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	1	0.37
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	3	0.37
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	11	0.37
(1,918)	1:3:A:LEU:HD12	1:82:A:SER:H	19	0.37
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	18	0.37
(1,800)	1:72:A:VAL:HG12	1:73:A:ALA:H	15	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,678)	1:66:A:ALA:H	1:69:A:LYS:HB2	12	0.37
(1,609)	1:59:A:GLY:H	1:88:A:LYS:HB2	2	0.37
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB2	17	0.37
(1,515)	1:49:A:GLN:HB3	1:50:A:ILE:H	15	0.37
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG22	8	0.37
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG23	10	0.37
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG21	12	0.37
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG12	14	0.37
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG11	3	0.37
(1,367)	1:32:A:GLN:HG2	1:36:A:ASN:H	8	0.37
(1,305)	1:33:A:GLU:H	1:35:A:LEU:HD11	5	0.37
(1,293)	1:32:A:GLN:H	1:48:A:ILE:HG13	4	0.37
(1,278)	1:14:A:LEU:HD11	1:31:A:VAL:H	20	0.37
(1,278)	1:14:A:LEU:HD12	1:31:A:VAL:H	20	0.37
(1,278)	1:14:A:LEU:HD13	1:31:A:VAL:H	20	0.37
(1,273)	1:28:A:ALA:HB3	1:31:A:VAL:H	12	0.37
(1,271)	1:30:A:LYS:HD3	1:31:A:VAL:H	12	0.37
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	11	0.37
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	18	0.37
(1,178)	1:14:A:LEU:H	1:15:A:TRP:HE3	19	0.37
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG22	18	0.37
(1,49)	1:82:A:SER:HB2	1:83:A:VAL:H	20	0.37
(1,31)	1:5:A:ASN:H	1:83:A:VAL:HG22	7	0.37
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	7	0.36
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	15	0.36
(3,2891)	1:96:A:SER:HB3	1:97:A:GLN:H	13	0.36
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG11	9	0.36
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG12	9	0.36
(3,2815)	1:143:A:VAL:HA	1:143:A:VAL:HG13	9	0.36
(3,2733)	1:64:A:GLN:HE22	1:64:A:GLN:HG3	1	0.36
(3,2733)	1:64:A:GLN:HE22	1:64:A:GLN:HG3	7	0.36
(3,2733)	1:64:A:GLN:HE22	1:64:A:GLN:HG3	19	0.36
(3,2616)	1:132:A:LEU:HD21	1:142:A:GLN:HE21	17	0.36
(3,2616)	1:132:A:LEU:HD22	1:142:A:GLN:HE21	17	0.36
(3,2616)	1:132:A:LEU:HD23	1:142:A:GLN:HE21	17	0.36
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	2	0.36
(3,2510)	1:110:A:ILE:HD11	1:114:A:VAL:HG13	17	0.36
(3,2497)	1:56:A:THR:HG21	1:58:A:THR:H	4	0.36
(3,2497)	1:56:A:THR:HG23	1:58:A:THR:H	19	0.36
(3,2487)	1:43:A:ALA:HA	1:46:A:VAL:HG13	5	0.36
(3,2465)	1:110:A:ILE:HD12	1:144:A:LEU:H	12	0.36
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	14	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	14	0.36
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	14	0.36
(3,2396)	1:14:A:LEU:HD21	1:34:A:HIS:HE1	15	0.36
(3,2321)	1:40:A:ILE:HD13	1:131:A:MET:HG2	16	0.36
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD21	2	0.36
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD21	3	0.36
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD21	5	0.36
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	1	0.36
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	18	0.36
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD11	6	0.36
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	10	0.36
(3,2193)	1:3:A:LEU:HD13	1:85:A:ASP:H	1	0.36
(3,2193)	1:3:A:LEU:HD13	1:85:A:ASP:H	5	0.36
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	8	0.36
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	9	0.36
(3,2177)	1:54:A:LYS:HD2	1:84:A:ASP:H	5	0.36
(3,2173)	1:8:A:LYS:HD3	1:80:A:ILE:HA	4	0.36
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	16	0.36
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	16	0.36
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD21	14	0.36
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD13	4	0.36
(3,2087)	1:101:A:VAL:HG13	1:110:A:ILE:HG21	5	0.36
(3,2087)	1:101:A:VAL:HG13	1:110:A:ILE:HG21	7	0.36
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	2	0.36
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	13	0.36
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	12	0.36
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG21	3	0.36
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG22	15	0.36
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	2	0.36
(3,1946)	1:12:A:GLU:HG3	1:14:A:LEU:HG	1	0.36
(3,1943)	1:55:A:ALA:H	1:82:A:SER:HB2	17	0.36
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	3	0.36
(3,1882)	1:63:A:SER:HB3	1:65:A:GLU:HB2	15	0.36
(3,1783)	1:62:A:LEU:H	1:62:A:LEU:HB2	1	0.36
(3,1783)	1:62:A:LEU:H	1:62:A:LEU:HB2	2	0.36
(3,1783)	1:62:A:LEU:H	1:62:A:LEU:HB2	16	0.36
(3,1766)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	14	0.36
(3,1766)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	16	0.36
(3,1715)	1:46:A:VAL:HG22	1:47:A:ASN:HA	16	0.36
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG11	8	0.36
(3,1637)	1:91:A:THR:HG21	1:92:A:PRO:HD2	7	0.36
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	5	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	20	0.36
(3,1577)	1:40:A:ILE:HD12	1:41:A:PRO:HD3	18	0.36
(3,1556)	1:48:A:ILE:HG22	1:55:A:ALA:HB2	4	0.36
(3,1539)	1:40:A:ILE:HD11	1:73:A:ALA:HB1	20	0.36
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	4	0.36
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	4	0.36
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	4	0.36
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	20	0.36
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	20	0.36
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	20	0.36
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD11	5	0.36
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	2	0.36
(3,1468)	1:15:A:TRP:HE3	1:30:A:LYS:HD2	2	0.36
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	16	0.36
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	15	0.36
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	20	0.36
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	7	0.36
(3,1374)	1:32:A:GLN:HG3	1:48:A:ILE:H	5	0.36
(3,1374)	1:32:A:GLN:HG3	1:48:A:ILE:H	20	0.36
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD12	2	0.36
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD13	3	0.36
(3,1334)	1:83:A:VAL:HA	1:83:A:VAL:HG11	11	0.36
(3,1334)	1:83:A:VAL:HA	1:83:A:VAL:HG12	11	0.36
(3,1334)	1:83:A:VAL:HA	1:83:A:VAL:HG13	11	0.36
(3,1318)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	17	0.36
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG22	1	0.36
(3,1294)	1:71:A:LEU:HD23	1:83:A:VAL:HG13	13	0.36
(3,1294)	1:71:A:LEU:HD22	1:83:A:VAL:HG13	20	0.36
(3,1274)	1:100:A:THR:HA	1:101:A:VAL:HG11	19	0.36
(3,1268)	1:31:A:VAL:HG13	1:31:A:VAL:HG22	4	0.36
(3,1268)	1:31:A:VAL:HG12	1:31:A:VAL:HG22	8	0.36
(3,1268)	1:31:A:VAL:HG11	1:31:A:VAL:HG21	14	0.36
(3,1268)	1:31:A:VAL:HG13	1:31:A:VAL:HG23	17	0.36
(3,1232)	1:28:A:ALA:HB3	1:29:A:LYS:HB2	20	0.36
(3,1223)	1:25:A:ASP:HB2	1:28:A:ALA:HB1	15	0.36
(3,1219)	1:28:A:ALA:HB3	1:48:A:ILE:HA	17	0.36
(3,1185)	1:27:A:GLN:H	1:27:A:GLN:HB3	9	0.36
(3,1157)	1:122:A:ASN:HD21	1:123:A:LYS:HG3	15	0.36
(3,1146)	1:23:A:ASP:HB2	1:24:A:LYS:HA	3	0.36
(3,1146)	1:24:A:LYS:HA	1:26:A:ASP:HB3	14	0.36
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB2	11	0.36
(3,1068)	1:108:A:SER:HB2	1:121:A:TYR:HB3	11	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG11	2	0.36
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG13	7	0.36
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG12	20	0.36
(3,1039)	1:99:A:TYR:HA	1:114:A:VAL:HG13	6	0.36
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG21	19	0.36
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG13	11	0.36
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG12	20	0.36
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG11	14	0.36
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG12	14	0.36
(3,1027)	1:16:A:ASP:HB2	1:18:A:VAL:HG13	14	0.36
(3,1010)	1:127:A:ALA:HB3	1:128:A:ASN:HA	12	0.36
(3,1001)	1:66:A:ALA:HB1	1:67:A:LYS:H	10	0.36
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	13	0.36
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	18	0.36
(3,948)	1:107:A:LEU:HD11	1:125:A:PHE:HB3	17	0.36
(3,938)	1:99:A:TYR:HD1	1:144:A:LEU:HD21	14	0.36
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD21	2	0.36
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	7	0.36
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB2	12	0.36
(3,798)	1:106:A:THR:HG23	1:136:A:ASP:HB3	1	0.36
(3,791)	1:24:A:LYS:HD3	1:24:A:LYS:HE2	11	0.36
(3,791)	1:29:A:LYS:HD2	1:29:A:LYS:HE3	15	0.36
(3,732)	1:19:A:THR:HA	1:19:A:THR:HG22	4	0.36
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG22	17	0.36
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	11	0.36
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	11	0.36
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	11	0.36
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	16	0.36
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	16	0.36
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	16	0.36
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	17	0.36
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	11	0.36
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	2	0.36
(3,583)	1:4:A:PHE:HB3	1:6:A:PHE:HZ	4	0.36
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG21	10	0.36
(3,520)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	17	0.36
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	1	0.36
(3,416)	1:131:A:MET:HE3	1:144:A:LEU:HD12	4	0.36
(3,406)	1:69:A:LYS:H	1:69:A:LYS:HG3	5	0.36
(3,405)	1:4:A:PHE:HD1	1:85:A:ASP:HB3	19	0.36
(3,405)	1:4:A:PHE:HD2	1:85:A:ASP:HB3	19	0.36
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	6	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB3	11	0.36
(3,330)	1:111:A:SER:HB2	1:112:A:LYS:H	12	0.36
(3,325)	1:52:A:ASP:HA	1:52:A:ASP:HB3	13	0.36
(3,325)	1:52:A:ASP:HA	1:52:A:ASP:HB3	18	0.36
(3,306)	1:106:A:THR:H	1:106:A:THR:HG22	8	0.36
(3,273)	1:64:A:GLN:HG3	1:93:A:ALA:HB3	10	0.36
(3,243)	1:29:A:LYS:HG2	1:30:A:LYS:H	3	0.36
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	19	0.36
(3,163)	1:92:A:PRO:HA	1:92:A:PRO:HG3	17	0.36
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	5	0.36
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	11	0.36
(3,113)	1:74:A:VAL:HG11	1:75:A:GLY:H	17	0.36
(3,113)	1:74:A:VAL:HG11	1:75:A:GLY:H	20	0.36
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	15	0.36
(3,95)	1:138:A:ILE:HD12	1:139:A:TYR:H	4	0.36
(3,77)	1:57:A:VAL:HG13	1:87:A:VAL:H	3	0.36
(3,72)	1:31:A:VAL:H	1:50:A:ILE:HG13	15	0.36
(3,66)	1:80:A:ILE:HD12	1:81:A:ALA:H	9	0.36
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG21	5	0.36
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG22	5	0.36
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG23	5	0.36
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	6	0.36
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	9	0.36
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	11	0.36
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	14	0.36
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	5	0.36
(1,1674)	1:45:A:LYS:H	1:62:A:LEU:H	1	0.36
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG21	4	0.36
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG21	15	0.36
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD21	14	0.36
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	7	0.36
(1,1454)	1:101:A:VAL:HG12	1:141:A:GLY:H	20	0.36
(1,1448)	1:101:A:VAL:HB	1:141:A:GLY:H	8	0.36
(1,1448)	1:101:A:VAL:HB	1:141:A:GLY:H	12	0.36
(1,1313)	1:125:A:PHE:HD2	1:128:A:ASN:H	5	0.36
(1,1285)	1:127:A:ALA:H	1:129:A:LYS:HB3	10	0.36
(1,1283)	1:107:A:LEU:HD21	1:126:A:GLU:H	20	0.36
(1,1217)	1:118:A:ALA:HB1	1:120:A:LEU:H	14	0.36
(1,1166)	1:114:A:VAL:HG12	1:115:A:TYR:H	16	0.36
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	10	0.36
(1,1074)	1:109:A:ALA:H	1:112:A:LYS:HB2	10	0.36
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	2	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	5	0.36
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	10	0.36
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	15	0.36
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	17	0.36
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	6	0.36
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	9	0.36
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	13	0.36
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	20	0.36
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	13	0.36
(1,885)	1:8:A:LYS:HG3	1:80:A:ILE:H	18	0.36
(1,848)	1:7:A:VAL:H	1:80:A:ILE:HG23	2	0.36
(1,846)	1:13:A:LYS:HG3	1:78:A:SER:H	3	0.36
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB2	1	0.36
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB2	4	0.36
(1,742)	1:41:A:PRO:HB2	1:70:A:ILE:H	13	0.36
(1,678)	1:66:A:ALA:H	1:69:A:LYS:HB2	15	0.36
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	13	0.36
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG21	15	0.36
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG22	15	0.36
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG23	15	0.36
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG21	20	0.36
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG22	20	0.36
(1,582)	1:57:A:VAL:H	1:57:A:VAL:HG23	20	0.36
(1,563)	1:56:A:THR:H	1:56:A:THR:HG23	14	0.36
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG22	15	0.36
(1,510)	1:50:A:ILE:H	1:50:A:ILE:HG21	19	0.36
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG22	3	0.36
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG23	4	0.36
(1,481)	1:47:A:ASN:H	1:58:A:THR:HG21	4	0.36
(1,342)	1:31:A:VAL:HG23	1:34:A:HIS:H	12	0.36
(1,339)	1:125:A:PHE:H	1:135:A:PRO:HB3	9	0.36
(1,305)	1:33:A:GLU:H	1:35:A:LEU:HD13	1	0.36
(1,304)	1:40:A:ILE:HD13	1:132:A:LEU:H	7	0.36
(1,300)	1:29:A:LYS:HG3	1:33:A:GLU:H	3	0.36
(1,273)	1:28:A:ALA:HB1	1:31:A:VAL:H	5	0.36
(1,192)	1:14:A:LEU:HG	1:15:A:TRP:H	2	0.36
(1,142)	1:12:A:GLU:H	1:77:A:ILE:HB	3	0.36
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	16	0.36
(1,109)	1:9:A:ASP:H	1:81:A:ALA:HB1	14	0.36
(1,83)	1:6:A:PHE:H	1:98:A:PHE:HB3	5	0.36
(1,73)	1:3:A:LEU:HG	1:4:A:PHE:H	16	0.36
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	1	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	3	0.35
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	10	0.35
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	10	0.35
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	10	0.35
(3,2733)	1:64:A:GLN:HE22	1:64:A:GLN:HG3	12	0.35
(3,2616)	1:132:A:LEU:HD21	1:142:A:GLN:HE21	8	0.35
(3,2616)	1:132:A:LEU:HD22	1:142:A:GLN:HE21	8	0.35
(3,2616)	1:132:A:LEU:HD23	1:142:A:GLN:HE21	8	0.35
(3,2616)	1:132:A:LEU:HD21	1:142:A:GLN:HE21	10	0.35
(3,2616)	1:132:A:LEU:HD22	1:142:A:GLN:HE21	10	0.35
(3,2616)	1:132:A:LEU:HD23	1:142:A:GLN:HE21	10	0.35
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD11	3	0.35
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD11	4	0.35
(3,2493)	1:31:A:VAL:HA	1:77:A:ILE:HD11	15	0.35
(3,2484)	1:53:A:GLY:HA3	1:80:A:ILE:HA	10	0.35
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	17	0.35
(3,2417)	1:6:A:PHE:HB2	1:143:A:VAL:HG12	1	0.35
(3,2383)	1:15:A:TRP:HE3	1:30:A:LYS:HD3	4	0.35
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD22	17	0.35
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	1	0.35
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD11	5	0.35
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD12	11	0.35
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	6	0.35
(3,2259)	1:115:A:TYR:HB3	1:117:A:ASN:HB2	19	0.35
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	15	0.35
(3,2209)	1:38:A:THR:HG23	1:131:A:MET:HG3	2	0.35
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	3	0.35
(3,2170)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	18	0.35
(3,2164)	1:80:A:ILE:HG23	1:83:A:VAL:HA	6	0.35
(3,2160)	1:124:A:ILE:HG21	1:128:A:ASN:H	1	0.35
(3,2160)	1:124:A:ILE:HG23	1:128:A:ASN:H	9	0.35
(3,2160)	1:124:A:ILE:HG21	1:128:A:ASN:H	19	0.35
(3,2144)	1:117:A:ASN:H	1:120:A:LEU:HD21	10	0.35
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG22	19	0.35
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	8	0.35
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	12	0.35
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	16	0.35
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	7	0.35
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	7	0.35
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	7	0.35
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB2	7	0.35
(3,1978)	1:57:A:VAL:H	1:83:A:VAL:HG12	4	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1942)	1:6:A:PHE:H	1:82:A:SER:HB3	11	0.35
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	19	0.35
(3,1923)	1:77:A:ILE:HG22	1:80:A:ILE:HB	9	0.35
(3,1803)	1:72:A:VAL:HA	1:98:A:PHE:HE2	13	0.35
(3,1783)	1:62:A:LEU:H	1:62:A:LEU:HB2	17	0.35
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	3	0.35
(3,1766)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	9	0.35
(3,1766)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	12	0.35
(3,1766)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	19	0.35
(3,1707)	1:53:A:GLY:HA3	1:80:A:ILE:HA	3	0.35
(3,1707)	1:53:A:GLY:HA3	1:80:A:ILE:HA	9	0.35
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD12	1	0.35
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD11	2	0.35
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD12	4	0.35
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD11	9	0.35
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD12	10	0.35
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG21	9	0.35
(3,1598)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	14	0.35
(3,1577)	1:40:A:ILE:HD11	1:41:A:PRO:HD3	7	0.35
(3,1577)	1:40:A:ILE:HD11	1:41:A:PRO:HD3	19	0.35
(3,1539)	1:40:A:ILE:HD13	1:73:A:ALA:HB2	9	0.35
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	3	0.35
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	3	0.35
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	3	0.35
(3,1468)	1:15:A:TRP:HE3	1:30:A:LYS:HD2	18	0.35
(3,1464)	1:142:A:GLN:HB3	1:144:A:LEU:H	6	0.35
(3,1436)	1:132:A:LEU:HD11	1:138:A:ILE:HA	4	0.35
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	7	0.35
(3,1399)	1:29:A:LYS:HD2	1:33:A:GLU:HG2	7	0.35
(3,1398)	1:148:A:GLU:HG3	1:150:A:LEU:HG	10	0.35
(3,1377)	1:38:A:THR:HG22	1:130:A:PRO:HB2	15	0.35
(3,1336)	1:72:A:VAL:HG11	1:73:A:ALA:H	13	0.35
(3,1336)	1:72:A:VAL:HG12	1:73:A:ALA:H	13	0.35
(3,1336)	1:72:A:VAL:HG13	1:73:A:ALA:H	13	0.35
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG11	13	0.35
(3,1308)	1:31:A:VAL:HG12	1:77:A:ILE:HG12	20	0.35
(3,1307)	1:74:A:VAL:HB	1:83:A:VAL:HG12	1	0.35
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	10	0.35
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	10	0.35
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	10	0.35
(3,1274)	1:100:A:THR:HA	1:101:A:VAL:HG12	8	0.35
(3,1274)	1:100:A:THR:HA	1:101:A:VAL:HG12	12	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1268)	1:31:A:VAL:HG11	1:31:A:VAL:HG23	1	0.35
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	4	0.35
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	4	0.35
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	4	0.35
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB1	3	0.35
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	14	0.35
(3,1185)	1:27:A:GLN:H	1:27:A:GLN:HB3	13	0.35
(3,1185)	1:27:A:GLN:H	1:27:A:GLN:HB3	17	0.35
(3,1185)	1:27:A:GLN:H	1:27:A:GLN:HB3	19	0.35
(3,1177)	1:38:A:THR:HB	1:130:A:PRO:HB2	10	0.35
(3,1177)	1:38:A:THR:HB	1:130:A:PRO:HB2	16	0.35
(3,1139)	1:24:A:LYS:HA	1:24:A:LYS:HG3	20	0.35
(3,1138)	1:123:A:LYS:HA	1:123:A:LYS:HG3	11	0.35
(3,1061)	1:13:A:LYS:HD3	1:78:A:SER:HB3	16	0.35
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG11	10	0.35
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG22	3	0.35
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG21	14	0.35
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG13	9	0.35
(3,1029)	1:56:A:THR:HG23	1:86:A:GLN:HB2	6	0.35
(3,1025)	1:100:A:THR:HG21	1:102:A:LYS:HE3	12	0.35
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG11	10	0.35
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB2	9	0.35
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB3	16	0.35
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB2	18	0.35
(3,948)	1:107:A:LEU:HD13	1:125:A:PHE:HB3	15	0.35
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD12	3	0.35
(3,926)	1:35:A:LEU:HD22	1:43:A:ALA:HA	12	0.35
(3,926)	1:35:A:LEU:HD22	1:43:A:ALA:HA	17	0.35
(3,914)	1:120:A:LEU:HD23	1:149:A:GLU:HG3	11	0.35
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD13	1	0.35
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD22	16	0.35
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD21	19	0.35
(3,906)	1:120:A:LEU:HD23	1:123:A:LYS:HE2	4	0.35
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	13	0.35
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	13	0.35
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	13	0.35
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	16	0.35
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	10	0.35
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	10	0.35
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	10	0.35
(3,830)	1:67:A:LYS:HA	1:70:A:ILE:HD11	13	0.35
(3,791)	1:29:A:LYS:HD3	1:29:A:LYS:HE2	8	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,791)	1:8:A:LYS:HD3	1:8:A:LYS:HE3	17	0.35
(3,791)	1:8:A:LYS:HD3	1:8:A:LYS:HE3	20	0.35
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	18	0.35
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	18	0.35
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	18	0.35
(3,732)	1:19:A:THR:HA	1:19:A:THR:HG23	11	0.35
(3,709)	1:144:A:LEU:H	1:144:A:LEU:HD11	20	0.35
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	20	0.35
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	20	0.35
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	9	0.35
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	2	0.35
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	4	0.35
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	4	0.35
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	4	0.35
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	4	0.35
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	4	0.35
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	4	0.35
(3,632)	1:9:A:ASP:HB3	1:10:A:ALA:HB2	6	0.35
(3,632)	1:9:A:ASP:HB3	1:10:A:ALA:HB1	9	0.35
(3,630)	1:135:A:PRO:HB2	1:136:A:ASP:HB2	9	0.35
(3,623)	1:107:A:LEU:HB3	1:138:A:ILE:HG23	18	0.35
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	18	0.35
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	11	0.35
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD23	3	0.35
(3,479)	1:115:A:TYR:HE1	1:150:A:LEU:H	16	0.35
(3,438)	1:99:A:TYR:H	1:99:A:TYR:HD1	1	0.35
(3,416)	1:131:A:MET:HE2	1:144:A:LEU:HD13	3	0.35
(3,406)	1:69:A:LYS:HG3	1:70:A:ILE:H	4	0.35
(3,349)	1:17:A:ALA:H	1:21:A:GLN:HB2	3	0.35
(3,349)	1:29:A:LYS:HD3	1:33:A:GLU:H	19	0.35
(3,280)	1:68:A:GLU:HA	1:68:A:GLU:HG3	3	0.35
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	7	0.35
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	16	0.35
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	19	0.35
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	7	0.35
(3,162)	1:146:A:ILE:HA	1:147:A:PRO:HG2	17	0.35
(3,113)	1:74:A:VAL:HG12	1:75:A:GLY:H	1	0.35
(3,113)	1:74:A:VAL:HG13	1:75:A:GLY:H	7	0.35
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	3	0.35
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	7	0.35
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	19	0.35
(3,95)	1:138:A:ILE:HD13	1:139:A:TYR:H	1	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD12	20	0.35
(3,66)	1:80:A:ILE:HD12	1:81:A:ALA:H	3	0.35
(3,43)	1:37:A:LYS:H	1:37:A:LYS:HG2	5	0.35
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG21	6	0.35
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG22	6	0.35
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG23	6	0.35
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG21	9	0.35
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG22	9	0.35
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG23	9	0.35
(1,1977)	1:55:A:ALA:HB3	1:74:A:VAL:H	12	0.35
(1,1977)	1:55:A:ALA:HB1	1:74:A:VAL:H	13	0.35
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG21	8	0.35
(1,1874)	1:68:A:GLU:HG3	1:145:A:ARG:HE	19	0.35
(1,1846)	1:105:A:ASP:HB2	1:106:A:THR:H	9	0.35
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	14	0.35
(1,1788)	1:115:A:TYR:H	1:118:A:ALA:HB2	15	0.35
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	8	0.35
(1,1676)	1:45:A:LYS:H	1:62:A:LEU:HD23	11	0.35
(1,1633)	1:117:A:ASN:HD21	1:119:A:ASN:HB3	18	0.35
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	3	0.35
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	3	0.35
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	11	0.35
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	7	0.35
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	14	0.35
(1,1529)	1:33:A:GLU:HA	1:36:A:ASN:HD22	14	0.35
(1,1529)	1:33:A:GLU:HA	1:36:A:ASN:HD22	15	0.35
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	18	0.35
(1,1406)	1:121:A:TYR:HD2	1:136:A:ASP:H	4	0.35
(1,1390)	1:132:A:LEU:HD21	1:134:A:SER:H	15	0.35
(1,1390)	1:132:A:LEU:HD22	1:134:A:SER:H	15	0.35
(1,1390)	1:132:A:LEU:HD23	1:134:A:SER:H	15	0.35
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	11	0.35
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD11	15	0.35
(1,1283)	1:124:A:ILE:HG21	1:126:A:GLU:H	1	0.35
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	2	0.35
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	8	0.35
(1,1277)	1:122:A:ASN:HB3	1:126:A:GLU:H	3	0.35
(1,1277)	1:122:A:ASN:HB3	1:126:A:GLU:H	9	0.35
(1,1229)	1:121:A:TYR:H	1:125:A:PHE:HB2	1	0.35
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	2	0.35
(1,1166)	1:114:A:VAL:HG13	1:115:A:TYR:H	9	0.35
(1,1149)	1:99:A:TYR:HE2	1:114:A:VAL:H	2	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	9	0.35
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	1	0.35
(1,800)	1:72:A:VAL:HG21	1:73:A:ALA:H	3	0.35
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB1	16	0.35
(1,758)	1:68:A:GLU:HG3	1:71:A:LEU:H	12	0.35
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	8	0.35
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG21	7	0.35
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG22	7	0.35
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG23	7	0.35
(1,506)	1:48:A:ILE:HG12	1:49:A:GLN:H	12	0.35
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG21	19	0.35
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB3	2	0.35
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB3	7	0.35
(1,342)	1:31:A:VAL:HG21	1:34:A:HIS:H	2	0.35
(1,342)	1:31:A:VAL:HG23	1:34:A:HIS:H	10	0.35
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	7	0.35
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	13	0.35
(1,304)	1:40:A:ILE:HD13	1:132:A:LEU:H	2	0.35
(1,278)	1:14:A:LEU:HD11	1:31:A:VAL:H	14	0.35
(1,278)	1:14:A:LEU:HD12	1:31:A:VAL:H	14	0.35
(1,278)	1:14:A:LEU:HD13	1:31:A:VAL:H	14	0.35
(1,278)	1:14:A:LEU:HD11	1:31:A:VAL:H	16	0.35
(1,278)	1:14:A:LEU:HD12	1:31:A:VAL:H	16	0.35
(1,278)	1:14:A:LEU:HD13	1:31:A:VAL:H	16	0.35
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	3	0.35
(1,272)	1:27:A:GLN:HB3	1:31:A:VAL:H	11	0.35
(1,249)	1:25:A:ASP:HB3	1:29:A:LYS:H	4	0.35
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG21	11	0.35
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	10	0.35
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	20	0.35
(1,212)	1:22:A:HIS:HB2	1:25:A:ASP:H	11	0.35
(1,192)	1:14:A:LEU:HG	1:15:A:TRP:H	17	0.35
(1,141)	1:12:A:GLU:H	1:142:A:GLN:HG2	1	0.35
(1,134)	1:12:A:GLU:H	1:14:A:LEU:HG	11	0.35
(1,67)	1:4:A:PHE:H	1:82:A:SER:HB2	11	0.35
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	4	0.34
(3,2799)	1:139:A:TYR:HE1	1:142:A:GLN:HE21	15	0.34
(3,2799)	1:139:A:TYR:HE2	1:142:A:GLN:HE21	15	0.34
(3,2672)	1:126:A:GLU:HB3	1:127:A:ALA:H	17	0.34
(3,2672)	1:126:A:GLU:HB2	1:127:A:ALA:H	17	0.34
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	9	0.34
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD13	17	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2510)	1:110:A:ILE:HD11	1:114:A:VAL:HG13	8	0.34
(3,2495)	1:125:A:PHE:HD1	1:126:A:GLU:HA	9	0.34
(3,2463)	1:81:A:ALA:H	1:82:A:SER:HB3	8	0.34
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB1	8	0.34
(3,2404)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	13	0.34
(3,2378)	1:15:A:TRP:HE3	1:31:A:VAL:HG23	12	0.34
(3,2378)	1:15:A:TRP:HE3	1:31:A:VAL:HG23	18	0.34
(3,2352)	1:38:A:THR:HG22	1:40:A:ILE:HD11	8	0.34
(3,2343)	1:69:A:LYS:H	1:69:A:LYS:HD3	11	0.34
(3,2343)	1:69:A:LYS:H	1:69:A:LYS:HD3	20	0.34
(3,2342)	1:68:A:GLU:HB3	1:98:A:PHE:HD1	3	0.34
(3,2321)	1:40:A:ILE:HD11	1:131:A:MET:HG3	18	0.34
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD21	4	0.34
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD21	9	0.34
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD23	7	0.34
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	9	0.34
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	20	0.34
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD13	16	0.34
(3,2193)	1:3:A:LEU:HD11	1:85:A:ASP:H	14	0.34
(3,2187)	1:26:A:ASP:HB3	1:29:A:LYS:HB3	5	0.34
(3,2160)	1:124:A:ILE:HG21	1:128:A:ASN:H	6	0.34
(3,2160)	1:124:A:ILE:HG21	1:128:A:ASN:H	11	0.34
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD21	3	0.34
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	18	0.34
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG21	14	0.34
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG21	18	0.34
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG13	7	0.34
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	8	0.34
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	14	0.34
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	10	0.34
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	14	0.34
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG22	7	0.34
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB3	6	0.34
(3,2004)	1:17:A:ALA:HA	1:17:A:ALA:HB3	20	0.34
(3,1866)	1:5:A:ASN:HA	1:82:A:SER:HB3	20	0.34
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	18	0.34
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	1	0.34
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	6	0.34
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	9	0.34
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	11	0.34
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	16	0.34
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	20	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1790)	1:80:A:ILE:HG23	1:82:A:SER:HA	11	0.34
(3,1789)	1:3:A:LEU:HD13	1:82:A:SER:HA	15	0.34
(3,1771)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	1	0.34
(3,1766)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	2	0.34
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	14	0.34
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	14	0.34
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	14	0.34
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD11	17	0.34
(3,1738)	1:12:A:GLU:H	1:14:A:LEU:HD21	9	0.34
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG23	15	0.34
(3,1707)	1:53:A:GLY:HA3	1:80:A:ILE:HA	8	0.34
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD13	3	0.34
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG22	2	0.34
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG13	1	0.34
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	10	0.34
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	1	0.34
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	1	0.34
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	1	0.34
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	14	0.34
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	14	0.34
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	14	0.34
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	20	0.34
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	20	0.34
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	20	0.34
(3,1539)	1:40:A:ILE:HD13	1:73:A:ALA:HB1	18	0.34
(3,1509)	1:40:A:ILE:HG23	1:70:A:ILE:HA	20	0.34
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	11	0.34
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG21	5	0.34
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG22	5	0.34
(3,1446)	1:98:A:PHE:HB3	1:143:A:VAL:HG23	5	0.34
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	4	0.34
(3,1397)	1:29:A:LYS:HG2	1:33:A:GLU:HG3	9	0.34
(3,1393)	1:96:A:SER:HA	1:148:A:GLU:HB2	5	0.34
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	14	0.34
(3,1374)	1:32:A:GLN:HG2	1:48:A:ILE:H	3	0.34
(3,1374)	1:32:A:GLN:HG2	1:48:A:ILE:H	19	0.34
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	14	0.34
(3,1359)	1:49:A:GLN:HB3	1:49:A:GLN:HG2	17	0.34
(3,1336)	1:72:A:VAL:HG11	1:73:A:ALA:H	3	0.34
(3,1336)	1:72:A:VAL:HG12	1:73:A:ALA:H	3	0.34
(3,1336)	1:72:A:VAL:HG13	1:73:A:ALA:H	3	0.34
(3,1308)	1:31:A:VAL:HG11	1:77:A:ILE:HG12	15	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG23	4	0.34
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG13	10	0.34
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG12	19	0.34
(3,1292)	1:120:A:LEU:HD13	1:123:A:LYS:HD3	5	0.34
(3,1268)	1:31:A:VAL:HG13	1:31:A:VAL:HG22	6	0.34
(3,1268)	1:31:A:VAL:HG11	1:31:A:VAL:HG23	16	0.34
(3,1268)	1:31:A:VAL:HG12	1:31:A:VAL:HG21	18	0.34
(3,1232)	1:28:A:ALA:HB3	1:29:A:LYS:HB2	13	0.34
(3,1229)	1:28:A:ALA:HB2	1:48:A:ILE:HG21	20	0.34
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB2	2	0.34
(3,1219)	1:28:A:ALA:HB3	1:50:A:ILE:HA	9	0.34
(3,1185)	1:27:A:GLN:H	1:27:A:GLN:HB3	11	0.34
(3,1155)	1:24:A:LYS:HA	1:27:A:GLN:H	1	0.34
(3,1139)	1:123:A:LYS:HA	1:123:A:LYS:HG3	14	0.34
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	3	0.34
(3,1068)	1:108:A:SER:HB2	1:121:A:TYR:HB3	16	0.34
(3,1043)	1:113:A:GLN:HE21	1:114:A:VAL:HG11	8	0.34
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG13	11	0.34
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	13	0.34
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	13	0.34
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	13	0.34
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	17	0.34
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	17	0.34
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	17	0.34
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG12	6	0.34
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB3	15	0.34
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	5	0.34
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	11	0.34
(3,948)	1:107:A:LEU:HD11	1:125:A:PHE:HB3	19	0.34
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD13	7	0.34
(3,926)	1:35:A:LEU:HD21	1:43:A:ALA:HA	20	0.34
(3,906)	1:117:A:ASN:HB2	1:120:A:LEU:HD21	11	0.34
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	1	0.34
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	4	0.34
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	6	0.34
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	7	0.34
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	9	0.34
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	20	0.34
(3,887)	1:13:A:LYS:HA	1:14:A:LEU:HD21	9	0.34
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	17	0.34
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	17	0.34
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	17	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB1	20	0.34
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB2	20	0.34
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB3	20	0.34
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB2	16	0.34
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	20	0.34
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	20	0.34
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	20	0.34
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	20	0.34
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	20	0.34
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	20	0.34
(3,791)	1:88:A:LYS:HD2	1:88:A:LYS:HE3	2	0.34
(3,791)	1:8:A:LYS:HD3	1:8:A:LYS:HE3	4	0.34
(3,791)	1:29:A:LYS:HD3	1:29:A:LYS:HE2	6	0.34
(3,791)	1:37:A:LYS:HD2	1:37:A:LYS:HE3	18	0.34
(3,740)	1:14:A:LEU:HD21	1:34:A:HIS:HB3	5	0.34
(3,740)	1:14:A:LEU:HD22	1:34:A:HIS:HB3	5	0.34
(3,740)	1:14:A:LEU:HD23	1:34:A:HIS:HB3	5	0.34
(3,732)	1:19:A:THR:HA	1:19:A:THR:HG22	7	0.34
(3,732)	1:19:A:THR:HA	1:19:A:THR:HG21	15	0.34
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG21	5	0.34
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG23	14	0.34
(3,718)	1:14:A:LEU:HD21	1:34:A:HIS:HA	10	0.34
(3,718)	1:14:A:LEU:HD22	1:34:A:HIS:HA	10	0.34
(3,718)	1:14:A:LEU:HD23	1:34:A:HIS:HA	10	0.34
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	4	0.34
(3,637)	1:6:A:PHE:HE2	1:72:A:VAL:HG11	11	0.34
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	7	0.34
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	7	0.34
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	7	0.34
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	7	0.34
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	7	0.34
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	7	0.34
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	10	0.34
(3,558)	1:107:A:LEU:HA	1:107:A:LEU:HD23	16	0.34
(3,470)	1:6:A:PHE:HD2	1:143:A:VAL:HB	16	0.34
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	1	0.34
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	1	0.34
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	14	0.34
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	14	0.34
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	13	0.34
(3,316)	1:13:A:LYS:HD3	1:14:A:LEU:H	3	0.34
(3,305)	1:55:A:ALA:HB3	1:56:A:THR:H	11	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,222)	1:150:A:LEU:H	1:150:A:LEU:HG	11	0.34
(3,222)	1:150:A:LEU:H	1:150:A:LEU:HG	12	0.34
(3,163)	1:92:A:PRO:HA	1:92:A:PRO:HG3	1	0.34
(3,163)	1:92:A:PRO:HA	1:92:A:PRO:HG3	4	0.34
(3,155)	1:113:A:GLN:HG3	1:114:A:VAL:H	19	0.34
(3,135)	1:121:A:TYR:HD2	1:135:A:PRO:HG3	16	0.34
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD1	17	0.34
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD2	17	0.34
(3,113)	1:74:A:VAL:HG13	1:75:A:GLY:H	8	0.34
(3,113)	1:74:A:VAL:HG12	1:75:A:GLY:H	18	0.34
(3,107)	1:67:A:LYS:HG2	1:68:A:GLU:H	16	0.34
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	14	0.34
(3,95)	1:138:A:ILE:HD12	1:139:A:TYR:H	14	0.34
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD13	2	0.34
(3,66)	1:80:A:ILE:HD12	1:81:A:ALA:H	13	0.34
(3,66)	1:80:A:ILE:HD13	1:81:A:ALA:H	14	0.34
(3,66)	1:80:A:ILE:HD11	1:81:A:ALA:H	18	0.34
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG21	10	0.34
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG22	10	0.34
(3,22)	1:31:A:VAL:HA	1:31:A:VAL:HG23	10	0.34
(1,2573)	1:17:A:ALA:HA	1:18:A:VAL:H	12	0.34
(1,2354)	1:47:A:ASN:HD22	1:48:A:ILE:H	15	0.34
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	7	0.34
(1,1896)	1:102:A:LYS:HD3	1:113:A:GLN:HE22	17	0.34
(1,1893)	1:113:A:GLN:HE22	1:114:A:VAL:HG11	14	0.34
(1,1768)	1:99:A:TYR:H	1:144:A:LEU:HB3	11	0.34
(1,1692)	1:65:A:GLU:H	1:67:A:LYS:HG2	15	0.34
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	10	0.34
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	10	0.34
(1,1529)	1:33:A:GLU:HA	1:36:A:ASN:HD22	19	0.34
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	3	0.34
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	18	0.34
(1,1457)	1:138:A:ILE:HD12	1:141:A:GLY:H	6	0.34
(1,1415)	1:137:A:LYS:HD2	1:138:A:ILE:H	13	0.34
(1,1398)	1:136:A:ASP:H	1:137:A:LYS:HD2	15	0.34
(1,1359)	1:129:A:LYS:HD3	1:131:A:MET:H	5	0.34
(1,1348)	1:128:A:ASN:HD22	1:129:A:LYS:H	17	0.34
(1,1309)	1:127:A:ALA:H	1:128:A:ASN:HD22	17	0.34
(1,1284)	1:127:A:ALA:H	1:147:A:PRO:HG3	12	0.34
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	1	0.34
(1,1277)	1:122:A:ASN:HB3	1:126:A:GLU:H	5	0.34
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG21	20	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1217)	1:118:A:ALA:HB1	1:120:A:LEU:H	2	0.34
(1,1217)	1:118:A:ALA:HB1	1:120:A:LEU:H	4	0.34
(1,1217)	1:118:A:ALA:HB3	1:120:A:LEU:H	7	0.34
(1,1170)	1:112:A:LYS:HD2	1:116:A:GLY:H	5	0.34
(1,1166)	1:114:A:VAL:HG13	1:115:A:TYR:H	12	0.34
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	9	0.34
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	3	0.34
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	19	0.34
(1,914)	1:54:A:LYS:HG2	1:82:A:SER:H	9	0.34
(1,912)	1:54:A:LYS:HD2	1:82:A:SER:H	7	0.34
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB1	8	0.34
(1,757)	1:71:A:LEU:H	1:85:A:ASP:HB3	16	0.34
(1,723)	1:69:A:LYS:H	1:69:A:LYS:HE2	1	0.34
(1,699)	1:67:A:LYS:H	1:67:A:LYS:HG3	9	0.34
(1,693)	1:67:A:LYS:H	1:68:A:GLU:HG3	4	0.34
(1,693)	1:64:A:GLN:HG3	1:67:A:LYS:H	5	0.34
(1,676)	1:66:A:ALA:H	1:68:A:GLU:HG3	5	0.34
(1,614)	1:56:A:THR:HG21	1:59:A:GLY:H	16	0.34
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	20	0.34
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG11	13	0.34
(1,579)	1:55:A:ALA:HB1	1:57:A:VAL:H	1	0.34
(1,579)	1:57:A:VAL:H	1:58:A:THR:HG22	8	0.34
(1,550)	1:55:A:ALA:H	1:83:A:VAL:HG11	9	0.34
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB3	3	0.34
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB2	5	0.34
(1,528)	1:51:A:ALA:H	1:55:A:ALA:HB3	7	0.34
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG23	7	0.34
(1,481)	1:47:A:ASN:H	1:58:A:THR:HG21	13	0.34
(1,435)	1:44:A:ASP:H	1:45:A:LYS:HD2	7	0.34
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB3	4	0.34
(1,367)	1:32:A:GLN:HG3	1:36:A:ASN:H	5	0.34
(1,293)	1:32:A:GLN:H	1:48:A:ILE:HG13	10	0.34
(1,278)	1:14:A:LEU:HD11	1:31:A:VAL:H	11	0.34
(1,278)	1:14:A:LEU:HD12	1:31:A:VAL:H	11	0.34
(1,278)	1:14:A:LEU:HD13	1:31:A:VAL:H	11	0.34
(1,265)	1:30:A:LYS:H	1:30:A:LYS:HG2	2	0.34
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB2	1	0.34
(1,249)	1:26:A:ASP:HB2	1:29:A:LYS:H	18	0.34
(1,246)	1:29:A:LYS:H	1:30:A:LYS:HD2	1	0.34
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD12	20	0.34
(1,165)	1:14:A:LEU:H	1:14:A:LEU:HG	12	0.34
(1,161)	1:13:A:LYS:H	1:77:A:ILE:HG22	13	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,109)	1:9:A:ASP:H	1:81:A:ALA:HB3	15	0.34
(1,77)	1:6:A:PHE:H	1:143:A:VAL:HG11	16	0.34
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	5	0.33
(3,2891)	1:96:A:SER:HB3	1:97:A:GLN:H	15	0.33
(3,2810)	1:56:A:THR:HG21	1:86:A:GLN:H	14	0.33
(3,2810)	1:56:A:THR:HG22	1:86:A:GLN:H	14	0.33
(3,2810)	1:56:A:THR:HG23	1:86:A:GLN:H	14	0.33
(3,2616)	1:132:A:LEU:HD21	1:142:A:GLN:HE21	14	0.33
(3,2616)	1:132:A:LEU:HD22	1:142:A:GLN:HE21	14	0.33
(3,2616)	1:132:A:LEU:HD23	1:142:A:GLN:HE21	14	0.33
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	7	0.33
(3,2510)	1:110:A:ILE:HD12	1:114:A:VAL:HG11	1	0.33
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	20	0.33
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	20	0.33
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	20	0.33
(3,2497)	1:56:A:THR:HG22	1:58:A:THR:H	9	0.33
(3,2497)	1:56:A:THR:HG21	1:58:A:THR:H	16	0.33
(3,2464)	1:82:A:SER:HB2	1:84:A:ASP:H	3	0.33
(3,2464)	1:82:A:SER:HB2	1:84:A:ASP:H	9	0.33
(3,2464)	1:82:A:SER:HB2	1:84:A:ASP:H	15	0.33
(3,2451)	1:81:A:ALA:HB3	1:82:A:SER:HB3	9	0.33
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB2	4	0.33
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	7	0.33
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	6	0.33
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	14	0.33
(3,2396)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	6	0.33
(3,2378)	1:15:A:TRP:HE3	1:31:A:VAL:HG21	19	0.33
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD11	19	0.33
(3,2341)	1:115:A:TYR:HE1	1:149:A:GLU:HG2	5	0.33
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD23	1	0.33
(3,2295)	1:94:A:THR:HG21	1:148:A:GLU:H	7	0.33
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	10	0.33
(3,2275)	1:132:A:LEU:HD11	1:139:A:TYR:HD1	3	0.33
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD11	4	0.33
(3,2259)	1:115:A:TYR:HB3	1:117:A:ASN:HB2	11	0.33
(3,2250)	1:121:A:TYR:HD2	1:135:A:PRO:HG2	13	0.33
(3,2250)	1:121:A:TYR:HD2	1:135:A:PRO:HG2	18	0.33
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	1	0.33
(3,2193)	1:3:A:LEU:HD12	1:85:A:ASP:H	15	0.33
(3,2193)	1:3:A:LEU:HD11	1:85:A:ASP:H	18	0.33
(3,2171)	1:124:A:ILE:HB	1:125:A:PHE:HB3	3	0.33
(3,2160)	1:124:A:ILE:HG21	1:128:A:ASN:H	2	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2157)	1:72:A:VAL:HA	1:75:A:GLY:H	16	0.33
(3,2145)	1:107:A:LEU:HD21	1:125:A:PHE:HA	19	0.33
(3,2130)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	10	0.33
(3,2129)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	10	0.33
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	9	0.33
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	17	0.33
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG22	20	0.33
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD21	9	0.33
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	3	0.33
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	13	0.33
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG23	11	0.33
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG21	17	0.33
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	18	0.33
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	18	0.33
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	18	0.33
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	17	0.33
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB3	1	0.33
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB2	2	0.33
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB2	3	0.33
(3,2004)	1:17:A:ALA:HA	1:17:A:ALA:HB1	8	0.33
(3,2004)	1:17:A:ALA:HA	1:17:A:ALA:HB1	10	0.33
(3,2004)	1:17:A:ALA:HA	1:17:A:ALA:HB1	12	0.33
(3,2004)	1:17:A:ALA:HA	1:17:A:ALA:HB3	13	0.33
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB3	14	0.33
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB1	18	0.33
(3,1993)	1:107:A:LEU:HG	1:121:A:TYR:HB2	14	0.33
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	3	0.33
(3,1957)	1:128:A:ASN:HA	1:145:A:ARG:HB2	11	0.33
(3,1873)	1:72:A:VAL:HG11	1:144:A:LEU:HA	1	0.33
(3,1873)	1:72:A:VAL:HG11	1:144:A:LEU:HA	4	0.33
(3,1866)	1:5:A:ASN:HA	1:82:A:SER:HB3	13	0.33
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD12	16	0.33
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD12	20	0.33
(3,1808)	1:63:A:SER:HB3	1:65:A:GLU:H	11	0.33
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	3	0.33
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	7	0.33
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	8	0.33
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	10	0.33
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	17	0.33
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	19	0.33
(3,1766)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	13	0.33
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG13	11	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1686)	1:15:A:TRP:HZ3	1:30:A:LYS:HB3	20	0.33
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	7	0.33
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	7	0.33
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	7	0.33
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	7	0.33
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	7	0.33
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	7	0.33
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	19	0.33
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	19	0.33
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	19	0.33
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	4	0.33
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	16	0.33
(3,1468)	1:15:A:TRP:HE3	1:30:A:LYS:HD3	10	0.33
(3,1426)	1:62:A:LEU:HD13	1:66:A:ALA:HB2	2	0.33
(3,1425)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	9	0.33
(3,1374)	1:32:A:GLN:HG2	1:33:A:GLU:H	4	0.33
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	10	0.33
(3,1359)	1:49:A:GLN:HB3	1:49:A:GLN:HG2	7	0.33
(3,1341)	1:60:A:ASP:H	1:87:A:VAL:HG23	11	0.33
(3,1334)	1:83:A:VAL:HA	1:83:A:VAL:HG11	12	0.33
(3,1334)	1:83:A:VAL:HA	1:83:A:VAL:HG12	12	0.33
(3,1334)	1:83:A:VAL:HA	1:83:A:VAL:HG13	12	0.33
(3,1297)	1:101:A:VAL:HG22	1:138:A:ILE:HB	17	0.33
(3,1268)	1:31:A:VAL:HG12	1:31:A:VAL:HG22	2	0.33
(3,1229)	1:28:A:ALA:HB3	1:48:A:ILE:HG21	15	0.33
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	13	0.33
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	13	0.33
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	13	0.33
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB2	5	0.33
(3,1219)	1:28:A:ALA:HB1	1:48:A:ILE:HA	19	0.33
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	20	0.33
(3,1185)	1:27:A:GLN:H	1:27:A:GLN:HB3	2	0.33
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	14	0.33
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG11	17	0.33
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	4	0.33
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	4	0.33
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	4	0.33
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	6	0.33
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	6	0.33
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	6	0.33
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG12	2	0.33
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG13	11	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG11	2	0.33
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG11	4	0.33
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG12	4	0.33
(3,1026)	1:16:A:ASP:HB3	1:18:A:VAL:HG13	4	0.33
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG22	15	0.33
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	9	0.33
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	16	0.33
(3,969)	1:54:A:LYS:HA	1:54:A:LYS:HG2	15	0.33
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	15	0.33
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD23	17	0.33
(3,906)	1:120:A:LEU:HD21	1:123:A:LYS:HE2	13	0.33
(3,900)	1:149:A:GLU:HA	1:149:A:GLU:HG2	2	0.33
(3,900)	1:149:A:GLU:HA	1:149:A:GLU:HG2	13	0.33
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	2	0.33
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	3	0.33
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	5	0.33
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	10	0.33
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	11	0.33
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	12	0.33
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	13	0.33
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	14	0.33
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	15	0.33
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	16	0.33
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	17	0.33
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	19	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	2	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	2	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	2	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	11	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	11	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	11	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	14	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	14	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	14	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	16	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	16	0.33
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	16	0.33
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	13	0.33
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	9	0.33
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	9	0.33
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	9	0.33
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	13	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	13	0.33
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	13	0.33
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	19	0.33
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	4	0.33
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	4	0.33
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	4	0.33
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	4	0.33
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	4	0.33
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	4	0.33
(3,791)	1:8:A:LYS:HD3	1:8:A:LYS:HE3	10	0.33
(3,733)	1:94:A:THR:HB	1:94:A:THR:HG22	6	0.33
(3,731)	1:38:A:THR:HG23	1:131:A:MET:HA	6	0.33
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG21	11	0.33
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG23	18	0.33
(3,695)	1:101:A:VAL:HB	1:140:A:PRO:HA	3	0.33
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG21	13	0.33
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	12	0.33
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	14	0.33
(3,657)	1:125:A:PHE:HE1	1:129:A:LYS:HE2	9	0.33
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	14	0.33
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	2	0.33
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	2	0.33
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	2	0.33
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	2	0.33
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	2	0.33
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	2	0.33
(3,632)	1:25:A:ASP:HB3	1:28:A:ALA:HB2	14	0.33
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	3	0.33
(3,553)	1:29:A:LYS:HA	1:29:A:LYS:HG2	8	0.33
(3,533)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	14	0.33
(3,520)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	15	0.33
(3,481)	1:115:A:TYR:HA	1:120:A:LEU:HD22	14	0.33
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	8	0.33
(3,306)	1:106:A:THR:H	1:106:A:THR:HG22	15	0.33
(3,305)	1:55:A:ALA:HB2	1:56:A:THR:H	9	0.33
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG11	6	0.33
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG12	6	0.33
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG13	6	0.33
(3,235)	1:59:A:GLY:H	1:88:A:LYS:HD3	4	0.33
(3,221)	1:150:A:LEU:H	1:150:A:LEU:HD11	3	0.33
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	3	0.33
(3,163)	1:92:A:PRO:HA	1:92:A:PRO:HG3	10	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD1	6	0.33
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD2	6	0.33
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	1	0.33
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD23	2	0.33
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD21	12	0.33
(3,95)	1:138:A:ILE:HD12	1:139:A:TYR:H	16	0.33
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD13	1	0.33
(3,63)	1:48:A:ILE:HG13	1:49:A:GLN:H	1	0.33
(3,47)	1:88:A:LYS:HG2	1:89:A:THR:H	20	0.33
(3,45)	1:88:A:LYS:H	1:88:A:LYS:HG2	3	0.33
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	8	0.33
(1,1940)	1:53:A:GLY:H	1:80:A:ILE:HD13	8	0.33
(1,1815)	1:18:A:VAL:HG11	1:21:A:GLN:HE22	10	0.33
(1,1815)	1:18:A:VAL:HG12	1:21:A:GLN:HE22	10	0.33
(1,1815)	1:18:A:VAL:HG13	1:21:A:GLN:HE22	10	0.33
(1,1815)	1:18:A:VAL:HG21	1:21:A:GLN:HE22	10	0.33
(1,1815)	1:18:A:VAL:HG22	1:21:A:GLN:HE22	10	0.33
(1,1815)	1:18:A:VAL:HG23	1:21:A:GLN:HE22	10	0.33
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG21	3	0.33
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	7	0.33
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	7	0.33
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	12	0.33
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HG	10	0.33
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	3	0.33
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	6	0.33
(1,1448)	1:101:A:VAL:HB	1:141:A:GLY:H	15	0.33
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD13	14	0.33
(1,1309)	1:127:A:ALA:H	1:128:A:ASN:HD22	7	0.33
(1,1290)	1:124:A:ILE:HD13	1:127:A:ALA:H	13	0.33
(1,1290)	1:124:A:ILE:HD13	1:127:A:ALA:H	17	0.33
(1,1282)	1:107:A:LEU:HD12	1:126:A:GLU:H	2	0.33
(1,1277)	1:126:A:GLU:H	1:129:A:LYS:HE3	4	0.33
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD11	7	0.33
(1,1166)	1:114:A:VAL:HG11	1:115:A:TYR:H	2	0.33
(1,1166)	1:114:A:VAL:HG12	1:115:A:TYR:H	6	0.33
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	1	0.33
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	4	0.33
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	18	0.33
(1,1003)	1:98:A:PHE:H	1:98:A:PHE:HB3	15	0.33
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	12	0.33
(1,961)	1:87:A:VAL:H	1:88:A:LYS:HG3	13	0.33
(1,885)	1:8:A:LYS:HG3	1:80:A:ILE:H	12	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE1	13	0.33
(1,712)	1:68:A:GLU:H	1:145:A:ARG:HD3	6	0.33
(1,712)	1:68:A:GLU:H	1:145:A:ARG:HD3	10	0.33
(1,712)	1:68:A:GLU:H	1:145:A:ARG:HD3	17	0.33
(1,614)	1:56:A:THR:HG23	1:59:A:GLY:H	8	0.33
(1,609)	1:59:A:GLY:H	1:88:A:LYS:HB2	17	0.33
(1,586)	1:58:A:THR:H	1:74:A:VAL:HG22	12	0.33
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG13	10	0.33
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG11	14	0.33
(1,536)	1:52:A:ASP:HB2	1:54:A:LYS:H	13	0.33
(1,305)	1:33:A:GLU:H	1:35:A:LEU:HD12	2	0.33
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	6	0.33
(1,273)	1:28:A:ALA:HB3	1:31:A:VAL:H	11	0.33
(1,273)	1:29:A:LYS:HG3	1:31:A:VAL:H	18	0.33
(1,265)	1:30:A:LYS:H	1:30:A:LYS:HG2	13	0.33
(1,246)	1:29:A:LYS:H	1:29:A:LYS:HD2	4	0.33
(1,165)	1:14:A:LEU:H	1:14:A:LEU:HG	19	0.33
(1,142)	1:12:A:GLU:H	1:77:A:ILE:HB	19	0.33
(1,141)	1:12:A:GLU:H	1:142:A:GLN:HG2	3	0.33
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB3	10	0.33
(1,49)	1:82:A:SER:HB2	1:83:A:VAL:H	13	0.33
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	16	0.32
(3,2938)	1:96:A:SER:HB3	1:146:A:ILE:H	14	0.32
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	11	0.32
(3,2881)	1:139:A:TYR:HB3	1:140:A:PRO:HD3	13	0.32
(3,2818)	1:137:A:LYS:HA	1:137:A:LYS:HG3	13	0.32
(3,2799)	1:139:A:TYR:HE1	1:142:A:GLN:HE21	8	0.32
(3,2799)	1:139:A:TYR:HE2	1:142:A:GLN:HE21	8	0.32
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	6	0.32
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	6	0.32
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	6	0.32
(3,2510)	1:110:A:ILE:HD12	1:114:A:VAL:HG11	15	0.32
(3,2497)	1:56:A:THR:HG21	1:58:A:THR:H	15	0.32
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	12	0.32
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	20	0.32
(3,2417)	1:6:A:PHE:HB2	1:143:A:VAL:HG13	17	0.32
(3,2352)	1:38:A:THR:HG21	1:40:A:ILE:HD11	14	0.32
(3,2344)	1:98:A:PHE:HE2	1:143:A:VAL:HG12	3	0.32
(3,2306)	1:132:A:LEU:HD13	1:144:A:LEU:HD22	14	0.32
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD21	10	0.32
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD23	18	0.32
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	9	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2248)	1:125:A:PHE:HA	1:135:A:PRO:HA	10	0.32
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	13	0.32
(3,2210)	1:76:A:ASN:HB2	1:131:A:MET:HE1	7	0.32
(3,2168)	1:124:A:ILE:HG21	1:128:A:ASN:HB2	1	0.32
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD11	16	0.32
(3,2145)	1:107:A:LEU:HD23	1:125:A:PHE:HA	6	0.32
(3,2130)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	4	0.32
(3,2130)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	17	0.32
(3,2129)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	17	0.32
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	6	0.32
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	10	0.32
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	6	0.32
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	2	0.32
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	2	0.32
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	2	0.32
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	3	0.32
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	3	0.32
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	3	0.32
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	4	0.32
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	4	0.32
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	4	0.32
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	9	0.32
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	9	0.32
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	9	0.32
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	10	0.32
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	10	0.32
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	10	0.32
(3,2004)	1:17:A:ALA:HA	1:17:A:ALA:HB2	4	0.32
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB1	19	0.32
(3,1960)	1:126:A:GLU:HB2	1:127:A:ALA:HA	7	0.32
(3,1942)	1:6:A:PHE:H	1:82:A:SER:HB3	13	0.32
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	14	0.32
(3,1920)	1:77:A:ILE:HG21	1:80:A:ILE:HG13	8	0.32
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	1	0.32
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	1	0.32
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	1	0.32
(3,1848)	1:54:A:LYS:HD3	1:82:A:SER:HB2	16	0.32
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD11	14	0.32
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD13	17	0.32
(3,1807)	1:99:A:TYR:HE1	1:110:A:ILE:HA	4	0.32
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	2	0.32
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	5	0.32
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	12	0.32
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	14	0.32
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	18	0.32
(3,1789)	1:3:A:LEU:HD12	1:82:A:SER:HA	14	0.32
(3,1786)	1:128:A:ASN:H	1:132:A:LEU:HD11	11	0.32
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD21	10	0.32
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD22	10	0.32
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD23	10	0.32
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	4	0.32
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	4	0.32
(3,1766)	1:47:A:ASN:HB2	1:59:A:GLY:HA2	10	0.32
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	6	0.32
(3,1752)	1:14:A:LEU:HD23	1:30:A:LYS:HB2	14	0.32
(3,1748)	1:64:A:GLN:H	1:89:A:THR:HG23	16	0.32
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	7	0.32
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	7	0.32
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD13	5	0.32
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD12	15	0.32
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD12	16	0.32
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG12	20	0.32
(3,1691)	1:50:A:ILE:HD13	1:56:A:THR:H	20	0.32
(3,1676)	1:50:A:ILE:HG22	1:51:A:ALA:HA	15	0.32
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	4	0.32
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	4	0.32
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	4	0.32
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	4	0.32
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	4	0.32
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	4	0.32
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	13	0.32
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	13	0.32
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	13	0.32
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	13	0.32
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	13	0.32
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	13	0.32
(3,1622)	1:150:A:LEU:HA	1:150:A:LEU:HB2	15	0.32
(3,1622)	1:150:A:LEU:HA	1:150:A:LEU:HB2	18	0.32
(3,1617)	1:66:A:ALA:HA	1:69:A:LYS:HB2	3	0.32
(3,1607)	1:70:A:ILE:HA	1:73:A:ALA:HB1	16	0.32
(3,1598)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	6	0.32
(3,1598)	1:42:A:ASP:HB3	1:62:A:LEU:HB3	15	0.32
(3,1577)	1:40:A:ILE:HD13	1:41:A:PRO:HD3	15	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	18	0.32
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	18	0.32
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	18	0.32
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	19	0.32
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	19	0.32
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	19	0.32
(3,1555)	1:48:A:ILE:HG13	1:48:A:ILE:HG22	10	0.32
(3,1539)	1:40:A:ILE:HD13	1:73:A:ALA:HB3	5	0.32
(3,1492)	1:115:A:TYR:HE2	1:146:A:ILE:HD12	4	0.32
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	11	0.32
(3,1384)	1:68:A:GLU:HG3	1:69:A:LYS:H	13	0.32
(3,1374)	1:32:A:GLN:HG2	1:48:A:ILE:H	12	0.32
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	2	0.32
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	2	0.32
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	5	0.32
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	5	0.32
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	15	0.32
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	15	0.32
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	19	0.32
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	19	0.32
(3,1359)	1:49:A:GLN:HB3	1:49:A:GLN:HG2	12	0.32
(3,1336)	1:72:A:VAL:HG11	1:73:A:ALA:H	16	0.32
(3,1336)	1:72:A:VAL:HG12	1:73:A:ALA:H	16	0.32
(3,1336)	1:72:A:VAL:HG13	1:73:A:ALA:H	16	0.32
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG12	17	0.32
(3,1314)	1:74:A:VAL:HA	1:74:A:VAL:HG21	13	0.32
(3,1314)	1:74:A:VAL:HA	1:74:A:VAL:HG22	13	0.32
(3,1314)	1:74:A:VAL:HA	1:74:A:VAL:HG23	13	0.32
(3,1313)	1:72:A:VAL:HG13	1:131:A:MET:HG2	3	0.32
(3,1300)	1:101:A:VAL:HG11	1:142:A:GLN:HB3	7	0.32
(3,1300)	1:101:A:VAL:HG12	1:142:A:GLN:HB3	7	0.32
(3,1300)	1:101:A:VAL:HG13	1:142:A:GLN:HB3	7	0.32
(3,1229)	1:28:A:ALA:HB3	1:48:A:ILE:HG22	6	0.32
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB1	8	0.32
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB3	14	0.32
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB1	20	0.32
(3,1219)	1:28:A:ALA:HB3	1:48:A:ILE:HA	12	0.32
(3,1185)	1:27:A:GLN:H	1:27:A:GLN:HB3	5	0.32
(3,1185)	1:27:A:GLN:H	1:27:A:GLN:HB3	10	0.32
(3,1185)	1:27:A:GLN:H	1:27:A:GLN:HB3	15	0.32
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	20	0.32
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	20	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1157)	1:112:A:LYS:HG3	1:117:A:ASN:H	11	0.32
(3,1155)	1:24:A:LYS:HA	1:27:A:GLN:H	5	0.32
(3,1133)	1:107:A:LEU:HA	1:107:A:LEU:HD23	20	0.32
(3,1064)	1:13:A:LYS:HG3	1:78:A:SER:HB2	13	0.32
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG12	6	0.32
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG13	9	0.32
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG11	8	0.32
(3,1010)	1:127:A:ALA:HB2	1:128:A:ASN:HA	18	0.32
(3,997)	1:124:A:ILE:HA	1:127:A:ALA:HB3	12	0.32
(3,994)	1:35:A:LEU:HD23	1:73:A:ALA:HB2	1	0.32
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG21	7	0.32
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	17	0.32
(3,949)	1:125:A:PHE:HB2	1:132:A:LEU:HD11	16	0.32
(3,948)	1:107:A:LEU:HD11	1:125:A:PHE:HB3	14	0.32
(3,926)	1:35:A:LEU:HD23	1:43:A:ALA:HA	14	0.32
(3,912)	1:88:A:LYS:HE2	1:88:A:LYS:HG2	9	0.32
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	18	0.32
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	10	0.32
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	10	0.32
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	10	0.32
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	3	0.32
(3,774)	1:49:A:GLN:HB3	1:50:A:ILE:H	2	0.32
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	13	0.32
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG23	11	0.32
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	1	0.32
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	1	0.32
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	1	0.32
(3,733)	1:94:A:THR:HA	1:94:A:THR:HG21	4	0.32
(3,733)	1:58:A:THR:HB	1:58:A:THR:HG21	9	0.32
(3,733)	1:94:A:THR:HA	1:94:A:THR:HG22	16	0.32
(3,733)	1:58:A:THR:HB	1:58:A:THR:HG23	17	0.32
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG21	1	0.32
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG23	13	0.32
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG21	16	0.32
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG22	19	0.32
(3,708)	1:99:A:TYR:H	1:143:A:VAL:HG23	16	0.32
(3,708)	1:99:A:TYR:H	1:143:A:VAL:HG21	17	0.32
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	1	0.32
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	1	0.32
(3,674)	1:105:A:ASP:HB2	1:138:A:ILE:HD12	5	0.32
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG22	14	0.32
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	3	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	6	0.32
(3,630)	1:135:A:PRO:HB2	1:136:A:ASP:HB2	4	0.32
(3,587)	1:42:A:ASP:HA	1:45:A:LYS:HE2	12	0.32
(3,583)	1:4:A:PHE:HB2	1:6:A:PHE:HZ	8	0.32
(3,562)	1:107:A:LEU:HD22	1:125:A:PHE:HD2	7	0.32
(3,561)	1:3:A:LEU:HD23	1:5:A:ASN:HD22	2	0.32
(3,540)	1:150:A:LEU:HD23	1:150:A:LEU:HG	8	0.32
(3,540)	1:150:A:LEU:HD22	1:150:A:LEU:HG	10	0.32
(3,535)	1:62:A:LEU:HB3	1:66:A:ALA:HB3	4	0.32
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	16	0.32
(3,502)	1:6:A:PHE:HE1	1:71:A:LEU:HB3	16	0.32
(3,431)	1:99:A:TYR:HD1	1:144:A:LEU:HD22	7	0.32
(3,419)	1:131:A:MET:HE2	1:144:A:LEU:HA	1	0.32
(3,405)	1:4:A:PHE:HD1	1:85:A:ASP:HB3	4	0.32
(3,405)	1:4:A:PHE:HD2	1:85:A:ASP:HB3	4	0.32
(3,305)	1:55:A:ALA:HB2	1:56:A:THR:H	15	0.32
(3,278)	1:27:A:GLN:H	1:27:A:GLN:HG2	7	0.32
(3,267)	1:58:A:THR:H	1:58:A:THR:HB	9	0.32
(3,264)	1:47:A:ASN:HB3	1:48:A:ILE:H	19	0.32
(3,264)	1:47:A:ASN:HB2	1:48:A:ILE:H	19	0.32
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG11	5	0.32
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG12	5	0.32
(3,247)	1:72:A:VAL:H	1:72:A:VAL:HG13	5	0.32
(3,243)	1:29:A:LYS:HG2	1:30:A:LYS:H	12	0.32
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	15	0.32
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	17	0.32
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	13	0.32
(3,163)	1:92:A:PRO:HA	1:92:A:PRO:HG3	9	0.32
(3,113)	1:74:A:VAL:HG11	1:75:A:GLY:H	16	0.32
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	2	0.32
(3,95)	1:138:A:ILE:HD11	1:139:A:TYR:H	12	0.32
(3,86)	1:65:A:GLU:H	1:65:A:GLU:HG2	7	0.32
(3,77)	1:57:A:VAL:HG11	1:87:A:VAL:H	2	0.32
(3,66)	1:80:A:ILE:HD12	1:81:A:ALA:H	4	0.32
(3,66)	1:80:A:ILE:HD11	1:81:A:ALA:H	11	0.32
(3,62)	1:48:A:ILE:H	1:48:A:ILE:HG13	16	0.32
(3,43)	1:37:A:LYS:H	1:37:A:LYS:HG2	13	0.32
(3,43)	1:37:A:LYS:H	1:37:A:LYS:HG2	17	0.32
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	16	0.32
(1,1697)	1:107:A:LEU:HD13	1:128:A:ASN:HD21	6	0.32
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	19	0.32
(1,1662)	1:42:A:ASP:H	1:45:A:LYS:HG3	5	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG22	18	0.32
(1,1611)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	1	0.32
(1,1611)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	1	0.32
(1,1611)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	1	0.32
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	9	0.32
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	9	0.32
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	11	0.32
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	17	0.32
(1,1571)	1:148:A:GLU:HG3	1:151:A:GLU:H	6	0.32
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	10	0.32
(1,1457)	1:138:A:ILE:HD13	1:141:A:GLY:H	10	0.32
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	1	0.32
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	12	0.32
(1,1283)	1:124:A:ILE:HG21	1:126:A:GLU:H	14	0.32
(1,1282)	1:107:A:LEU:HD12	1:126:A:GLU:H	4	0.32
(1,1246)	1:107:A:LEU:HD23	1:123:A:LYS:H	3	0.32
(1,1217)	1:118:A:ALA:HB1	1:120:A:LEU:H	3	0.32
(1,1217)	1:118:A:ALA:HB1	1:120:A:LEU:H	18	0.32
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD23	16	0.32
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	11	0.32
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	15	0.32
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	17	0.32
(1,1093)	1:105:A:ASP:HB2	1:110:A:ILE:H	17	0.32
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	5	0.32
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	7	0.32
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	1	0.32
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	8	0.32
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	14	0.32
(1,961)	1:87:A:VAL:H	1:88:A:LYS:HG3	15	0.32
(1,920)	1:83:A:VAL:HG22	1:84:A:ASP:H	19	0.32
(1,918)	1:3:A:LEU:HD11	1:82:A:SER:H	4	0.32
(1,912)	1:54:A:LYS:HD2	1:82:A:SER:H	11	0.32
(1,842)	1:77:A:ILE:H	1:143:A:VAL:HB	5	0.32
(1,800)	1:72:A:VAL:HG22	1:73:A:ALA:H	17	0.32
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HB2	10	0.32
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE1	2	0.32
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB2	6	0.32
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB1	11	0.32
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG12	1	0.32
(1,742)	1:41:A:PRO:HB2	1:70:A:ILE:H	10	0.32
(1,678)	1:66:A:ALA:H	1:69:A:LYS:HB2	6	0.32
(1,637)	1:62:A:LEU:H	1:87:A:VAL:HG13	8	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,536)	1:52:A:ASP:HB2	1:54:A:LYS:H	16	0.32
(1,487)	1:31:A:VAL:HG13	1:48:A:ILE:H	12	0.32
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG22	13	0.32
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG21	15	0.32
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG21	17	0.32
(1,430)	1:44:A:ASP:H	1:70:A:ILE:HD11	8	0.32
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB2	13	0.32
(1,346)	1:124:A:ILE:HD12	1:125:A:PHE:H	4	0.32
(1,346)	1:124:A:ILE:HD12	1:125:A:PHE:H	11	0.32
(1,288)	1:32:A:GLN:H	1:32:A:GLN:HG2	12	0.32
(1,265)	1:30:A:LYS:H	1:30:A:LYS:HG2	14	0.32
(1,249)	1:25:A:ASP:HB3	1:29:A:LYS:H	12	0.32
(1,249)	1:25:A:ASP:HB3	1:29:A:LYS:H	14	0.32
(1,199)	1:18:A:VAL:H	1:19:A:THR:HA	16	0.32
(1,188)	1:15:A:TRP:H	1:30:A:LYS:HG2	7	0.32
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG22	8	0.32
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG23	10	0.32
(1,31)	1:5:A:ASN:H	1:83:A:VAL:HG22	16	0.32
(3,2932)	1:133:A:LYS:HA	1:133:A:LYS:HG2	3	0.31
(3,2847)	1:63:A:SER:HB3	1:64:A:GLN:H	8	0.31
(3,2616)	1:132:A:LEU:HD21	1:142:A:GLN:HE21	7	0.31
(3,2616)	1:132:A:LEU:HD22	1:142:A:GLN:HE21	7	0.31
(3,2616)	1:132:A:LEU:HD23	1:142:A:GLN:HE21	7	0.31
(3,2616)	1:132:A:LEU:HD21	1:142:A:GLN:HE21	9	0.31
(3,2616)	1:132:A:LEU:HD22	1:142:A:GLN:HE21	9	0.31
(3,2616)	1:132:A:LEU:HD23	1:142:A:GLN:HE21	9	0.31
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	4	0.31
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	14	0.31
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	9	0.31
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	11	0.31
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	15	0.31
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	18	0.31
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	10	0.31
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	12	0.31
(3,2512)	1:97:A:GLN:HE21	1:114:A:VAL:HA	7	0.31
(3,2487)	1:35:A:LEU:HD23	1:43:A:ALA:HA	9	0.31
(3,2465)	1:110:A:ILE:HD11	1:144:A:LEU:H	1	0.31
(3,2465)	1:110:A:ILE:HD11	1:144:A:LEU:H	4	0.31
(3,2464)	1:82:A:SER:HB2	1:84:A:ASP:H	4	0.31
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG11	12	0.31
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG12	12	0.31
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG13	12	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG21	12	0.31
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG22	12	0.31
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG23	12	0.31
(3,2352)	1:38:A:THR:HG23	1:40:A:ILE:HD11	17	0.31
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD22	16	0.31
(3,2287)	1:139:A:TYR:HD2	1:142:A:GLN:HA	6	0.31
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	1	0.31
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	19	0.31
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	4	0.31
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD13	14	0.31
(3,2129)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	4	0.31
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG23	3	0.31
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG22	9	0.31
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG12	13	0.31
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG12	15	0.31
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB1	17	0.31
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	5	0.31
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	10	0.31
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	15	0.31
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	1	0.31
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	5	0.31
(3,2051)	1:102:A:LYS:HB2	1:103:A:SER:HB3	11	0.31
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG22	1	0.31
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG23	12	0.31
(3,2031)	1:76:A:ASN:HD22	1:143:A:VAL:HG13	8	0.31
(3,2006)	1:118:A:ALA:HB1	1:121:A:TYR:HB3	12	0.31
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB3	9	0.31
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG11	1	0.31
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	9	0.31
(3,1932)	1:30:A:LYS:HE3	1:30:A:LYS:HG3	19	0.31
(3,1872)	1:137:A:LYS:H	1:138:A:ILE:HG22	2	0.31
(3,1860)	1:66:A:ALA:HB3	1:70:A:ILE:HD13	18	0.31
(3,1850)	1:54:A:LYS:HD3	1:82:A:SER:HB3	10	0.31
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD13	4	0.31
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	13	0.31
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	6	0.31
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	6	0.31
(3,1766)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	8	0.31
(3,1752)	1:14:A:LEU:HD23	1:30:A:LYS:HB2	11	0.31
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD11	16	0.31
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD12	19	0.31
(3,1738)	1:12:A:GLU:H	1:14:A:LEU:HD21	14	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG22	10	0.31
(3,1691)	1:50:A:ILE:HD11	1:56:A:THR:H	17	0.31
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	1	0.31
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	1	0.31
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	1	0.31
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	1	0.31
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	1	0.31
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	1	0.31
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	15	0.31
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	7	0.31
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	7	0.31
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	7	0.31
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	15	0.31
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	15	0.31
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	15	0.31
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	2	0.31
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	2	0.31
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	2	0.31
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD11	15	0.31
(3,1481)	1:35:A:LEU:HA	1:38:A:THR:HB	1	0.31
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	9	0.31
(3,1437)	1:62:A:LEU:HD13	1:89:A:THR:HA	19	0.31
(3,1426)	1:62:A:LEU:HD23	1:66:A:ALA:HB1	1	0.31
(3,1425)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	17	0.31
(3,1405)	1:126:A:GLU:HB3	1:126:A:GLU:HG2	17	0.31
(3,1397)	1:29:A:LYS:HG2	1:33:A:GLU:HG3	2	0.31
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	4	0.31
(3,1384)	1:68:A:GLU:HG3	1:69:A:LYS:H	15	0.31
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	6	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	1	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	1	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	7	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	7	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	10	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	10	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	13	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	13	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	17	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	17	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	18	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	18	0.31
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	20	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	20	0.31
(3,1359)	1:49:A:GLN:HB3	1:49:A:GLN:HG2	1	0.31
(3,1317)	1:72:A:VAL:HG11	1:144:A:LEU:HA	3	0.31
(3,1308)	1:31:A:VAL:HG13	1:77:A:ILE:HG12	2	0.31
(3,1302)	1:83:A:VAL:HG11	1:85:A:ASP:HB3	14	0.31
(3,1297)	1:101:A:VAL:HG21	1:138:A:ILE:HB	8	0.31
(3,1274)	1:100:A:THR:HA	1:101:A:VAL:HG13	15	0.31
(3,1274)	1:100:A:THR:HA	1:101:A:VAL:HG11	17	0.31
(3,1269)	1:31:A:VAL:HG21	1:50:A:ILE:HD11	7	0.31
(3,1230)	1:28:A:ALA:HB3	1:50:A:ILE:HG13	8	0.31
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB2	10	0.31
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB2	19	0.31
(3,1185)	1:27:A:GLN:H	1:27:A:GLN:HB3	8	0.31
(3,1185)	1:27:A:GLN:HB3	1:28:A:ALA:H	12	0.31
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	17	0.31
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	17	0.31
(3,1177)	1:38:A:THR:HB	1:130:A:PRO:HB2	14	0.31
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	7	0.31
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	7	0.31
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	8	0.31
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	8	0.31
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	10	0.31
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	10	0.31
(3,1132)	1:23:A:ASP:HA	1:24:A:LYS:HA	8	0.31
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	7	0.31
(3,1059)	1:103:A:SER:HB2	1:140:A:PRO:HG3	7	0.31
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	5	0.31
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG11	14	0.31
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	1	0.31
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	1	0.31
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	1	0.31
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG12	6	0.31
(3,1029)	1:56:A:THR:HG21	1:86:A:GLN:HB2	10	0.31
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG12	3	0.31
(3,1010)	1:127:A:ALA:HB3	1:128:A:ASN:HA	20	0.31
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG22	10	0.31
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	4	0.31
(3,938)	1:99:A:TYR:HD1	1:144:A:LEU:HD22	8	0.31
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD13	1	0.31
(3,925)	1:13:A:LYS:HG3	1:78:A:SER:HB3	13	0.31
(3,890)	1:45:A:LYS:HA	1:45:A:LYS:HB2	8	0.31
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	5	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	5	0.31
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	5	0.31
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	6	0.31
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	6	0.31
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	6	0.31
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	8	0.31
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	8	0.31
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	8	0.31
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	9	0.31
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	9	0.31
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	9	0.31
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	7	0.31
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	7	0.31
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	7	0.31
(3,807)	1:72:A:VAL:HG22	1:73:A:ALA:HA	7	0.31
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	17	0.31
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	18	0.31
(3,753)	1:132:A:LEU:HG	1:144:A:LEU:HD12	7	0.31
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	3	0.31
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	3	0.31
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	3	0.31
(3,733)	1:58:A:THR:HB	1:58:A:THR:HG23	2	0.31
(3,733)	1:94:A:THR:HA	1:94:A:THR:HG22	5	0.31
(3,733)	1:58:A:THR:HB	1:58:A:THR:HG22	11	0.31
(3,733)	1:94:A:THR:HA	1:94:A:THR:HG21	12	0.31
(3,733)	1:94:A:THR:HA	1:94:A:THR:HG22	14	0.31
(3,733)	1:58:A:THR:HB	1:58:A:THR:HG22	15	0.31
(3,733)	1:94:A:THR:HB	1:94:A:THR:HG21	18	0.31
(3,733)	1:58:A:THR:HB	1:58:A:THR:HG21	20	0.31
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	19	0.31
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	14	0.31
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	20	0.31
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	5	0.31
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	7	0.31
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	19	0.31
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	10	0.31
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	10	0.31
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	10	0.31
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	10	0.31
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	10	0.31
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	10	0.31
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	8	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,540)	1:150:A:LEU:HD23	1:150:A:LEU:HG	3	0.31
(3,540)	1:3:A:LEU:HB3	1:3:A:LEU:HD22	7	0.31
(3,540)	1:150:A:LEU:HD22	1:150:A:LEU:HG	11	0.31
(3,540)	1:3:A:LEU:HD11	1:3:A:LEU:HG	14	0.31
(3,540)	1:3:A:LEU:HB3	1:3:A:LEU:HD23	15	0.31
(3,486)	1:121:A:TYR:HE2	1:135:A:PRO:HG2	5	0.31
(3,470)	1:6:A:PHE:HD2	1:143:A:VAL:HB	9	0.31
(3,470)	1:6:A:PHE:HD2	1:143:A:VAL:HB	13	0.31
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	14	0.31
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	14	0.31
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	14	0.31
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG11	14	0.31
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG12	14	0.31
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG13	14	0.31
(3,442)	1:115:A:TYR:HE2	1:120:A:LEU:HB3	6	0.31
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	10	0.31
(3,318)	1:108:A:SER:HB3	1:121:A:TYR:HD1	20	0.31
(3,306)	1:106:A:THR:H	1:106:A:THR:HG22	17	0.31
(3,264)	1:47:A:ASN:HB3	1:48:A:ILE:H	12	0.31
(3,264)	1:47:A:ASN:HB2	1:48:A:ILE:H	12	0.31
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	5	0.31
(3,254)	1:37:A:LYS:H	1:37:A:LYS:HD2	13	0.31
(3,234)	1:45:A:LYS:H	1:45:A:LYS:HE3	18	0.31
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	1	0.31
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	4	0.31
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	9	0.31
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	5	0.31
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	9	0.31
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	11	0.31
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	12	0.31
(3,95)	1:138:A:ILE:HD13	1:139:A:TYR:H	19	0.31
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	2	0.31
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	12	0.31
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	19	0.31
(3,43)	1:37:A:LYS:H	1:37:A:LYS:HG2	3	0.31
(3,43)	1:37:A:LYS:H	1:37:A:LYS:HG2	15	0.31
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	5	0.31
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	18	0.31
(1,2025)	1:63:A:SER:H	1:63:A:SER:HB2	3	0.31
(1,1940)	1:53:A:GLY:H	1:80:A:ILE:HD12	6	0.31
(1,1846)	1:105:A:ASP:HB2	1:106:A:THR:H	5	0.31
(1,1815)	1:18:A:VAL:HG11	1:21:A:GLN:HE22	4	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1815)	1:18:A:VAL:HG12	1:21:A:GLN:HE22	4	0.31
(1,1815)	1:18:A:VAL:HG13	1:21:A:GLN:HE22	4	0.31
(1,1815)	1:18:A:VAL:HG21	1:21:A:GLN:HE22	4	0.31
(1,1815)	1:18:A:VAL:HG22	1:21:A:GLN:HE22	4	0.31
(1,1815)	1:18:A:VAL:HG23	1:21:A:GLN:HE22	4	0.31
(1,1815)	1:18:A:VAL:HG11	1:21:A:GLN:HE22	13	0.31
(1,1815)	1:18:A:VAL:HG12	1:21:A:GLN:HE22	13	0.31
(1,1815)	1:18:A:VAL:HG13	1:21:A:GLN:HE22	13	0.31
(1,1815)	1:18:A:VAL:HG21	1:21:A:GLN:HE22	13	0.31
(1,1815)	1:18:A:VAL:HG22	1:21:A:GLN:HE22	13	0.31
(1,1815)	1:18:A:VAL:HG23	1:21:A:GLN:HE22	13	0.31
(1,1782)	1:107:A:LEU:HG	1:110:A:ILE:H	13	0.31
(1,1688)	1:57:A:VAL:H	1:86:A:GLN:HE22	10	0.31
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	18	0.31
(1,1603)	1:110:A:ILE:HB	1:113:A:GLN:HE21	20	0.31
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	12	0.31
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	12	0.31
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HB3	16	0.31
(1,1529)	1:33:A:GLU:HA	1:36:A:ASN:HD22	3	0.31
(1,1529)	1:33:A:GLU:HA	1:36:A:ASN:HD22	13	0.31
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	8	0.31
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	11	0.31
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	14	0.31
(1,1466)	1:101:A:VAL:HB	1:142:A:GLN:H	17	0.31
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	14	0.31
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	7	0.31
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	9	0.31
(1,1290)	1:124:A:ILE:HD13	1:127:A:ALA:H	5	0.31
(1,1217)	1:118:A:ALA:HB3	1:120:A:LEU:H	13	0.31
(1,1064)	1:105:A:ASP:H	1:140:A:PRO:HG3	3	0.31
(1,1061)	1:105:A:ASP:H	1:105:A:ASP:HB3	12	0.31
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	6	0.31
(1,942)	1:71:A:LEU:HD22	1:85:A:ASP:H	8	0.31
(1,925)	1:49:A:GLN:HB2	1:84:A:ASP:H	2	0.31
(1,918)	1:3:A:LEU:HD12	1:82:A:SER:H	14	0.31
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	12	0.31
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	10	0.31
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HG3	6	0.31
(1,649)	1:62:A:LEU:H	1:90:A:ALA:HA	1	0.31
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	17	0.31
(1,504)	1:48:A:ILE:HG13	1:49:A:GLN:H	16	0.31
(1,479)	1:46:A:VAL:HB	1:47:A:ASN:H	11	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB1	18	0.31
(1,346)	1:124:A:ILE:HD12	1:125:A:PHE:H	16	0.31
(1,346)	1:124:A:ILE:HD13	1:125:A:PHE:H	20	0.31
(1,309)	1:33:A:GLU:H	1:37:A:LYS:HE3	6	0.31
(1,304)	1:40:A:ILE:HD11	1:132:A:LEU:H	20	0.31
(1,288)	1:32:A:GLN:H	1:32:A:GLN:HG2	16	0.31
(1,280)	1:31:A:VAL:H	1:31:A:VAL:HB	5	0.31
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	15	0.31
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	17	0.31
(1,165)	1:14:A:LEU:H	1:14:A:LEU:HG	13	0.31
(1,165)	1:14:A:LEU:H	1:14:A:LEU:HG	18	0.31
(1,141)	1:12:A:GLU:H	1:142:A:GLN:HG2	4	0.31
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG22	14	0.31
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	10	0.3
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	7	0.3
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	1	0.3
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	8	0.3
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	12	0.3
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	19	0.3
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	2	0.3
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	4	0.3
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	6	0.3
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	8	0.3
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	16	0.3
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	17	0.3
(3,2542)	1:54:A:LYS:H	1:54:A:LYS:HB3	6	0.3
(3,2477)	1:134:A:SER:HB3	1:136:A:ASP:H	18	0.3
(3,2464)	1:82:A:SER:HB2	1:84:A:ASP:H	14	0.3
(3,2457)	1:13:A:LYS:H	1:13:A:LYS:HG3	12	0.3
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE3	5	0.3
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE2	5	0.3
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE3	6	0.3
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE2	6	0.3
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	5	0.3
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	5	0.3
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	5	0.3
(3,2377)	1:15:A:TRP:HZ3	1:31:A:VAL:HG21	5	0.3
(3,2377)	1:15:A:TRP:HZ3	1:31:A:VAL:HG22	5	0.3
(3,2377)	1:15:A:TRP:HZ3	1:31:A:VAL:HG23	5	0.3
(3,2352)	1:38:A:THR:HG23	1:40:A:ILE:HD12	6	0.3
(3,2352)	1:38:A:THR:HG22	1:40:A:ILE:HD13	16	0.3
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG11	11	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2304)	1:138:A:ILE:HB	1:144:A:LEU:HD22	11	0.3
(3,2299)	1:14:A:LEU:H	1:14:A:LEU:HG	12	0.3
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	13	0.3
(3,2277)	1:115:A:TYR:HB3	1:115:A:TYR:HE1	14	0.3
(3,2275)	1:7:A:VAL:HG13	1:139:A:TYR:HD2	5	0.3
(3,2272)	1:42:A:ASP:HA	1:70:A:ILE:HD11	17	0.3
(3,2218)	1:14:A:LEU:HB3	1:34:A:HIS:HB2	9	0.3
(3,2214)	1:128:A:ASN:HD22	1:132:A:LEU:HD13	9	0.3
(3,2184)	1:41:A:PRO:HB2	1:66:A:ALA:HB3	2	0.3
(3,2172)	1:107:A:LEU:HG	1:125:A:PHE:HB2	15	0.3
(3,2157)	1:72:A:VAL:HA	1:75:A:GLY:H	4	0.3
(3,2144)	1:117:A:ASN:H	1:120:A:LEU:HD23	8	0.3
(3,2087)	1:101:A:VAL:HG13	1:110:A:ILE:HG22	12	0.3
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG23	8	0.3
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG21	11	0.3
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG22	15	0.3
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG22	17	0.3
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG12	1	0.3
(3,2067)	1:57:A:VAL:HG21	1:71:A:LEU:HA	7	0.3
(3,2067)	1:57:A:VAL:HG22	1:71:A:LEU:HA	7	0.3
(3,2067)	1:57:A:VAL:HG23	1:71:A:LEU:HA	7	0.3
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	12	0.3
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	14	0.3
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	6	0.3
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	6	0.3
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	6	0.3
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	11	0.3
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	11	0.3
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	11	0.3
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB3	11	0.3
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB3	17	0.3
(3,1993)	1:107:A:LEU:HG	1:121:A:TYR:HB2	11	0.3
(3,1923)	1:77:A:ILE:HG21	1:80:A:ILE:HB	16	0.3
(3,1920)	1:77:A:ILE:HG22	1:80:A:ILE:HG13	1	0.3
(3,1867)	1:54:A:LYS:HA	1:82:A:SER:HB2	12	0.3
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	10	0.3
(3,1808)	1:63:A:SER:HB3	1:65:A:GLU:H	9	0.3
(3,1798)	1:110:A:ILE:HA	1:110:A:ILE:HG13	15	0.3
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	9	0.3
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	9	0.3
(3,1766)	1:47:A:ASN:HB2	1:59:A:GLY:HA2	18	0.3
(3,1763)	1:31:A:VAL:HG13	1:32:A:GLN:HA	14	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1763)	1:31:A:VAL:HG12	1:32:A:GLN:HA	17	0.3
(3,1763)	1:31:A:VAL:HG13	1:32:A:GLN:HA	18	0.3
(3,1762)	1:111:A:SER:HB3	1:121:A:TYR:HA	2	0.3
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	20	0.3
(3,1752)	1:14:A:LEU:HD23	1:30:A:LYS:HB2	20	0.3
(3,1738)	1:12:A:GLU:H	1:14:A:LEU:HD21	16	0.3
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	11	0.3
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	11	0.3
(3,1721)	1:101:A:VAL:HA	1:102:A:LYS:HG2	14	0.3
(3,1709)	1:27:A:GLN:HB3	1:50:A:ILE:HD11	5	0.3
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD11	6	0.3
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG22	3	0.3
(3,1691)	1:50:A:ILE:HD11	1:56:A:THR:H	2	0.3
(3,1676)	1:50:A:ILE:HG23	1:51:A:ALA:HA	5	0.3
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD12	16	0.3
(3,1607)	1:70:A:ILE:HA	1:73:A:ALA:HB1	8	0.3
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	19	0.3
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	4	0.3
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	4	0.3
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	4	0.3
(3,1537)	1:40:A:ILE:HD11	1:130:A:PRO:HG2	4	0.3
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD12	16	0.3
(3,1475)	1:54:A:LYS:HD2	1:84:A:ASP:HA	12	0.3
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	18	0.3
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	8	0.3
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	13	0.3
(3,1405)	1:126:A:GLU:HB3	1:126:A:GLU:HG2	13	0.3
(3,1393)	1:96:A:SER:HA	1:148:A:GLU:HB2	14	0.3
(3,1374)	1:32:A:GLN:HG2	1:48:A:ILE:H	7	0.3
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	3	0.3
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	3	0.3
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	9	0.3
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	9	0.3
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	12	0.3
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	12	0.3
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG11	2	0.3
(3,1347)	1:115:A:TYR:HE1	1:149:A:GLU:HB3	8	0.3
(3,1347)	1:115:A:TYR:HE2	1:149:A:GLU:HB3	8	0.3
(3,1336)	1:72:A:VAL:HG11	1:73:A:ALA:H	17	0.3
(3,1336)	1:72:A:VAL:HG12	1:73:A:ALA:H	17	0.3
(3,1336)	1:72:A:VAL:HG13	1:73:A:ALA:H	17	0.3
(3,1317)	1:72:A:VAL:HG13	1:144:A:LEU:HA	15	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1294)	1:83:A:VAL:HG12	1:83:A:VAL:HG21	12	0.3
(3,1273)	1:101:A:VAL:HG13	1:138:A:ILE:HD13	18	0.3
(3,1223)	1:25:A:ASP:HB3	1:28:A:ALA:HB3	20	0.3
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB2	1	0.3
(3,1219)	1:28:A:ALA:HB3	1:48:A:ILE:HA	15	0.3
(3,1202)	1:54:A:LYS:HB3	1:54:A:LYS:HE2	15	0.3
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	3	0.3
(3,1185)	1:27:A:GLN:HB3	1:28:A:ALA:H	1	0.3
(3,1185)	1:27:A:GLN:HB3	1:28:A:ALA:H	20	0.3
(3,1136)	1:35:A:LEU:HA	1:35:A:LEU:HD12	5	0.3
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	17	0.3
(3,1063)	1:13:A:LYS:HG3	1:78:A:SER:HB3	20	0.3
(3,1062)	1:13:A:LYS:HD3	1:78:A:SER:HB2	8	0.3
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	9	0.3
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	10	0.3
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	10	0.3
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	10	0.3
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG11	10	0.3
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	17	0.3
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	17	0.3
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	17	0.3
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG12	18	0.3
(3,1010)	1:127:A:ALA:HB1	1:128:A:ASN:HA	19	0.3
(3,997)	1:124:A:ILE:HA	1:127:A:ALA:HB1	3	0.3
(3,994)	1:35:A:LEU:HD23	1:73:A:ALA:HB2	15	0.3
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	15	0.3
(3,971)	1:94:A:THR:HB	1:95:A:ALA:H	19	0.3
(3,935)	1:62:A:LEU:HD11	1:67:A:LYS:H	16	0.3
(3,916)	1:125:A:PHE:HD1	1:126:A:GLU:HB3	17	0.3
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD11	7	0.3
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD12	7	0.3
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD13	7	0.3
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD21	7	0.3
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD22	7	0.3
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD23	7	0.3
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	2	0.3
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	3	0.3
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	17	0.3
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	17	0.3
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	17	0.3
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	17	0.3
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	17	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	17	0.3
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	2	0.3
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	3	0.3
(3,751)	1:12:A:GLU:HB3	1:14:A:LEU:HD23	19	0.3
(3,748)	1:14:A:LEU:HD22	1:30:A:LYS:HB3	1	0.3
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	5	0.3
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	5	0.3
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	5	0.3
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	6	0.3
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	6	0.3
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	6	0.3
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB1	7	0.3
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB2	7	0.3
(3,746)	1:8:A:LYS:HD3	1:81:A:ALA:HB3	7	0.3
(3,733)	1:58:A:THR:HB	1:58:A:THR:HG22	3	0.3
(3,733)	1:94:A:THR:HA	1:94:A:THR:HG23	7	0.3
(3,733)	1:58:A:THR:HB	1:58:A:THR:HG22	13	0.3
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG23	7	0.3
(3,731)	1:38:A:THR:HA	1:38:A:THR:HG22	15	0.3
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	8	0.3
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	14	0.3
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	14	0.3
(3,674)	1:105:A:ASP:HB2	1:138:A:ILE:HD13	18	0.3
(3,669)	1:28:A:ALA:HA	1:31:A:VAL:HG22	4	0.3
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	4	0.3
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	20	0.3
(3,632)	1:9:A:ASP:HB3	1:10:A:ALA:HB1	16	0.3
(3,632)	1:25:A:ASP:HB2	1:28:A:ALA:HB2	19	0.3
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	1	0.3
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	3	0.3
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	19	0.3
(3,540)	1:3:A:LEU:HD13	1:3:A:LEU:HG	2	0.3
(3,520)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	16	0.3
(3,479)	1:115:A:TYR:HE1	1:150:A:LEU:H	8	0.3
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	11	0.3
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	11	0.3
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	11	0.3
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG11	11	0.3
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG12	11	0.3
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG13	11	0.3
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	3	0.3
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	3	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	18	0.3
(3,320)	1:108:A:SER:HA	1:121:A:TYR:HD1	7	0.3
(3,320)	1:108:A:SER:HA	1:121:A:TYR:HD1	12	0.3
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE3	13	0.3
(3,317)	1:67:A:LYS:HA	1:67:A:LYS:HE2	15	0.3
(3,278)	1:27:A:GLN:H	1:27:A:GLN:HG2	18	0.3
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	3	0.3
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	14	0.3
(3,243)	1:29:A:LYS:HG2	1:30:A:LYS:H	6	0.3
(3,234)	1:29:A:LYS:H	1:29:A:LYS:HE3	1	0.3
(3,234)	1:45:A:LYS:H	1:45:A:LYS:HE2	3	0.3
(3,234)	1:59:A:GLY:H	1:88:A:LYS:HE3	16	0.3
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	8	0.3
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	5	0.3
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	7	0.3
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	7	0.3
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	18	0.3
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	10	0.3
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	20	0.3
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	13	0.3
(3,95)	1:138:A:ILE:HD12	1:139:A:TYR:H	6	0.3
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	5	0.3
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	5	0.3
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	5	0.3
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD12	1	0.3
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD11	6	0.3
(3,43)	1:37:A:LYS:H	1:37:A:LYS:HG2	7	0.3
(3,43)	1:37:A:LYS:H	1:37:A:LYS:HG2	19	0.3
(3,41)	1:40:A:ILE:HG21	1:43:A:ALA:H	7	0.3
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	10	0.3
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	5	0.3
(1,1968)	1:14:A:LEU:HD22	1:30:A:LYS:H	8	0.3
(1,1874)	1:68:A:GLU:HG3	1:145:A:ARG:HE	4	0.3
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	2	0.3
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	14	0.3
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	15	0.3
(1,1681)	1:49:A:GLN:H	1:58:A:THR:HB	9	0.3
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	9	0.3
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	14	0.3
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	15	0.3
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	19	0.3
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	20	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	5	0.3
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HB3	15	0.3
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	12	0.3
(1,1490)	1:72:A:VAL:HG11	1:143:A:VAL:H	11	0.3
(1,1437)	1:10:A:ALA:HB1	1:139:A:TYR:H	2	0.3
(1,1398)	1:107:A:LEU:HB3	1:136:A:ASP:H	16	0.3
(1,1398)	1:107:A:LEU:HB3	1:136:A:ASP:H	19	0.3
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	4	0.3
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	19	0.3
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE1	11	0.3
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	10	0.3
(1,1283)	1:124:A:ILE:HG21	1:126:A:GLU:H	12	0.3
(1,1217)	1:120:A:LEU:H	1:123:A:LYS:HD3	11	0.3
(1,1217)	1:118:A:ALA:HB3	1:120:A:LEU:H	20	0.3
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	10	0.3
(1,1170)	1:112:A:LYS:HD2	1:116:A:GLY:H	15	0.3
(1,1149)	1:114:A:VAL:H	1:117:A:ASN:H	18	0.3
(1,949)	1:57:A:VAL:HB	1:86:A:GLN:H	14	0.3
(1,918)	1:3:A:LEU:HD13	1:82:A:SER:H	15	0.3
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG11	16	0.3
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG12	17	0.3
(1,725)	1:68:A:GLU:HG3	1:69:A:LYS:H	10	0.3
(1,705)	1:68:A:GLU:H	1:69:A:LYS:HB3	4	0.3
(1,699)	1:67:A:LYS:H	1:67:A:LYS:HG2	15	0.3
(1,678)	1:66:A:ALA:H	1:69:A:LYS:HB2	9	0.3
(1,671)	1:62:A:LEU:HD21	1:66:A:ALA:H	10	0.3
(1,654)	1:62:A:LEU:HG	1:63:A:SER:H	8	0.3
(1,609)	1:59:A:GLY:H	1:88:A:LYS:HB2	8	0.3
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	3	0.3
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	12	0.3
(1,579)	1:57:A:VAL:H	1:58:A:THR:HG22	9	0.3
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG21	2	0.3
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG22	2	0.3
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG23	2	0.3
(1,547)	1:54:A:LYS:HG2	1:55:A:ALA:H	15	0.3
(1,525)	1:51:A:ALA:H	1:54:A:LYS:HG2	7	0.3
(1,515)	1:49:A:GLN:HB3	1:50:A:ILE:H	2	0.3
(1,481)	1:47:A:ASN:H	1:58:A:THR:HG22	11	0.3
(1,459)	1:45:A:LYS:HD3	1:46:A:VAL:H	9	0.3
(1,459)	1:45:A:LYS:HD3	1:46:A:VAL:H	11	0.3
(1,371)	1:36:A:ASN:H	1:37:A:LYS:HD2	19	0.3
(1,346)	1:124:A:ILE:HD12	1:125:A:PHE:H	10	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:28:A:ALA:HB2	1:31:A:VAL:H	13	0.3
(1,246)	1:29:A:LYS:H	1:29:A:LYS:HD3	12	0.3
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG22	18	0.3
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	8	0.3
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	16	0.3
(1,142)	1:12:A:GLU:H	1:77:A:ILE:HB	18	0.3
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	10	0.3
(1,134)	1:12:A:GLU:H	1:14:A:LEU:HG	17	0.3
(1,31)	1:5:A:ASN:H	1:83:A:VAL:HG21	5	0.3
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG12	10	0.3
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	14	0.29
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	14	0.29
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	3	0.29
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	6	0.29
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	9	0.29
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	13	0.29
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	18	0.29
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	6	0.29
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	6	0.29
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	6	0.29
(3,2463)	1:81:A:ALA:H	1:82:A:SER:HB3	4	0.29
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	18	0.29
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	18	0.29
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE3	3	0.29
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE2	3	0.29
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	13	0.29
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	9	0.29
(3,2396)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	5	0.29
(3,2346)	1:85:A:ASP:HA	1:87:A:VAL:HG11	15	0.29
(3,2339)	1:115:A:TYR:HB3	1:149:A:GLU:HG3	11	0.29
(3,2306)	1:132:A:LEU:HD12	1:144:A:LEU:HD21	1	0.29
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD22	7	0.29
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD21	12	0.29
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD21	14	0.29
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD21	15	0.29
(3,2284)	1:145:A:ARG:HD3	1:147:A:PRO:HG3	11	0.29
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	4	0.29
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	11	0.29
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	7	0.29
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD11	10	0.29
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD11	17	0.29
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	9	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2228)	1:107:A:LEU:HD12	1:144:A:LEU:HD12	6	0.29
(3,2171)	1:125:A:PHE:HB3	1:126:A:GLU:HB2	15	0.29
(3,2160)	1:124:A:ILE:HG22	1:128:A:ASN:H	5	0.29
(3,2153)	1:48:A:ILE:HD11	1:58:A:THR:H	8	0.29
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD12	15	0.29
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	13	0.29
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG22	3	0.29
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG23	12	0.29
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG22	11	0.29
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG12	18	0.29
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	1	0.29
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	4	0.29
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	16	0.29
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD3	16	0.29
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG23	13	0.29
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	5	0.29
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	5	0.29
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	5	0.29
(3,2031)	1:76:A:ASN:HD22	1:143:A:VAL:HG12	12	0.29
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	15	0.29
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB1	16	0.29
(3,1992)	1:41:A:PRO:HG2	1:69:A:LYS:HE3	14	0.29
(3,1992)	1:123:A:LYS:HE3	1:147:A:PRO:HG2	16	0.29
(3,1979)	1:86:A:GLN:H	1:87:A:VAL:HG11	15	0.29
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	4	0.29
(3,1914)	1:14:A:LEU:HB3	1:77:A:ILE:HD11	12	0.29
(3,1869)	1:82:A:SER:H	1:82:A:SER:HB3	6	0.29
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	19	0.29
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	20	0.29
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD11	20	0.29
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD12	19	0.29
(3,1818)	1:68:A:GLU:HG3	1:98:A:PHE:HE1	13	0.29
(3,1818)	1:68:A:GLU:HG3	1:98:A:PHE:HE1	15	0.29
(3,1818)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	17	0.29
(3,1808)	1:63:A:SER:HB3	1:65:A:GLU:H	2	0.29
(3,1808)	1:63:A:SER:HB3	1:65:A:GLU:H	6	0.29
(3,1794)	1:107:A:LEU:HD11	1:135:A:PRO:HA	5	0.29
(3,1794)	1:107:A:LEU:HD12	1:135:A:PRO:HA	5	0.29
(3,1794)	1:107:A:LEU:HD13	1:135:A:PRO:HA	5	0.29
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	7	0.29
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD11	7	0.29
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG23	5	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG21	20	0.29
(3,1676)	1:50:A:ILE:HG21	1:51:A:ALA:HA	2	0.29
(3,1676)	1:50:A:ILE:HG22	1:51:A:ALA:HA	8	0.29
(3,1598)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	12	0.29
(3,1577)	1:40:A:ILE:HD11	1:41:A:PRO:HD3	13	0.29
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	4	0.29
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	4	0.29
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	4	0.29
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	8	0.29
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	8	0.29
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	8	0.29
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	17	0.29
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	17	0.29
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	17	0.29
(3,1555)	1:48:A:ILE:HG13	1:48:A:ILE:HG21	9	0.29
(3,1537)	1:40:A:ILE:HD12	1:130:A:PRO:HG2	20	0.29
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	12	0.29
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	12	0.29
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	12	0.29
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD12	19	0.29
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD11	3	0.29
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD12	6	0.29
(3,1430)	1:131:A:MET:HE3	1:132:A:LEU:HD13	10	0.29
(3,1425)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	1	0.29
(3,1393)	1:96:A:SER:HA	1:148:A:GLU:HB2	13	0.29
(3,1377)	1:38:A:THR:HG21	1:130:A:PRO:HB2	1	0.29
(3,1374)	1:32:A:GLN:HG3	1:48:A:ILE:H	18	0.29
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	16	0.29
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	16	0.29
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	7	0.29
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	17	0.29
(3,1353)	1:97:A:GLN:HG2	1:146:A:ILE:HG21	19	0.29
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG13	18	0.29
(3,1341)	1:60:A:ASP:H	1:87:A:VAL:HG21	15	0.29
(3,1325)	1:99:A:TYR:HE1	1:101:A:VAL:HG22	9	0.29
(3,1309)	1:31:A:VAL:HG11	1:80:A:ILE:HG12	10	0.29
(3,1296)	1:46:A:VAL:HB	1:46:A:VAL:HG21	13	0.29
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	13	0.29
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB2	4	0.29
(3,1185)	1:27:A:GLN:HB3	1:28:A:ALA:H	14	0.29
(3,1174)	1:88:A:LYS:HB2	1:88:A:LYS:HE2	9	0.29
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	17	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	17	0.29
(3,1157)	1:122:A:ASN:HD21	1:123:A:LYS:HG3	6	0.29
(3,1146)	1:23:A:ASP:HB2	1:24:A:LYS:HA	8	0.29
(3,1124)	1:72:A:VAL:H	1:72:A:VAL:HB	5	0.29
(3,1078)	1:78:A:SER:H	1:78:A:SER:HB3	15	0.29
(3,1068)	1:108:A:SER:HB2	1:121:A:TYR:HB3	5	0.29
(3,1042)	1:113:A:GLN:H	1:114:A:VAL:HG11	5	0.29
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG12	15	0.29
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB2	8	0.29
(3,994)	1:35:A:LEU:HD23	1:73:A:ALA:HB2	2	0.29
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG23	15	0.29
(3,947)	1:107:A:LEU:HD11	1:135:A:PRO:HA	5	0.29
(3,947)	1:107:A:LEU:HD12	1:135:A:PRO:HA	5	0.29
(3,947)	1:107:A:LEU:HD13	1:135:A:PRO:HA	5	0.29
(3,926)	1:35:A:LEU:HD23	1:43:A:ALA:HA	9	0.29
(3,917)	1:64:A:GLN:H	1:64:A:GLN:HG3	12	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD11	4	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD12	4	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD13	4	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD21	4	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD22	4	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD23	4	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD11	13	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD12	13	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD13	13	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD21	13	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD22	13	0.29
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD23	13	0.29
(3,900)	1:21:A:GLN:HA	1:21:A:GLN:HB3	12	0.29
(3,900)	1:149:A:GLU:HA	1:149:A:GLU:HG3	14	0.29
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	18	0.29
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	18	0.29
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	18	0.29
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	15	0.29
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	15	0.29
(3,853)	1:11:A:GLY:HA3	1:12:A:GLU:HB2	3	0.29
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	2	0.29
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	2	0.29
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	2	0.29
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	5	0.29
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	5	0.29
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	5	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	17	0.29
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	17	0.29
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	17	0.29
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	14	0.29
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	3	0.29
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	3	0.29
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	3	0.29
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	3	0.29
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	3	0.29
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	3	0.29
(3,798)	1:106:A:THR:HG21	1:136:A:ASP:HB3	14	0.29
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	12	0.29
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	19	0.29
(3,764)	1:8:A:LYS:HA	1:8:A:LYS:HG2	10	0.29
(3,733)	1:94:A:THR:HA	1:94:A:THR:HG23	1	0.29
(3,733)	1:58:A:THR:HB	1:58:A:THR:HG21	8	0.29
(3,733)	1:94:A:THR:HA	1:94:A:THR:HG23	10	0.29
(3,732)	1:19:A:THR:HA	1:19:A:THR:HG22	12	0.29
(3,708)	1:99:A:TYR:H	1:143:A:VAL:HG22	13	0.29
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	5	0.29
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	20	0.29
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	17	0.29
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	17	0.29
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	11	0.29
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	1	0.29
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	7	0.29
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	18	0.29
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	16	0.29
(3,587)	1:42:A:ASP:HA	1:45:A:LYS:HE2	1	0.29
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	6	0.29
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	13	0.29
(3,540)	1:3:A:LEU:HB3	1:3:A:LEU:HD22	19	0.29
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG21	8	0.29
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	8	0.29
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	19	0.29
(3,502)	1:6:A:PHE:HE2	1:71:A:LEU:HB3	3	0.29
(3,470)	1:6:A:PHE:HD2	1:143:A:VAL:HB	15	0.29
(3,470)	1:6:A:PHE:HD2	1:143:A:VAL:HB	20	0.29
(3,431)	1:99:A:TYR:HD1	1:144:A:LEU:HD22	16	0.29
(3,406)	1:69:A:LYS:H	1:69:A:LYS:HG3	3	0.29
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	7	0.29
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	12	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	15	0.29
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	13	0.29
(3,236)	1:30:A:LYS:H	1:30:A:LYS:HD3	3	0.29
(3,234)	1:59:A:GLY:H	1:88:A:LYS:HE3	11	0.29
(3,221)	1:150:A:LEU:HD11	1:151:A:GLU:H	4	0.29
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	10	0.29
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	6	0.29
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	12	0.29
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	3	0.29
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	12	0.29
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	13	0.29
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	6	0.29
(3,77)	1:57:A:VAL:HG11	1:87:A:VAL:H	18	0.29
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD13	19	0.29
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD13	8	0.29
(3,66)	1:80:A:ILE:HD12	1:81:A:ALA:H	1	0.29
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	5	0.29
(3,43)	1:37:A:LYS:H	1:37:A:LYS:HG2	2	0.29
(3,43)	1:37:A:LYS:H	1:37:A:LYS:HG2	6	0.29
(3,43)	1:37:A:LYS:H	1:37:A:LYS:HG2	16	0.29
(3,41)	1:40:A:ILE:HG21	1:43:A:ALA:H	15	0.29
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	16	0.29
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	10	0.29
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	2	0.29
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	3	0.29
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	12	0.29
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	10	0.29
(1,1707)	1:7:A:VAL:H	1:75:A:GLY:HA3	11	0.29
(1,1688)	1:57:A:VAL:H	1:86:A:GLN:HE22	12	0.29
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	1	0.29
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	5	0.29
(1,1603)	1:110:A:ILE:HB	1:113:A:GLN:HE21	10	0.29
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD21	5	0.29
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	9	0.29
(1,1390)	1:132:A:LEU:HD21	1:134:A:SER:H	20	0.29
(1,1390)	1:132:A:LEU:HD22	1:134:A:SER:H	20	0.29
(1,1390)	1:132:A:LEU:HD23	1:134:A:SER:H	20	0.29
(1,1359)	1:129:A:LYS:HD3	1:131:A:MET:H	7	0.29
(1,1352)	1:38:A:THR:HG21	1:131:A:MET:H	14	0.29
(1,1290)	1:124:A:ILE:HD11	1:127:A:ALA:H	19	0.29
(1,1284)	1:127:A:ALA:H	1:147:A:PRO:HG3	4	0.29
(1,1277)	1:122:A:ASN:HB3	1:126:A:GLU:H	11	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG22	1	0.29
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG21	4	0.29
(1,1265)	1:107:A:LEU:HD22	1:124:A:ILE:H	17	0.29
(1,1217)	1:118:A:ALA:HB2	1:120:A:LEU:H	8	0.29
(1,1217)	1:118:A:ALA:HB1	1:120:A:LEU:H	12	0.29
(1,1217)	1:120:A:LEU:H	1:123:A:LYS:HG3	15	0.29
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD11	6	0.29
(1,1149)	1:114:A:VAL:H	1:117:A:ASN:H	8	0.29
(1,1040)	1:101:A:VAL:H	1:144:A:LEU:HD11	20	0.29
(1,1025)	1:100:A:THR:H	1:101:A:VAL:HG23	15	0.29
(1,996)	1:92:A:PRO:HD3	1:93:A:ALA:H	7	0.29
(1,996)	1:92:A:PRO:HD3	1:93:A:ALA:H	19	0.29
(1,949)	1:57:A:VAL:HB	1:86:A:GLN:H	3	0.29
(1,800)	1:72:A:VAL:HG22	1:73:A:ALA:H	1	0.29
(1,725)	1:68:A:GLU:HG3	1:69:A:LYS:H	4	0.29
(1,712)	1:68:A:GLU:H	1:145:A:ARG:HD3	12	0.29
(1,620)	1:45:A:LYS:HB2	1:60:A:ASP:H	11	0.29
(1,609)	1:59:A:GLY:H	1:88:A:LYS:HB2	13	0.29
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	2	0.29
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG13	7	0.29
(1,536)	1:52:A:ASP:HB2	1:54:A:LYS:H	2	0.29
(1,487)	1:31:A:VAL:HG12	1:48:A:ILE:H	15	0.29
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG11	8	0.29
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG12	17	0.29
(1,294)	1:31:A:VAL:HG23	1:32:A:GLN:H	4	0.29
(1,292)	1:29:A:LYS:HG3	1:32:A:GLN:H	6	0.29
(1,288)	1:32:A:GLN:H	1:32:A:GLN:HG2	10	0.29
(1,280)	1:31:A:VAL:H	1:31:A:VAL:HB	10	0.29
(1,273)	1:28:A:ALA:HB2	1:31:A:VAL:H	20	0.29
(1,249)	1:25:A:ASP:HB3	1:29:A:LYS:H	17	0.29
(1,249)	1:25:A:ASP:HB2	1:29:A:LYS:H	19	0.29
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	1	0.29
(1,243)	1:29:A:LYS:H	1:48:A:ILE:HG21	12	0.29
(1,243)	1:29:A:LYS:H	1:50:A:ILE:HD12	13	0.29
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	9	0.29
(1,83)	1:6:A:PHE:H	1:98:A:PHE:HB3	6	0.29
(1,75)	1:4:A:PHE:H	1:71:A:LEU:HD22	7	0.29
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	6	0.28
(3,2799)	1:139:A:TYR:HE1	1:142:A:GLN:HE21	5	0.28
(3,2799)	1:139:A:TYR:HE2	1:142:A:GLN:HE21	5	0.28
(3,2799)	1:139:A:TYR:HE1	1:142:A:GLN:HE21	14	0.28
(3,2799)	1:139:A:TYR:HE2	1:142:A:GLN:HE21	14	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	2	0.28
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	2	0.28
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	2	0.28
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	4	0.28
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	4	0.28
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	4	0.28
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	12	0.28
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	12	0.28
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	12	0.28
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	2	0.28
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	5	0.28
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	10	0.28
(3,2549)	1:132:A:LEU:HD11	1:142:A:GLN:HE21	7	0.28
(3,2549)	1:132:A:LEU:HD12	1:142:A:GLN:HE21	7	0.28
(3,2549)	1:132:A:LEU:HD13	1:142:A:GLN:HE21	7	0.28
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	10	0.28
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	10	0.28
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	10	0.28
(3,2493)	1:31:A:VAL:HA	1:77:A:ILE:HD11	5	0.28
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	15	0.28
(3,2465)	1:110:A:ILE:HD12	1:144:A:LEU:H	5	0.28
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB3	17	0.28
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE3	7	0.28
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE2	7	0.28
(3,2424)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	8	0.28
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	13	0.28
(3,2352)	1:38:A:THR:HG23	1:40:A:ILE:HD13	4	0.28
(3,2352)	1:38:A:THR:HG23	1:40:A:ILE:HD11	10	0.28
(3,2346)	1:85:A:ASP:HA	1:87:A:VAL:HG13	1	0.28
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD13	2	0.28
(3,2321)	1:40:A:ILE:HD11	1:131:A:MET:HG3	14	0.28
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD21	17	0.28
(3,2299)	1:14:A:LEU:H	1:14:A:LEU:HG	19	0.28
(3,2294)	1:19:A:THR:HG21	1:20:A:GLY:H	9	0.28
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD11	9	0.28
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD12	18	0.28
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	5	0.28
(3,2250)	1:121:A:TYR:HD2	1:135:A:PRO:HG2	2	0.28
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	15	0.28
(3,2168)	1:124:A:ILE:HG21	1:128:A:ASN:HB2	12	0.28
(3,2164)	1:80:A:ILE:HG22	1:83:A:VAL:HA	12	0.28
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2145)	1:107:A:LEU:HD21	1:125:A:PHE:HA	5	0.28
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD21	13	0.28
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG22	2	0.28
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG21	4	0.28
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG22	10	0.28
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG11	4	0.28
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG12	16	0.28
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG11	17	0.28
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG11	19	0.28
(3,2059)	1:51:A:ALA:H	1:54:A:LYS:HG2	17	0.28
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	1	0.28
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	2	0.28
(3,2046)	1:101:A:VAL:HB	1:142:A:GLN:HB2	17	0.28
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG23	18	0.28
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	1	0.28
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	1	0.28
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	1	0.28
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	13	0.28
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	13	0.28
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	13	0.28
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	14	0.28
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	14	0.28
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	14	0.28
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	7	0.28
(3,2008)	1:96:A:SER:HB3	1:146:A:ILE:HB	7	0.28
(3,2006)	1:112:A:LYS:HE3	1:118:A:ALA:HB3	9	0.28
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	1	0.28
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	16	0.28
(3,1929)	1:35:A:LEU:H	1:35:A:LEU:HG	1	0.28
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	8	0.28
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	8	0.28
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	8	0.28
(3,1872)	1:137:A:LYS:H	1:138:A:ILE:HG22	13	0.28
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG22	16	0.28
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	2	0.28
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	4	0.28
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	5	0.28
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	6	0.28
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	14	0.28
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	16	0.28
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	17	0.28
(3,1827)	1:68:A:GLU:HG3	1:71:A:LEU:HD13	19	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1807)	1:99:A:TYR:HE1	1:110:A:ILE:HA	18	0.28
(3,1790)	1:82:A:SER:HA	1:83:A:VAL:HG21	15	0.28
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD21	16	0.28
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD22	16	0.28
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD23	16	0.28
(3,1746)	1:18:A:VAL:HB	1:19:A:THR:HG21	3	0.28
(3,1746)	1:58:A:THR:HG22	1:86:A:GLN:HG3	12	0.28
(3,1737)	1:74:A:VAL:H	1:83:A:VAL:HG22	12	0.28
(3,1707)	1:53:A:GLY:HA3	1:80:A:ILE:HA	14	0.28
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD13	18	0.28
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG21	11	0.28
(3,1600)	1:42:A:ASP:HA	1:45:A:LYS:HG3	10	0.28
(3,1573)	1:40:A:ILE:HD12	1:41:A:PRO:HD2	9	0.28
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD12	2	0.28
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD13	16	0.28
(3,1468)	1:15:A:TRP:HE3	1:21:A:GLN:HB2	3	0.28
(3,1468)	1:15:A:TRP:HE3	1:30:A:LYS:HD2	15	0.28
(3,1440)	1:62:A:LEU:HD13	1:67:A:LYS:HA	12	0.28
(3,1437)	1:62:A:LEU:HD11	1:89:A:THR:HA	14	0.28
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	5	0.28
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	17	0.28
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD11	11	0.28
(3,1353)	1:97:A:GLN:HG2	1:146:A:ILE:HG23	20	0.28
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG11	13	0.28
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG12	14	0.28
(3,1318)	1:99:A:TYR:HD1	1:101:A:VAL:HG13	8	0.28
(3,1317)	1:72:A:VAL:HG12	1:144:A:LEU:HA	17	0.28
(3,1308)	1:31:A:VAL:HG11	1:77:A:ILE:HG12	13	0.28
(3,1307)	1:57:A:VAL:HB	1:83:A:VAL:HG13	8	0.28
(3,1296)	1:46:A:VAL:HB	1:46:A:VAL:HG23	3	0.28
(3,1296)	1:87:A:VAL:HB	1:87:A:VAL:HG11	4	0.28
(3,1296)	1:87:A:VAL:HB	1:87:A:VAL:HG12	6	0.28
(3,1296)	1:46:A:VAL:HB	1:46:A:VAL:HG21	10	0.28
(3,1296)	1:87:A:VAL:HB	1:87:A:VAL:HG11	15	0.28
(3,1296)	1:46:A:VAL:HB	1:46:A:VAL:HG21	18	0.28
(3,1294)	1:71:A:LEU:HD22	1:83:A:VAL:HG11	16	0.28
(3,1275)	1:6:A:PHE:HA	1:143:A:VAL:HG11	9	0.28
(3,1274)	1:100:A:THR:HA	1:101:A:VAL:HG12	20	0.28
(3,1268)	1:31:A:VAL:HG13	1:31:A:VAL:HG23	9	0.28
(3,1229)	1:28:A:ALA:HB1	1:48:A:ILE:HG21	19	0.28
(3,1223)	1:25:A:ASP:HB3	1:28:A:ALA:HB2	3	0.28
(3,1223)	1:25:A:ASP:HB3	1:28:A:ALA:HB3	13	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB1	16	0.28
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB1	18	0.28
(3,1213)	1:124:A:ILE:HG23	1:125:A:PHE:H	15	0.28
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	9	0.28
(3,1157)	1:122:A:ASN:HD21	1:123:A:LYS:HG3	4	0.28
(3,1136)	1:35:A:LEU:HA	1:35:A:LEU:HD11	1	0.28
(3,1136)	1:35:A:LEU:HA	1:35:A:LEU:HD13	2	0.28
(3,1124)	1:72:A:VAL:H	1:72:A:VAL:HB	6	0.28
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	18	0.28
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	18	0.28
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	18	0.28
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	15	0.28
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	15	0.28
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	15	0.28
(3,1025)	1:100:A:THR:HG22	1:102:A:LYS:HE3	20	0.28
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG11	4	0.28
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG11	14	0.28
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG11	19	0.28
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG12	20	0.28
(3,1010)	1:127:A:ALA:HB3	1:128:A:ASN:HA	10	0.28
(3,1010)	1:127:A:ALA:HB2	1:128:A:ASN:HA	14	0.28
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB1	17	0.28
(3,997)	1:124:A:ILE:HA	1:127:A:ALA:HB2	8	0.28
(3,997)	1:124:A:ILE:HA	1:127:A:ALA:HB3	13	0.28
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG22	13	0.28
(3,971)	1:38:A:THR:HB	1:131:A:MET:H	20	0.28
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD11	1	0.28
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD12	1	0.28
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD13	1	0.28
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD21	1	0.28
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD22	1	0.28
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD23	1	0.28
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	20	0.28
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	20	0.28
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	20	0.28
(3,807)	1:72:A:VAL:HG13	1:73:A:ALA:HA	14	0.28
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	16	0.28
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	16	0.28
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	16	0.28
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	16	0.28
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	16	0.28
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	16	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,711)	1:7:A:VAL:HG11	1:10:A:ALA:H	2	0.28
(3,711)	1:7:A:VAL:HG12	1:10:A:ALA:H	2	0.28
(3,711)	1:7:A:VAL:HG13	1:10:A:ALA:H	2	0.28
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	10	0.28
(3,671)	1:128:A:ASN:HB2	1:129:A:LYS:HB3	19	0.28
(3,669)	1:28:A:ALA:HA	1:31:A:VAL:HG23	8	0.28
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	20	0.28
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	10	0.28
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	11	0.28
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	10	0.28
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	11	0.28
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	17	0.28
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	20	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	1	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	2	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	4	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	5	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	6	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	7	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	8	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	9	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	10	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	11	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	13	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	14	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	15	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	16	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	17	0.28
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	20	0.28
(3,563)	1:107:A:LEU:HD22	1:125:A:PHE:H	1	0.28
(3,563)	1:107:A:LEU:HD22	1:125:A:PHE:H	15	0.28
(3,553)	1:29:A:LYS:HA	1:29:A:LYS:HG2	12	0.28
(3,540)	1:3:A:LEU:HB3	1:3:A:LEU:HD22	6	0.28
(3,540)	1:150:A:LEU:HB2	1:150:A:LEU:HD21	12	0.28
(3,540)	1:3:A:LEU:HD12	1:3:A:LEU:HG	16	0.28
(3,533)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	10	0.28
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	14	0.28
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD21	17	0.28
(3,471)	1:115:A:TYR:HD2	1:120:A:LEU:HD12	18	0.28
(3,469)	1:115:A:TYR:HD1	1:149:A:GLU:HG2	9	0.28
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	13	0.28
(3,419)	1:131:A:MET:HE3	1:132:A:LEU:HA	11	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,417)	1:131:A:MET:HE3	1:132:A:LEU:H	19	0.28
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB3	12	0.28
(3,410)	1:112:A:LYS:HA	1:118:A:ALA:HA	15	0.28
(3,406)	1:69:A:LYS:HG3	1:70:A:ILE:H	12	0.28
(3,320)	1:108:A:SER:HA	1:121:A:TYR:H	4	0.28
(3,315)	1:13:A:LYS:HD3	1:13:A:LYS:HG2	12	0.28
(3,305)	1:55:A:ALA:HB3	1:56:A:THR:H	14	0.28
(3,267)	1:58:A:THR:H	1:58:A:THR:HB	8	0.28
(3,267)	1:58:A:THR:H	1:58:A:THR:HB	13	0.28
(3,264)	1:47:A:ASN:HB3	1:48:A:ILE:H	9	0.28
(3,264)	1:47:A:ASN:HB2	1:48:A:ILE:H	9	0.28
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	10	0.28
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	17	0.28
(3,222)	1:150:A:LEU:H	1:150:A:LEU:HG	2	0.28
(3,222)	1:150:A:LEU:H	1:150:A:LEU:HG	20	0.28
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	20	0.28
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	18	0.28
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	1	0.28
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	14	0.28
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	17	0.28
(3,166)	1:92:A:PRO:HA	1:92:A:PRO:HB2	19	0.28
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	7	0.28
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	7	0.28
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	7	0.28
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD13	3	0.28
(3,66)	1:80:A:ILE:HD13	1:81:A:ALA:H	7	0.28
(3,66)	1:80:A:ILE:HD12	1:81:A:ALA:H	12	0.28
(3,66)	1:80:A:ILE:HD13	1:81:A:ALA:H	16	0.28
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	9	0.28
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	11	0.28
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	13	0.28
(3,41)	1:40:A:ILE:HG23	1:43:A:ALA:H	3	0.28
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	1	0.28
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	8	0.28
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	3	0.28
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	14	0.28
(1,2014)	1:49:A:GLN:H	1:49:A:GLN:HG3	8	0.28
(1,2014)	1:49:A:GLN:H	1:49:A:GLN:HG2	8	0.28
(1,1979)	1:70:A:ILE:HG13	1:74:A:VAL:H	12	0.28
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	5	0.28
(1,1818)	1:64:A:GLN:HE21	1:71:A:LEU:HD11	17	0.28
(1,1811)	1:145:A:ARG:HB3	1:148:A:GLU:H	13	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1811)	1:148:A:GLU:H	1:149:A:GLU:HB3	18	0.28
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	4	0.28
(1,1696)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	8	0.28
(1,1676)	1:45:A:LYS:H	1:62:A:LEU:HD22	14	0.28
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	2	0.28
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	8	0.28
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	11	0.28
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	12	0.28
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	13	0.28
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	17	0.28
(1,1540)	1:46:A:VAL:HG23	1:47:A:ASN:HD22	15	0.28
(1,1518)	1:145:A:ARG:H	1:147:A:PRO:HG3	16	0.28
(1,1488)	1:7:A:VAL:HG21	1:143:A:VAL:H	16	0.28
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	10	0.28
(1,1338)	1:126:A:GLU:HB3	1:129:A:LYS:H	19	0.28
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	2	0.28
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	8	0.28
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	10	0.28
(1,1322)	1:126:A:GLU:HB2	1:128:A:ASN:H	14	0.28
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	3	0.28
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	4	0.28
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD12	4	0.28
(1,1290)	1:124:A:ILE:HD13	1:127:A:ALA:H	18	0.28
(1,1277)	1:122:A:ASN:HB3	1:126:A:GLU:H	8	0.28
(1,1277)	1:122:A:ASN:HB3	1:126:A:GLU:H	14	0.28
(1,1166)	1:114:A:VAL:HG11	1:115:A:TYR:H	10	0.28
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	8	0.28
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	7	0.28
(1,949)	1:57:A:VAL:HB	1:86:A:GLN:H	9	0.28
(1,942)	1:71:A:LEU:HD23	1:85:A:ASP:H	17	0.28
(1,925)	1:49:A:GLN:HB2	1:84:A:ASP:H	19	0.28
(1,899)	1:8:A:LYS:HG3	1:81:A:ALA:H	18	0.28
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	16	0.28
(1,793)	1:73:A:ALA:H	1:145:A:ARG:HG3	15	0.28
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG11	4	0.28
(1,672)	1:62:A:LEU:HB2	1:66:A:ALA:H	9	0.28
(1,663)	1:63:A:SER:HB3	1:65:A:GLU:H	17	0.28
(1,637)	1:62:A:LEU:H	1:87:A:VAL:HG11	20	0.28
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	7	0.28
(1,579)	1:55:A:ALA:HB1	1:57:A:VAL:H	7	0.28
(1,487)	1:31:A:VAL:HG13	1:48:A:ILE:H	18	0.28
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG23	2	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,481)	1:47:A:ASN:H	1:58:A:THR:HG22	9	0.28
(1,479)	1:46:A:VAL:HB	1:47:A:ASN:H	14	0.28
(1,459)	1:45:A:LYS:HD3	1:46:A:VAL:H	6	0.28
(1,429)	1:44:A:ASP:H	1:46:A:VAL:HG12	18	0.28
(1,305)	1:33:A:GLU:H	1:48:A:ILE:HD11	6	0.28
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB2	18	0.28
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	2	0.28
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	4	0.28
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	7	0.28
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	9	0.28
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	13	0.28
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	17	0.28
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	18	0.28
(1,246)	1:29:A:LYS:H	1:30:A:LYS:HD2	7	0.28
(1,230)	1:25:A:ASP:HB2	1:28:A:ALA:H	7	0.28
(1,142)	1:12:A:GLU:H	1:77:A:ILE:HB	12	0.28
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	11	0.28
(1,77)	1:6:A:PHE:H	1:143:A:VAL:HG13	15	0.28
(1,19)	1:15:A:TRP:HE1	1:79:A:GLY:HA3	5	0.28
(1,14)	1:15:A:TRP:HE1	1:80:A:ILE:HG13	4	0.28
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	14	0.27
(3,2868)	1:21:A:GLN:HA	1:21:A:GLN:HG3	10	0.27
(3,2868)	1:21:A:GLN:HA	1:21:A:GLN:HG2	10	0.27
(3,2799)	1:139:A:TYR:HE1	1:142:A:GLN:HE21	2	0.27
(3,2799)	1:139:A:TYR:HE2	1:142:A:GLN:HE21	2	0.27
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	19	0.27
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	19	0.27
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	19	0.27
(3,2616)	1:132:A:LEU:HD21	1:142:A:GLN:HE21	3	0.27
(3,2616)	1:132:A:LEU:HD22	1:142:A:GLN:HE21	3	0.27
(3,2616)	1:132:A:LEU:HD23	1:142:A:GLN:HE21	3	0.27
(3,2512)	1:97:A:GLN:HE21	1:114:A:VAL:HA	15	0.27
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG12	12	0.27
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	2	0.27
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	2	0.27
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	2	0.27
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	3	0.27
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	3	0.27
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	3	0.27
(3,2484)	1:53:A:GLY:HA3	1:80:A:ILE:HA	3	0.27
(3,2484)	1:53:A:GLY:HA3	1:80:A:ILE:HA	9	0.27
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD21	13	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD22	13	0.27
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD23	13	0.27
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD21	16	0.27
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD22	16	0.27
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD23	16	0.27
(3,2396)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	4	0.27
(3,2352)	1:38:A:THR:HG21	1:40:A:ILE:HD13	7	0.27
(3,2321)	1:40:A:ILE:HD13	1:69:A:LYS:HE3	1	0.27
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	2	0.27
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	11	0.27
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	13	0.27
(3,2248)	1:125:A:PHE:HA	1:135:A:PRO:HA	20	0.27
(3,2168)	1:124:A:ILE:HG21	1:128:A:ASN:HB2	6	0.27
(3,2168)	1:124:A:ILE:HG23	1:128:A:ASN:HB2	8	0.27
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	16	0.27
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	3	0.27
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG21	16	0.27
(3,2092)	1:110:A:ILE:HD12	1:111:A:SER:HB2	1	0.27
(3,2087)	1:101:A:VAL:HG12	1:110:A:ILE:HG23	19	0.27
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG23	16	0.27
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG21	19	0.27
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB3	2	0.27
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	11	0.27
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD2	17	0.27
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG21	5	0.27
(3,2033)	1:101:A:VAL:HG11	1:142:A:GLN:H	16	0.27
(3,2033)	1:101:A:VAL:HG12	1:142:A:GLN:H	16	0.27
(3,2033)	1:101:A:VAL:HG13	1:142:A:GLN:H	16	0.27
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	3	0.27
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	9	0.27
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	20	0.27
(3,2008)	1:96:A:SER:HB3	1:147:A:PRO:HB3	6	0.27
(3,2004)	1:17:A:ALA:HA	1:17:A:ALA:HB2	5	0.27
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG13	4	0.27
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	4	0.27
(3,1978)	1:57:A:VAL:H	1:83:A:VAL:HG12	2	0.27
(3,1942)	1:6:A:PHE:H	1:82:A:SER:HB3	20	0.27
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	8	0.27
(3,1869)	1:82:A:SER:H	1:82:A:SER:HB3	1	0.27
(3,1869)	1:82:A:SER:H	1:82:A:SER:HB3	5	0.27
(3,1869)	1:82:A:SER:H	1:82:A:SER:HB3	7	0.27
(3,1850)	1:54:A:LYS:HD2	1:82:A:SER:HB3	9	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1848)	1:54:A:LYS:HD3	1:82:A:SER:HB2	13	0.27
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	1	0.27
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	7	0.27
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	8	0.27
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	13	0.27
(3,1786)	1:128:A:ASN:H	1:132:A:LEU:HD12	12	0.27
(3,1738)	1:12:A:GLU:H	1:14:A:LEU:HD21	20	0.27
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD11	19	0.27
(3,1685)	1:139:A:TYR:HD2	1:142:A:GLN:HG3	9	0.27
(3,1676)	1:50:A:ILE:HG22	1:51:A:ALA:HA	4	0.27
(3,1676)	1:50:A:ILE:HG21	1:51:A:ALA:HA	11	0.27
(3,1676)	1:50:A:ILE:HG21	1:51:A:ALA:HA	17	0.27
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD11	14	0.27
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG22	1	0.27
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG22	6	0.27
(3,1595)	1:42:A:ASP:HB2	1:70:A:ILE:HD13	13	0.27
(3,1577)	1:40:A:ILE:HD12	1:41:A:PRO:HD3	10	0.27
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	6	0.27
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	6	0.27
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	6	0.27
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	10	0.27
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	10	0.27
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	10	0.27
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	15	0.27
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	15	0.27
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	15	0.27
(3,1476)	1:101:A:VAL:HB	1:140:A:PRO:HA	5	0.27
(3,1468)	1:15:A:TRP:HE3	1:30:A:LYS:HD3	20	0.27
(3,1441)	1:120:A:LEU:HD23	1:123:A:LYS:HD3	11	0.27
(3,1421)	1:24:A:LYS:HA	1:50:A:ILE:HB	9	0.27
(3,1385)	1:148:A:GLU:HG3	1:149:A:GLU:H	3	0.27
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	11	0.27
(3,1343)	1:61:A:GLY:H	1:87:A:VAL:HG21	1	0.27
(3,1341)	1:60:A:ASP:H	1:87:A:VAL:HG22	14	0.27
(3,1336)	1:72:A:VAL:HG11	1:73:A:ALA:H	12	0.27
(3,1336)	1:72:A:VAL:HG12	1:73:A:ALA:H	12	0.27
(3,1336)	1:72:A:VAL:HG13	1:73:A:ALA:H	12	0.27
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	19	0.27
(3,1325)	1:6:A:PHE:HZ	1:83:A:VAL:HG22	8	0.27
(3,1305)	1:31:A:VAL:HG21	1:77:A:ILE:HG12	18	0.27
(3,1305)	1:31:A:VAL:HG22	1:77:A:ILE:HG12	18	0.27
(3,1305)	1:31:A:VAL:HG23	1:77:A:ILE:HG12	18	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG23	13	0.27
(3,1297)	1:101:A:VAL:HG23	1:138:A:ILE:HB	20	0.27
(3,1296)	1:46:A:VAL:HB	1:46:A:VAL:HG21	5	0.27
(3,1296)	1:83:A:VAL:HB	1:83:A:VAL:HG22	9	0.27
(3,1269)	1:31:A:VAL:HG23	1:50:A:ILE:HD13	19	0.27
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	3	0.27
(3,1234)	1:29:A:LYS:HA	1:29:A:LYS:HD2	1	0.27
(3,1229)	1:28:A:ALA:HB1	1:48:A:ILE:HG21	16	0.27
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB2	11	0.27
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB2	15	0.27
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	8	0.27
(3,1177)	1:38:A:THR:HB	1:130:A:PRO:HB2	11	0.27
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	13	0.27
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	13	0.27
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	18	0.27
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	18	0.27
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	8	0.27
(3,1062)	1:13:A:LYS:HD3	1:78:A:SER:HB2	4	0.27
(3,1059)	1:103:A:SER:HB3	1:140:A:PRO:HG3	5	0.27
(3,1059)	1:103:A:SER:HB3	1:140:A:PRO:HG3	9	0.27
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG11	5	0.27
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG13	11	0.27
(3,1010)	1:127:A:ALA:HB3	1:128:A:ASN:HA	17	0.27
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB3	11	0.27
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG23	14	0.27
(3,951)	1:67:A:LYS:HE2	1:71:A:LEU:HD12	3	0.27
(3,925)	1:13:A:LYS:HG3	1:78:A:SER:HB3	15	0.27
(3,921)	1:13:A:LYS:H	1:13:A:LYS:HB3	3	0.27
(3,917)	1:64:A:GLN:H	1:64:A:GLN:HG2	8	0.27
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD23	12	0.27
(3,906)	1:120:A:LEU:HD22	1:123:A:LYS:HE2	7	0.27
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG21	15	0.27
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG22	15	0.27
(3,880)	1:97:A:GLN:HB2	1:146:A:ILE:HG23	15	0.27
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	6	0.27
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	6	0.27
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	6	0.27
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	6	0.27
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	6	0.27
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	6	0.27
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	6	0.27
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	6	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	6	0.27
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	13	0.27
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	13	0.27
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	13	0.27
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	13	0.27
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	13	0.27
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	13	0.27
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	4	0.27
(3,708)	1:99:A:TYR:H	1:143:A:VAL:HG21	3	0.27
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	15	0.27
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	6	0.27
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	6	0.27
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	11	0.27
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	16	0.27
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	3	0.27
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	12	0.27
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	18	0.27
(3,588)	1:133:A:LYS:HA	1:133:A:LYS:HB2	19	0.27
(3,556)	1:3:A:LEU:HD13	1:54:A:LYS:HA	6	0.27
(3,540)	1:150:A:LEU:HB3	1:150:A:LEU:HD22	1	0.27
(3,540)	1:150:A:LEU:HB2	1:150:A:LEU:HD21	4	0.27
(3,540)	1:3:A:LEU:HD21	1:3:A:LEU:HG	20	0.27
(3,520)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	1	0.27
(3,476)	1:115:A:TYR:HE2	1:121:A:TYR:HA	14	0.27
(3,445)	1:115:A:TYR:HE1	1:146:A:ILE:HG22	5	0.27
(3,442)	1:115:A:TYR:HE2	1:120:A:LEU:HB3	2	0.27
(3,417)	1:131:A:MET:HE2	1:132:A:LEU:H	6	0.27
(3,416)	1:131:A:MET:HE2	1:144:A:LEU:HD11	1	0.27
(3,374)	1:125:A:PHE:HD2	1:132:A:LEU:HD23	20	0.27
(3,361)	1:20:A:GLY:H	1:21:A:GLN:HB3	3	0.27
(3,313)	1:45:A:LYS:HA	1:45:A:LYS:HG2	14	0.27
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	19	0.27
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	4	0.27
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	8	0.27
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	9	0.27
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	11	0.27
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	19	0.27
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	20	0.27
(3,254)	1:37:A:LYS:H	1:37:A:LYS:HD3	7	0.27
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	6	0.27
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	10	0.27
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	13	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	6	0.27
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD1	14	0.27
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD2	14	0.27
(3,106)	1:80:A:ILE:H	1:80:A:ILE:HG13	16	0.27
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	3	0.27
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	3	0.27
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	3	0.27
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	13	0.27
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	13	0.27
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	13	0.27
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD13	17	0.27
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	18	0.27
(3,63)	1:48:A:ILE:HG13	1:49:A:GLN:H	4	0.27
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	6	0.27
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	10	0.27
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	13	0.27
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	4	0.27
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	12	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	1	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	2	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	3	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	4	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	5	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	6	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	7	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	8	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	9	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	10	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	11	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	12	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	13	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	14	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	15	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	16	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	17	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	18	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	19	0.27
(1,1971)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	20	0.27
(1,1891)	1:47:A:ASN:HD22	1:58:A:THR:HG22	19	0.27
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	1	0.27
(1,1833)	1:32:A:GLN:HE21	1:43:A:ALA:HB3	11	0.27
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	11	0.27
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	17	0.27
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	18	0.27
(1,1751)	1:96:A:SER:H	1:145:A:ARG:HG2	12	0.27
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	20	0.27
(1,1697)	1:107:A:LEU:HD11	1:128:A:ASN:HD21	3	0.27
(1,1688)	1:57:A:VAL:H	1:86:A:GLN:HE22	8	0.27
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	3	0.27
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	12	0.27
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	15	0.27
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	7	0.27
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	10	0.27
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	18	0.27
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	8	0.27
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	8	0.27
(1,1571)	1:148:A:GLU:HG3	1:151:A:GLU:H	3	0.27
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	15	0.27
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	5	0.27
(1,1457)	1:138:A:ILE:HD12	1:141:A:GLY:H	14	0.27
(1,1398)	1:136:A:ASP:H	1:137:A:LYS:HD2	18	0.27
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE2	6	0.27
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	17	0.27
(1,1298)	1:127:A:ALA:H	1:145:A:ARG:HD3	2	0.27
(1,1282)	1:107:A:LEU:HD11	1:126:A:GLU:H	19	0.27
(1,1197)	1:112:A:LYS:HG2	1:117:A:ASN:H	19	0.27
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD11	4	0.27
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD22	17	0.27
(1,1166)	1:114:A:VAL:HG11	1:115:A:TYR:H	14	0.27
(1,1149)	1:99:A:TYR:HE2	1:114:A:VAL:H	10	0.27
(1,1104)	1:107:A:LEU:HD22	1:111:A:SER:H	15	0.27
(1,1025)	1:100:A:THR:H	1:101:A:VAL:HG22	20	0.27
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	12	0.27
(1,961)	1:87:A:VAL:H	1:88:A:LYS:HG3	19	0.27
(1,899)	1:8:A:LYS:HG3	1:81:A:ALA:H	19	0.27
(1,856)	1:78:A:SER:H	1:78:A:SER:HB3	15	0.27
(1,856)	1:78:A:SER:H	1:78:A:SER:HB3	16	0.27
(1,766)	1:70:A:ILE:HG21	1:71:A:LEU:H	5	0.27
(1,757)	1:42:A:ASP:HB2	1:71:A:LEU:H	17	0.27
(1,732)	1:40:A:ILE:HG23	1:69:A:LYS:H	2	0.27
(1,723)	1:69:A:LYS:H	1:69:A:LYS:HE2	6	0.27
(1,701)	1:62:A:LEU:HD21	1:67:A:LYS:H	10	0.27
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG11	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,614)	1:56:A:THR:HG21	1:59:A:GLY:H	17	0.27
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	4	0.27
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	10	0.27
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	11	0.27
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG21	18	0.27
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG22	18	0.27
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG23	18	0.27
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG13	6	0.27
(1,487)	1:31:A:VAL:HG13	1:48:A:ILE:H	19	0.27
(1,485)	1:48:A:ILE:H	1:48:A:ILE:HG22	18	0.27
(1,454)	1:45:A:LYS:H	1:45:A:LYS:HD2	15	0.27
(1,435)	1:44:A:ASP:H	1:45:A:LYS:HD2	15	0.27
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB3	3	0.27
(1,367)	1:32:A:GLN:HG3	1:36:A:ASN:H	18	0.27
(1,342)	1:31:A:VAL:HG23	1:34:A:HIS:H	18	0.27
(1,294)	1:31:A:VAL:HG21	1:32:A:GLN:H	3	0.27
(1,274)	1:29:A:LYS:HG2	1:31:A:VAL:H	5	0.27
(1,271)	1:30:A:LYS:HG3	1:31:A:VAL:H	18	0.27
(1,249)	1:25:A:ASP:HB2	1:29:A:LYS:H	11	0.27
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	10	0.27
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	6	0.27
(1,228)	1:24:A:LYS:HA	1:28:A:ALA:H	12	0.27
(1,215)	1:22:A:HIS:HB2	1:26:A:ASP:H	7	0.27
(1,192)	1:14:A:LEU:HG	1:15:A:TRP:H	16	0.27
(1,191)	1:14:A:LEU:HB3	1:15:A:TRP:H	5	0.27
(1,191)	1:14:A:LEU:HB3	1:15:A:TRP:H	8	0.27
(1,189)	1:15:A:TRP:H	1:17:A:ALA:HB3	12	0.27
(1,184)	1:13:A:LYS:HE3	1:15:A:TRP:H	4	0.27
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	8	0.27
(1,109)	1:9:A:ASP:H	1:81:A:ALA:HB1	12	0.27
(1,15)	1:15:A:TRP:HE1	1:80:A:ILE:HD12	2	0.27
(1,4)	1:13:A:LYS:HB3	1:15:A:TRP:HE1	1	0.27
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	14	0.26
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	18	0.26
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	19	0.26
(3,2891)	1:96:A:SER:HB3	1:97:A:GLN:H	14	0.26
(3,2847)	1:63:A:SER:HB3	1:64:A:GLN:H	1	0.26
(3,2847)	1:63:A:SER:HB3	1:64:A:GLN:H	3	0.26
(3,2799)	1:139:A:TYR:HE1	1:142:A:GLN:HE21	13	0.26
(3,2799)	1:139:A:TYR:HE2	1:142:A:GLN:HE21	13	0.26
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG11	19	0.26
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG12	19	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG13	19	0.26
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	7	0.26
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	7	0.26
(3,2604)	1:128:A:ASN:HB2	1:128:A:ASN:HD22	11	0.26
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG21	4	0.26
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG21	19	0.26
(3,2510)	1:110:A:ILE:HD13	1:114:A:VAL:HG11	18	0.26
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	6	0.26
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	6	0.26
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	6	0.26
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	8	0.26
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	8	0.26
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	8	0.26
(3,2487)	1:43:A:ALA:HA	1:46:A:VAL:HG12	18	0.26
(3,2484)	1:53:A:GLY:HA3	1:80:A:ILE:HA	8	0.26
(3,2477)	1:134:A:SER:HB3	1:136:A:ASP:H	3	0.26
(3,2463)	1:81:A:ALA:H	1:82:A:SER:HB3	2	0.26
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	14	0.26
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	14	0.26
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE3	1	0.26
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE2	1	0.26
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	4	0.26
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG21	18	0.26
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG22	18	0.26
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG23	18	0.26
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG21	18	0.26
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG22	18	0.26
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG23	18	0.26
(3,2352)	1:38:A:THR:HG22	1:40:A:ILE:HD11	1	0.26
(3,2352)	1:38:A:THR:HG21	1:40:A:ILE:HD13	9	0.26
(3,2352)	1:38:A:THR:HG23	1:40:A:ILE:HD13	19	0.26
(3,2305)	1:144:A:LEU:HB2	1:144:A:LEU:HD21	11	0.26
(3,2305)	1:144:A:LEU:HB2	1:144:A:LEU:HD22	11	0.26
(3,2305)	1:144:A:LEU:HB2	1:144:A:LEU:HD23	11	0.26
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD22	19	0.26
(3,2299)	1:14:A:LEU:H	1:14:A:LEU:HG	13	0.26
(3,2299)	1:14:A:LEU:H	1:14:A:LEU:HG	18	0.26
(3,2295)	1:94:A:THR:HG21	1:148:A:GLU:H	16	0.26
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	18	0.26
(3,2259)	1:115:A:TYR:HB3	1:117:A:ASN:HB2	6	0.26
(3,2259)	1:115:A:TYR:HB3	1:117:A:ASN:HB2	10	0.26
(3,2193)	1:3:A:LEU:HD13	1:85:A:ASP:H	2	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2180)	1:109:A:ALA:HA	1:112:A:LYS:HD2	2	0.26
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD13	2	0.26
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	3	0.26
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	4	0.26
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	7	0.26
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	9	0.26
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	11	0.26
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	20	0.26
(3,2145)	1:107:A:LEU:HD22	1:125:A:PHE:HA	9	0.26
(3,2092)	1:110:A:ILE:HD12	1:111:A:SER:HB2	3	0.26
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG21	1	0.26
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG22	5	0.26
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG22	6	0.26
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG21	20	0.26
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG13	12	0.26
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB3	5	0.26
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	5	0.26
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	7	0.26
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB2	1	0.26
(3,2051)	1:101:A:VAL:HA	1:102:A:LYS:HB2	9	0.26
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	9	0.26
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	1	0.26
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	6	0.26
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	10	0.26
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	11	0.26
(3,2023)	1:99:A:TYR:HD2	1:113:A:GLN:HG3	18	0.26
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG12	6	0.26
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	4	0.26
(3,1929)	1:35:A:LEU:H	1:35:A:LEU:HG	2	0.26
(3,1929)	1:35:A:LEU:H	1:35:A:LEU:HG	5	0.26
(3,1869)	1:82:A:SER:H	1:82:A:SER:HB3	17	0.26
(3,1869)	1:82:A:SER:H	1:82:A:SER:HB3	20	0.26
(3,1867)	1:54:A:LYS:HA	1:82:A:SER:HB2	14	0.26
(3,1850)	1:54:A:LYS:HD3	1:82:A:SER:HB3	13	0.26
(3,1836)	1:97:A:GLN:HB2	1:97:A:GLN:HG3	3	0.26
(3,1836)	1:97:A:GLN:HB2	1:97:A:GLN:HG3	4	0.26
(3,1826)	1:112:A:LYS:HB3	1:112:A:LYS:HE3	11	0.26
(3,1818)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	20	0.26
(3,1803)	1:6:A:PHE:HZ	1:72:A:VAL:HA	5	0.26
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	7	0.26
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	7	0.26
(3,1766)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1726)	1:132:A:LEU:HD22	1:135:A:PRO:HA	14	0.26
(3,1721)	1:101:A:VAL:HA	1:102:A:LYS:HG2	16	0.26
(3,1712)	1:57:A:VAL:HG22	1:84:A:ASP:H	6	0.26
(3,1676)	1:50:A:ILE:HG21	1:51:A:ALA:HA	20	0.26
(3,1637)	1:91:A:THR:HG21	1:92:A:PRO:HD2	13	0.26
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG12	4	0.26
(3,1606)	1:17:A:ALA:HB3	1:79:A:GLY:HA3	10	0.26
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	6	0.26
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	6	0.26
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	6	0.26
(3,1500)	1:115:A:TYR:HE1	1:148:A:GLU:HA	14	0.26
(3,1500)	1:115:A:TYR:HE2	1:148:A:GLU:HA	14	0.26
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD13	20	0.26
(3,1478)	1:134:A:SER:HB3	1:137:A:LYS:H	16	0.26
(3,1469)	1:107:A:LEU:HA	1:121:A:TYR:HB2	13	0.26
(3,1426)	1:62:A:LEU:HD21	1:66:A:ALA:HB3	4	0.26
(3,1421)	1:24:A:LYS:HA	1:50:A:ILE:HB	7	0.26
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	18	0.26
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	2	0.26
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG22	9	0.26
(3,1336)	1:72:A:VAL:HG11	1:73:A:ALA:H	15	0.26
(3,1336)	1:72:A:VAL:HG12	1:73:A:ALA:H	15	0.26
(3,1336)	1:72:A:VAL:HG13	1:73:A:ALA:H	15	0.26
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	11	0.26
(3,1294)	1:71:A:LEU:HD21	1:83:A:VAL:HG11	4	0.26
(3,1294)	1:31:A:VAL:HG12	1:35:A:LEU:HD13	15	0.26
(3,1275)	1:6:A:PHE:HA	1:143:A:VAL:HG13	13	0.26
(3,1269)	1:31:A:VAL:HG22	1:50:A:ILE:HD13	11	0.26
(3,1257)	1:120:A:LEU:HD11	1:123:A:LYS:HG3	11	0.26
(3,1257)	1:120:A:LEU:HD12	1:123:A:LYS:HG3	11	0.26
(3,1257)	1:120:A:LEU:HD13	1:123:A:LYS:HG3	11	0.26
(3,1257)	1:120:A:LEU:HD21	1:123:A:LYS:HG3	11	0.26
(3,1257)	1:120:A:LEU:HD22	1:123:A:LYS:HG3	11	0.26
(3,1257)	1:120:A:LEU:HD23	1:123:A:LYS:HG3	11	0.26
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	11	0.26
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	4	0.26
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	4	0.26
(3,1174)	1:88:A:LYS:HB2	1:88:A:LYS:HE3	11	0.26
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	3	0.26
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	3	0.26
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	11	0.26
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	11	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1138)	1:123:A:LYS:HA	1:123:A:LYS:HG3	12	0.26
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	11	0.26
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	19	0.26
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	19	0.26
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	19	0.26
(3,1024)	1:100:A:THR:HG21	1:141:A:GLY:HA3	20	0.26
(3,1024)	1:100:A:THR:HG22	1:141:A:GLY:HA3	20	0.26
(3,1024)	1:100:A:THR:HG23	1:141:A:GLY:HA3	20	0.26
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG11	8	0.26
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG13	9	0.26
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG12	16	0.26
(3,1010)	1:127:A:ALA:HB3	1:128:A:ASN:HA	13	0.26
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG22	6	0.26
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG21	20	0.26
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	8	0.26
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	8	0.26
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	8	0.26
(3,949)	1:107:A:LEU:HD11	1:125:A:PHE:HB2	13	0.26
(3,949)	1:107:A:LEU:HD12	1:125:A:PHE:HB2	18	0.26
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	1	0.26
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	2	0.26
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	4	0.26
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	6	0.26
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	8	0.26
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	9	0.26
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	10	0.26
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	11	0.26
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	14	0.26
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	16	0.26
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	17	0.26
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	1	0.26
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	1	0.26
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	1	0.26
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	1	0.26
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	1	0.26
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	1	0.26
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	8	0.26
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	8	0.26
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	8	0.26
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	8	0.26
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	8	0.26
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,798)	1:117:A:ASN:HB2	1:120:A:LEU:HG	7	0.26
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	15	0.26
(3,764)	1:8:A:LYS:HA	1:8:A:LYS:HG2	20	0.26
(3,760)	1:8:A:LYS:HA	1:8:A:LYS:HG3	10	0.26
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	3	0.26
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	3	0.26
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	3	0.26
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	2	0.26
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	4	0.26
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	12	0.26
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	13	0.26
(3,540)	1:3:A:LEU:HB3	1:3:A:LEU:HD23	18	0.26
(3,470)	1:6:A:PHE:HD2	1:143:A:VAL:HB	3	0.26
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	2	0.26
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE3	2	0.26
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	2	0.26
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	6	0.26
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	16	0.26
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	18	0.26
(3,249)	1:62:A:LEU:HD21	1:63:A:SER:H	3	0.26
(3,236)	1:30:A:LYS:H	1:30:A:LYS:HD3	5	0.26
(3,234)	1:29:A:LYS:H	1:29:A:LYS:HE3	13	0.26
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	3	0.26
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	16	0.26
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	9	0.26
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	9	0.26
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	11	0.26
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	20	0.26
(3,166)	1:92:A:PRO:HA	1:92:A:PRO:HB2	2	0.26
(3,166)	1:92:A:PRO:HA	1:92:A:PRO:HB2	18	0.26
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	15	0.26
(3,113)	1:74:A:VAL:HG11	1:75:A:GLY:H	15	0.26
(3,113)	1:74:A:VAL:HG12	1:75:A:GLY:H	19	0.26
(3,77)	1:57:A:VAL:HG13	1:58:A:THR:H	4	0.26
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	6	0.26
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	6	0.26
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	6	0.26
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	18	0.26
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	18	0.26
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	18	0.26
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	20	0.26
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	20	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	20	0.26
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	20	0.26
(3,63)	1:48:A:ILE:HG13	1:49:A:GLN:H	5	0.26
(3,14)	1:144:A:LEU:HB2	1:145:A:ARG:H	19	0.26
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	15	0.26
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	8	0.26
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	11	0.26
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	17	0.26
(1,2025)	1:63:A:SER:H	1:63:A:SER:HB2	12	0.26
(1,1952)	1:85:A:ASP:H	1:86:A:GLN:HE22	10	0.26
(1,1938)	1:52:A:ASP:HB3	1:53:A:GLY:H	18	0.26
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	13	0.26
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	18	0.26
(1,1846)	1:105:A:ASP:HB2	1:106:A:THR:H	3	0.26
(1,1846)	1:105:A:ASP:HB2	1:106:A:THR:H	4	0.26
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	12	0.26
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	5	0.26
(1,1688)	1:57:A:VAL:H	1:86:A:GLN:HE22	1	0.26
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	14	0.26
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	3	0.26
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	13	0.26
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	13	0.26
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	15	0.26
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	15	0.26
(1,1566)	1:150:A:LEU:H	1:151:A:GLU:HB2	18	0.26
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	16	0.26
(1,1529)	1:33:A:GLU:HA	1:36:A:ASN:HD22	17	0.26
(1,1490)	1:72:A:VAL:HG13	1:143:A:VAL:H	6	0.26
(1,1476)	1:139:A:TYR:HD2	1:142:A:GLN:H	17	0.26
(1,1406)	1:121:A:TYR:HD2	1:136:A:ASP:H	20	0.26
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	18	0.26
(1,1334)	1:129:A:LYS:H	1:144:A:LEU:HD11	13	0.26
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE3	1	0.26
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	12	0.26
(1,1292)	1:72:A:VAL:HG21	1:127:A:ALA:H	17	0.26
(1,1290)	1:124:A:ILE:HD13	1:127:A:ALA:H	3	0.26
(1,1290)	1:124:A:ILE:HD12	1:127:A:ALA:H	11	0.26
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG22	7	0.26
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	6	0.26
(1,885)	1:8:A:LYS:HG3	1:80:A:ILE:H	19	0.26
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	17	0.26
(1,842)	1:77:A:ILE:H	1:143:A:VAL:HB	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,804)	1:35:A:LEU:HD21	1:74:A:VAL:H	11	0.26
(1,800)	1:72:A:VAL:HG12	1:73:A:ALA:H	4	0.26
(1,750)	1:71:A:LEU:H	1:98:A:PHE:HE2	8	0.26
(1,732)	1:40:A:ILE:HG22	1:69:A:LYS:H	3	0.26
(1,723)	1:69:A:LYS:H	1:69:A:LYS:HE2	12	0.26
(1,693)	1:64:A:GLN:HG3	1:67:A:LYS:H	10	0.26
(1,673)	1:65:A:GLU:HB2	1:66:A:ALA:H	10	0.26
(1,609)	1:59:A:GLY:H	1:88:A:LYS:HB2	12	0.26
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	18	0.26
(1,509)	1:50:A:ILE:H	1:50:A:ILE:HD13	18	0.26
(1,459)	1:45:A:LYS:HD3	1:46:A:VAL:H	15	0.26
(1,454)	1:45:A:LYS:H	1:45:A:LYS:HD2	6	0.26
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB1	16	0.26
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	1	0.26
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	10	0.26
(1,305)	1:33:A:GLU:H	1:48:A:ILE:HD13	10	0.26
(1,294)	1:31:A:VAL:HG21	1:32:A:GLN:H	19	0.26
(1,293)	1:32:A:GLN:H	1:48:A:ILE:HG13	5	0.26
(1,293)	1:32:A:GLN:H	1:48:A:ILE:HG13	13	0.26
(1,271)	1:30:A:LYS:HG3	1:31:A:VAL:H	3	0.26
(1,268)	1:30:A:LYS:H	1:31:A:VAL:HG13	3	0.26
(1,246)	1:29:A:LYS:H	1:30:A:LYS:HD2	11	0.26
(1,246)	1:29:A:LYS:H	1:30:A:LYS:HD2	14	0.26
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB2	12	0.26
(1,133)	1:7:A:VAL:H	1:10:A:ALA:H	17	0.26
(1,83)	1:6:A:PHE:H	1:98:A:PHE:HB3	7	0.26
(1,49)	1:82:A:SER:HB2	1:83:A:VAL:H	17	0.26
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	2	0.25
(3,2914)	1:13:A:LYS:HA	1:13:A:LYS:HG3	14	0.25
(3,2868)	1:21:A:GLN:HA	1:21:A:GLN:HG3	12	0.25
(3,2868)	1:21:A:GLN:HA	1:21:A:GLN:HG2	12	0.25
(3,2847)	1:63:A:SER:HB3	1:64:A:GLN:H	12	0.25
(3,2799)	1:139:A:TYR:HE1	1:142:A:GLN:HE21	11	0.25
(3,2799)	1:139:A:TYR:HE2	1:142:A:GLN:HE21	11	0.25
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	1	0.25
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	1	0.25
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	1	0.25
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	9	0.25
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	9	0.25
(3,2516)	1:110:A:ILE:HD13	1:111:A:SER:H	13	0.25
(3,2493)	1:31:A:VAL:HA	1:77:A:ILE:HD11	3	0.25
(3,2487)	1:35:A:LEU:HD22	1:43:A:ALA:HA	19	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	18	0.25
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	2	0.25
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	2	0.25
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	4	0.25
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	4	0.25
(3,2424)	1:114:A:VAL:HG11	1:146:A:ILE:HG12	6	0.25
(3,2407)	1:142:A:GLN:HB2	1:143:A:VAL:H	15	0.25
(3,2404)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	16	0.25
(3,2402)	1:71:A:LEU:HD21	1:98:A:PHE:HZ	15	0.25
(3,2396)	1:14:A:LEU:HD22	1:34:A:HIS:HE1	3	0.25
(3,2396)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	8	0.25
(3,2352)	1:38:A:THR:HG22	1:40:A:ILE:HD11	5	0.25
(3,2352)	1:38:A:THR:HG22	1:40:A:ILE:HD11	11	0.25
(3,2352)	1:38:A:THR:HG21	1:40:A:ILE:HD11	18	0.25
(3,2329)	1:49:A:GLN:HB2	1:56:A:THR:H	8	0.25
(3,2302)	1:144:A:LEU:HA	1:144:A:LEU:HD22	8	0.25
(3,2293)	1:19:A:THR:HG21	1:20:A:GLY:H	9	0.25
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	8	0.25
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD11	4	0.25
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	9	0.25
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	14	0.25
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	7	0.25
(3,2190)	1:54:A:LYS:H	1:54:A:LYS:HG3	5	0.25
(3,2168)	1:124:A:ILE:HG21	1:128:A:ASN:HB2	19	0.25
(3,2164)	1:80:A:ILE:HG21	1:83:A:VAL:HA	10	0.25
(3,2157)	1:72:A:VAL:HA	1:75:A:GLY:H	8	0.25
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	1	0.25
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	2	0.25
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	5	0.25
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	8	0.25
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	10	0.25
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	12	0.25
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	14	0.25
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	15	0.25
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	17	0.25
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	18	0.25
(3,2145)	1:107:A:LEU:HD21	1:125:A:PHE:HA	4	0.25
(3,2130)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	6	0.25
(3,2129)	1:121:A:TYR:HD2	1:122:A:ASN:HB3	6	0.25
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG23	7	0.25
(3,2085)	1:110:A:ILE:HG13	1:110:A:ILE:HG22	7	0.25
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG11	5	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2059)	1:51:A:ALA:H	1:54:A:LYS:HG2	4	0.25
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	6	0.25
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	20	0.25
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	14	0.25
(3,1997)	1:58:A:THR:HG21	1:88:A:LYS:HE2	19	0.25
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	6	0.25
(3,1993)	1:107:A:LEU:HG	1:121:A:TYR:HB2	3	0.25
(3,1982)	1:138:A:ILE:HG21	1:144:A:LEU:HD13	8	0.25
(3,1978)	1:57:A:VAL:H	1:83:A:VAL:HG13	8	0.25
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG3	20	0.25
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG2	20	0.25
(3,1932)	1:30:A:LYS:HE3	1:30:A:LYS:HG3	6	0.25
(3,1932)	1:30:A:LYS:HE3	1:30:A:LYS:HG3	17	0.25
(3,1923)	1:77:A:ILE:HG21	1:80:A:ILE:HB	1	0.25
(3,1872)	1:137:A:LYS:H	1:138:A:ILE:HG21	7	0.25
(3,1869)	1:82:A:SER:H	1:82:A:SER:HB3	11	0.25
(3,1867)	1:5:A:ASN:HA	1:82:A:SER:HB2	10	0.25
(3,1848)	1:54:A:LYS:HD3	1:82:A:SER:HB2	11	0.25
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG22	17	0.25
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG21	20	0.25
(3,1836)	1:97:A:GLN:HB2	1:97:A:GLN:HG3	13	0.25
(3,1836)	1:97:A:GLN:HB2	1:97:A:GLN:HG3	15	0.25
(3,1836)	1:148:A:GLU:HB3	1:148:A:GLU:HG2	16	0.25
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	11	0.25
(3,1818)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	4	0.25
(3,1808)	1:63:A:SER:HB3	1:65:A:GLU:H	16	0.25
(3,1766)	1:59:A:GLY:HA2	1:60:A:ASP:HB3	1	0.25
(3,1763)	1:31:A:VAL:HG13	1:32:A:GLN:HA	16	0.25
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	1	0.25
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	16	0.25
(3,1712)	1:57:A:VAL:HG22	1:84:A:ASP:H	17	0.25
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD13	13	0.25
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG13	4	0.25
(3,1676)	1:50:A:ILE:HG21	1:51:A:ALA:HA	12	0.25
(3,1676)	1:50:A:ILE:HG21	1:51:A:ALA:HA	18	0.25
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD11	5	0.25
(3,1635)	1:100:A:THR:HG23	1:141:A:GLY:HA2	8	0.25
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG11	14	0.25
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG21	18	0.25
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	11	0.25
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	11	0.25
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	11	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	14	0.25
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	14	0.25
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	14	0.25
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	16	0.25
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	16	0.25
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	16	0.25
(3,1555)	1:40:A:ILE:HG22	1:73:A:ALA:HB2	7	0.25
(3,1530)	1:124:A:ILE:HG12	1:146:A:ILE:HD13	17	0.25
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	6	0.25
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	6	0.25
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	6	0.25
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	15	0.25
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	15	0.25
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	15	0.25
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	10	0.25
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	10	0.25
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	10	0.25
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	6	0.25
(3,1469)	1:107:A:LEU:HA	1:121:A:TYR:HB2	18	0.25
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	2	0.25
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	19	0.25
(3,1397)	1:29:A:LYS:HG2	1:33:A:GLU:HG3	13	0.25
(3,1353)	1:97:A:GLN:HG2	1:146:A:ILE:HG23	4	0.25
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG21	6	0.25
(3,1341)	1:60:A:ASP:H	1:87:A:VAL:HG23	20	0.25
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	4	0.25
(3,1317)	1:58:A:THR:HA	1:87:A:VAL:HG13	19	0.25
(3,1268)	1:31:A:VAL:HG11	1:31:A:VAL:HG21	10	0.25
(3,1223)	1:25:A:ASP:HB2	1:28:A:ALA:HB2	16	0.25
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	16	0.25
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	3	0.25
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	3	0.25
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	18	0.25
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	18	0.25
(3,1157)	1:122:A:ASN:HD21	1:123:A:LYS:HG3	13	0.25
(3,1155)	1:24:A:LYS:HA	1:27:A:GLN:H	4	0.25
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	15	0.25
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	7	0.25
(3,1067)	1:55:A:ALA:HB3	1:83:A:VAL:HG22	19	0.25
(3,1059)	1:103:A:SER:HB2	1:140:A:PRO:HG3	13	0.25
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	3	0.25
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	4	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	11	0.25
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	8	0.25
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	8	0.25
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	8	0.25
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG12	6	0.25
(3,1010)	1:127:A:ALA:HB1	1:128:A:ASN:HA	15	0.25
(3,997)	1:124:A:ILE:HA	1:127:A:ALA:HB3	7	0.25
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG21	2	0.25
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG23	8	0.25
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG21	14	0.25
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG22	12	0.25
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	1	0.25
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	1	0.25
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	1	0.25
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	12	0.25
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	12	0.25
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	12	0.25
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	14	0.25
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	14	0.25
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	14	0.25
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	16	0.25
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	16	0.25
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	16	0.25
(3,938)	1:99:A:TYR:HD1	1:144:A:LEU:HD22	19	0.25
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD13	12	0.25
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	3	0.25
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	5	0.25
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	12	0.25
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	13	0.25
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	15	0.25
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	19	0.25
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	20	0.25
(3,900)	1:149:A:GLU:HA	1:149:A:GLU:HG3	8	0.25
(3,887)	1:13:A:LYS:HA	1:14:A:LEU:HD21	17	0.25
(3,867)	1:4:A:PHE:HB3	1:83:A:VAL:HB	11	0.25
(3,867)	1:4:A:PHE:HB2	1:83:A:VAL:HB	11	0.25
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD21	10	0.25
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD22	10	0.25
(3,860)	1:12:A:GLU:HG3	1:14:A:LEU:HD23	10	0.25
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD21	10	0.25
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD22	10	0.25
(3,860)	1:12:A:GLU:HG2	1:14:A:LEU:HD23	10	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	3	0.25
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	3	0.25
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	3	0.25
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	16	0.25
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	16	0.25
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	16	0.25
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	17	0.25
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	6	0.25
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	16	0.25
(3,764)	1:8:A:LYS:HA	1:8:A:LYS:HG2	4	0.25
(3,764)	1:69:A:LYS:HA	1:69:A:LYS:HG2	17	0.25
(3,751)	1:12:A:GLU:HB3	1:14:A:LEU:HD21	13	0.25
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG22	12	0.25
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	17	0.25
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	12	0.25
(3,663)	1:126:A:GLU:HA	1:129:A:LYS:HE2	18	0.25
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	13	0.25
(3,659)	1:129:A:LYS:HE2	1:130:A:PRO:HA	7	0.25
(3,630)	1:24:A:LYS:HB2	1:25:A:ASP:HB3	7	0.25
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	10	0.25
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	16	0.25
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	4	0.25
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	18	0.25
(3,540)	1:150:A:LEU:HB2	1:150:A:LEU:HD22	9	0.25
(3,540)	1:3:A:LEU:HB3	1:3:A:LEU:HD13	13	0.25
(3,431)	1:99:A:TYR:HD1	1:144:A:LEU:HD21	15	0.25
(3,417)	1:131:A:MET:HE3	1:132:A:LEU:H	15	0.25
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	16	0.25
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	16	0.25
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	4	0.25
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	18	0.25
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE3	3	0.25
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	1	0.25
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	7	0.25
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	12	0.25
(3,249)	1:62:A:LEU:HD22	1:63:A:SER:H	5	0.25
(3,236)	1:30:A:LYS:H	1:30:A:LYS:HD3	15	0.25
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	17	0.25
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	1	0.25
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	4	0.25
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	5	0.25
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	10	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	4	0.25
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	5	0.25
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	6	0.25
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	8	0.25
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	10	0.25
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	12	0.25
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	15	0.25
(3,166)	1:92:A:PRO:HA	1:92:A:PRO:HB2	5	0.25
(3,166)	1:92:A:PRO:HA	1:92:A:PRO:HB2	8	0.25
(3,166)	1:92:A:PRO:HA	1:92:A:PRO:HB2	16	0.25
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	11	0.25
(3,164)	1:92:A:PRO:HA	1:92:A:PRO:HG2	17	0.25
(3,107)	1:67:A:LYS:HG2	1:68:A:GLU:H	12	0.25
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	1	0.25
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	1	0.25
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	1	0.25
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	14	0.25
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	14	0.25
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	14	0.25
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD11	16	0.25
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD12	16	0.25
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD13	16	0.25
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD12	12	0.25
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD11	15	0.25
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD11	18	0.25
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	7	0.25
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	5	0.25
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	7	0.25
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB3	9	0.25
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB2	9	0.25
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	4	0.25
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	6	0.25
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	9	0.25
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	18	0.25
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	19	0.25
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	20	0.25
(1,2025)	1:63:A:SER:H	1:63:A:SER:HB2	8	0.25
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	11	0.25
(1,1810)	1:147:A:PRO:HG3	1:148:A:GLU:H	5	0.25
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	15	0.25
(1,1761)	1:97:A:GLN:H	1:146:A:ILE:HD12	9	0.25
(1,1761)	1:97:A:GLN:H	1:146:A:ILE:HD13	17	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	7	0.25
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	8	0.25
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	9	0.25
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	13	0.25
(1,1704)	1:15:A:TRP:HZ3	1:77:A:ILE:H	3	0.25
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	6	0.25
(1,1662)	1:42:A:ASP:H	1:66:A:ALA:HB3	10	0.25
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG23	11	0.25
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	15	0.25
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	7	0.25
(1,1534)	1:76:A:ASN:HD22	1:143:A:VAL:HB	3	0.25
(1,1488)	1:7:A:VAL:HG22	1:143:A:VAL:H	3	0.25
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	2	0.25
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	16	0.25
(1,1464)	1:138:A:ILE:HB	1:142:A:GLN:H	18	0.25
(1,1412)	1:137:A:LYS:H	1:138:A:ILE:HG12	6	0.25
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	4	0.25
(1,1398)	1:136:A:ASP:H	1:137:A:LYS:HD2	7	0.25
(1,1358)	1:73:A:ALA:HB2	1:131:A:MET:H	9	0.25
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE1	20	0.25
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE2	20	0.25
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE3	20	0.25
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD11	7	0.25
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	14	0.25
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	17	0.25
(1,1275)	1:125:A:PHE:HB2	1:126:A:GLU:H	12	0.25
(1,1217)	1:118:A:ALA:HB1	1:120:A:LEU:H	5	0.25
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	3	0.25
(1,1074)	1:109:A:ALA:H	1:112:A:LYS:HB2	9	0.25
(1,1038)	1:101:A:VAL:H	1:102:A:LYS:HG2	15	0.25
(1,1025)	1:100:A:THR:H	1:101:A:VAL:HG21	12	0.25
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	11	0.25
(1,961)	1:87:A:VAL:H	1:88:A:LYS:HG3	9	0.25
(1,918)	1:3:A:LEU:HD12	1:82:A:SER:H	8	0.25
(1,881)	1:14:A:LEU:HD11	1:80:A:ILE:H	14	0.25
(1,881)	1:14:A:LEU:HD12	1:80:A:ILE:H	14	0.25
(1,881)	1:14:A:LEU:HD13	1:80:A:ILE:H	14	0.25
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	18	0.25
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB2	3	0.25
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG13	20	0.25
(1,724)	1:69:A:LYS:H	1:145:A:ARG:HD3	16	0.25
(1,723)	1:69:A:LYS:H	1:69:A:LYS:HE2	5	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,699)	1:62:A:LEU:HB2	1:67:A:LYS:H	4	0.25
(1,672)	1:62:A:LEU:HB2	1:66:A:ALA:H	10	0.25
(1,649)	1:59:A:GLY:HA3	1:62:A:LEU:H	4	0.25
(1,633)	1:61:A:GLY:H	1:62:A:LEU:HB2	19	0.25
(1,611)	1:59:A:GLY:H	1:88:A:LYS:HG2	1	0.25
(1,609)	1:59:A:GLY:H	1:88:A:LYS:HB2	15	0.25
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	5	0.25
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	16	0.25
(1,541)	1:54:A:LYS:H	1:80:A:ILE:HD13	16	0.25
(1,459)	1:45:A:LYS:HD3	1:46:A:VAL:H	7	0.25
(1,438)	1:44:A:ASP:H	1:44:A:ASP:HB2	2	0.25
(1,344)	1:124:A:ILE:HG13	1:125:A:PHE:H	18	0.25
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	6	0.25
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	14	0.25
(1,304)	1:40:A:ILE:HD11	1:132:A:LEU:H	10	0.25
(1,294)	1:31:A:VAL:HG23	1:32:A:GLN:H	12	0.25
(1,272)	1:30:A:LYS:HG2	1:31:A:VAL:H	19	0.25
(1,271)	1:30:A:LYS:HD2	1:31:A:VAL:H	8	0.25
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB2	14	0.25
(1,260)	1:26:A:ASP:HB3	1:30:A:LYS:H	11	0.25
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	11	0.25
(1,246)	1:29:A:LYS:H	1:29:A:LYS:HD2	17	0.25
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	3	0.25
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	7	0.25
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB2	19	0.25
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	16	0.25
(1,192)	1:14:A:LEU:HG	1:15:A:TRP:H	9	0.25
(1,192)	1:14:A:LEU:HG	1:15:A:TRP:H	14	0.25
(1,187)	1:15:A:TRP:H	1:30:A:LYS:HG3	7	0.25
(1,184)	1:13:A:LYS:HE2	1:15:A:TRP:H	20	0.25
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	3	0.25
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	3	0.25
(1,136)	1:12:A:GLU:H	1:77:A:ILE:HG13	15	0.25
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	16	0.24
(3,2799)	1:139:A:TYR:HE1	1:142:A:GLN:HE21	20	0.24
(3,2799)	1:139:A:TYR:HE2	1:142:A:GLN:HE21	20	0.24
(3,2759)	1:151:A:GLU:HA	1:151:A:GLU:HG2	8	0.24
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	13	0.24
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	13	0.24
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	6	0.24
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	6	0.24
(3,2549)	1:132:A:LEU:HD11	1:142:A:GLN:HE21	11	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2549)	1:132:A:LEU:HD12	1:142:A:GLN:HE21	11	0.24
(3,2549)	1:132:A:LEU:HD13	1:142:A:GLN:HE21	11	0.24
(3,2516)	1:110:A:ILE:HD12	1:111:A:SER:H	15	0.24
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD11	1	0.24
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	10	0.24
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	10	0.24
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	10	0.24
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	12	0.24
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	12	0.24
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	12	0.24
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	16	0.24
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	19	0.24
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	10	0.24
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD21	4	0.24
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD22	4	0.24
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD23	4	0.24
(3,2465)	1:110:A:ILE:HD12	1:144:A:LEU:H	2	0.24
(3,2463)	1:81:A:ALA:H	1:82:A:SER:HB3	10	0.24
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	1	0.24
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	1	0.24
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	13	0.24
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	13	0.24
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	3	0.24
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	17	0.24
(3,2404)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	11	0.24
(3,2396)	1:14:A:LEU:HD22	1:34:A:HIS:HE1	20	0.24
(3,2335)	1:67:A:LYS:HE2	1:68:A:GLU:HG3	9	0.24
(3,2321)	1:40:A:ILE:HD12	1:131:A:MET:HG3	6	0.24
(3,2305)	1:144:A:LEU:HB2	1:144:A:LEU:HD21	6	0.24
(3,2305)	1:144:A:LEU:HB2	1:144:A:LEU:HD22	6	0.24
(3,2305)	1:144:A:LEU:HB2	1:144:A:LEU:HD23	6	0.24
(3,2305)	1:144:A:LEU:HB2	1:144:A:LEU:HD21	20	0.24
(3,2305)	1:144:A:LEU:HB2	1:144:A:LEU:HD22	20	0.24
(3,2305)	1:144:A:LEU:HB2	1:144:A:LEU:HD23	20	0.24
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	7	0.24
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	9	0.24
(3,2168)	1:124:A:ILE:HG21	1:128:A:ASN:HB2	11	0.24
(3,2168)	1:124:A:ILE:HG21	1:128:A:ASN:HB2	14	0.24
(3,2164)	1:80:A:ILE:HG21	1:83:A:VAL:HA	11	0.24
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	19	0.24
(3,2144)	1:115:A:TYR:HE1	1:120:A:LEU:HD22	14	0.24
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HG3	9	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	14	0.24
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	14	0.24
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	17	0.24
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	17	0.24
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	2	0.24
(3,2092)	1:110:A:ILE:HD12	1:111:A:SER:HB2	4	0.24
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG12	3	0.24
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	4	0.24
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	7	0.24
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	12	0.24
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD2	5	0.24
(3,2045)	1:111:A:SER:HB3	1:120:A:LEU:HB2	15	0.24
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	4	0.24
(3,2004)	1:118:A:ALA:HA	1:118:A:ALA:HB2	15	0.24
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG11	8	0.24
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG11	14	0.24
(3,1993)	1:107:A:LEU:HG	1:121:A:TYR:HB2	4	0.24
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	8	0.24
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	19	0.24
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG3	3	0.24
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG2	3	0.24
(3,1869)	1:82:A:SER:H	1:82:A:SER:HB3	13	0.24
(3,1866)	1:5:A:ASN:HA	1:82:A:SER:HB3	11	0.24
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG22	7	0.24
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG22	11	0.24
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG22	13	0.24
(3,1836)	1:148:A:GLU:HB3	1:148:A:GLU:HG2	6	0.24
(3,1836)	1:148:A:GLU:HB3	1:148:A:GLU:HG2	17	0.24
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	9	0.24
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	15	0.24
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD11	15	0.24
(3,1766)	1:47:A:ASN:HB2	1:59:A:GLY:HA2	6	0.24
(3,1763)	1:31:A:VAL:HG13	1:32:A:GLN:HA	11	0.24
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	15	0.24
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	15	0.24
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	15	0.24
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	18	0.24
(3,1728)	1:132:A:LEU:HB3	1:132:A:LEU:HD22	5	0.24
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG11	12	0.24
(3,1682)	1:86:A:GLN:HA	1:86:A:GLN:HG2	12	0.24
(3,1676)	1:50:A:ILE:HG21	1:51:A:ALA:HA	1	0.24
(3,1637)	1:91:A:THR:HG23	1:92:A:PRO:HD2	4	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG21	10	0.24
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	15	0.24
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	15	0.24
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	15	0.24
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	17	0.24
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	17	0.24
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	17	0.24
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	3	0.24
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	3	0.24
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	3	0.24
(3,1555)	1:48:A:ILE:HG13	1:48:A:ILE:HG21	18	0.24
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	11	0.24
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	11	0.24
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	11	0.24
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD13	19	0.24
(3,1469)	1:107:A:LEU:HA	1:121:A:TYR:HB2	5	0.24
(3,1430)	1:131:A:MET:HE1	1:132:A:LEU:HD12	8	0.24
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	6	0.24
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	9	0.24
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	19	0.24
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	11	0.24
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	11	0.24
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD11	2	0.24
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD12	2	0.24
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD13	2	0.24
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	1	0.24
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	12	0.24
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	14	0.24
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	15	0.24
(3,1305)	1:31:A:VAL:HG21	1:77:A:ILE:HG12	2	0.24
(3,1305)	1:31:A:VAL:HG22	1:77:A:ILE:HG12	2	0.24
(3,1305)	1:31:A:VAL:HG23	1:77:A:ILE:HG12	2	0.24
(3,1297)	1:101:A:VAL:HG21	1:138:A:ILE:HB	15	0.24
(3,1294)	1:71:A:LEU:HD23	1:83:A:VAL:HG12	14	0.24
(3,1223)	1:25:A:ASP:HB3	1:28:A:ALA:HB2	14	0.24
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB2	13	0.24
(3,1185)	1:27:A:GLN:HB3	1:28:A:ALA:H	18	0.24
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	1	0.24
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	1	0.24
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	14	0.24
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	14	0.24
(3,1177)	1:38:A:THR:HB	1:130:A:PRO:HB2	18	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	11	0.24
(3,1091)	1:46:A:VAL:HG22	1:59:A:GLY:HA3	11	0.24
(3,1061)	1:13:A:LYS:HB3	1:78:A:SER:HB3	1	0.24
(3,1059)	1:103:A:SER:HB2	1:140:A:PRO:HG3	4	0.24
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	11	0.24
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	11	0.24
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	11	0.24
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	6	0.24
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	6	0.24
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	6	0.24
(3,994)	1:35:A:LEU:HD22	1:73:A:ALA:HB1	16	0.24
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG22	5	0.24
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG23	9	0.24
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG23	13	0.24
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	7	0.24
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	7	0.24
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	7	0.24
(3,925)	1:13:A:LYS:HG3	1:78:A:SER:HB3	19	0.24
(3,919)	1:121:A:TYR:HD2	1:122:A:ASN:HA	6	0.24
(3,906)	1:120:A:LEU:HD22	1:123:A:LYS:HE2	15	0.24
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	7	0.24
(3,903)	1:41:A:PRO:HA	1:41:A:PRO:HB2	18	0.24
(3,900)	1:149:A:GLU:HA	1:149:A:GLU:HB2	19	0.24
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	8	0.24
(3,807)	1:72:A:VAL:HG12	1:73:A:ALA:HA	11	0.24
(3,807)	1:72:A:VAL:HG13	1:73:A:ALA:HA	20	0.24
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	7	0.24
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	7	0.24
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	7	0.24
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	7	0.24
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	7	0.24
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	7	0.24
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	10	0.24
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	10	0.24
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	10	0.24
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	10	0.24
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	10	0.24
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	10	0.24
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	11	0.24
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	11	0.24
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	11	0.24
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	11	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	11	0.24
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	11	0.24
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	7	0.24
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	13	0.24
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	4	0.24
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	5	0.24
(3,765)	1:8:A:LYS:HA	1:8:A:LYS:HG2	10	0.24
(3,760)	1:8:A:LYS:HA	1:8:A:LYS:HG3	17	0.24
(3,733)	1:58:A:THR:HB	1:58:A:THR:HG22	19	0.24
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	14	0.24
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	16	0.24
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	12	0.24
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	1	0.24
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	13	0.24
(3,637)	1:6:A:PHE:HE1	1:83:A:VAL:HG22	17	0.24
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	13	0.24
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	14	0.24
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	4	0.24
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	6	0.24
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	11	0.24
(3,563)	1:107:A:LEU:HD21	1:125:A:PHE:H	12	0.24
(3,540)	1:150:A:LEU:HB2	1:150:A:LEU:HD22	17	0.24
(3,533)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	18	0.24
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	1	0.24
(3,419)	1:131:A:MET:HE1	1:144:A:LEU:HA	20	0.24
(3,410)	1:112:A:LYS:HA	1:118:A:ALA:HA	13	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	4	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	4	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	5	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	5	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	7	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	7	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	8	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	8	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	9	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	9	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	10	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	10	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	13	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	13	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	15	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	15	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	17	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	17	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	18	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	18	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	19	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	19	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	20	0.24
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	20	0.24
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB3	1	0.24
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE3	20	0.24
(3,315)	1:112:A:LYS:HD2	1:112:A:LYS:HG2	19	0.24
(3,261)	1:45:A:LYS:H	1:45:A:LYS:HB3	15	0.24
(3,237)	1:29:A:LYS:HA	1:29:A:LYS:HG3	19	0.24
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	2	0.24
(3,155)	1:49:A:GLN:H	1:49:A:GLN:HG3	14	0.24
(3,131)	1:121:A:TYR:HE2	1:135:A:PRO:HG3	1	0.24
(3,107)	1:67:A:LYS:HG2	1:68:A:GLU:H	20	0.24
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD23	19	0.24
(3,99)	1:70:A:ILE:H	1:70:A:ILE:HG12	8	0.24
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	4	0.24
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	4	0.24
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	4	0.24
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	10	0.24
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	10	0.24
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	10	0.24
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	11	0.24
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	11	0.24
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	11	0.24
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	17	0.24
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB1	1	0.24
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB2	1	0.24
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB3	1	0.24
(3,45)	1:88:A:LYS:H	1:88:A:LYS:HG2	18	0.24
(3,14)	1:144:A:LEU:HB2	1:145:A:ARG:H	7	0.24
(1,2426)	1:85:A:ASP:H	1:85:A:ASP:HB2	9	0.24
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	2	0.24
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	18	0.24
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	1	0.24
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	2	0.24
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	7	0.24
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	12	0.24
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	16	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2014)	1:49:A:GLN:H	1:49:A:GLN:HG3	2	0.24
(1,2014)	1:49:A:GLN:H	1:49:A:GLN:HG2	2	0.24
(1,1938)	1:52:A:ASP:HB3	1:53:A:GLY:H	15	0.24
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD3	11	0.24
(1,1846)	1:105:A:ASP:HB2	1:106:A:THR:H	7	0.24
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	11	0.24
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	6	0.24
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	20	0.24
(1,1696)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	14	0.24
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	16	0.24
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG21	19	0.24
(1,1600)	1:36:A:ASN:HD22	1:37:A:LYS:H	17	0.24
(1,1580)	1:57:A:VAL:H	1:86:A:GLN:HE22	2	0.24
(1,1571)	1:148:A:GLU:HG3	1:151:A:GLU:H	14	0.24
(1,1518)	1:145:A:ARG:H	1:147:A:PRO:HG3	1	0.24
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD21	10	0.24
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	12	0.24
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	4	0.24
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	6	0.24
(1,1457)	1:138:A:ILE:HD13	1:141:A:GLY:H	13	0.24
(1,1358)	1:130:A:PRO:HG3	1:131:A:MET:H	4	0.24
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	7	0.24
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	8	0.24
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD11	1	0.24
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD11	1	0.24
(1,1290)	1:124:A:ILE:HD11	1:127:A:ALA:H	2	0.24
(1,1290)	1:124:A:ILE:HD13	1:127:A:ALA:H	6	0.24
(1,1284)	1:127:A:ALA:H	1:147:A:PRO:HG3	20	0.24
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	20	0.24
(1,1277)	1:122:A:ASN:HB3	1:126:A:GLU:H	16	0.24
(1,1246)	1:107:A:LEU:HD23	1:123:A:LYS:H	14	0.24
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	13	0.24
(1,1163)	1:115:A:TYR:H	1:146:A:ILE:HB	16	0.24
(1,1149)	1:114:A:VAL:H	1:117:A:ASN:H	11	0.24
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	5	0.24
(1,961)	1:87:A:VAL:H	1:88:A:LYS:HG3	1	0.24
(1,949)	1:57:A:VAL:HB	1:86:A:GLN:H	2	0.24
(1,920)	1:83:A:VAL:HG22	1:84:A:ASP:H	5	0.24
(1,801)	1:74:A:VAL:H	1:74:A:VAL:HB	13	0.24
(1,800)	1:72:A:VAL:HG21	1:73:A:ALA:H	16	0.24
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE1	12	0.24
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG11	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,701)	1:62:A:LEU:HD12	1:67:A:LYS:H	8	0.24
(1,699)	1:67:A:LYS:H	1:67:A:LYS:HG3	20	0.24
(1,693)	1:64:A:GLN:HB2	1:67:A:LYS:H	3	0.24
(1,693)	1:64:A:GLN:HB2	1:67:A:LYS:H	14	0.24
(1,678)	1:66:A:ALA:H	1:69:A:LYS:HB2	1	0.24
(1,676)	1:64:A:GLN:HB2	1:66:A:ALA:H	7	0.24
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG11	10	0.24
(1,609)	1:59:A:GLY:H	1:88:A:LYS:HB2	19	0.24
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	6	0.24
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG13	2	0.24
(1,483)	1:46:A:VAL:HG23	1:47:A:ASN:H	15	0.24
(1,454)	1:45:A:LYS:H	1:45:A:LYS:HD2	9	0.24
(1,435)	1:44:A:ASP:H	1:45:A:LYS:HD2	12	0.24
(1,430)	1:44:A:ASP:H	1:70:A:ILE:HD12	14	0.24
(1,430)	1:44:A:ASP:H	1:70:A:ILE:HD11	20	0.24
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	8	0.24
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	9	0.24
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	12	0.24
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	18	0.24
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	20	0.24
(1,371)	1:36:A:ASN:H	1:40:A:ILE:HB	12	0.24
(1,344)	1:107:A:LEU:HD11	1:125:A:PHE:H	13	0.24
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	11	0.24
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	16	0.24
(1,309)	1:29:A:LYS:HE3	1:33:A:GLU:H	13	0.24
(1,288)	1:32:A:GLN:H	1:32:A:GLN:HG2	7	0.24
(1,280)	1:31:A:VAL:H	1:31:A:VAL:HB	9	0.24
(1,235)	1:27:A:GLN:HB3	1:28:A:ALA:H	13	0.24
(1,228)	1:24:A:LYS:HA	1:28:A:ALA:H	8	0.24
(1,195)	1:15:A:TRP:H	1:77:A:ILE:HG22	7	0.24
(1,195)	1:15:A:TRP:H	1:77:A:ILE:HG23	8	0.24
(1,192)	1:14:A:LEU:HG	1:15:A:TRP:H	10	0.24
(1,171)	1:14:A:LEU:H	1:78:A:SER:HB3	16	0.24
(1,109)	1:9:A:ASP:H	1:81:A:ALA:HB2	18	0.24
(1,109)	1:9:A:ASP:H	1:10:A:ALA:HB2	20	0.24
(1,49)	1:82:A:SER:HB2	1:83:A:VAL:H	7	0.24
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	6	0.23
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG11	12	0.23
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG12	12	0.23
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG13	12	0.23
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG11	17	0.23
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG12	17	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG13	17	0.23
(3,2596)	1:132:A:LEU:HD11	1:142:A:GLN:HE22	5	0.23
(3,2596)	1:132:A:LEU:HD12	1:142:A:GLN:HE22	5	0.23
(3,2596)	1:132:A:LEU:HD13	1:142:A:GLN:HE22	5	0.23
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	10	0.23
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	10	0.23
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	11	0.23
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	11	0.23
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	12	0.23
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	12	0.23
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	15	0.23
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	15	0.23
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	18	0.23
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	18	0.23
(3,2515)	1:99:A:TYR:HE1	1:110:A:ILE:HD12	13	0.23
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	1	0.23
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	1	0.23
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	1	0.23
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	5	0.23
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	5	0.23
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	5	0.23
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	8	0.23
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	8	0.23
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	8	0.23
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	5	0.23
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	17	0.23
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	6	0.23
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	11	0.23
(3,2477)	1:134:A:SER:HB3	1:136:A:ASP:H	7	0.23
(3,2464)	1:82:A:SER:HB2	1:84:A:ASP:H	18	0.23
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	7	0.23
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	7	0.23
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	16	0.23
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	16	0.23
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	19	0.23
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	19	0.23
(3,2436)	1:69:A:LYS:HA	1:69:A:LYS:HE3	9	0.23
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	16	0.23
(3,2352)	1:38:A:THR:HG21	1:40:A:ILE:HD13	13	0.23
(3,2304)	1:138:A:ILE:HB	1:144:A:LEU:HD22	9	0.23
(3,2304)	1:138:A:ILE:HB	1:144:A:LEU:HD22	12	0.23
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD13	7	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	7	0.23
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	20	0.23
(3,2250)	1:121:A:TYR:HD2	1:135:A:PRO:HG2	5	0.23
(3,2215)	1:125:A:PHE:HE2	1:132:A:LEU:HB3	19	0.23
(3,2214)	1:107:A:LEU:HD13	1:128:A:ASN:HD22	10	0.23
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG21	8	0.23
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG22	8	0.23
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG23	8	0.23
(3,2201)	1:41:A:PRO:HD2	1:130:A:PRO:HD2	20	0.23
(3,2188)	1:105:A:ASP:HA	1:109:A:ALA:HB1	12	0.23
(3,2171)	1:124:A:ILE:HB	1:125:A:PHE:HB3	14	0.23
(3,2170)	1:107:A:LEU:HD11	1:125:A:PHE:HB3	8	0.23
(3,2152)	1:41:A:PRO:HB3	1:41:A:PRO:HD3	13	0.23
(3,2145)	1:107:A:LEU:HD23	1:125:A:PHE:HA	15	0.23
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HG3	16	0.23
(3,2120)	1:7:A:VAL:HG13	1:139:A:TYR:HE2	20	0.23
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD23	1	0.23
(3,2087)	1:101:A:VAL:HG12	1:110:A:ILE:HG21	17	0.23
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG13	11	0.23
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG12	20	0.23
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB1	7	0.23
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB2	13	0.23
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	17	0.23
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD2	4	0.23
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG13	7	0.23
(3,1984)	1:38:A:THR:HG23	1:131:A:MET:HG2	4	0.23
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG3	17	0.23
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG2	17	0.23
(3,1920)	1:77:A:ILE:HG21	1:80:A:ILE:HG13	17	0.23
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	2	0.23
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	2	0.23
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	2	0.23
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	15	0.23
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	15	0.23
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	15	0.23
(3,1882)	1:63:A:SER:HB3	1:65:A:GLU:HB2	11	0.23
(3,1875)	1:72:A:VAL:HG21	1:145:A:ARG:HD2	18	0.23
(3,1872)	1:137:A:LYS:H	1:138:A:ILE:HG23	3	0.23
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG22	8	0.23
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG21	18	0.23
(3,1836)	1:148:A:GLU:HB2	1:148:A:GLU:HG3	9	0.23
(3,1836)	1:97:A:GLN:HB2	1:97:A:GLN:HG3	12	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1836)	1:97:A:GLN:HB2	1:97:A:GLN:HG3	19	0.23
(3,1836)	1:97:A:GLN:HB2	1:97:A:GLN:HG3	20	0.23
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	3	0.23
(3,1833)	1:77:A:ILE:HA	1:77:A:ILE:HG13	12	0.23
(3,1818)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	9	0.23
(3,1786)	1:128:A:ASN:H	1:132:A:LEU:HD11	16	0.23
(3,1763)	1:31:A:VAL:HG11	1:32:A:GLN:HA	8	0.23
(3,1762)	1:111:A:SER:HB3	1:121:A:TYR:HA	6	0.23
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	1	0.23
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	1	0.23
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	1	0.23
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	2	0.23
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	2	0.23
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	2	0.23
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	19	0.23
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	19	0.23
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	19	0.23
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	20	0.23
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	20	0.23
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	20	0.23
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	3	0.23
(3,1750)	1:128:A:ASN:HB2	1:144:A:LEU:HD11	12	0.23
(3,1738)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	10	0.23
(3,1676)	1:50:A:ILE:HG23	1:51:A:ALA:HA	6	0.23
(3,1676)	1:50:A:ILE:HG22	1:51:A:ALA:HA	7	0.23
(3,1637)	1:91:A:THR:HG21	1:92:A:PRO:HD2	15	0.23
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG22	9	0.23
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	1	0.23
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	1	0.23
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	1	0.23
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	16	0.23
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	16	0.23
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	16	0.23
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	7	0.23
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	7	0.23
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	7	0.23
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	9	0.23
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	9	0.23
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	9	0.23
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	11	0.23
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	11	0.23
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	11	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1557)	1:50:A:ILE:HG21	1:55:A:ALA:HB1	16	0.23
(3,1556)	1:40:A:ILE:HG21	1:43:A:ALA:HB2	18	0.23
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD13	9	0.23
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD12	11	0.23
(3,1426)	1:62:A:LEU:HD13	1:66:A:ALA:HB2	17	0.23
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	1	0.23
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	14	0.23
(3,1389)	1:33:A:GLU:HA	1:33:A:GLU:HG3	19	0.23
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	18	0.23
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	4	0.23
(3,1374)	1:32:A:GLN:HG2	1:48:A:ILE:H	9	0.23
(3,1374)	1:32:A:GLN:HG2	1:48:A:ILE:H	11	0.23
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	6	0.23
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	6	0.23
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	8	0.23
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	8	0.23
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	14	0.23
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	14	0.23
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG11	3	0.23
(3,1347)	1:115:A:TYR:HE1	1:149:A:GLU:HB3	15	0.23
(3,1347)	1:115:A:TYR:HE2	1:149:A:GLU:HB3	15	0.23
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG12	8	0.23
(3,1296)	1:87:A:VAL:HB	1:87:A:VAL:HG13	7	0.23
(3,1296)	1:87:A:VAL:HB	1:87:A:VAL:HG13	16	0.23
(3,1296)	1:87:A:VAL:HB	1:87:A:VAL:HG12	17	0.23
(3,1296)	1:87:A:VAL:HB	1:87:A:VAL:HG13	19	0.23
(3,1294)	1:31:A:VAL:HG13	1:77:A:ILE:HG13	5	0.23
(3,1219)	1:28:A:ALA:HB1	1:48:A:ILE:HA	8	0.23
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	10	0.23
(3,1185)	1:27:A:GLN:HB3	1:28:A:ALA:H	3	0.23
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	9	0.23
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	9	0.23
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	11	0.23
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	11	0.23
(3,1177)	1:38:A:THR:HB	1:130:A:PRO:HB2	2	0.23
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	10	0.23
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	20	0.23
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	3	0.23
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	3	0.23
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	3	0.23
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	15	0.23
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	15	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	15	0.23
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	10	0.23
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	10	0.23
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	10	0.23
(3,1010)	1:127:A:ALA:HB1	1:128:A:ASN:HA	6	0.23
(3,1010)	1:127:A:ALA:HB3	1:128:A:ASN:HA	16	0.23
(3,1009)	1:64:A:GLN:HE21	1:95:A:ALA:HB3	19	0.23
(3,994)	1:35:A:LEU:HD23	1:73:A:ALA:HB2	10	0.23
(3,994)	1:35:A:LEU:HD23	1:73:A:ALA:HB2	12	0.23
(3,952)	1:42:A:ASP:HB3	1:62:A:LEU:HD12	17	0.23
(3,948)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	4	0.23
(3,926)	1:35:A:LEU:HD22	1:43:A:ALA:HA	19	0.23
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB1	2	0.23
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB2	2	0.23
(3,845)	1:7:A:VAL:H	1:10:A:ALA:HB3	2	0.23
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB1	17	0.23
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB2	17	0.23
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB3	17	0.23
(3,774)	1:49:A:GLN:HB3	1:50:A:ILE:H	12	0.23
(3,774)	1:49:A:GLN:HB3	1:50:A:ILE:H	19	0.23
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	1	0.23
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	10	0.23
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	11	0.23
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	14	0.23
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	20	0.23
(3,748)	1:14:A:LEU:HD23	1:30:A:LYS:HB3	18	0.23
(3,731)	1:38:A:THR:HG23	1:131:A:MET:HA	2	0.23
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	6	0.23
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	5	0.23
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	5	0.23
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	19	0.23
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG22	11	0.23
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	8	0.23
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	12	0.23
(3,535)	1:62:A:LEU:HB3	1:66:A:ALA:HB2	2	0.23
(3,533)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	4	0.23
(3,533)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	17	0.23
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG21	1	0.23
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	2	0.23
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	8	0.23
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	6	0.23
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	11	0.23
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	11	0.23
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	12	0.23
(3,398)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	12	0.23
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	1	0.23
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	10	0.23
(3,363)	1:30:A:LYS:HA	1:30:A:LYS:HG3	18	0.23
(3,315)	1:13:A:LYS:HD2	1:13:A:LYS:HG2	6	0.23
(3,315)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	16	0.23
(3,313)	1:45:A:LYS:HA	1:45:A:LYS:HG2	8	0.23
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	9	0.23
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	4	0.23
(3,131)	1:121:A:TYR:HE2	1:135:A:PRO:HG3	11	0.23
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	9	0.23
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	9	0.23
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	9	0.23
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD12	11	0.23
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD13	5	0.23
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD12	10	0.23
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	10	0.23
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	15	0.23
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB1	6	0.23
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB2	6	0.23
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB3	6	0.23
(3,14)	1:144:A:LEU:HB2	1:145:A:ARG:H	17	0.23
(1,2592)	1:86:A:GLN:HE22	1:86:A:GLN:HG3	2	0.23
(1,2592)	1:86:A:GLN:HE22	1:86:A:GLN:HG2	2	0.23
(1,2476)	1:32:A:GLN:HA	1:32:A:GLN:HE22	20	0.23
(1,2279)	1:13:A:LYS:H	1:13:A:LYS:HG2	7	0.23
(1,2245)	1:151:A:GLU:H	1:151:A:GLU:HG3	6	0.23
(1,2070)	1:45:A:LYS:H	1:45:A:LYS:HB3	15	0.23
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	3	0.23
(1,2014)	1:49:A:GLN:H	1:49:A:GLN:HG3	12	0.23
(1,2014)	1:49:A:GLN:H	1:49:A:GLN:HG2	12	0.23
(1,1993)	1:150:A:LEU:HA	1:151:A:GLU:H	2	0.23
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	15	0.23
(1,1811)	1:148:A:GLU:H	1:149:A:GLU:HB3	1	0.23
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	13	0.23
(1,1662)	1:42:A:ASP:H	1:45:A:LYS:HG3	16	0.23
(1,1591)	1:117:A:ASN:HD22	1:120:A:LEU:HG	11	0.23
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	14	0.23
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	2	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	6	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	6	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	6	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	8	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	8	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	8	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	11	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	11	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	11	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	12	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	12	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	12	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	14	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	14	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	14	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	19	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	19	0.23
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	19	0.23
(1,1457)	1:138:A:ILE:HD13	1:141:A:GLY:H	11	0.23
(1,1448)	1:101:A:VAL:HB	1:141:A:GLY:H	17	0.23
(1,1359)	1:129:A:LYS:HD3	1:131:A:MET:H	20	0.23
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE1	15	0.23
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE2	15	0.23
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE3	15	0.23
(1,1352)	1:38:A:THR:HG22	1:131:A:MET:H	8	0.23
(1,1348)	1:128:A:ASN:HD22	1:129:A:LYS:H	15	0.23
(1,1313)	1:125:A:PHE:HD2	1:128:A:ASN:H	14	0.23
(1,1309)	1:127:A:ALA:H	1:128:A:ASN:HD22	15	0.23
(1,1288)	1:124:A:ILE:HG13	1:127:A:ALA:H	5	0.23
(1,1250)	1:124:A:ILE:H	1:128:A:ASN:HD22	7	0.23
(1,1217)	1:120:A:LEU:H	1:123:A:LYS:HG3	16	0.23
(1,1217)	1:120:A:LEU:H	1:123:A:LYS:HG3	17	0.23
(1,920)	1:83:A:VAL:HG21	1:84:A:ASP:H	8	0.23
(1,918)	1:3:A:LEU:HD11	1:82:A:SER:H	12	0.23
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	9	0.23
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	17	0.23
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	1	0.23
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	6	0.23
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE1	7	0.23
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG13	19	0.23
(1,758)	1:68:A:GLU:HG3	1:71:A:LEU:H	14	0.23
(1,712)	1:68:A:GLU:H	1:69:A:LYS:HE3	13	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,701)	1:62:A:LEU:HD22	1:67:A:LYS:H	15	0.23
(1,699)	1:67:A:LYS:H	1:67:A:LYS:HG2	6	0.23
(1,642)	1:62:A:LEU:H	1:88:A:LYS:HD3	4	0.23
(1,642)	1:62:A:LEU:H	1:88:A:LYS:HD2	4	0.23
(1,509)	1:50:A:ILE:H	1:50:A:ILE:HD12	10	0.23
(1,481)	1:47:A:ASN:H	1:58:A:THR:HG23	10	0.23
(1,481)	1:47:A:ASN:H	1:58:A:THR:HG23	12	0.23
(1,459)	1:45:A:LYS:HG3	1:46:A:VAL:H	4	0.23
(1,438)	1:44:A:ASP:H	1:44:A:ASP:HB2	6	0.23
(1,435)	1:44:A:ASP:H	1:45:A:LYS:HD2	4	0.23
(1,435)	1:44:A:ASP:H	1:45:A:LYS:HD2	6	0.23
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB3	8	0.23
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	1	0.23
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	4	0.23
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	10	0.23
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	11	0.23
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	14	0.23
(1,346)	1:124:A:ILE:HD11	1:125:A:PHE:H	9	0.23
(1,339)	1:125:A:PHE:H	1:135:A:PRO:HB3	10	0.23
(1,301)	1:129:A:LYS:HB2	1:132:A:LEU:H	4	0.23
(1,288)	1:32:A:GLN:H	1:32:A:GLN:HG3	5	0.23
(1,278)	1:14:A:LEU:HD11	1:31:A:VAL:H	9	0.23
(1,278)	1:14:A:LEU:HD12	1:31:A:VAL:H	9	0.23
(1,278)	1:14:A:LEU:HD13	1:31:A:VAL:H	9	0.23
(1,265)	1:30:A:LYS:H	1:30:A:LYS:HG2	16	0.23
(1,246)	1:29:A:LYS:H	1:29:A:LYS:HD3	13	0.23
(1,237)	1:24:A:LYS:HG2	1:28:A:ALA:H	14	0.23
(1,142)	1:12:A:GLU:H	1:77:A:ILE:HB	11	0.23
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	16	0.23
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	16	0.23
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG13	11	0.23
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	13	0.22
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	18	0.22
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	1	0.22
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	17	0.22
(3,2914)	1:13:A:LYS:HA	1:13:A:LYS:HG3	20	0.22
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	3	0.22
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	11	0.22
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	11	0.22
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	17	0.22
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	17	0.22
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	20	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	20	0.22
(3,2616)	1:132:A:LEU:HD21	1:142:A:GLN:HE21	11	0.22
(3,2616)	1:132:A:LEU:HD22	1:142:A:GLN:HE21	11	0.22
(3,2616)	1:132:A:LEU:HD23	1:142:A:GLN:HE21	11	0.22
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	2	0.22
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	2	0.22
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	4	0.22
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	4	0.22
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	7	0.22
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	7	0.22
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	13	0.22
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	13	0.22
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	14	0.22
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	14	0.22
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	11	0.22
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	11	0.22
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	11	0.22
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	13	0.22
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	13	0.22
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	13	0.22
(3,2495)	1:125:A:PHE:HD1	1:126:A:GLU:HA	4	0.22
(3,2493)	1:31:A:VAL:HA	1:77:A:ILE:HD12	7	0.22
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	2	0.22
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	3	0.22
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	15	0.22
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	2	0.22
(3,2463)	1:81:A:ALA:H	1:82:A:SER:HB3	9	0.22
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	6	0.22
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	6	0.22
(3,2407)	1:142:A:GLN:HB2	1:143:A:VAL:H	11	0.22
(3,2396)	1:14:A:LEU:HD22	1:34:A:HIS:HE1	9	0.22
(3,2352)	1:38:A:THR:HG23	1:40:A:ILE:HD13	3	0.22
(3,2341)	1:115:A:TYR:HE1	1:149:A:GLU:HG2	9	0.22
(3,2304)	1:138:A:ILE:HB	1:144:A:LEU:HD21	1	0.22
(3,2294)	1:19:A:THR:HG23	1:20:A:GLY:H	6	0.22
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	14	0.22
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD11	1	0.22
(3,2214)	1:128:A:ASN:HD22	1:132:A:LEU:HD12	14	0.22
(3,2214)	1:107:A:LEU:HD11	1:108:A:SER:H	20	0.22
(3,2188)	1:105:A:ASP:HA	1:109:A:ALA:HB3	17	0.22
(3,2180)	1:109:A:ALA:HA	1:112:A:LYS:HD2	18	0.22
(3,2144)	1:117:A:ASN:H	1:120:A:LEU:HD23	16	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	10	0.22
(3,2110)	1:13:A:LYS:HG3	1:14:A:LEU:H	11	0.22
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD22	7	0.22
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG13	9	0.22
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	20	0.22
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	4	0.22
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG22	20	0.22
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	16	0.22
(3,1979)	1:86:A:GLN:H	1:87:A:VAL:HG13	16	0.22
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	18	0.22
(3,1957)	1:128:A:ASN:HA	1:145:A:ARG:HB2	10	0.22
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG3	4	0.22
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG2	4	0.22
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG3	16	0.22
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG2	16	0.22
(3,1920)	1:77:A:ILE:HG21	1:80:A:ILE:HG13	4	0.22
(3,1920)	1:77:A:ILE:HG22	1:80:A:ILE:HG13	16	0.22
(3,1919)	1:14:A:LEU:HB2	1:77:A:ILE:HG21	5	0.22
(3,1882)	1:63:A:SER:HB3	1:65:A:GLU:HB2	19	0.22
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG21	10	0.22
(3,1836)	1:148:A:GLU:HB3	1:148:A:GLU:HG2	2	0.22
(3,1836)	1:148:A:GLU:HB3	1:148:A:GLU:HG2	8	0.22
(3,1836)	1:148:A:GLU:HB3	1:148:A:GLU:HG2	10	0.22
(3,1789)	1:3:A:LEU:HD13	1:82:A:SER:HA	9	0.22
(3,1787)	1:107:A:LEU:HD12	1:108:A:SER:HB3	13	0.22
(3,1763)	1:31:A:VAL:HG12	1:32:A:GLN:HA	13	0.22
(3,1762)	1:111:A:SER:HB3	1:121:A:TYR:HA	3	0.22
(3,1762)	1:111:A:SER:HB3	1:121:A:TYR:HA	19	0.22
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	17	0.22
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	17	0.22
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	17	0.22
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	18	0.22
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	18	0.22
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	18	0.22
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	18	0.22
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	18	0.22
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	18	0.22
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	5	0.22
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	9	0.22
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	11	0.22
(3,1738)	1:12:A:GLU:H	1:14:A:LEU:HD21	17	0.22
(3,1728)	1:132:A:LEU:HB3	1:132:A:LEU:HD21	20	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG11	19	0.22
(3,1686)	1:15:A:TRP:HZ3	1:30:A:LYS:HB3	13	0.22
(3,1685)	1:139:A:TYR:H	1:142:A:GLN:HG2	18	0.22
(3,1665)	1:31:A:VAL:HB	1:48:A:ILE:HD12	8	0.22
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG12	5	0.22
(3,1635)	1:100:A:THR:HG21	1:141:A:GLY:HA2	16	0.22
(3,1622)	1:150:A:LEU:HA	1:150:A:LEU:HB3	8	0.22
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	17	0.22
(3,1598)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	9	0.22
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	18	0.22
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	18	0.22
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	18	0.22
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	2	0.22
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	2	0.22
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	2	0.22
(3,1574)	1:146:A:ILE:HG21	1:147:A:PRO:HD3	5	0.22
(3,1574)	1:146:A:ILE:HG22	1:147:A:PRO:HD3	5	0.22
(3,1574)	1:146:A:ILE:HG23	1:147:A:PRO:HD3	5	0.22
(3,1556)	1:40:A:ILE:HG23	1:43:A:ALA:HB1	8	0.22
(3,1555)	1:48:A:ILE:HG13	1:48:A:ILE:HG23	20	0.22
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	2	0.22
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	2	0.22
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	2	0.22
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	8	0.22
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	8	0.22
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	8	0.22
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	18	0.22
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	18	0.22
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	18	0.22
(3,1468)	1:15:A:TRP:HE3	1:30:A:LYS:HD3	16	0.22
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	8	0.22
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	15	0.22
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	15	0.22
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	16	0.22
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	17	0.22
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG3	20	0.22
(3,1405)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	10	0.22
(3,1399)	1:29:A:LYS:HD2	1:33:A:GLU:HG2	13	0.22
(3,1397)	1:29:A:LYS:HG2	1:33:A:GLU:HG3	11	0.22
(3,1393)	1:96:A:SER:HA	1:148:A:GLU:HB2	10	0.22
(3,1333)	1:101:A:VAL:HG11	1:139:A:TYR:H	20	0.22
(3,1322)	1:74:A:VAL:HG23	1:75:A:GLY:H	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1313)	1:72:A:VAL:HG11	1:131:A:MET:HG3	16	0.22
(3,1305)	1:31:A:VAL:HG21	1:77:A:ILE:HG12	7	0.22
(3,1305)	1:31:A:VAL:HG22	1:77:A:ILE:HG12	7	0.22
(3,1305)	1:31:A:VAL:HG23	1:77:A:ILE:HG12	7	0.22
(3,1296)	1:87:A:VAL:HB	1:87:A:VAL:HG13	2	0.22
(3,1296)	1:87:A:VAL:HB	1:87:A:VAL:HG11	12	0.22
(3,1294)	1:31:A:VAL:HG11	1:35:A:LEU:HD12	2	0.22
(3,1275)	1:6:A:PHE:HA	1:143:A:VAL:HG11	3	0.22
(3,1275)	1:6:A:PHE:HA	1:143:A:VAL:HG13	15	0.22
(3,1275)	1:6:A:PHE:HA	1:143:A:VAL:HG11	16	0.22
(3,1257)	1:120:A:LEU:HD11	1:123:A:LYS:HG3	15	0.22
(3,1257)	1:120:A:LEU:HD12	1:123:A:LYS:HG3	15	0.22
(3,1257)	1:120:A:LEU:HD13	1:123:A:LYS:HG3	15	0.22
(3,1257)	1:120:A:LEU:HD21	1:123:A:LYS:HG3	15	0.22
(3,1257)	1:120:A:LEU:HD22	1:123:A:LYS:HG3	15	0.22
(3,1257)	1:120:A:LEU:HD23	1:123:A:LYS:HG3	15	0.22
(3,1230)	1:28:A:ALA:HB2	1:50:A:ILE:HG13	15	0.22
(3,1229)	1:28:A:ALA:HB3	1:48:A:ILE:HG23	4	0.22
(3,1228)	1:28:A:ALA:HB1	1:50:A:ILE:HG12	16	0.22
(3,1228)	1:28:A:ALA:HB2	1:50:A:ILE:HG12	16	0.22
(3,1228)	1:28:A:ALA:HB3	1:50:A:ILE:HG12	16	0.22
(3,1219)	1:28:A:ALA:HB1	1:48:A:ILE:HA	14	0.22
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	4	0.22
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	19	0.22
(3,1177)	1:113:A:GLN:HA	1:113:A:GLN:HG3	12	0.22
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	17	0.22
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	12	0.22
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	12	0.22
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	12	0.22
(3,1010)	1:127:A:ALA:HB2	1:128:A:ASN:HA	8	0.22
(3,994)	1:35:A:LEU:HD21	1:73:A:ALA:HB3	18	0.22
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG22	3	0.22
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG23	11	0.22
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG21	18	0.22
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	10	0.22
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	10	0.22
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	10	0.22
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	17	0.22
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	17	0.22
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	17	0.22
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	19	0.22
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	19	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	19	0.22
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	6	0.22
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	6	0.22
(3,867)	1:4:A:PHE:HB3	1:83:A:VAL:HB	12	0.22
(3,867)	1:4:A:PHE:HB2	1:83:A:VAL:HB	12	0.22
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB1	5	0.22
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB2	5	0.22
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB3	5	0.22
(3,817)	1:62:A:LEU:HA	1:63:A:SER:H	3	0.22
(3,807)	1:72:A:VAL:HG12	1:73:A:ALA:HA	8	0.22
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	9	0.22
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	9	0.22
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	9	0.22
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	9	0.22
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	9	0.22
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	9	0.22
(3,797)	1:8:A:LYS:HG2	1:9:A:ASP:HB2	19	0.22
(3,779)	1:12:A:GLU:H	1:12:A:GLU:HB3	3	0.22
(3,774)	1:49:A:GLN:HB3	1:50:A:ILE:H	8	0.22
(3,731)	1:38:A:THR:HG23	1:131:A:MET:HA	3	0.22
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	1	0.22
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	9	0.22
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	10	0.22
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	14	0.22
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	16	0.22
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	17	0.22
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	1	0.22
(3,675)	1:120:A:LEU:HD11	1:123:A:LYS:HE3	10	0.22
(3,675)	1:120:A:LEU:HD12	1:123:A:LYS:HE3	10	0.22
(3,675)	1:120:A:LEU:HD13	1:123:A:LYS:HE3	10	0.22
(3,675)	1:120:A:LEU:HD11	1:123:A:LYS:HE2	10	0.22
(3,675)	1:120:A:LEU:HD12	1:123:A:LYS:HE2	10	0.22
(3,675)	1:120:A:LEU:HD13	1:123:A:LYS:HE2	10	0.22
(3,675)	1:120:A:LEU:HD21	1:123:A:LYS:HE3	10	0.22
(3,675)	1:120:A:LEU:HD22	1:123:A:LYS:HE3	10	0.22
(3,675)	1:120:A:LEU:HD23	1:123:A:LYS:HE3	10	0.22
(3,675)	1:120:A:LEU:HD21	1:123:A:LYS:HE2	10	0.22
(3,675)	1:120:A:LEU:HD22	1:123:A:LYS:HE2	10	0.22
(3,675)	1:120:A:LEU:HD23	1:123:A:LYS:HE2	10	0.22
(3,657)	1:125:A:PHE:HE1	1:129:A:LYS:HE2	7	0.22
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	2	0.22
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	9	0.22
(3,587)	1:42:A:ASP:HA	1:45:A:LYS:HE2	15	0.22
(3,561)	1:107:A:LEU:HD22	1:138:A:ILE:H	16	0.22
(3,547)	1:88:A:LYS:HB2	1:88:A:LYS:HG3	14	0.22
(3,484)	1:107:A:LEU:HB3	1:121:A:TYR:HB3	13	0.22
(3,484)	1:107:A:LEU:HB3	1:121:A:TYR:HB2	13	0.22
(3,471)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	1	0.22
(3,442)	1:115:A:TYR:HE2	1:120:A:LEU:HB3	18	0.22
(3,431)	1:99:A:TYR:HD1	1:110:A:ILE:HG23	19	0.22
(3,410)	1:112:A:LYS:HA	1:118:A:ALA:HA	12	0.22
(3,406)	1:69:A:LYS:H	1:69:A:LYS:HG3	17	0.22
(3,383)	1:41:A:PRO:HB2	1:42:A:ASP:H	4	0.22
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	9	0.22
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	11	0.22
(3,363)	1:30:A:LYS:HA	1:30:A:LYS:HG3	3	0.22
(3,363)	1:30:A:LYS:HA	1:30:A:LYS:HG3	15	0.22
(3,317)	1:112:A:LYS:HA	1:112:A:LYS:HE3	7	0.22
(3,315)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	9	0.22
(3,306)	1:106:A:THR:H	1:106:A:THR:HG22	13	0.22
(3,278)	1:27:A:GLN:H	1:27:A:GLN:HG2	5	0.22
(3,278)	1:27:A:GLN:H	1:27:A:GLN:HG2	11	0.22
(3,264)	1:47:A:ASN:HB3	1:48:A:ILE:H	1	0.22
(3,264)	1:47:A:ASN:HB2	1:48:A:ILE:H	1	0.22
(3,264)	1:47:A:ASN:HB3	1:48:A:ILE:H	4	0.22
(3,264)	1:47:A:ASN:HB2	1:48:A:ILE:H	4	0.22
(3,236)	1:30:A:LYS:H	1:30:A:LYS:HD3	19	0.22
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	1	0.22
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	19	0.22
(3,125)	1:100:A:THR:HG21	1:142:A:GLN:H	20	0.22
(3,86)	1:65:A:GLU:H	1:65:A:GLU:HG2	5	0.22
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	8	0.22
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	8	0.22
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	8	0.22
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	12	0.22
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	12	0.22
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	12	0.22
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	19	0.22
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	19	0.22
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	19	0.22
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD13	12	0.22
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD12	13	0.22
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,63)	1:48:A:ILE:HG13	1:49:A:GLN:H	6	0.22
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD11	18	0.22
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD11	20	0.22
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB1	5	0.22
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB2	5	0.22
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB3	5	0.22
(3,20)	1:139:A:TYR:HD2	1:140:A:PRO:HD2	19	0.22
(3,5)	1:134:A:SER:HB2	1:135:A:PRO:HD2	2	0.22
(1,2481)	1:119:A:ASN:H	1:119:A:ASN:HD22	15	0.22
(1,1968)	1:14:A:LEU:HD22	1:30:A:LYS:H	5	0.22
(1,1925)	1:132:A:LEU:H	1:134:A:SER:H	14	0.22
(1,1898)	1:110:A:ILE:HG13	1:113:A:GLN:HE21	7	0.22
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	4	0.22
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	15	0.22
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	2	0.22
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	2	0.22
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	12	0.22
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	13	0.22
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	19	0.22
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	20	0.22
(1,1663)	1:42:A:ASP:H	1:45:A:LYS:HG2	8	0.22
(1,1642)	1:9:A:ASP:H	1:141:A:GLY:HA2	8	0.22
(1,1633)	1:117:A:ASN:HD21	1:119:A:ASN:HB3	4	0.22
(1,1603)	1:110:A:ILE:HB	1:113:A:GLN:HE21	8	0.22
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	1	0.22
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	1	0.22
(1,1551)	1:97:A:GLN:HE21	1:149:A:GLU:H	8	0.22
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	5	0.22
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	4	0.22
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	4	0.22
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	4	0.22
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	7	0.22
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	7	0.22
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	7	0.22
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	10	0.22
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	10	0.22
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	10	0.22
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	18	0.22
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	18	0.22
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	18	0.22
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	4	0.22
(1,1434)	1:101:A:VAL:HB	1:139:A:TYR:H	20	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1406)	1:125:A:PHE:HD2	1:136:A:ASP:H	15	0.22
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	17	0.22
(1,1352)	1:38:A:THR:HG21	1:131:A:MET:H	9	0.22
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE2	14	0.22
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE1	16	0.22
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD13	14	0.22
(1,1290)	1:124:A:ILE:HD12	1:127:A:ALA:H	1	0.22
(1,1282)	1:107:A:LEU:HD13	1:126:A:GLU:H	15	0.22
(1,1280)	1:126:A:GLU:H	1:132:A:LEU:HB3	15	0.22
(1,1217)	1:120:A:LEU:H	1:123:A:LYS:HG3	1	0.22
(1,1194)	1:112:A:LYS:HB3	1:117:A:ASN:H	2	0.22
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	4	0.22
(1,1040)	1:101:A:VAL:H	1:144:A:LEU:HD13	6	0.22
(1,1038)	1:101:A:VAL:H	1:102:A:LYS:HG2	19	0.22
(1,1000)	1:97:A:GLN:HB3	1:98:A:PHE:H	17	0.22
(1,949)	1:57:A:VAL:HB	1:86:A:GLN:H	5	0.22
(1,949)	1:57:A:VAL:HB	1:86:A:GLN:H	18	0.22
(1,914)	1:80:A:ILE:HG12	1:82:A:SER:H	10	0.22
(1,914)	1:80:A:ILE:HG12	1:82:A:SER:H	13	0.22
(1,881)	1:14:A:LEU:HD11	1:80:A:ILE:H	16	0.22
(1,881)	1:14:A:LEU:HD12	1:80:A:ILE:H	16	0.22
(1,881)	1:14:A:LEU:HD13	1:80:A:ILE:H	16	0.22
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	16	0.22
(1,837)	1:31:A:VAL:HG21	1:77:A:ILE:H	2	0.22
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB2	7	0.22
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG11	7	0.22
(1,763)	1:71:A:LEU:H	1:73:A:ALA:HB2	4	0.22
(1,763)	1:71:A:LEU:H	1:73:A:ALA:HB1	8	0.22
(1,729)	1:69:A:LYS:H	1:69:A:LYS:HG2	20	0.22
(1,723)	1:69:A:LYS:H	1:69:A:LYS:HE2	4	0.22
(1,699)	1:67:A:LYS:H	1:67:A:LYS:HG3	12	0.22
(1,645)	1:62:A:LEU:H	1:88:A:LYS:HB3	18	0.22
(1,645)	1:62:A:LEU:H	1:88:A:LYS:HB2	18	0.22
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	9	0.22
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	14	0.22
(1,579)	1:57:A:VAL:H	1:58:A:THR:HG23	14	0.22
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG11	16	0.22
(1,529)	1:51:A:ALA:H	1:54:A:LYS:HG3	11	0.22
(1,509)	1:50:A:ILE:H	1:50:A:ILE:HD13	20	0.22
(1,483)	1:46:A:VAL:HG22	1:47:A:ASN:H	9	0.22
(1,438)	1:44:A:ASP:H	1:44:A:ASP:HB2	15	0.22
(1,435)	1:44:A:ASP:H	1:45:A:LYS:HD2	9	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,432)	1:43:A:ALA:HB2	1:44:A:ASP:H	19	0.22
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	2	0.22
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	3	0.22
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	15	0.22
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	16	0.22
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	17	0.22
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	19	0.22
(1,355)	1:34:A:HIS:HB2	1:35:A:LEU:H	4	0.22
(1,346)	1:124:A:ILE:HD13	1:125:A:PHE:H	13	0.22
(1,346)	1:124:A:ILE:HD13	1:125:A:PHE:H	18	0.22
(1,345)	1:124:A:ILE:HG23	1:125:A:PHE:H	7	0.22
(1,294)	1:31:A:VAL:HG22	1:32:A:GLN:H	7	0.22
(1,280)	1:31:A:VAL:H	1:31:A:VAL:HB	6	0.22
(1,273)	1:28:A:ALA:HB1	1:31:A:VAL:H	1	0.22
(1,251)	1:29:A:LYS:H	1:32:A:GLN:HB3	6	0.22
(1,251)	1:29:A:LYS:H	1:32:A:GLN:HB2	13	0.22
(1,237)	1:24:A:LYS:HG3	1:28:A:ALA:H	6	0.22
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	12	0.22
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	19	0.22
(1,224)	1:22:A:HIS:HB3	1:27:A:GLN:H	2	0.22
(1,192)	1:14:A:LEU:HG	1:15:A:TRP:H	11	0.22
(3,2914)	1:13:A:LYS:HA	1:13:A:LYS:HG3	13	0.21
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	13	0.21
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	16	0.21
(3,2847)	1:63:A:SER:HB3	1:64:A:GLN:H	17	0.21
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG11	16	0.21
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG12	16	0.21
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG13	16	0.21
(3,2778)	1:22:A:HIS:HA	1:23:A:ASP:H	1	0.21
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	6	0.21
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	6	0.21
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	10	0.21
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	10	0.21
(3,2701)	1:132:A:LEU:HD21	1:142:A:GLN:HE22	6	0.21
(3,2701)	1:132:A:LEU:HD22	1:142:A:GLN:HE22	6	0.21
(3,2701)	1:132:A:LEU:HD23	1:142:A:GLN:HE22	6	0.21
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	1	0.21
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	4	0.21
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	5	0.21
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	6	0.21
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	10	0.21
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	11	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	12	0.21
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	13	0.21
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	14	0.21
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	15	0.21
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	16	0.21
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	17	0.21
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	19	0.21
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	20	0.21
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	5	0.21
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	18	0.21
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	18	0.21
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	18	0.21
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	3	0.21
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	3	0.21
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	3	0.21
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	4	0.21
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	4	0.21
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	4	0.21
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	7	0.21
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	13	0.21
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD21	1	0.21
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD22	1	0.21
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD23	1	0.21
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD21	9	0.21
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD22	9	0.21
(3,2468)	1:150:A:LEU:HA	1:150:A:LEU:HD23	9	0.21
(3,2464)	1:82:A:SER:HB2	1:84:A:ASP:H	8	0.21
(3,2463)	1:81:A:ALA:H	1:82:A:SER:HB3	3	0.21
(3,2462)	1:125:A:PHE:HE2	1:135:A:PRO:HD2	14	0.21
(3,2451)	1:81:A:ALA:HB2	1:82:A:SER:HB3	16	0.21
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	19	0.21
(3,2407)	1:142:A:GLN:HB2	1:143:A:VAL:H	14	0.21
(3,2304)	1:138:A:ILE:HB	1:144:A:LEU:HD23	7	0.21
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD21	16	0.21
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	2	0.21
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	6	0.21
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD13	13	0.21
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD13	19	0.21
(3,2262)	1:9:A:ASP:HA	1:78:A:SER:HA	2	0.21
(3,2228)	1:132:A:LEU:HD12	1:144:A:LEU:HD13	8	0.21
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	1	0.21
(3,2209)	1:38:A:THR:HG23	1:131:A:MET:HG3	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2164)	1:80:A:ILE:HG21	1:83:A:VAL:HA	20	0.21
(3,2157)	1:72:A:VAL:HA	1:75:A:GLY:H	1	0.21
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD11	12	0.21
(3,2146)	1:118:A:ALA:HB1	1:121:A:TYR:HD1	5	0.21
(3,2120)	1:7:A:VAL:HG12	1:139:A:TYR:HE2	1	0.21
(3,2092)	1:110:A:ILE:HD11	1:111:A:SER:HB2	16	0.21
(3,2091)	1:110:A:ILE:HD13	1:111:A:SER:HB3	13	0.21
(3,2087)	1:101:A:VAL:HG13	1:110:A:ILE:HG22	8	0.21
(3,2059)	1:51:A:ALA:H	1:54:A:LYS:HG2	1	0.21
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB2	10	0.21
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	1	0.21
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	8	0.21
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	15	0.21
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	19	0.21
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD2	19	0.21
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	17	0.21
(3,1979)	1:86:A:GLN:H	1:87:A:VAL:HG13	7	0.21
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG3	5	0.21
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG2	5	0.21
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG3	11	0.21
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG2	11	0.21
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG3	15	0.21
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG2	15	0.21
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	11	0.21
(3,1867)	1:5:A:ASN:HA	1:82:A:SER:HB2	15	0.21
(3,1849)	1:81:A:ALA:HB2	1:82:A:SER:HB2	16	0.21
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG23	5	0.21
(3,1836)	1:148:A:GLU:HB3	1:148:A:GLU:HG2	5	0.21
(3,1836)	1:148:A:GLU:HB3	1:148:A:GLU:HG2	11	0.21
(3,1836)	1:148:A:GLU:HB3	1:148:A:GLU:HG2	14	0.21
(3,1836)	1:148:A:GLU:HB3	1:148:A:GLU:HG2	18	0.21
(3,1794)	1:107:A:LEU:HD11	1:135:A:PRO:HA	6	0.21
(3,1794)	1:107:A:LEU:HD12	1:135:A:PRO:HA	6	0.21
(3,1794)	1:107:A:LEU:HD13	1:135:A:PRO:HA	6	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	6	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	6	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	6	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	7	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	7	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	7	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	11	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	11	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	11	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	12	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	12	0.21
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	12	0.21
(3,1756)	1:49:A:GLN:HG2	1:56:A:THR:HB	2	0.21
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	4	0.21
(3,1710)	1:50:A:ILE:HD11	1:55:A:ALA:HB1	19	0.21
(3,1676)	1:50:A:ILE:HG22	1:51:A:ALA:HA	16	0.21
(3,1664)	1:105:A:ASP:HB2	1:138:A:ILE:HD12	5	0.21
(3,1664)	1:105:A:ASP:HB2	1:138:A:ILE:HD13	11	0.21
(3,1662)	1:121:A:TYR:HB2	1:124:A:ILE:HD11	19	0.21
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG12	13	0.21
(3,1618)	1:66:A:ALA:HA	1:69:A:LYS:HG3	8	0.21
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	1	0.21
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	7	0.21
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	8	0.21
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	9	0.21
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	12	0.21
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	14	0.21
(3,1577)	1:40:A:ILE:HD13	1:41:A:PRO:HD3	8	0.21
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	5	0.21
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	5	0.21
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	5	0.21
(3,1573)	1:40:A:ILE:HD11	1:41:A:PRO:HD2	3	0.21
(3,1555)	1:48:A:ILE:HG13	1:48:A:ILE:HG21	3	0.21
(3,1555)	1:48:A:ILE:HG13	1:48:A:ILE:HG23	11	0.21
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	9	0.21
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	9	0.21
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	9	0.21
(3,1499)	1:3:A:LEU:HG	1:4:A:PHE:H	20	0.21
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD13	3	0.21
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD11	11	0.21
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG21	9	0.21
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG22	9	0.21
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG23	9	0.21
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG21	9	0.21
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG22	9	0.21
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG23	9	0.21
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	15	0.21
(3,1469)	1:107:A:LEU:HA	1:121:A:TYR:HB2	17	0.21
(3,1461)	1:30:A:LYS:HA	1:33:A:GLU:H	5	0.21
(3,1461)	1:30:A:LYS:HA	1:33:A:GLU:H	15	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1424)	1:21:A:GLN:HB2	1:26:A:ASP:HB3	4	0.21
(3,1397)	1:29:A:LYS:HG2	1:33:A:GLU:HG3	7	0.21
(3,1385)	1:148:A:GLU:HG3	1:149:A:GLU:H	12	0.21
(3,1374)	1:32:A:GLN:HG3	1:48:A:ILE:H	13	0.21
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	4	0.21
(3,1373)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	4	0.21
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG13	19	0.21
(3,1346)	1:28:A:ALA:H	1:31:A:VAL:HG23	10	0.21
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD11	13	0.21
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD12	13	0.21
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD13	13	0.21
(3,1307)	1:71:A:LEU:HB3	1:83:A:VAL:HG11	16	0.21
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG23	2	0.21
(3,1269)	1:31:A:VAL:HG22	1:48:A:ILE:HG23	18	0.21
(3,1230)	1:28:A:ALA:HB2	1:50:A:ILE:HG13	2	0.21
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	7	0.21
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	7	0.21
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	4	0.21
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	4	0.21
(3,1157)	1:115:A:TYR:HE2	1:123:A:LYS:HG3	8	0.21
(3,1138)	1:123:A:LYS:HA	1:123:A:LYS:HG3	4	0.21
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	2	0.21
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	18	0.21
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	12	0.21
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	12	0.21
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	12	0.21
(3,1062)	1:13:A:LYS:HB3	1:78:A:SER:HB2	9	0.21
(3,1059)	1:103:A:SER:HB3	1:140:A:PRO:HG3	1	0.21
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	2	0.21
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	2	0.21
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	2	0.21
(3,995)	1:109:A:ALA:HB1	1:110:A:ILE:HG22	6	0.21
(3,991)	1:114:A:VAL:HG21	1:146:A:ILE:HG13	8	0.21
(3,991)	1:114:A:VAL:HG21	1:146:A:ILE:HG13	17	0.21
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG23	4	0.21
(3,980)	1:27:A:GLN:HA	1:27:A:GLN:HG3	13	0.21
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	4	0.21
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	4	0.21
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	4	0.21
(3,947)	1:107:A:LEU:HD11	1:135:A:PRO:HA	6	0.21
(3,947)	1:107:A:LEU:HD12	1:135:A:PRO:HA	6	0.21
(3,947)	1:107:A:LEU:HD13	1:135:A:PRO:HA	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,925)	1:13:A:LYS:HG3	1:78:A:SER:HB3	14	0.21
(3,919)	1:121:A:TYR:HD2	1:122:A:ASN:HA	15	0.21
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	17	0.21
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	17	0.21
(3,841)	1:10:A:ALA:HB1	1:11:A:GLY:H	20	0.21
(3,841)	1:10:A:ALA:HB2	1:11:A:GLY:H	20	0.21
(3,841)	1:10:A:ALA:HB3	1:11:A:GLY:H	20	0.21
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB1	1	0.21
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB2	1	0.21
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB3	1	0.21
(3,807)	1:72:A:VAL:HG12	1:73:A:ALA:HA	9	0.21
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	5	0.21
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	5	0.21
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	5	0.21
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	5	0.21
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	5	0.21
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	5	0.21
(3,798)	1:117:A:ASN:HB2	1:120:A:LEU:HG	5	0.21
(3,798)	1:117:A:ASN:HB2	1:120:A:LEU:HG	12	0.21
(3,786)	1:15:A:TRP:HB3	1:21:A:GLN:HB3	16	0.21
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	7	0.21
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	8	0.21
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	9	0.21
(3,765)	1:69:A:LYS:HA	1:69:A:LYS:HG2	17	0.21
(3,765)	1:8:A:LYS:HA	1:8:A:LYS:HG2	20	0.21
(3,764)	1:8:A:LYS:HA	1:8:A:LYS:HG2	12	0.21
(3,722)	1:63:A:SER:HB2	1:93:A:ALA:HB1	6	0.21
(3,722)	1:63:A:SER:HB2	1:93:A:ALA:HB1	10	0.21
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	17	0.21
(3,695)	1:101:A:VAL:HB	1:140:A:PRO:HA	2	0.21
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	2	0.21
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	3	0.21
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	4	0.21
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	5	0.21
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	6	0.21
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	8	0.21
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	11	0.21
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	12	0.21
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	15	0.21
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	20	0.21
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	15	0.21
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	15	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,674)	1:105:A:ASP:HB2	1:138:A:ILE:HD13	20	0.21
(3,630)	1:135:A:PRO:HG2	1:136:A:ASP:HB2	16	0.21
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	5	0.21
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	1	0.21
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	14	0.21
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	2	0.21
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	7	0.21
(3,540)	1:150:A:LEU:HB2	1:150:A:LEU:HD21	5	0.21
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	17	0.21
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD23	20	0.21
(3,470)	1:6:A:PHE:HD2	1:143:A:VAL:HB	1	0.21
(3,431)	1:99:A:TYR:HD1	1:110:A:ILE:HG22	8	0.21
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	6	0.21
(3,349)	1:17:A:ALA:H	1:21:A:GLN:HB2	16	0.21
(3,344)	1:3:A:LEU:HB3	1:4:A:PHE:H	17	0.21
(3,344)	1:3:A:LEU:HB2	1:4:A:PHE:H	17	0.21
(3,320)	1:108:A:SER:HA	1:121:A:TYR:HD1	1	0.21
(3,320)	1:108:A:SER:HA	1:121:A:TYR:HD1	5	0.21
(3,315)	1:13:A:LYS:HD3	1:13:A:LYS:HG2	10	0.21
(3,315)	1:13:A:LYS:HD3	1:13:A:LYS:HG2	14	0.21
(3,313)	1:45:A:LYS:HA	1:45:A:LYS:HG2	10	0.21
(3,278)	1:27:A:GLN:H	1:27:A:GLN:HG2	16	0.21
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE3	8	0.21
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE2	8	0.21
(3,237)	1:29:A:LYS:HA	1:29:A:LYS:HG3	14	0.21
(3,236)	1:30:A:LYS:H	1:30:A:LYS:HD3	12	0.21
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	12	0.21
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	11	0.21
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	20	0.21
(3,155)	1:113:A:GLN:HG3	1:114:A:VAL:H	10	0.21
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD21	20	0.21
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD22	20	0.21
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD23	20	0.21
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD1	11	0.21
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD2	11	0.21
(3,78)	1:57:A:VAL:HG11	1:71:A:LEU:H	8	0.21
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD13	13	0.21
(3,4)	1:135:A:PRO:HD3	1:135:A:PRO:HG2	16	0.21
(1,2508)	1:113:A:GLN:H	1:113:A:GLN:HG3	17	0.21
(1,2345)	1:149:A:GLU:H	1:150:A:LEU:H	4	0.21
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	9	0.21
(1,2014)	1:49:A:GLN:H	1:49:A:GLN:HG3	19	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2014)	1:49:A:GLN:H	1:49:A:GLN:HG2	19	0.21
(1,1952)	1:85:A:ASP:H	1:86:A:GLN:HE22	17	0.21
(1,1935)	1:28:A:ALA:H	1:30:A:LYS:H	4	0.21
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	7	0.21
(1,1857)	1:11:A:GLY:H	1:78:A:SER:HB2	15	0.21
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	18	0.21
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	14	0.21
(1,1753)	1:97:A:GLN:H	1:148:A:GLU:H	16	0.21
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	1	0.21
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	17	0.21
(1,1668)	1:42:A:ASP:H	1:45:A:LYS:HD2	19	0.21
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	7	0.21
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	18	0.21
(1,1662)	1:42:A:ASP:H	1:45:A:LYS:HG3	18	0.21
(1,1642)	1:9:A:ASP:H	1:141:A:GLY:HA2	20	0.21
(1,1611)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	15	0.21
(1,1611)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	15	0.21
(1,1611)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	15	0.21
(1,1603)	1:110:A:ILE:HB	1:113:A:GLN:HE21	15	0.21
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	20	0.21
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	20	0.21
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	18	0.21
(1,1566)	1:149:A:GLU:HB2	1:150:A:LEU:H	12	0.21
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	9	0.21
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	20	0.21
(1,1542)	1:119:A:ASN:H	1:119:A:ASN:HD22	14	0.21
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	5	0.21
(1,1448)	1:101:A:VAL:HB	1:141:A:GLY:H	20	0.21
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	1	0.21
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	13	0.21
(1,1358)	1:73:A:ALA:HB3	1:131:A:MET:H	12	0.21
(1,1358)	1:73:A:ALA:HB3	1:131:A:MET:H	19	0.21
(1,1326)	1:128:A:ASN:H	1:129:A:LYS:HG3	17	0.21
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	20	0.21
(1,1239)	1:111:A:SER:H	1:121:A:TYR:H	20	0.21
(1,1149)	1:114:A:VAL:H	1:117:A:ASN:H	3	0.21
(1,1064)	1:102:A:LYS:HB3	1:105:A:ASP:H	1	0.21
(1,1059)	1:105:A:ASP:H	1:140:A:PRO:HA	12	0.21
(1,1059)	1:105:A:ASP:H	1:140:A:PRO:HA	19	0.21
(1,949)	1:57:A:VAL:HB	1:86:A:GLN:H	15	0.21
(1,949)	1:57:A:VAL:HB	1:86:A:GLN:H	20	0.21
(1,918)	1:3:A:LEU:HD12	1:82:A:SER:H	11	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,886)	1:80:A:ILE:H	1:80:A:ILE:HD12	4	0.21
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB3	14	0.21
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB2	17	0.21
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG11	7	0.21
(1,750)	1:71:A:LEU:H	1:98:A:PHE:HE2	18	0.21
(1,729)	1:69:A:LYS:H	1:69:A:LYS:HG2	11	0.21
(1,725)	1:68:A:GLU:HG3	1:69:A:LYS:H	16	0.21
(1,671)	1:62:A:LEU:HD11	1:66:A:ALA:H	16	0.21
(1,657)	1:62:A:LEU:HD13	1:63:A:SER:H	2	0.21
(1,657)	1:62:A:LEU:HD13	1:63:A:SER:H	18	0.21
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG11	6	0.21
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG12	18	0.21
(1,602)	1:59:A:GLY:H	1:86:A:GLN:HA	15	0.21
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG21	17	0.21
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG22	17	0.21
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG23	17	0.21
(1,568)	1:48:A:ILE:HG13	1:56:A:THR:H	6	0.21
(1,541)	1:54:A:LYS:H	1:80:A:ILE:HD13	10	0.21
(1,529)	1:51:A:ALA:H	1:54:A:LYS:HG3	14	0.21
(1,515)	1:49:A:GLN:HB3	1:50:A:ILE:H	19	0.21
(1,481)	1:47:A:ASN:H	1:58:A:THR:HG23	16	0.21
(1,459)	1:45:A:LYS:HD3	1:46:A:VAL:H	20	0.21
(1,454)	1:45:A:LYS:H	1:45:A:LYS:HD2	11	0.21
(1,454)	1:45:A:LYS:H	1:45:A:LYS:HD2	20	0.21
(1,438)	1:44:A:ASP:H	1:44:A:ASP:HB2	4	0.21
(1,435)	1:44:A:ASP:H	1:45:A:LYS:HD2	1	0.21
(1,431)	1:44:A:ASP:H	1:45:A:LYS:HD3	11	0.21
(1,430)	1:44:A:ASP:H	1:70:A:ILE:HD12	11	0.21
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	6	0.21
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	7	0.21
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	13	0.21
(1,371)	1:36:A:ASN:H	1:40:A:ILE:HB	9	0.21
(1,371)	1:36:A:ASN:H	1:40:A:ILE:HB	13	0.21
(1,346)	1:124:A:ILE:HD13	1:125:A:PHE:H	3	0.21
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	9	0.21
(1,318)	1:125:A:PHE:HD2	1:132:A:LEU:H	15	0.21
(1,302)	1:129:A:LYS:HG3	1:132:A:LEU:H	15	0.21
(1,293)	1:32:A:GLN:H	1:48:A:ILE:HG13	7	0.21
(1,278)	1:14:A:LEU:HD11	1:31:A:VAL:H	12	0.21
(1,278)	1:14:A:LEU:HD12	1:31:A:VAL:H	12	0.21
(1,278)	1:14:A:LEU:HD13	1:31:A:VAL:H	12	0.21
(1,271)	1:30:A:LYS:HG3	1:31:A:VAL:H	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB2	20	0.21
(1,251)	1:29:A:LYS:H	1:32:A:GLN:HB2	18	0.21
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	1	0.21
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB2	14	0.21
(1,192)	1:14:A:LEU:HG	1:15:A:TRP:H	6	0.21
(1,192)	1:14:A:LEU:HG	1:15:A:TRP:H	20	0.21
(1,184)	1:13:A:LYS:HE2	1:15:A:TRP:H	13	0.21
(1,133)	1:7:A:VAL:H	1:10:A:ALA:H	1	0.21
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG23	4	0.21
(1,31)	1:5:A:ASN:H	1:83:A:VAL:HG21	6	0.21
(1,19)	1:15:A:TRP:HE1	1:79:A:GLY:HA3	18	0.21
(1,14)	1:15:A:TRP:HE1	1:50:A:ILE:HG13	2	0.21
(1,12)	1:14:A:LEU:HB2	1:15:A:TRP:HE1	2	0.21
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	5	0.2
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	1	0.2
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	2	0.2
(3,2853)	1:65:A:GLU:HA	1:65:A:GLU:HG3	20	0.2
(3,2847)	1:63:A:SER:HB3	1:64:A:GLN:H	4	0.2
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	8	0.2
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	8	0.2
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	2	0.2
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	8	0.2
(3,2662)	1:134:A:SER:HA	1:134:A:SER:HB2	9	0.2
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	3	0.2
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	3	0.2
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	20	0.2
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	20	0.2
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	10	0.2
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	13	0.2
(3,2516)	1:110:A:ILE:HD13	1:111:A:SER:H	18	0.2
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	5	0.2
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	5	0.2
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	5	0.2
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	9	0.2
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	9	0.2
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	9	0.2
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	11	0.2
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	18	0.2
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	20	0.2
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	4	0.2
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	17	0.2
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	17	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB2	14	0.2
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	2	0.2
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	11	0.2
(3,2407)	1:142:A:GLN:HB2	1:143:A:VAL:H	8	0.2
(3,2399)	1:72:A:VAL:HG21	1:98:A:PHE:HE2	19	0.2
(3,2396)	1:14:A:LEU:HD21	1:34:A:HIS:HE1	7	0.2
(3,2396)	1:14:A:LEU:HD22	1:34:A:HIS:HE1	17	0.2
(3,2360)	1:129:A:LYS:HA	1:129:A:LYS:HD2	10	0.2
(3,2360)	1:129:A:LYS:HA	1:129:A:LYS:HD2	19	0.2
(3,2352)	1:38:A:THR:HG23	1:40:A:ILE:HD13	2	0.2
(3,2352)	1:38:A:THR:HG23	1:40:A:ILE:HD12	15	0.2
(3,2344)	1:6:A:PHE:HZ	1:143:A:VAL:HG12	18	0.2
(3,2335)	1:29:A:LYS:HE2	1:33:A:GLU:HG2	15	0.2
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	12	0.2
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	17	0.2
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	16	0.2
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	4	0.2
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG21	20	0.2
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG22	20	0.2
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG23	20	0.2
(3,2188)	1:105:A:ASP:HA	1:109:A:ALA:HB3	9	0.2
(3,2174)	1:50:A:ILE:HA	1:50:A:ILE:HG13	16	0.2
(3,2168)	1:124:A:ILE:HG23	1:128:A:ASN:HB2	9	0.2
(3,2168)	1:124:A:ILE:HG22	1:128:A:ASN:HB2	18	0.2
(3,2164)	1:80:A:ILE:HG22	1:83:A:VAL:HA	2	0.2
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD11	13	0.2
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	8	0.2
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	6	0.2
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	6	0.2
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG11	2	0.2
(3,2073)	1:107:A:LEU:HB3	1:108:A:SER:HA	4	0.2
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	18	0.2
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	13	0.2
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	3	0.2
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	18	0.2
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG3	19	0.2
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG2	19	0.2
(3,1930)	1:71:A:LEU:H	1:71:A:LEU:HG	8	0.2
(3,1919)	1:14:A:LEU:HB2	1:77:A:ILE:HG21	9	0.2
(3,1919)	1:14:A:LEU:HB2	1:77:A:ILE:HG22	10	0.2
(3,1867)	1:5:A:ASN:HA	1:82:A:SER:HB2	9	0.2
(3,1867)	1:54:A:LYS:HA	1:82:A:SER:HB2	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG23	6	0.2
(3,1841)	1:3:A:LEU:HD11	1:82:A:SER:HB2	16	0.2
(3,1841)	1:3:A:LEU:HD12	1:82:A:SER:HB2	16	0.2
(3,1841)	1:3:A:LEU:HD13	1:82:A:SER:HB2	16	0.2
(3,1841)	1:3:A:LEU:HD21	1:82:A:SER:HB2	16	0.2
(3,1841)	1:3:A:LEU:HD22	1:82:A:SER:HB2	16	0.2
(3,1841)	1:3:A:LEU:HD23	1:82:A:SER:HB2	16	0.2
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD11	12	0.2
(3,1818)	1:68:A:GLU:HG3	1:98:A:PHE:HE1	10	0.2
(3,1791)	1:135:A:PRO:HA	1:135:A:PRO:HB2	13	0.2
(3,1791)	1:135:A:PRO:HA	1:135:A:PRO:HB2	20	0.2
(3,1790)	1:82:A:SER:HA	1:83:A:VAL:HG23	4	0.2
(3,1789)	1:3:A:LEU:HD13	1:82:A:SER:HA	3	0.2
(3,1786)	1:128:A:ASN:H	1:132:A:LEU:HD11	17	0.2
(3,1778)	1:8:A:LYS:HE3	1:79:A:GLY:HA3	17	0.2
(3,1778)	1:8:A:LYS:HE2	1:79:A:GLY:HA3	17	0.2
(3,1762)	1:111:A:SER:HB3	1:121:A:TYR:HA	17	0.2
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	4	0.2
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	4	0.2
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	4	0.2
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	5	0.2
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	5	0.2
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	5	0.2
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	8	0.2
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	8	0.2
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	8	0.2
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	13	0.2
(3,1686)	1:15:A:TRP:HZ3	1:30:A:LYS:HB3	3	0.2
(3,1676)	1:50:A:ILE:HG23	1:51:A:ALA:HA	10	0.2
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	2	0.2
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	3	0.2
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	5	0.2
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	6	0.2
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	11	0.2
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	13	0.2
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	15	0.2
(3,1604)	1:109:A:ALA:HB1	1:110:A:ILE:H	3	0.2
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	3	0.2
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	3	0.2
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	3	0.2
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	10	0.2
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	10	0.2
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	12	0.2
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	12	0.2
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	12	0.2
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	13	0.2
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	13	0.2
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	13	0.2
(3,1476)	1:101:A:VAL:HB	1:140:A:PRO:HA	13	0.2
(3,1461)	1:30:A:LYS:HA	1:33:A:GLU:H	1	0.2
(3,1437)	1:62:A:LEU:HD11	1:89:A:THR:HA	13	0.2
(3,1430)	1:131:A:MET:HE1	1:132:A:LEU:HD11	17	0.2
(3,1428)	1:62:A:LEU:HB3	1:62:A:LEU:HD11	13	0.2
(3,1425)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	10	0.2
(3,1425)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	11	0.2
(3,1421)	1:24:A:LYS:HA	1:50:A:ILE:HB	1	0.2
(3,1397)	1:29:A:LYS:HG2	1:33:A:GLU:HG3	10	0.2
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	16	0.2
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	18	0.2
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	3	0.2
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	20	0.2
(3,1347)	1:115:A:TYR:HE1	1:149:A:GLU:HB3	17	0.2
(3,1347)	1:115:A:TYR:HE2	1:149:A:GLU:HB3	17	0.2
(3,1341)	1:60:A:ASP:H	1:87:A:VAL:HG21	7	0.2
(3,1341)	1:60:A:ASP:H	1:87:A:VAL:HG23	19	0.2
(3,1319)	1:6:A:PHE:HZ	1:83:A:VAL:HG11	3	0.2
(3,1310)	1:101:A:VAL:HG23	1:142:A:GLN:HB3	19	0.2
(3,1294)	1:71:A:LEU:HD23	1:83:A:VAL:HG12	17	0.2
(3,1275)	1:6:A:PHE:HA	1:143:A:VAL:HG12	1	0.2
(3,1275)	1:6:A:PHE:HA	1:143:A:VAL:HG13	17	0.2
(3,1268)	1:31:A:VAL:HG11	1:31:A:VAL:HG22	5	0.2
(3,1234)	1:29:A:LYS:HA	1:29:A:LYS:HD2	14	0.2
(3,1230)	1:28:A:ALA:HB2	1:50:A:ILE:HG13	12	0.2
(3,1230)	1:28:A:ALA:HB3	1:50:A:ILE:HG13	14	0.2
(3,1223)	1:25:A:ASP:HB2	1:28:A:ALA:HB2	19	0.2
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	20	0.2
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	20	0.2
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	5	0.2
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	5	0.2
(3,1138)	1:123:A:LYS:HA	1:123:A:LYS:HG3	18	0.2
(3,1111)	1:112:A:LYS:HD2	1:112:A:LYS:HE3	7	0.2
(3,1111)	1:102:A:LYS:HD3	1:102:A:LYS:HE3	12	0.2
(3,1111)	1:137:A:LYS:HD3	1:137:A:LYS:HE2	16	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	6	0.2
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	11	0.2
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	15	0.2
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	16	0.2
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	17	0.2
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	20	0.2
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	20	0.2
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	20	0.2
(3,1059)	1:103:A:SER:HB3	1:140:A:PRO:HG3	10	0.2
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	19	0.2
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	9	0.2
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	9	0.2
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	9	0.2
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	4	0.2
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	4	0.2
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	4	0.2
(3,1033)	1:111:A:SER:HA	1:114:A:VAL:HG11	14	0.2
(3,1029)	1:56:A:THR:HG22	1:86:A:GLN:HB2	9	0.2
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG12	13	0.2
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG11	13	0.2
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG12	13	0.2
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG13	13	0.2
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG11	13	0.2
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG12	13	0.2
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG13	13	0.2
(3,997)	1:127:A:ALA:HB2	1:147:A:PRO:HD3	9	0.2
(3,997)	1:124:A:ILE:HA	1:127:A:ALA:HB3	17	0.2
(3,994)	1:35:A:LEU:HD22	1:73:A:ALA:HB1	8	0.2
(3,993)	1:35:A:LEU:HD21	1:43:A:ALA:HB1	2	0.2
(3,932)	1:14:A:LEU:H	1:14:A:LEU:HD12	4	0.2
(3,919)	1:121:A:TYR:HD2	1:122:A:ASN:HA	4	0.2
(3,817)	1:62:A:LEU:HA	1:63:A:SER:H	8	0.2
(3,807)	1:72:A:VAL:HG12	1:73:A:ALA:HA	4	0.2
(3,769)	1:111:A:SER:HB2	1:121:A:TYR:HA	15	0.2
(3,765)	1:8:A:LYS:HA	1:8:A:LYS:HG2	4	0.2
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	7	0.2
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	13	0.2
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	18	0.2
(3,694)	1:41:A:PRO:HA	1:41:A:PRO:HB2	19	0.2
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	8	0.2
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	8	0.2
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	16	0.2
(3,674)	1:105:A:ASP:HB2	1:138:A:ILE:HD12	15	0.2
(3,657)	1:125:A:PHE:HE1	1:129:A:LYS:HE2	13	0.2
(3,630)	1:24:A:LYS:HB2	1:25:A:ASP:HB3	15	0.2
(3,630)	1:24:A:LYS:HB3	1:25:A:ASP:HB3	18	0.2
(3,630)	1:24:A:LYS:HB2	1:25:A:ASP:HB3	19	0.2
(3,602)	1:138:A:ILE:HB	1:139:A:TYR:HA	7	0.2
(3,562)	1:107:A:LEU:HD21	1:125:A:PHE:HD2	12	0.2
(3,533)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	15	0.2
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	9	0.2
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	9	0.2
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD21	13	0.2
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	2	0.2
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	2	0.2
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	2	0.2
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG11	2	0.2
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG12	2	0.2
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG13	2	0.2
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	10	0.2
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	10	0.2
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	10	0.2
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG11	10	0.2
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG12	10	0.2
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG13	10	0.2
(3,437)	1:99:A:TYR:HD2	1:100:A:THR:H	16	0.2
(3,416)	1:72:A:VAL:HG22	1:131:A:MET:HE1	2	0.2
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	7	0.2
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	16	0.2
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	20	0.2
(3,339)	1:64:A:GLN:HB2	1:93:A:ALA:HB1	19	0.2
(3,315)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	2	0.2
(3,315)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	3	0.2
(3,315)	1:13:A:LYS:HD3	1:13:A:LYS:HG2	11	0.2
(3,313)	1:45:A:LYS:HA	1:45:A:LYS:HG2	3	0.2
(3,313)	1:45:A:LYS:HA	1:45:A:LYS:HG2	5	0.2
(3,313)	1:45:A:LYS:HA	1:45:A:LYS:HG2	13	0.2
(3,306)	1:106:A:THR:H	1:106:A:THR:HG22	4	0.2
(3,264)	1:47:A:ASN:HB3	1:48:A:ILE:H	2	0.2
(3,264)	1:47:A:ASN:HB2	1:48:A:ILE:H	2	0.2
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE3	4	0.2
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE2	4	0.2
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE3	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE2	9	0.2
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	20	0.2
(3,199)	1:9:A:ASP:HB2	1:10:A:ALA:H	8	0.2
(3,198)	1:135:A:PRO:HG3	1:136:A:ASP:H	2	0.2
(3,77)	1:57:A:VAL:HG12	1:87:A:VAL:H	15	0.2
(3,20)	1:139:A:TYR:HD2	1:140:A:PRO:HD2	12	0.2
(3,14)	1:144:A:LEU:HB2	1:145:A:ARG:H	8	0.2
(3,14)	1:144:A:LEU:HB2	1:145:A:ARG:H	10	0.2
(3,14)	1:144:A:LEU:HB2	1:145:A:ARG:H	16	0.2
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	2	0.2
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	18	0.2
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB3	11	0.2
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB2	11	0.2
(1,1979)	1:70:A:ILE:HG13	1:74:A:VAL:H	1	0.2
(1,1898)	1:110:A:ILE:HG13	1:113:A:GLN:HE21	12	0.2
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	9	0.2
(1,1846)	1:105:A:ASP:HB2	1:106:A:THR:H	2	0.2
(1,1800)	1:124:A:ILE:HD13	1:146:A:ILE:H	9	0.2
(1,1761)	1:97:A:GLN:H	1:146:A:ILE:HD11	8	0.2
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	20	0.2
(1,1751)	1:96:A:SER:H	1:145:A:ARG:HG2	6	0.2
(1,1738)	1:94:A:THR:HB	1:95:A:ALA:H	3	0.2
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	3	0.2
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	8	0.2
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	10	0.2
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	1	0.2
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	4	0.2
(1,1662)	1:42:A:ASP:H	1:45:A:LYS:HG3	4	0.2
(1,1635)	1:132:A:LEU:HG	1:142:A:GLN:HE22	14	0.2
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	18	0.2
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	18	0.2
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	19	0.2
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	19	0.2
(1,1585)	1:56:A:THR:HG21	1:86:A:GLN:HE22	12	0.2
(1,1585)	1:56:A:THR:HG22	1:86:A:GLN:HE22	12	0.2
(1,1585)	1:56:A:THR:HG23	1:86:A:GLN:HE22	12	0.2
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	1	0.2
(1,1540)	1:47:A:ASN:HD22	1:48:A:ILE:HD12	20	0.2
(1,1490)	1:72:A:VAL:HG22	1:143:A:VAL:H	20	0.2
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	1	0.2
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	1	0.2
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	2	0.2
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	2	0.2
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	2	0.2
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	5	0.2
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	5	0.2
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	5	0.2
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	17	0.2
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	17	0.2
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	17	0.2
(1,1406)	1:125:A:PHE:HD2	1:136:A:ASP:H	13	0.2
(1,1358)	1:130:A:PRO:HG3	1:131:A:MET:H	20	0.2
(1,1331)	1:129:A:LYS:H	1:129:A:LYS:HB2	15	0.2
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE2	8	0.2
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE2	9	0.2
(1,1292)	1:127:A:ALA:H	1:144:A:LEU:HD11	15	0.2
(1,1290)	1:124:A:ILE:HD12	1:127:A:ALA:H	4	0.2
(1,1288)	1:124:A:ILE:HG13	1:127:A:ALA:H	18	0.2
(1,1275)	1:125:A:PHE:HB2	1:126:A:GLU:H	1	0.2
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	11	0.2
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD21	11	0.2
(1,1130)	1:112:A:LYS:HE3	1:113:A:GLN:H	11	0.2
(1,1118)	1:111:A:SER:H	1:115:A:TYR:HE2	14	0.2
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	2	0.2
(1,1104)	1:107:A:LEU:HD23	1:111:A:SER:H	4	0.2
(1,1093)	1:105:A:ASP:HB2	1:110:A:ILE:H	1	0.2
(1,1046)	1:102:A:LYS:H	1:140:A:PRO:HB2	3	0.2
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	8	0.2
(1,1016)	1:98:A:PHE:HB2	1:99:A:TYR:H	14	0.2
(1,961)	1:87:A:VAL:H	1:88:A:LYS:HG3	6	0.2
(1,886)	1:80:A:ILE:H	1:80:A:ILE:HD11	20	0.2
(1,875)	1:8:A:LYS:HG2	1:79:A:GLY:H	2	0.2
(1,875)	1:8:A:LYS:HG2	1:79:A:GLY:H	15	0.2
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	4	0.2
(1,733)	1:70:A:ILE:H	1:74:A:VAL:HG12	3	0.2
(1,729)	1:69:A:LYS:H	1:69:A:LYS:HG2	7	0.2
(1,705)	1:68:A:GLU:H	1:69:A:LYS:HB3	6	0.2
(1,702)	1:68:A:GLU:H	1:71:A:LEU:HD11	14	0.2
(1,671)	1:62:A:LEU:HD21	1:66:A:ALA:H	3	0.2
(1,620)	1:45:A:LYS:HB2	1:60:A:ASP:H	5	0.2
(1,614)	1:59:A:GLY:H	1:67:A:LYS:HG3	1	0.2
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG13	18	0.2
(1,586)	1:58:A:THR:H	1:87:A:VAL:HG23	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG21	12	0.2
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG22	12	0.2
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG23	12	0.2
(1,557)	1:49:A:GLN:HG3	1:56:A:THR:H	16	0.2
(1,515)	1:49:A:GLN:HB3	1:50:A:ILE:H	12	0.2
(1,492)	1:48:A:ILE:H	1:48:A:ILE:HG13	8	0.2
(1,481)	1:47:A:ASN:H	1:58:A:THR:HG21	20	0.2
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB3	17	0.2
(1,381)	1:37:A:LYS:H	1:37:A:LYS:HB3	5	0.2
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	12	0.2
(1,309)	1:29:A:LYS:HE2	1:33:A:GLU:H	10	0.2
(1,294)	1:31:A:VAL:HG21	1:32:A:GLN:H	16	0.2
(1,272)	1:30:A:LYS:HG2	1:31:A:VAL:H	1	0.2
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB2	13	0.2
(1,251)	1:29:A:LYS:H	1:32:A:GLN:HB3	4	0.2
(1,251)	1:29:A:LYS:H	1:32:A:GLN:HB2	20	0.2
(1,249)	1:25:A:ASP:HB3	1:29:A:LYS:H	3	0.2
(1,249)	1:25:A:ASP:HB2	1:29:A:LYS:H	15	0.2
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	3	0.2
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	12	0.2
(1,246)	1:29:A:LYS:H	1:29:A:LYS:HD3	8	0.2
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB3	3	0.2
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB3	7	0.2
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB3	16	0.2
(1,228)	1:28:A:ALA:H	1:29:A:LYS:HA	5	0.2
(1,96)	1:8:A:LYS:H	1:8:A:LYS:HD3	16	0.2
(1,77)	1:6:A:PHE:H	1:143:A:VAL:HG11	9	0.2
(1,49)	1:82:A:SER:HB2	1:83:A:VAL:H	6	0.2
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	6	0.19
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	12	0.19
(3,2914)	1:13:A:LYS:HA	1:13:A:LYS:HG3	15	0.19
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	4	0.19
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	5	0.19
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	9	0.19
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	10	0.19
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	11	0.19
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	14	0.19
(3,2802)	1:91:A:THR:HA	1:92:A:PRO:HD2	7	0.19
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	7	0.19
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	7	0.19
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	7	0.19
(3,2778)	1:22:A:HIS:HA	1:23:A:ASP:H	13	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2778)	1:22:A:HIS:HA	1:23:A:ASP:H	14	0.19
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	12	0.19
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	12	0.19
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	18	0.19
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	18	0.19
(3,2596)	1:132:A:LEU:HD11	1:142:A:GLN:HE22	2	0.19
(3,2596)	1:132:A:LEU:HD12	1:142:A:GLN:HE22	2	0.19
(3,2596)	1:132:A:LEU:HD13	1:142:A:GLN:HE22	2	0.19
(3,2596)	1:132:A:LEU:HD11	1:142:A:GLN:HE22	13	0.19
(3,2596)	1:132:A:LEU:HD12	1:142:A:GLN:HE22	13	0.19
(3,2596)	1:132:A:LEU:HD13	1:142:A:GLN:HE22	13	0.19
(3,2510)	1:110:A:ILE:HD12	1:114:A:VAL:HG11	13	0.19
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	7	0.19
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	8	0.19
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	9	0.19
(3,2484)	1:53:A:GLY:HA3	1:80:A:ILE:HA	14	0.19
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	1	0.19
(3,2465)	1:110:A:ILE:HD11	1:144:A:LEU:H	15	0.19
(3,2464)	1:82:A:SER:HB2	1:84:A:ASP:H	19	0.19
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	3	0.19
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	3	0.19
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	10	0.19
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	10	0.19
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	20	0.19
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	20	0.19
(3,2407)	1:142:A:GLN:HB2	1:143:A:VAL:H	12	0.19
(3,2390)	1:15:A:TRP:HZ2	1:80:A:ILE:HG13	7	0.19
(3,2383)	1:15:A:TRP:HE3	1:30:A:LYS:HD3	11	0.19
(3,2358)	1:129:A:LYS:HD3	1:130:A:PRO:HA	5	0.19
(3,2321)	1:40:A:ILE:HD11	1:131:A:MET:HG3	8	0.19
(3,2304)	1:138:A:ILE:HB	1:144:A:LEU:HD23	16	0.19
(3,2289)	1:71:A:LEU:HB3	1:71:A:LEU:HD23	14	0.19
(3,2262)	1:9:A:ASP:HA	1:78:A:SER:HA	10	0.19
(3,2249)	1:135:A:PRO:HG2	1:136:A:ASP:H	18	0.19
(3,2248)	1:125:A:PHE:HA	1:135:A:PRO:HA	1	0.19
(3,2248)	1:125:A:PHE:HA	1:135:A:PRO:HA	2	0.19
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	1	0.19
(3,2228)	1:132:A:LEU:HD12	1:144:A:LEU:HD11	14	0.19
(3,2162)	1:124:A:ILE:HA	1:128:A:ASN:H	14	0.19
(3,2157)	1:72:A:VAL:HA	1:75:A:GLY:H	3	0.19
(3,2157)	1:72:A:VAL:HA	1:75:A:GLY:H	6	0.19
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	11	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	15	0.19
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	17	0.19
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	20	0.19
(3,2120)	1:132:A:LEU:HD21	1:139:A:TYR:HE1	10	0.19
(3,2120)	1:132:A:LEU:HD22	1:139:A:TYR:HE1	11	0.19
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	3	0.19
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	3	0.19
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	10	0.19
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	10	0.19
(3,2105)	1:125:A:PHE:HE2	1:134:A:SER:HB2	18	0.19
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	7	0.19
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG11	8	0.19
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB3	3	0.19
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB3	16	0.19
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	2	0.19
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	16	0.19
(3,2023)	1:99:A:TYR:HD2	1:113:A:GLN:HG3	14	0.19
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	20	0.19
(3,1993)	1:107:A:LEU:HG	1:121:A:TYR:HB2	2	0.19
(3,1993)	1:107:A:LEU:HG	1:121:A:TYR:HB2	19	0.19
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG3	6	0.19
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG2	6	0.19
(3,1943)	1:55:A:ALA:H	1:82:A:SER:HB2	11	0.19
(3,1872)	1:137:A:LYS:H	1:138:A:ILE:HG21	18	0.19
(3,1867)	1:5:A:ASN:HA	1:82:A:SER:HB2	3	0.19
(3,1850)	1:54:A:LYS:HD3	1:82:A:SER:HB3	6	0.19
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD12	7	0.19
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD13	10	0.19
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD12	13	0.19
(3,1818)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	5	0.19
(3,1807)	1:99:A:TYR:HE1	1:110:A:ILE:HA	14	0.19
(3,1791)	1:135:A:PRO:HA	1:135:A:PRO:HB2	5	0.19
(3,1791)	1:135:A:PRO:HA	1:135:A:PRO:HB2	6	0.19
(3,1791)	1:135:A:PRO:HA	1:135:A:PRO:HB2	8	0.19
(3,1791)	1:135:A:PRO:HA	1:135:A:PRO:HB2	9	0.19
(3,1791)	1:135:A:PRO:HA	1:135:A:PRO:HB2	10	0.19
(3,1791)	1:135:A:PRO:HA	1:135:A:PRO:HB2	11	0.19
(3,1791)	1:135:A:PRO:HA	1:135:A:PRO:HB2	14	0.19
(3,1791)	1:135:A:PRO:HA	1:135:A:PRO:HB2	17	0.19
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	3	0.19
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	3	0.19
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	10	0.19
(3,1746)	1:18:A:VAL:HB	1:19:A:THR:HG23	19	0.19
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	5	0.19
(3,1721)	1:101:A:VAL:HA	1:102:A:LYS:HG2	1	0.19
(3,1700)	1:111:A:SER:H	1:124:A:ILE:HD13	18	0.19
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG21	4	0.19
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG23	11	0.19
(3,1676)	1:50:A:ILE:HG21	1:51:A:ALA:HA	19	0.19
(3,1664)	1:105:A:ASP:HB2	1:138:A:ILE:HD13	18	0.19
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG12	3	0.19
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	4	0.19
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	10	0.19
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	16	0.19
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	18	0.19
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	19	0.19
(3,1614)	1:97:A:GLN:HA	1:97:A:GLN:HB3	20	0.19
(3,1604)	1:109:A:ALA:HB2	1:110:A:ILE:H	15	0.19
(3,1595)	1:42:A:ASP:HB3	1:62:A:LEU:HD12	2	0.19
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	2	0.19
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	2	0.19
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	2	0.19
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	20	0.19
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	20	0.19
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	20	0.19
(3,1575)	1:146:A:ILE:HG23	1:147:A:PRO:HD2	12	0.19
(3,1573)	1:40:A:ILE:HD13	1:41:A:PRO:HD2	11	0.19
(3,1557)	1:50:A:ILE:HG22	1:55:A:ALA:HB2	5	0.19
(3,1555)	1:48:A:ILE:HG13	1:48:A:ILE:HG22	2	0.19
(3,1555)	1:48:A:ILE:HG13	1:48:A:ILE:HG23	17	0.19
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	9	0.19
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	9	0.19
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	9	0.19
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	16	0.19
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	16	0.19
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	16	0.19
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD11	2	0.19
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD13	8	0.19
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	19	0.19
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	9	0.19
(3,1389)	1:33:A:GLU:HA	1:33:A:GLU:HG3	12	0.19
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	17	0.19
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	20	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1311)	1:150:A:LEU:HD13	1:150:A:LEU:HG	18	0.19
(3,1302)	1:83:A:VAL:HG11	1:85:A:ASP:HB3	8	0.19
(3,1257)	1:120:A:LEU:HD11	1:123:A:LYS:HG3	10	0.19
(3,1257)	1:120:A:LEU:HD12	1:123:A:LYS:HG3	10	0.19
(3,1257)	1:120:A:LEU:HD13	1:123:A:LYS:HG3	10	0.19
(3,1257)	1:120:A:LEU:HD21	1:123:A:LYS:HG3	10	0.19
(3,1257)	1:120:A:LEU:HD22	1:123:A:LYS:HG3	10	0.19
(3,1257)	1:120:A:LEU:HD23	1:123:A:LYS:HG3	10	0.19
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	20	0.19
(3,1230)	1:28:A:ALA:HB3	1:50:A:ILE:HG13	19	0.19
(3,1229)	1:28:A:ALA:HB3	1:48:A:ILE:HG21	12	0.19
(3,1220)	1:105:A:ASP:HA	1:109:A:ALA:HB1	6	0.19
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	5	0.19
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	5	0.19
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	10	0.19
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	10	0.19
(3,1177)	1:113:A:GLN:HA	1:113:A:GLN:HG3	7	0.19
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	14	0.19
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	14	0.19
(3,1111)	1:137:A:LYS:HD2	1:137:A:LYS:HE3	4	0.19
(3,1111)	1:112:A:LYS:HD3	1:112:A:LYS:HE2	9	0.19
(3,1111)	1:112:A:LYS:HD3	1:112:A:LYS:HE3	11	0.19
(3,1111)	1:112:A:LYS:HD2	1:112:A:LYS:HE3	15	0.19
(3,1111)	1:112:A:LYS:HD3	1:112:A:LYS:HE2	19	0.19
(3,1111)	1:102:A:LYS:HD3	1:102:A:LYS:HE3	20	0.19
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	10	0.19
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	19	0.19
(3,1103)	1:15:A:TRP:HD1	1:20:A:GLY:HA3	3	0.19
(3,1103)	1:15:A:TRP:HD1	1:20:A:GLY:HA2	3	0.19
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB1	7	0.19
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	2	0.19
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	2	0.19
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	2	0.19
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	4	0.19
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	4	0.19
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	4	0.19
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	11	0.19
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	11	0.19
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	11	0.19
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	19	0.19
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	19	0.19
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	19	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	18	0.19
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	20	0.19
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	12	0.19
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	12	0.19
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	12	0.19
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	1	0.19
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	1	0.19
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	1	0.19
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	16	0.19
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	16	0.19
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	16	0.19
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	20	0.19
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	20	0.19
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	20	0.19
(3,1010)	1:127:A:ALA:HB3	1:128:A:ASN:HA	11	0.19
(3,1001)	1:66:A:ALA:HB3	1:67:A:LYS:H	16	0.19
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG21	16	0.19
(3,990)	1:113:A:GLN:HB2	1:114:A:VAL:HG22	19	0.19
(3,989)	1:113:A:GLN:HG3	1:114:A:VAL:HG21	1	0.19
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	3	0.19
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	3	0.19
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	3	0.19
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	9	0.19
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	9	0.19
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	9	0.19
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB3	20	0.19
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB2	20	0.19
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD11	4	0.19
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	11	0.19
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	11	0.19
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	1	0.19
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	3	0.19
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	11	0.19
(3,750)	1:37:A:LYS:HB2	1:38:A:THR:HG22	18	0.19
(3,740)	1:14:A:LEU:HD21	1:34:A:HIS:HB3	3	0.19
(3,740)	1:14:A:LEU:HD22	1:34:A:HIS:HB3	3	0.19
(3,740)	1:14:A:LEU:HD23	1:34:A:HIS:HB3	3	0.19
(3,731)	1:38:A:THR:HG23	1:131:A:MET:HA	20	0.19
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	12	0.19
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	10	0.19
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	10	0.19
(3,677)	1:3:A:LEU:HB2	1:84:A:ASP:HB2	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,674)	1:105:A:ASP:HB2	1:138:A:ILE:HD13	19	0.19
(3,659)	1:129:A:LYS:HE2	1:130:A:PRO:HA	9	0.19
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	18	0.19
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	9	0.19
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	18	0.19
(3,640)	1:6:A:PHE:HD1	1:82:A:SER:HA	13	0.19
(3,640)	1:6:A:PHE:HD2	1:82:A:SER:HA	13	0.19
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	6	0.19
(3,587)	1:42:A:ASP:HA	1:45:A:LYS:HE2	5	0.19
(3,587)	1:42:A:ASP:HA	1:45:A:LYS:HE2	10	0.19
(3,561)	1:3:A:LEU:HD21	1:5:A:ASN:HD22	8	0.19
(3,547)	1:29:A:LYS:HB3	1:29:A:LYS:HG2	20	0.19
(3,535)	1:62:A:LEU:HB3	1:66:A:ALA:HB1	13	0.19
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	20	0.19
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	4	0.19
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	4	0.19
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	11	0.19
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	11	0.19
(3,471)	1:115:A:TYR:HD1	1:120:A:LEU:HD22	15	0.19
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	18	0.19
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	18	0.19
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	18	0.19
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG11	18	0.19
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG12	18	0.19
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG13	18	0.19
(3,442)	1:115:A:TYR:HE2	1:120:A:LEU:HB3	14	0.19
(3,419)	1:131:A:MET:HE3	1:144:A:LEU:HA	18	0.19
(3,417)	1:131:A:MET:HE2	1:132:A:LEU:H	9	0.19
(3,416)	1:72:A:VAL:HG23	1:131:A:MET:HE1	19	0.19
(3,412)	1:112:A:LYS:H	1:118:A:ALA:HB3	5	0.19
(3,411)	1:112:A:LYS:HB2	1:118:A:ALA:HA	15	0.19
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	8	0.19
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	3	0.19
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	16	0.19
(3,315)	1:13:A:LYS:HD3	1:13:A:LYS:HG2	8	0.19
(3,315)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	13	0.19
(3,278)	1:27:A:GLN:H	1:27:A:GLN:HG2	10	0.19
(3,264)	1:47:A:ASN:HB3	1:48:A:ILE:H	14	0.19
(3,264)	1:47:A:ASN:HB2	1:48:A:ILE:H	14	0.19
(3,263)	1:47:A:ASN:H	1:47:A:ASN:HB2	2	0.19
(3,254)	1:37:A:LYS:H	1:37:A:LYS:HD2	19	0.19
(3,248)	1:35:A:LEU:HD23	1:74:A:VAL:H	12	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,234)	1:29:A:LYS:H	1:29:A:LYS:HE2	9	0.19
(3,234)	1:59:A:GLY:H	1:88:A:LYS:HE2	10	0.19
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	9	0.19
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	13	0.19
(3,155)	1:49:A:GLN:H	1:49:A:GLN:HG3	9	0.19
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD21	15	0.19
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD22	15	0.19
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD23	15	0.19
(3,131)	1:121:A:TYR:HE2	1:135:A:PRO:HG3	10	0.19
(3,131)	1:121:A:TYR:HE2	1:135:A:PRO:HG3	14	0.19
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	2	0.19
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	2	0.19
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	2	0.19
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	15	0.19
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	15	0.19
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	15	0.19
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD11	18	0.19
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD12	18	0.19
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD13	18	0.19
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	4	0.19
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD11	9	0.19
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB1	7	0.19
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB2	7	0.19
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB3	7	0.19
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB1	16	0.19
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB2	16	0.19
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB3	16	0.19
(3,43)	1:37:A:LYS:H	1:37:A:LYS:HG2	14	0.19
(1,2476)	1:32:A:GLN:HA	1:32:A:GLN:HE22	18	0.19
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	1	0.19
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	13	0.19
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	20	0.19
(1,1952)	1:85:A:ASP:H	1:86:A:GLN:HE22	4	0.19
(1,1952)	1:85:A:ASP:H	1:86:A:GLN:HE22	6	0.19
(1,1892)	1:110:A:ILE:HG22	1:113:A:GLN:HE22	14	0.19
(1,1811)	1:148:A:GLU:H	1:149:A:GLU:HB3	8	0.19
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	1	0.19
(1,1761)	1:97:A:GLN:H	1:146:A:ILE:HD13	15	0.19
(1,1757)	1:96:A:SER:HB3	1:97:A:GLN:H	13	0.19
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	11	0.19
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	19	0.19
(1,1751)	1:96:A:SER:H	1:145:A:ARG:HG2	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1738)	1:94:A:THR:HB	1:95:A:ALA:H	14	0.19
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	14	0.19
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	6	0.19
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	7	0.19
(1,1708)	1:9:A:ASP:HA	1:79:A:GLY:H	18	0.19
(1,1696)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	3	0.19
(1,1683)	1:54:A:LYS:H	1:82:A:SER:HB3	4	0.19
(1,1665)	1:41:A:PRO:HG2	1:42:A:ASP:H	4	0.19
(1,1662)	1:42:A:ASP:H	1:45:A:LYS:HG3	1	0.19
(1,1571)	1:148:A:GLU:HG3	1:151:A:GLU:H	11	0.19
(1,1566)	1:149:A:GLU:HG2	1:150:A:LEU:H	6	0.19
(1,1518)	1:145:A:ARG:H	1:147:A:PRO:HG3	4	0.19
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD22	8	0.19
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	3	0.19
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	3	0.19
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	3	0.19
(1,1484)	1:101:A:VAL:HA	1:143:A:VAL:H	19	0.19
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	14	0.19
(1,1477)	1:142:A:GLN:H	1:144:A:LEU:H	19	0.19
(1,1460)	1:101:A:VAL:HG21	1:142:A:GLN:H	20	0.19
(1,1460)	1:101:A:VAL:HG22	1:142:A:GLN:H	20	0.19
(1,1460)	1:101:A:VAL:HG23	1:142:A:GLN:H	20	0.19
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	11	0.19
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	14	0.19
(1,1358)	1:130:A:PRO:HG3	1:131:A:MET:H	11	0.19
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	20	0.19
(1,1330)	1:72:A:VAL:HG23	1:128:A:ASN:H	10	0.19
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE3	13	0.19
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	15	0.19
(1,1300)	1:122:A:ASN:HA	1:127:A:ALA:H	15	0.19
(1,1290)	1:124:A:ILE:HD12	1:127:A:ALA:H	15	0.19
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG21	9	0.19
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG23	17	0.19
(1,1197)	1:112:A:LYS:HG2	1:117:A:ASN:H	8	0.19
(1,1163)	1:115:A:TYR:H	1:146:A:ILE:HB	9	0.19
(1,1149)	1:114:A:VAL:H	1:117:A:ASN:H	4	0.19
(1,1149)	1:114:A:VAL:H	1:117:A:ASN:H	5	0.19
(1,1131)	1:112:A:LYS:HB2	1:113:A:GLN:H	7	0.19
(1,1117)	1:111:A:SER:H	1:120:A:LEU:H	16	0.19
(1,961)	1:87:A:VAL:H	1:88:A:LYS:HG3	3	0.19
(1,961)	1:87:A:VAL:H	1:88:A:LYS:HG3	8	0.19
(1,920)	1:83:A:VAL:HG21	1:84:A:ASP:H	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,920)	1:83:A:VAL:HG22	1:84:A:ASP:H	6	0.19
(1,920)	1:83:A:VAL:HG21	1:84:A:ASP:H	10	0.19
(1,920)	1:57:A:VAL:HG12	1:84:A:ASP:H	18	0.19
(1,886)	1:80:A:ILE:H	1:80:A:ILE:HD11	13	0.19
(1,881)	1:14:A:LEU:HD11	1:80:A:ILE:H	11	0.19
(1,881)	1:14:A:LEU:HD12	1:80:A:ILE:H	11	0.19
(1,881)	1:14:A:LEU:HD13	1:80:A:ILE:H	11	0.19
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	14	0.19
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	15	0.19
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB1	9	0.19
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB2	10	0.19
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG11	2	0.19
(1,763)	1:71:A:LEU:H	1:73:A:ALA:HB1	16	0.19
(1,701)	1:62:A:LEU:HD22	1:67:A:LYS:H	9	0.19
(1,701)	1:62:A:LEU:HD21	1:67:A:LYS:H	11	0.19
(1,699)	1:67:A:LYS:H	1:67:A:LYS:HG2	5	0.19
(1,672)	1:62:A:LEU:HB2	1:66:A:ALA:H	15	0.19
(1,649)	1:59:A:GLY:HA3	1:62:A:LEU:H	15	0.19
(1,566)	1:50:A:ILE:HD13	1:56:A:THR:H	20	0.19
(1,560)	1:48:A:ILE:HB	1:56:A:THR:H	1	0.19
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG12	4	0.19
(1,536)	1:52:A:ASP:HB2	1:54:A:LYS:H	9	0.19
(1,529)	1:51:A:ALA:H	1:54:A:LYS:HG3	7	0.19
(1,515)	1:49:A:GLN:HB3	1:50:A:ILE:H	8	0.19
(1,346)	1:124:A:ILE:HD12	1:125:A:PHE:H	8	0.19
(1,309)	1:29:A:LYS:HE2	1:33:A:GLU:H	9	0.19
(1,288)	1:32:A:GLN:H	1:32:A:GLN:HG2	19	0.19
(1,272)	1:27:A:GLN:HB3	1:31:A:VAL:H	9	0.19
(1,272)	1:27:A:GLN:HB3	1:31:A:VAL:H	14	0.19
(1,269)	1:30:A:LYS:H	1:50:A:ILE:HD13	17	0.19
(1,265)	1:30:A:LYS:H	1:30:A:LYS:HG2	7	0.19
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB2	11	0.19
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	14	0.19
(1,230)	1:26:A:ASP:HB2	1:28:A:ALA:H	20	0.19
(1,222)	1:27:A:GLN:H	1:29:A:LYS:HB3	18	0.19
(1,187)	1:15:A:TRP:H	1:30:A:LYS:HG3	13	0.19
(1,142)	1:12:A:GLU:H	1:77:A:ILE:HB	1	0.19
(1,141)	1:12:A:GLU:H	1:142:A:GLN:HG3	15	0.19
(1,83)	1:6:A:PHE:H	1:98:A:PHE:HB3	10	0.19
(1,19)	1:15:A:TRP:HE1	1:79:A:GLY:HA3	8	0.19
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG21	15	0.19
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	16	0.18
(3,2802)	1:91:A:THR:HA	1:92:A:PRO:HD2	3	0.18
(3,2802)	1:91:A:THR:HA	1:92:A:PRO:HD2	5	0.18
(3,2802)	1:91:A:THR:HA	1:92:A:PRO:HD2	16	0.18
(3,2778)	1:22:A:HIS:HA	1:23:A:ASP:H	9	0.18
(3,2778)	1:22:A:HIS:HA	1:23:A:ASP:H	19	0.18
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	3	0.18
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	3	0.18
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	4	0.18
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	4	0.18
(3,2729)	1:126:A:GLU:HG3	1:127:A:ALA:H	18	0.18
(3,2560)	1:110:A:ILE:HA	1:113:A:GLN:HG3	17	0.18
(3,2547)	1:64:A:GLN:HE22	1:64:A:GLN:HG2	20	0.18
(3,2516)	1:110:A:ILE:HD13	1:111:A:SER:H	12	0.18
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	1	0.18
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	1	0.18
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	1	0.18
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	13	0.18
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	13	0.18
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	13	0.18
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	17	0.18
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	17	0.18
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	17	0.18
(3,2474)	1:107:A:LEU:H	1:144:A:LEU:HD22	13	0.18
(3,2463)	1:81:A:ALA:H	1:82:A:SER:HB3	14	0.18
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG21	19	0.18
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	5	0.18
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	5	0.18
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	12	0.18
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	12	0.18
(3,2436)	1:69:A:LYS:HA	1:69:A:LYS:HE3	6	0.18
(3,2407)	1:142:A:GLN:HB2	1:143:A:VAL:H	13	0.18
(3,2407)	1:142:A:GLN:HB2	1:143:A:VAL:H	19	0.18
(3,2378)	1:15:A:TRP:HE3	1:31:A:VAL:HG23	13	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG11	3	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG12	3	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG13	3	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG21	3	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG22	3	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG23	3	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG11	5	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG12	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG13	5	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG21	5	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG22	5	0.18
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG23	5	0.18
(3,2358)	1:129:A:LYS:HD3	1:130:A:PRO:HA	1	0.18
(3,2358)	1:129:A:LYS:HD3	1:130:A:PRO:HA	9	0.18
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD11	13	0.18
(3,2348)	1:71:A:LEU:HB2	1:83:A:VAL:HG12	12	0.18
(3,2306)	1:107:A:LEU:HD11	1:144:A:LEU:HD21	16	0.18
(3,2304)	1:138:A:ILE:HB	1:144:A:LEU:HD22	5	0.18
(3,2295)	1:94:A:THR:HG21	1:148:A:GLU:H	19	0.18
(3,2289)	1:71:A:LEU:HB3	1:71:A:LEU:HD23	17	0.18
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD21	14	0.18
(3,2282)	1:41:A:PRO:HD2	1:130:A:PRO:HG3	13	0.18
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	7	0.18
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	11	0.18
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD11	2	0.18
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD12	12	0.18
(3,2259)	1:117:A:ASN:HB2	1:156:A:HIS:HB2	8	0.18
(3,2249)	1:135:A:PRO:HG2	1:136:A:ASP:H	3	0.18
(3,2248)	1:125:A:PHE:HA	1:135:A:PRO:HA	8	0.18
(3,2248)	1:125:A:PHE:HA	1:135:A:PRO:HA	9	0.18
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	4	0.18
(3,2168)	1:124:A:ILE:HG21	1:128:A:ASN:HB2	2	0.18
(3,2157)	1:72:A:VAL:HA	1:76:A:ASN:H	9	0.18
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	2	0.18
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	7	0.18
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	9	0.18
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	12	0.18
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	16	0.18
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	19	0.18
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	20	0.18
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	9	0.18
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	9	0.18
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	11	0.18
(3,2087)	1:101:A:VAL:HG11	1:110:A:ILE:HG21	15	0.18
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG12	6	0.18
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB3	2	0.18
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB2	17	0.18
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG21	2	0.18
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG21	10	0.18
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG3	7	0.18
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG2	7	0.18
(3,1872)	1:137:A:LYS:H	1:138:A:ILE:HG23	6	0.18
(3,1870)	1:82:A:SER:H	1:82:A:SER:HB2	15	0.18
(3,1867)	1:5:A:ASN:HA	1:82:A:SER:HB2	18	0.18
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG22	3	0.18
(3,1836)	1:148:A:GLU:HB3	1:148:A:GLU:HG2	7	0.18
(3,1831)	1:14:A:LEU:HD11	1:30:A:LYS:HB2	8	0.18
(3,1808)	1:63:A:SER:HB3	1:65:A:GLU:H	15	0.18
(3,1804)	1:125:A:PHE:HD2	1:135:A:PRO:HA	9	0.18
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	8	0.18
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	12	0.18
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	9	0.18
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	9	0.18
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	9	0.18
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	14	0.18
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	14	0.18
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	14	0.18
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	13	0.18
(3,1721)	1:101:A:VAL:HA	1:102:A:LYS:HG2	6	0.18
(3,1689)	1:54:A:LYS:HA	1:81:A:ALA:H	15	0.18
(3,1637)	1:91:A:THR:HG21	1:92:A:PRO:HD2	10	0.18
(3,1604)	1:109:A:ALA:HB1	1:110:A:ILE:H	18	0.18
(3,1555)	1:48:A:ILE:HG13	1:48:A:ILE:HG23	12	0.18
(3,1555)	1:48:A:ILE:HG13	1:48:A:ILE:HG23	19	0.18
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG22	5	0.18
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG23	8	0.18
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG22	12	0.18
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG21	15	0.18
(3,1539)	1:40:A:ILE:HD11	1:73:A:ALA:HB2	8	0.18
(3,1530)	1:124:A:ILE:HG12	1:146:A:ILE:HD11	8	0.18
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	1	0.18
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	1	0.18
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	1	0.18
(3,1500)	1:115:A:TYR:HE1	1:148:A:GLU:HA	20	0.18
(3,1500)	1:115:A:TYR:HE2	1:148:A:GLU:HA	20	0.18
(3,1499)	1:3:A:LEU:HG	1:4:A:PHE:H	13	0.18
(3,1468)	1:15:A:TRP:HE3	1:30:A:LYS:HD3	7	0.18
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	18	0.18
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	20	0.18
(3,1432)	1:24:A:LYS:HA	1:25:A:ASP:H	1	0.18
(3,1426)	1:62:A:LEU:HD21	1:66:A:ALA:HB3	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	11	0.18
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	11	0.18
(3,1388)	1:113:A:GLN:HA	1:116:A:GLY:H	19	0.18
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	6	0.18
(3,1367)	1:110:A:ILE:HA	1:113:A:GLN:HG3	10	0.18
(3,1367)	1:110:A:ILE:HA	1:113:A:GLN:HG3	15	0.18
(3,1347)	1:115:A:TYR:HE1	1:149:A:GLU:HB3	2	0.18
(3,1347)	1:115:A:TYR:HE2	1:149:A:GLU:HB3	2	0.18
(3,1347)	1:115:A:TYR:HE1	1:149:A:GLU:HB3	18	0.18
(3,1347)	1:115:A:TYR:HE2	1:149:A:GLU:HB3	18	0.18
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD11	20	0.18
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD12	20	0.18
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD13	20	0.18
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	8	0.18
(3,1311)	1:150:A:LEU:HD13	1:150:A:LEU:HG	8	0.18
(3,1311)	1:150:A:LEU:HD11	1:150:A:LEU:HG	15	0.18
(3,1308)	1:31:A:VAL:HG13	1:77:A:ILE:HG12	5	0.18
(3,1296)	1:87:A:VAL:HB	1:87:A:VAL:HG13	1	0.18
(3,1230)	1:28:A:ALA:HB1	1:50:A:ILE:HG13	7	0.18
(3,1230)	1:28:A:ALA:HB3	1:50:A:ILE:HG13	9	0.18
(3,1229)	1:28:A:ALA:HB1	1:48:A:ILE:HG21	14	0.18
(3,1213)	1:124:A:ILE:HG21	1:125:A:PHE:H	17	0.18
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	18	0.18
(3,1177)	1:38:A:THR:HB	1:130:A:PRO:HB2	8	0.18
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	3	0.18
(3,1111)	1:137:A:LYS:HD3	1:137:A:LYS:HE2	2	0.18
(3,1111)	1:137:A:LYS:HD3	1:137:A:LYS:HE2	5	0.18
(3,1111)	1:102:A:LYS:HD3	1:102:A:LYS:HE3	17	0.18
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	3	0.18
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	4	0.18
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	5	0.18
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	20	0.18
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	10	0.18
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	10	0.18
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	10	0.18
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	15	0.18
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	15	0.18
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	15	0.18
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	18	0.18
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	18	0.18
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	18	0.18
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	20	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	20	0.18
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	20	0.18
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	13	0.18
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	13	0.18
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	13	0.18
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	5	0.18
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	5	0.18
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	5	0.18
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG11	1	0.18
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG12	1	0.18
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG13	1	0.18
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG11	1	0.18
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG12	1	0.18
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG13	1	0.18
(3,956)	1:30:A:LYS:HE3	1:30:A:LYS:HG2	2	0.18
(3,956)	1:30:A:LYS:HE2	1:30:A:LYS:HG2	2	0.18
(3,955)	1:14:A:LEU:HD11	1:34:A:HIS:HB3	17	0.18
(3,955)	1:14:A:LEU:HD12	1:34:A:HIS:HB3	17	0.18
(3,955)	1:14:A:LEU:HD13	1:34:A:HIS:HB3	17	0.18
(3,945)	1:125:A:PHE:HA	1:132:A:LEU:HD13	9	0.18
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB3	15	0.18
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB2	15	0.18
(3,918)	1:13:A:LYS:HA	1:15:A:TRP:H	20	0.18
(3,820)	1:52:A:ASP:HB3	1:53:A:GLY:H	10	0.18
(3,809)	1:73:A:ALA:HA	1:131:A:MET:HG2	15	0.18
(3,807)	1:72:A:VAL:HG11	1:73:A:ALA:HA	10	0.18
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	8	0.18
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	8	0.18
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	8	0.18
(3,769)	1:111:A:SER:HB2	1:121:A:TYR:HA	13	0.18
(3,767)	1:121:A:TYR:HA	1:124:A:ILE:HB	8	0.18
(3,760)	1:8:A:LYS:HA	1:8:A:LYS:HG3	4	0.18
(3,731)	1:38:A:THR:HG23	1:131:A:MET:HA	10	0.18
(3,708)	1:99:A:TYR:H	1:143:A:VAL:HG22	1	0.18
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	1	0.18
(3,675)	1:120:A:LEU:HD11	1:123:A:LYS:HE3	11	0.18
(3,675)	1:120:A:LEU:HD12	1:123:A:LYS:HE3	11	0.18
(3,675)	1:120:A:LEU:HD13	1:123:A:LYS:HE3	11	0.18
(3,675)	1:120:A:LEU:HD11	1:123:A:LYS:HE2	11	0.18
(3,675)	1:120:A:LEU:HD12	1:123:A:LYS:HE2	11	0.18
(3,675)	1:120:A:LEU:HD13	1:123:A:LYS:HE2	11	0.18
(3,675)	1:120:A:LEU:HD21	1:123:A:LYS:HE3	11	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,675)	1:120:A:LEU:HD22	1:123:A:LYS:HE3	11	0.18
(3,675)	1:120:A:LEU:HD23	1:123:A:LYS:HE3	11	0.18
(3,675)	1:120:A:LEU:HD21	1:123:A:LYS:HE2	11	0.18
(3,675)	1:120:A:LEU:HD22	1:123:A:LYS:HE2	11	0.18
(3,675)	1:120:A:LEU:HD23	1:123:A:LYS:HE2	11	0.18
(3,675)	1:120:A:LEU:HD11	1:123:A:LYS:HE3	19	0.18
(3,675)	1:120:A:LEU:HD12	1:123:A:LYS:HE3	19	0.18
(3,675)	1:120:A:LEU:HD13	1:123:A:LYS:HE3	19	0.18
(3,675)	1:120:A:LEU:HD11	1:123:A:LYS:HE2	19	0.18
(3,675)	1:120:A:LEU:HD12	1:123:A:LYS:HE2	19	0.18
(3,675)	1:120:A:LEU:HD13	1:123:A:LYS:HE2	19	0.18
(3,675)	1:120:A:LEU:HD21	1:123:A:LYS:HE3	19	0.18
(3,675)	1:120:A:LEU:HD22	1:123:A:LYS:HE3	19	0.18
(3,675)	1:120:A:LEU:HD23	1:123:A:LYS:HE3	19	0.18
(3,675)	1:120:A:LEU:HD21	1:123:A:LYS:HE2	19	0.18
(3,675)	1:120:A:LEU:HD22	1:123:A:LYS:HE2	19	0.18
(3,675)	1:120:A:LEU:HD23	1:123:A:LYS:HE2	19	0.18
(3,661)	1:123:A:LYS:HE3	1:149:A:GLU:HA	5	0.18
(3,661)	1:123:A:LYS:HE2	1:149:A:GLU:HA	5	0.18
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	14	0.18
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	2	0.18
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	15	0.18
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	17	0.18
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	18	0.18
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	20	0.18
(3,556)	1:3:A:LEU:HD11	1:54:A:LYS:HA	7	0.18
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	5	0.18
(3,542)	1:3:A:LEU:HD21	1:84:A:ASP:HB2	16	0.18
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG23	13	0.18
(3,507)	1:125:A:PHE:HE2	1:133:A:LYS:HA	12	0.18
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	3	0.18
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	3	0.18
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	7	0.18
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	7	0.18
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	13	0.18
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	13	0.18
(3,363)	1:30:A:LYS:HA	1:30:A:LYS:HG3	12	0.18
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	9	0.18
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	10	0.18
(3,317)	1:67:A:LYS:HA	1:67:A:LYS:HE2	17	0.18
(3,315)	1:13:A:LYS:HD2	1:13:A:LYS:HG2	17	0.18
(3,315)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,315)	1:13:A:LYS:HD3	1:13:A:LYS:HG2	20	0.18
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE3	11	0.18
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE2	11	0.18
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE3	14	0.18
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE2	14	0.18
(3,234)	1:45:A:LYS:H	1:45:A:LYS:HE3	8	0.18
(3,229)	1:18:A:VAL:HG12	1:19:A:THR:H	15	0.18
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	5	0.18
(3,211)	1:147:A:PRO:HB2	1:148:A:GLU:H	20	0.18
(3,174)	1:40:A:ILE:HD11	1:130:A:PRO:HD2	12	0.18
(3,174)	1:40:A:ILE:HD12	1:130:A:PRO:HD2	12	0.18
(3,174)	1:40:A:ILE:HD13	1:130:A:PRO:HD2	12	0.18
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD21	20	0.18
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	16	0.18
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	16	0.18
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	16	0.18
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG21	17	0.18
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG22	17	0.18
(3,74)	1:50:A:ILE:H	1:50:A:ILE:HG23	17	0.18
(3,69)	1:51:A:ALA:H	1:80:A:ILE:HD11	14	0.18
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	1	0.18
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD11	11	0.18
(3,47)	1:88:A:LYS:HG2	1:89:A:THR:H	3	0.18
(3,43)	1:37:A:LYS:H	1:37:A:LYS:HG2	20	0.18
(3,20)	1:139:A:TYR:HD2	1:140:A:PRO:HD2	15	0.18
(3,14)	1:144:A:LEU:HB2	1:145:A:ARG:H	18	0.18
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	6	0.18
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	8	0.18
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	10	0.18
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	11	0.18
(1,2168)	1:64:A:GLN:HB3	1:64:A:GLN:HE21	6	0.18
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB3	1	0.18
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB2	1	0.18
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB3	5	0.18
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB2	5	0.18
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	15	0.18
(1,1979)	1:70:A:ILE:HG13	1:74:A:VAL:H	17	0.18
(1,1952)	1:85:A:ASP:H	1:86:A:GLN:HE22	8	0.18
(1,1940)	1:53:A:GLY:H	1:80:A:ILE:HD12	9	0.18
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	6	0.18
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	16	0.18
(1,1795)	1:72:A:VAL:H	1:76:A:ASN:HD22	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1788)	1:112:A:LYS:HG3	1:115:A:TYR:H	20	0.18
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	6	0.18
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	12	0.18
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	16	0.18
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	18	0.18
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	10	0.18
(1,1692)	1:65:A:GLU:H	1:67:A:LYS:HG2	6	0.18
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	10	0.18
(1,1663)	1:42:A:ASP:H	1:45:A:LYS:HG2	12	0.18
(1,1662)	1:42:A:ASP:H	1:66:A:ALA:HB1	2	0.18
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG22	20	0.18
(1,1591)	1:117:A:ASN:HD22	1:120:A:LEU:HG	19	0.18
(1,1577)	1:56:A:THR:HG21	1:86:A:GLN:HE21	1	0.18
(1,1577)	1:56:A:THR:HG22	1:86:A:GLN:HE21	1	0.18
(1,1577)	1:56:A:THR:HG23	1:86:A:GLN:HE21	1	0.18
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	20	0.18
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	19	0.18
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD21	4	0.18
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	16	0.18
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	16	0.18
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	16	0.18
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	20	0.18
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	20	0.18
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	20	0.18
(1,1474)	1:99:A:TYR:HE1	1:142:A:GLN:H	19	0.18
(1,1457)	1:138:A:ILE:HD12	1:141:A:GLY:H	16	0.18
(1,1427)	1:138:A:ILE:H	1:142:A:GLN:HE21	13	0.18
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	17	0.18
(1,1339)	1:69:A:LYS:HE2	1:129:A:LYS:H	10	0.18
(1,1331)	1:129:A:LYS:H	1:129:A:LYS:HB2	19	0.18
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE1	5	0.18
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	8	0.18
(1,1300)	1:122:A:ASN:HA	1:127:A:ALA:H	19	0.18
(1,1290)	1:124:A:ILE:HD11	1:127:A:ALA:H	12	0.18
(1,1290)	1:124:A:ILE:HD12	1:127:A:ALA:H	14	0.18
(1,1288)	1:124:A:ILE:HG13	1:127:A:ALA:H	13	0.18
(1,1283)	1:107:A:LEU:HD21	1:126:A:GLU:H	8	0.18
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	4	0.18
(1,1195)	1:112:A:LYS:HG3	1:117:A:ASN:H	2	0.18
(1,1149)	1:114:A:VAL:H	1:117:A:ASN:H	15	0.18
(1,1118)	1:99:A:TYR:HE1	1:111:A:SER:H	2	0.18
(1,996)	1:92:A:PRO:HD3	1:93:A:ALA:H	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,961)	1:87:A:VAL:H	1:88:A:LYS:HG3	20	0.18
(1,923)	1:83:A:VAL:HG11	1:84:A:ASP:H	12	0.18
(1,923)	1:83:A:VAL:HG12	1:84:A:ASP:H	12	0.18
(1,923)	1:83:A:VAL:HG13	1:84:A:ASP:H	12	0.18
(1,918)	1:3:A:LEU:HD11	1:82:A:SER:H	5	0.18
(1,914)	1:80:A:ILE:HG12	1:82:A:SER:H	4	0.18
(1,881)	1:14:A:LEU:HD11	1:80:A:ILE:H	9	0.18
(1,881)	1:14:A:LEU:HD12	1:80:A:ILE:H	9	0.18
(1,881)	1:14:A:LEU:HD13	1:80:A:ILE:H	9	0.18
(1,847)	1:7:A:VAL:H	1:100:A:THR:HG21	18	0.18
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	3	0.18
(1,800)	1:72:A:VAL:HG12	1:73:A:ALA:H	11	0.18
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG11	2	0.18
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG12	14	0.18
(1,654)	1:62:A:LEU:HG	1:63:A:SER:H	19	0.18
(1,609)	1:59:A:GLY:H	1:88:A:LYS:HB2	9	0.18
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG12	16	0.18
(1,529)	1:51:A:ALA:H	1:54:A:LYS:HG3	6	0.18
(1,509)	1:50:A:ILE:H	1:50:A:ILE:HD13	5	0.18
(1,509)	1:50:A:ILE:H	1:50:A:ILE:HD13	13	0.18
(1,494)	1:48:A:ILE:H	1:49:A:GLN:HB3	8	0.18
(1,489)	1:48:A:ILE:H	1:50:A:ILE:HG13	16	0.18
(1,488)	1:48:A:ILE:H	1:48:A:ILE:HG12	19	0.18
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG12	16	0.18
(1,459)	1:45:A:LYS:HD3	1:46:A:VAL:H	12	0.18
(1,454)	1:45:A:LYS:H	1:45:A:LYS:HD2	4	0.18
(1,301)	1:129:A:LYS:HB2	1:132:A:LEU:H	11	0.18
(1,293)	1:32:A:GLN:H	1:48:A:ILE:HG13	9	0.18
(1,288)	1:32:A:GLN:H	1:32:A:GLN:HG3	1	0.18
(1,278)	1:14:A:LEU:HD11	1:31:A:VAL:H	18	0.18
(1,278)	1:14:A:LEU:HD12	1:31:A:VAL:H	18	0.18
(1,278)	1:14:A:LEU:HD13	1:31:A:VAL:H	18	0.18
(1,260)	1:26:A:ASP:HB3	1:30:A:LYS:H	9	0.18
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB3	1	0.18
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	3	0.18
(1,203)	1:17:A:ALA:HB1	1:18:A:VAL:H	9	0.18
(1,203)	1:17:A:ALA:HB2	1:18:A:VAL:H	9	0.18
(1,203)	1:17:A:ALA:HB3	1:18:A:VAL:H	9	0.18
(1,203)	1:17:A:ALA:HB1	1:18:A:VAL:H	19	0.18
(1,203)	1:17:A:ALA:HB2	1:18:A:VAL:H	19	0.18
(1,203)	1:17:A:ALA:HB3	1:18:A:VAL:H	19	0.18
(1,165)	1:14:A:LEU:H	1:14:A:LEU:HG	20	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,141)	1:12:A:GLU:H	1:142:A:GLN:HG2	6	0.18
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	13	0.18
(1,96)	1:8:A:LYS:H	1:8:A:LYS:HD3	13	0.18
(1,83)	1:6:A:PHE:H	1:98:A:PHE:HB3	19	0.18
(1,49)	1:82:A:SER:HB2	1:83:A:VAL:H	1	0.18
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	11	0.17
(3,2938)	1:96:A:SER:HB3	1:146:A:ILE:H	13	0.17
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	8	0.17
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	18	0.17
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	20	0.17
(3,2802)	1:91:A:THR:HA	1:92:A:PRO:HD2	2	0.17
(3,2802)	1:91:A:THR:HA	1:92:A:PRO:HD2	18	0.17
(3,2799)	1:139:A:TYR:HE1	1:142:A:GLN:HE21	19	0.17
(3,2799)	1:139:A:TYR:HE2	1:142:A:GLN:HE21	19	0.17
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	18	0.17
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	18	0.17
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	18	0.17
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG11	2	0.17
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG12	2	0.17
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG13	2	0.17
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG11	18	0.17
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG12	18	0.17
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG13	18	0.17
(3,2778)	1:22:A:HIS:HA	1:23:A:ASP:H	15	0.17
(3,2778)	1:22:A:HIS:HA	1:23:A:ASP:H	16	0.17
(3,2778)	1:22:A:HIS:HA	1:23:A:ASP:H	17	0.17
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	1	0.17
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	1	0.17
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	15	0.17
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	15	0.17
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	19	0.17
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	19	0.17
(3,2729)	1:126:A:GLU:HG3	1:127:A:ALA:H	12	0.17
(3,2729)	1:126:A:GLU:HG3	1:127:A:ALA:H	16	0.17
(3,2516)	1:110:A:ILE:HD12	1:111:A:SER:H	1	0.17
(3,2516)	1:110:A:ILE:HD12	1:111:A:SER:H	4	0.17
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	7	0.17
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	7	0.17
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	7	0.17
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	11	0.17
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	11	0.17
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	20	0.17
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	20	0.17
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	20	0.17
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	12	0.17
(3,2458)	1:125:A:PHE:HD1	1:129:A:LYS:HD3	19	0.17
(3,2458)	1:125:A:PHE:HD2	1:129:A:LYS:HD3	19	0.17
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	8	0.17
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	8	0.17
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	11	0.17
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	11	0.17
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	15	0.17
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	15	0.17
(3,2439)	1:6:A:PHE:HB2	1:81:A:ALA:HB1	15	0.17
(3,2404)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	10	0.17
(3,2358)	1:129:A:LYS:HD3	1:130:A:PRO:HA	20	0.17
(3,2300)	1:138:A:ILE:HA	1:144:A:LEU:HD22	14	0.17
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD13	16	0.17
(3,2248)	1:125:A:PHE:HA	1:135:A:PRO:HA	3	0.17
(3,2248)	1:125:A:PHE:HA	1:135:A:PRO:HA	4	0.17
(3,2248)	1:125:A:PHE:HA	1:135:A:PRO:HA	7	0.17
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	11	0.17
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	12	0.17
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	13	0.17
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	14	0.17
(3,2214)	1:107:A:LEU:HD11	1:108:A:SER:H	1	0.17
(3,2178)	1:65:A:GLU:HG2	1:66:A:ALA:H	12	0.17
(3,2177)	1:54:A:LYS:HD2	1:84:A:ASP:H	6	0.17
(3,2170)	1:107:A:LEU:HD13	1:125:A:PHE:HB3	16	0.17
(3,2168)	1:124:A:ILE:HG23	1:128:A:ASN:HB2	13	0.17
(3,2162)	1:124:A:ILE:HA	1:128:A:ASN:H	16	0.17
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	13	0.17
(3,2120)	1:132:A:LEU:HD12	1:139:A:TYR:HE1	5	0.17
(3,2106)	1:111:A:SER:HA	1:115:A:TYR:HE2	2	0.17
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	6	0.17
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG22	1	0.17
(3,2074)	1:111:A:SER:HA	1:114:A:VAL:HG11	10	0.17
(3,2073)	1:107:A:LEU:HB3	1:108:A:SER:HA	5	0.17
(3,2073)	1:107:A:LEU:HB3	1:108:A:SER:HA	10	0.17
(3,2068)	1:106:A:THR:HB	1:109:A:ALA:HB2	20	0.17
(3,2067)	1:57:A:VAL:HG21	1:71:A:LEU:HA	5	0.17
(3,2067)	1:57:A:VAL:HG22	1:71:A:LEU:HA	5	0.17
(3,2067)	1:57:A:VAL:HG23	1:71:A:LEU:HA	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2061)	1:120:A:LEU:H	1:121:A:TYR:HA	18	0.17
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD2	14	0.17
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE1	6	0.17
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE2	6	0.17
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE3	6	0.17
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE1	6	0.17
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE2	6	0.17
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE3	6	0.17
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE1	6	0.17
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE2	6	0.17
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE3	6	0.17
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG23	6	0.17
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG23	16	0.17
(3,2042)	1:35:A:LEU:HD13	1:35:A:LEU:HG	17	0.17
(3,2023)	1:99:A:TYR:HD2	1:113:A:GLN:HG3	16	0.17
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	8	0.17
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	19	0.17
(3,1984)	1:38:A:THR:HG21	1:131:A:MET:HG2	13	0.17
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	13	0.17
(3,1957)	1:128:A:ASN:HA	1:145:A:ARG:HB2	1	0.17
(3,1930)	1:71:A:LEU:H	1:71:A:LEU:HG	3	0.17
(3,1930)	1:71:A:LEU:H	1:71:A:LEU:HG	11	0.17
(3,1882)	1:63:A:SER:HB3	1:64:A:GLN:HB3	20	0.17
(3,1870)	1:82:A:SER:H	1:82:A:SER:HB2	9	0.17
(3,1850)	1:54:A:LYS:HD2	1:82:A:SER:HB3	5	0.17
(3,1826)	1:67:A:LYS:HE2	1:87:A:VAL:HB	10	0.17
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	3	0.17
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	11	0.17
(3,1756)	1:49:A:GLN:HG3	1:56:A:THR:HB	17	0.17
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	18	0.17
(3,1722)	1:125:A:PHE:HD1	1:129:A:LYS:HD2	9	0.17
(3,1722)	1:125:A:PHE:HD2	1:129:A:LYS:HD2	9	0.17
(3,1710)	1:50:A:ILE:HD13	1:55:A:ALA:HB1	4	0.17
(3,1696)	1:115:A:TYR:HD2	1:146:A:ILE:HG23	6	0.17
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG12	6	0.17
(3,1676)	1:50:A:ILE:HG23	1:51:A:ALA:HA	9	0.17
(3,1605)	1:127:A:ALA:HB1	1:145:A:ARG:H	1	0.17
(3,1605)	1:127:A:ALA:HB2	1:145:A:ARG:H	1	0.17
(3,1605)	1:127:A:ALA:HB3	1:145:A:ARG:H	1	0.17
(3,1605)	1:127:A:ALA:HB1	1:145:A:ARG:H	5	0.17
(3,1605)	1:127:A:ALA:HB2	1:145:A:ARG:H	5	0.17
(3,1605)	1:127:A:ALA:HB3	1:145:A:ARG:H	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1604)	1:109:A:ALA:HB2	1:110:A:ILE:H	13	0.17
(3,1587)	1:135:A:PRO:HD3	1:136:A:ASP:H	16	0.17
(3,1555)	1:40:A:ILE:HG22	1:73:A:ALA:HB2	13	0.17
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG21	2	0.17
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG23	3	0.17
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG21	4	0.17
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG21	7	0.17
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG22	11	0.17
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG21	14	0.17
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG22	16	0.17
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG23	17	0.17
(3,1553)	1:48:A:ILE:HB	1:48:A:ILE:HG22	18	0.17
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG21	19	0.17
(3,1551)	1:31:A:VAL:HB	1:48:A:ILE:HG21	6	0.17
(3,1551)	1:31:A:VAL:HB	1:48:A:ILE:HG22	6	0.17
(3,1551)	1:31:A:VAL:HB	1:48:A:ILE:HG23	6	0.17
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	7	0.17
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	7	0.17
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	7	0.17
(3,1500)	1:115:A:TYR:HE1	1:148:A:GLU:HA	11	0.17
(3,1500)	1:115:A:TYR:HE2	1:148:A:GLU:HA	11	0.17
(3,1493)	1:115:A:TYR:HD2	1:146:A:ILE:HD12	10	0.17
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG21	6	0.17
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG22	6	0.17
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG23	6	0.17
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG21	6	0.17
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG22	6	0.17
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG23	6	0.17
(3,1461)	1:30:A:LYS:HA	1:33:A:GLU:H	18	0.17
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	5	0.17
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	7	0.17
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	10	0.17
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	11	0.17
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	16	0.17
(3,1389)	1:33:A:GLU:HA	1:33:A:GLU:HG3	1	0.17
(3,1386)	1:148:A:GLU:HG2	1:149:A:GLU:H	7	0.17
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	9	0.17
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	20	0.17
(3,1370)	1:49:A:GLN:HG2	1:50:A:ILE:HA	2	0.17
(3,1347)	1:115:A:TYR:HE1	1:149:A:GLU:HB3	10	0.17
(3,1347)	1:115:A:TYR:HE2	1:149:A:GLU:HB3	10	0.17
(3,1313)	1:72:A:VAL:HG13	1:131:A:MET:HG2	12	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1311)	1:150:A:LEU:HD11	1:150:A:LEU:HG	4	0.17
(3,1311)	1:150:A:LEU:HD11	1:150:A:LEU:HG	7	0.17
(3,1311)	1:150:A:LEU:HD12	1:150:A:LEU:HG	12	0.17
(3,1311)	1:150:A:LEU:HD13	1:150:A:LEU:HG	16	0.17
(3,1311)	1:150:A:LEU:HD12	1:150:A:LEU:HG	20	0.17
(3,1305)	1:31:A:VAL:HG21	1:77:A:ILE:HG12	20	0.17
(3,1305)	1:31:A:VAL:HG22	1:77:A:ILE:HG12	20	0.17
(3,1305)	1:31:A:VAL:HG23	1:77:A:ILE:HG12	20	0.17
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG11	14	0.17
(3,1176)	1:113:A:GLN:HA	1:113:A:GLN:HG2	14	0.17
(3,1138)	1:37:A:LYS:HA	1:37:A:LYS:HG3	1	0.17
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	7	0.17
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	13	0.17
(3,1117)	1:15:A:TRP:HA	1:21:A:GLN:HB3	10	0.17
(3,1111)	1:112:A:LYS:HD2	1:112:A:LYS:HE3	1	0.17
(3,1111)	1:112:A:LYS:HD3	1:112:A:LYS:HE2	8	0.17
(3,1111)	1:45:A:LYS:HD2	1:45:A:LYS:HE3	10	0.17
(3,1111)	1:45:A:LYS:HD2	1:45:A:LYS:HE3	13	0.17
(3,1111)	1:45:A:LYS:HD2	1:45:A:LYS:HE3	14	0.17
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	7	0.17
(3,1103)	1:15:A:TRP:HD1	1:20:A:GLY:HA3	5	0.17
(3,1103)	1:15:A:TRP:HD1	1:20:A:GLY:HA2	5	0.17
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	13	0.17
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	13	0.17
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	13	0.17
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	14	0.17
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	14	0.17
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	14	0.17
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	3	0.17
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	5	0.17
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	9	0.17
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	11	0.17
(3,1068)	1:108:A:SER:HB2	1:121:A:TYR:HB3	17	0.17
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	6	0.17
(3,1045)	1:18:A:VAL:HG21	1:21:A:GLN:HE21	16	0.17
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	5	0.17
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	5	0.17
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	5	0.17
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	19	0.17
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	19	0.17
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	19	0.17
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG11	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG12	17	0.17
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG13	17	0.17
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG11	17	0.17
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG12	17	0.17
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG13	17	0.17
(3,1010)	1:127:A:ALA:HB2	1:128:A:ASN:HA	9	0.17
(3,997)	1:124:A:ILE:HA	1:127:A:ALA:HB1	6	0.17
(3,995)	1:109:A:ALA:HB3	1:110:A:ILE:HG22	7	0.17
(3,995)	1:109:A:ALA:HB1	1:110:A:ILE:HG23	16	0.17
(3,994)	1:35:A:LEU:HD23	1:73:A:ALA:HB1	13	0.17
(3,994)	1:35:A:LEU:HD22	1:73:A:ALA:HB3	20	0.17
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	5	0.17
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	5	0.17
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	5	0.17
(3,955)	1:14:A:LEU:HD11	1:34:A:HIS:HB3	14	0.17
(3,955)	1:14:A:LEU:HD12	1:34:A:HIS:HB3	14	0.17
(3,955)	1:14:A:LEU:HD13	1:34:A:HIS:HB3	14	0.17
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB3	8	0.17
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB2	8	0.17
(3,919)	1:121:A:TYR:HD2	1:122:A:ASN:HA	5	0.17
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD13	14	0.17
(3,906)	1:120:A:LEU:HD23	1:123:A:LYS:HE2	18	0.17
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	9	0.17
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	9	0.17
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	10	0.17
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	10	0.17
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	12	0.17
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	12	0.17
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	16	0.17
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	16	0.17
(3,868)	1:149:A:GLU:HA	1:149:A:GLU:HG3	9	0.17
(3,868)	1:149:A:GLU:HA	1:149:A:GLU:HG2	9	0.17
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	1	0.17
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	1	0.17
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	1	0.17
(3,835)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	4	0.17
(3,835)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	4	0.17
(3,835)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	4	0.17
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	5	0.17
(3,807)	1:72:A:VAL:HG13	1:73:A:ALA:HA	2	0.17
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	15	0.17
(3,740)	1:14:A:LEU:HD21	1:34:A:HIS:HB3	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,740)	1:14:A:LEU:HD22	1:34:A:HIS:HB3	1	0.17
(3,740)	1:14:A:LEU:HD23	1:34:A:HIS:HB3	1	0.17
(3,740)	1:14:A:LEU:HD21	1:34:A:HIS:HB3	4	0.17
(3,740)	1:14:A:LEU:HD22	1:34:A:HIS:HB3	4	0.17
(3,740)	1:14:A:LEU:HD23	1:34:A:HIS:HB3	4	0.17
(3,659)	1:129:A:LYS:HE2	1:130:A:PRO:HA	1	0.17
(3,659)	1:129:A:LYS:HE2	1:130:A:PRO:HA	18	0.17
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	11	0.17
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	18	0.17
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	12	0.17
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	14	0.17
(3,640)	1:6:A:PHE:HD1	1:82:A:SER:HA	20	0.17
(3,640)	1:6:A:PHE:HD2	1:82:A:SER:HA	20	0.17
(3,630)	1:24:A:LYS:HB2	1:25:A:ASP:HB3	1	0.17
(3,593)	1:40:A:ILE:HA	1:130:A:PRO:HG2	3	0.17
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	3	0.17
(3,553)	1:123:A:LYS:HA	1:123:A:LYS:HG3	20	0.17
(3,547)	1:88:A:LYS:HB2	1:88:A:LYS:HG3	15	0.17
(3,541)	1:107:A:LEU:HD22	1:107:A:LEU:HG	2	0.17
(3,533)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	16	0.17
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG23	17	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	5	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	5	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	12	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	12	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	14	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	14	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	16	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	16	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	17	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	17	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	18	0.17
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	18	0.17
(3,500)	1:139:A:TYR:HE1	1:142:A:GLN:HB2	6	0.17
(3,500)	1:139:A:TYR:HE2	1:142:A:GLN:HB2	6	0.17
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	6	0.17
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	17	0.17
(3,363)	1:30:A:LYS:HA	1:30:A:LYS:HG3	5	0.17
(3,357)	1:15:A:TRP:HB2	1:15:A:TRP:HE3	19	0.17
(3,320)	1:108:A:SER:HA	1:121:A:TYR:H	2	0.17
(3,315)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	5	0.17
(3,315)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,315)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	15	0.17
(3,313)	1:45:A:LYS:HA	1:45:A:LYS:HG2	16	0.17
(3,313)	1:45:A:LYS:HA	1:45:A:LYS:HG2	17	0.17
(3,313)	1:45:A:LYS:HA	1:45:A:LYS:HG2	19	0.17
(3,305)	1:55:A:ALA:HB3	1:56:A:THR:H	18	0.17
(3,254)	1:37:A:LYS:H	1:37:A:LYS:HD2	10	0.17
(3,250)	1:59:A:GLY:H	1:87:A:VAL:HG21	3	0.17
(3,236)	1:30:A:LYS:H	1:30:A:LYS:HD3	6	0.17
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	6	0.17
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	11	0.17
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	14	0.17
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	14	0.17
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	18	0.17
(3,155)	1:49:A:GLN:H	1:49:A:GLN:HG3	17	0.17
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD21	3	0.17
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD22	3	0.17
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD23	3	0.17
(3,107)	1:67:A:LYS:HG2	1:68:A:GLU:H	13	0.17
(3,69)	1:53:A:GLY:H	1:80:A:ILE:HD12	10	0.17
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD13	7	0.17
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD11	15	0.17
(3,41)	1:32:A:GLN:HE22	1:48:A:ILE:HG22	13	0.17
(1,2573)	1:17:A:ALA:HA	1:18:A:VAL:H	1	0.17
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	14	0.17
(1,2345)	1:149:A:GLU:H	1:150:A:LEU:H	10	0.17
(1,2245)	1:151:A:GLU:H	1:151:A:GLU:HG3	15	0.17
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	4	0.17
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	14	0.17
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB3	20	0.17
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB2	20	0.17
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	6	0.17
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	11	0.17
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	16	0.17
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	18	0.17
(1,2014)	1:49:A:GLN:H	1:49:A:GLN:HG3	15	0.17
(1,2014)	1:49:A:GLN:H	1:49:A:GLN:HG2	15	0.17
(1,1979)	1:70:A:ILE:HG13	1:74:A:VAL:H	8	0.17
(1,1979)	1:70:A:ILE:HG13	1:74:A:VAL:H	10	0.17
(1,1952)	1:85:A:ASP:H	1:86:A:GLN:HE22	13	0.17
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	20	0.17
(1,1846)	1:105:A:ASP:HB2	1:106:A:THR:H	14	0.17
(1,1800)	1:124:A:ILE:HD13	1:146:A:ILE:H	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1757)	1:96:A:SER:HB3	1:97:A:GLN:H	15	0.17
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	1	0.17
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	7	0.17
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	8	0.17
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	9	0.17
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	13	0.17
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	17	0.17
(1,1728)	1:88:A:LYS:HD2	1:90:A:ALA:H	14	0.17
(1,1696)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	10	0.17
(1,1696)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	18	0.17
(1,1679)	1:128:A:ASN:HD21	1:146:A:ILE:HG23	12	0.17
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	3	0.17
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	5	0.17
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	6	0.17
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	9	0.17
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG21	10	0.17
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	10	0.17
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	11	0.17
(1,1499)	1:142:A:GLN:HG3	1:144:A:LEU:H	4	0.17
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	6	0.17
(1,1460)	1:101:A:VAL:HG21	1:142:A:GLN:H	17	0.17
(1,1460)	1:101:A:VAL:HG22	1:142:A:GLN:H	17	0.17
(1,1460)	1:101:A:VAL:HG23	1:142:A:GLN:H	17	0.17
(1,1457)	1:138:A:ILE:HD13	1:141:A:GLY:H	1	0.17
(1,1412)	1:137:A:LYS:H	1:138:A:ILE:HG12	2	0.17
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	6	0.17
(1,1359)	1:129:A:LYS:HD3	1:131:A:MET:H	8	0.17
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE1	4	0.17
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE2	4	0.17
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE3	4	0.17
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD11	17	0.17
(1,1328)	1:128:A:ASN:H	1:132:A:LEU:HD22	19	0.17
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	7	0.17
(1,1295)	1:126:A:GLU:HG2	1:127:A:ALA:H	10	0.17
(1,1284)	1:127:A:ALA:H	1:147:A:PRO:HG3	15	0.17
(1,1275)	1:125:A:PHE:HB2	1:126:A:GLU:H	7	0.17
(1,1250)	1:124:A:ILE:H	1:128:A:ASN:HD22	15	0.17
(1,1250)	1:124:A:ILE:H	1:128:A:ASN:HD22	16	0.17
(1,1250)	1:124:A:ILE:H	1:128:A:ASN:HD22	17	0.17
(1,1103)	1:111:A:SER:H	1:124:A:ILE:HG13	17	0.17
(1,1053)	1:102:A:LYS:H	1:110:A:ILE:HG22	18	0.17
(1,949)	1:57:A:VAL:HB	1:86:A:GLN:H	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,915)	1:54:A:LYS:HG3	1:82:A:SER:H	15	0.17
(1,885)	1:8:A:LYS:HG3	1:80:A:ILE:H	20	0.17
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	11	0.17
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	19	0.17
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	5	0.17
(1,811)	1:35:A:LEU:HB3	1:43:A:ALA:H	8	0.17
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG11	4	0.17
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG11	11	0.17
(1,701)	1:62:A:LEU:HD22	1:67:A:LYS:H	5	0.17
(1,697)	1:67:A:LYS:H	1:69:A:LYS:HB3	11	0.17
(1,693)	1:64:A:GLN:HG3	1:67:A:LYS:H	12	0.17
(1,663)	1:63:A:SER:HB3	1:65:A:GLU:H	3	0.17
(1,657)	1:62:A:LEU:HD21	1:63:A:SER:H	11	0.17
(1,649)	1:59:A:GLY:HA3	1:62:A:LEU:H	14	0.17
(1,644)	1:45:A:LYS:HG3	1:62:A:LEU:H	13	0.17
(1,529)	1:51:A:ALA:H	1:54:A:LYS:HG3	18	0.17
(1,509)	1:48:A:ILE:HG21	1:50:A:ILE:H	11	0.17
(1,506)	1:49:A:GLN:H	1:56:A:THR:HG22	9	0.17
(1,506)	1:49:A:GLN:H	1:56:A:THR:HG22	11	0.17
(1,488)	1:48:A:ILE:H	1:48:A:ILE:HG12	2	0.17
(1,488)	1:48:A:ILE:H	1:48:A:ILE:HG12	12	0.17
(1,460)	1:45:A:LYS:HG2	1:46:A:VAL:H	10	0.17
(1,460)	1:45:A:LYS:HG2	1:46:A:VAL:H	19	0.17
(1,409)	1:39:A:GLY:H	1:40:A:ILE:HG21	1	0.17
(1,409)	1:39:A:GLY:H	1:40:A:ILE:HG21	5	0.17
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB1	5	0.17
(1,386)	1:38:A:THR:H	1:43:A:ALA:HB1	10	0.17
(1,300)	1:29:A:LYS:HG3	1:33:A:GLU:H	4	0.17
(1,294)	1:31:A:VAL:HG22	1:32:A:GLN:H	15	0.17
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB2	12	0.17
(1,246)	1:29:A:LYS:H	1:30:A:LYS:HD3	10	0.17
(1,241)	1:28:A:ALA:H	1:50:A:ILE:HD12	13	0.17
(1,235)	1:27:A:GLN:HB3	1:28:A:ALA:H	5	0.17
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB3	6	0.17
(1,230)	1:26:A:ASP:HB2	1:28:A:ALA:H	19	0.17
(1,142)	1:12:A:GLU:H	1:77:A:ILE:HB	7	0.17
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	5	0.17
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	14	0.17
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	17	0.17
(1,74)	1:3:A:LEU:HD11	1:4:A:PHE:H	20	0.17
(1,74)	1:3:A:LEU:HD12	1:4:A:PHE:H	20	0.17
(1,74)	1:3:A:LEU:HD13	1:4:A:PHE:H	20	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,74)	1:3:A:LEU:HD21	1:4:A:PHE:H	20	0.17
(1,74)	1:3:A:LEU:HD22	1:4:A:PHE:H	20	0.17
(1,74)	1:3:A:LEU:HD23	1:4:A:PHE:H	20	0.17
(1,41)	1:5:A:ASN:H	1:5:A:ASN:HD22	17	0.17
(1,31)	1:5:A:ASN:H	1:83:A:VAL:HG23	4	0.17
(3,2955)	1:139:A:TYR:HB3	1:140:A:PRO:HD2	9	0.16
(3,2954)	1:54:A:LYS:HA	1:54:A:LYS:HD3	20	0.16
(3,2954)	1:54:A:LYS:HA	1:54:A:LYS:HD2	20	0.16
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	4	0.16
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	19	0.16
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	17	0.16
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	15	0.16
(3,2802)	1:91:A:THR:HA	1:92:A:PRO:HD2	8	0.16
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	19	0.16
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	19	0.16
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	19	0.16
(3,2778)	1:22:A:HIS:HA	1:23:A:ASP:H	2	0.16
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	5	0.16
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	5	0.16
(3,2560)	1:110:A:ILE:HA	1:113:A:GLN:HG3	10	0.16
(3,2560)	1:110:A:ILE:HA	1:113:A:GLN:HG3	15	0.16
(3,2516)	1:110:A:ILE:HD13	1:111:A:SER:H	14	0.16
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG23	8	0.16
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	15	0.16
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	15	0.16
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	15	0.16
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	14	0.16
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	16	0.16
(3,2477)	1:134:A:SER:HB3	1:136:A:ASP:H	4	0.16
(3,2477)	1:134:A:SER:HB3	1:136:A:ASP:H	13	0.16
(3,2477)	1:134:A:SER:HB3	1:136:A:ASP:H	17	0.16
(3,2465)	1:110:A:ILE:HD13	1:144:A:LEU:H	17	0.16
(3,2463)	1:81:A:ALA:H	1:82:A:SER:HB3	12	0.16
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG22	7	0.16
(3,2444)	1:6:A:PHE:HD1	1:80:A:ILE:HG22	10	0.16
(3,2441)	1:60:A:ASP:HB3	1:62:A:LEU:H	9	0.16
(3,2441)	1:60:A:ASP:HB2	1:62:A:LEU:H	9	0.16
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD21	2	0.16
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD22	2	0.16
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD23	2	0.16
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD21	5	0.16
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD22	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD23	5	0.16
(3,2279)	1:138:A:ILE:HA	1:142:A:GLN:HE21	14	0.16
(3,2262)	1:9:A:ASP:HA	1:78:A:SER:HA	19	0.16
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	4	0.16
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	15	0.16
(3,2246)	1:38:A:THR:HB	1:40:A:ILE:HG13	19	0.16
(3,2204)	1:113:A:GLN:HG3	1:114:A:VAL:HG21	17	0.16
(3,2204)	1:113:A:GLN:HG3	1:114:A:VAL:HG22	17	0.16
(3,2204)	1:113:A:GLN:HG3	1:114:A:VAL:HG23	17	0.16
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG21	15	0.16
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG22	15	0.16
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG23	15	0.16
(3,2170)	1:107:A:LEU:HD12	1:125:A:PHE:HB3	12	0.16
(3,2146)	1:118:A:ALA:HB1	1:121:A:TYR:HD1	1	0.16
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	5	0.16
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	4	0.16
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	4	0.16
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	18	0.16
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	18	0.16
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD21	5	0.16
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	19	0.16
(3,2091)	1:110:A:ILE:HD13	1:111:A:SER:HB3	14	0.16
(3,2059)	1:51:A:ALA:H	1:54:A:LYS:HG2	8	0.16
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD2	10	0.16
(3,2042)	1:35:A:LEU:HD13	1:35:A:LEU:HG	3	0.16
(3,2042)	1:35:A:LEU:HD13	1:35:A:LEU:HG	5	0.16
(3,2042)	1:35:A:LEU:HB3	1:35:A:LEU:HD12	8	0.16
(3,2042)	1:35:A:LEU:HD12	1:35:A:LEU:HG	12	0.16
(3,2042)	1:35:A:LEU:HD11	1:35:A:LEU:HG	13	0.16
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG22	18	0.16
(3,1985)	1:46:A:VAL:HG22	1:59:A:GLY:HA3	11	0.16
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	7	0.16
(3,1875)	1:72:A:VAL:HG23	1:145:A:ARG:HD2	12	0.16
(3,1870)	1:82:A:SER:H	1:82:A:SER:HB2	10	0.16
(3,1870)	1:82:A:SER:H	1:82:A:SER:HB2	12	0.16
(3,1870)	1:82:A:SER:H	1:82:A:SER:HB2	18	0.16
(3,1870)	1:82:A:SER:H	1:82:A:SER:HB2	19	0.16
(3,1859)	1:138:A:ILE:HB	1:138:A:ILE:HD13	11	0.16
(3,1851)	1:3:A:LEU:HG	1:82:A:SER:HB3	20	0.16
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG22	9	0.16
(3,1843)	1:35:A:LEU:HD23	1:70:A:ILE:HA	12	0.16
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD13	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1795)	1:72:A:VAL:HA	1:72:A:VAL:HG21	9	0.16
(3,1791)	1:135:A:PRO:HA	1:135:A:PRO:HB2	2	0.16
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	9	0.16
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	15	0.16
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	20	0.16
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	10	0.16
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	10	0.16
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	10	0.16
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	13	0.16
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	13	0.16
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	13	0.16
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB1	16	0.16
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB2	16	0.16
(3,1761)	1:50:A:ILE:HA	1:51:A:ALA:HB3	16	0.16
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	1	0.16
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	9	0.16
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	19	0.16
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	20	0.16
(3,1721)	1:101:A:VAL:HA	1:102:A:LYS:HG2	3	0.16
(3,1721)	1:101:A:VAL:HA	1:102:A:LYS:HG2	10	0.16
(3,1710)	1:31:A:VAL:HG22	1:50:A:ILE:HD12	12	0.16
(3,1708)	1:114:A:VAL:HA	1:146:A:ILE:HG21	17	0.16
(3,1708)	1:114:A:VAL:HA	1:146:A:ILE:HG22	17	0.16
(3,1708)	1:114:A:VAL:HA	1:146:A:ILE:HG23	17	0.16
(3,1694)	1:45:A:LYS:H	1:46:A:VAL:HG13	9	0.16
(3,1686)	1:15:A:TRP:HZ3	1:30:A:LYS:HB3	15	0.16
(3,1685)	1:139:A:TYR:H	1:142:A:GLN:HG2	10	0.16
(3,1665)	1:32:A:GLN:HB2	1:48:A:ILE:HD11	9	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	6	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	6	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	6	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	6	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	6	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	6	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	9	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	9	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	9	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	9	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	9	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	9	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	10	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	10	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	10	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	10	0.16
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	10	0.16
(3,1606)	1:17:A:ALA:HB3	1:79:A:GLY:HA3	19	0.16
(3,1605)	1:127:A:ALA:HB1	1:145:A:ARG:H	3	0.16
(3,1605)	1:127:A:ALA:HB2	1:145:A:ARG:H	3	0.16
(3,1605)	1:127:A:ALA:HB3	1:145:A:ARG:H	3	0.16
(3,1605)	1:127:A:ALA:HB1	1:145:A:ARG:H	9	0.16
(3,1605)	1:127:A:ALA:HB2	1:145:A:ARG:H	9	0.16
(3,1605)	1:127:A:ALA:HB3	1:145:A:ARG:H	9	0.16
(3,1604)	1:109:A:ALA:HB3	1:110:A:ILE:H	9	0.16
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	8	0.16
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	8	0.16
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	8	0.16
(3,1553)	1:48:A:ILE:HB	1:48:A:ILE:HG22	6	0.16
(3,1553)	1:48:A:ILE:HB	1:48:A:ILE:HG22	13	0.16
(3,1553)	1:40:A:ILE:HB	1:40:A:ILE:HG22	20	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	1	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	1	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	1	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	2	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	2	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	2	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	3	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	3	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	3	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	4	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	4	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	4	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	5	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	5	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	5	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	6	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	6	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	6	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	7	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	7	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	7	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	9	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	9	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	10	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	10	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	10	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	11	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	11	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	11	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	14	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	14	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	14	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	16	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	16	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	16	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	17	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	17	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	17	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	19	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	19	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	19	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	20	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	20	0.16
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	20	0.16
(3,1530)	1:124:A:ILE:HG12	1:146:A:ILE:HD11	15	0.16
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD11	15	0.16
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD12	15	0.16
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD13	15	0.16
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	1	0.16
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	1	0.16
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	1	0.16
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	11	0.16
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	11	0.16
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	11	0.16
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	13	0.16
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	13	0.16
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	13	0.16
(3,1500)	1:115:A:TYR:HE1	1:148:A:GLU:HA	15	0.16
(3,1500)	1:115:A:TYR:HE2	1:148:A:GLU:HA	15	0.16
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD13	10	0.16
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG21	3	0.16
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG22	3	0.16
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG23	3	0.16
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG21	3	0.16
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG22	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG23	3	0.16
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG21	13	0.16
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG22	13	0.16
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG23	13	0.16
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG21	13	0.16
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG22	13	0.16
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG23	13	0.16
(3,1476)	1:101:A:VAL:HB	1:140:A:PRO:HA	7	0.16
(3,1476)	1:101:A:VAL:HB	1:140:A:PRO:HA	10	0.16
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	13	0.16
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	2	0.16
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	4	0.16
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	14	0.16
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	17	0.16
(3,1403)	1:33:A:GLU:HA	1:33:A:GLU:HG3	19	0.16
(3,1384)	1:68:A:GLU:HG3	1:69:A:LYS:H	19	0.16
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	9	0.16
(3,1348)	1:75:A:GLY:H	1:83:A:VAL:HG11	5	0.16
(3,1311)	1:150:A:LEU:HD11	1:150:A:LEU:HG	1	0.16
(3,1311)	1:150:A:LEU:HB3	1:150:A:LEU:HD13	3	0.16
(3,1311)	1:150:A:LEU:HD13	1:150:A:LEU:HG	13	0.16
(3,1311)	1:150:A:LEU:HD12	1:150:A:LEU:HG	17	0.16
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG11	8	0.16
(3,1296)	1:46:A:VAL:HB	1:46:A:VAL:HG22	8	0.16
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	6	0.16
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	6	0.16
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	6	0.16
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	6	0.16
(3,1146)	1:23:A:ASP:HB2	1:24:A:LYS:HA	6	0.16
(3,1132)	1:23:A:ASP:HA	1:24:A:LYS:HA	5	0.16
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	5	0.16
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	6	0.16
(3,1111)	1:45:A:LYS:HD2	1:45:A:LYS:HE3	6	0.16
(3,1111)	1:137:A:LYS:HD3	1:137:A:LYS:HE2	18	0.16
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	6	0.16
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	6	0.16
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	6	0.16
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	7	0.16
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	7	0.16
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	7	0.16
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	17	0.16
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	17	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	17	0.16
(3,1083)	1:144:A:LEU:HD11	1:145:A:ARG:H	13	0.16
(3,1083)	1:144:A:LEU:HD12	1:145:A:ARG:H	13	0.16
(3,1083)	1:144:A:LEU:HD13	1:145:A:ARG:H	13	0.16
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	2	0.16
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	14	0.16
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	20	0.16
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	7	0.16
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	7	0.16
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	7	0.16
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	7	0.16
(3,1038)	1:57:A:VAL:HG21	1:85:A:ASP:HA	8	0.16
(3,1038)	1:57:A:VAL:HG22	1:85:A:ASP:HA	8	0.16
(3,1038)	1:57:A:VAL:HG23	1:85:A:ASP:HA	8	0.16
(3,1037)	1:16:A:ASP:HA	1:18:A:VAL:HG21	17	0.16
(3,1029)	1:56:A:THR:HG23	1:86:A:GLN:HB2	8	0.16
(3,1029)	1:56:A:THR:HG23	1:86:A:GLN:HB2	12	0.16
(3,1014)	1:56:A:THR:HA	1:84:A:ASP:HB2	15	0.16
(3,993)	1:35:A:LEU:HD12	1:43:A:ALA:HB2	8	0.16
(3,969)	1:54:A:LYS:HA	1:54:A:LYS:HG2	9	0.16
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	2	0.16
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	2	0.16
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	2	0.16
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	15	0.16
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	15	0.16
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	15	0.16
(3,955)	1:14:A:LEU:HD11	1:34:A:HIS:HB3	6	0.16
(3,955)	1:14:A:LEU:HD12	1:34:A:HIS:HB3	6	0.16
(3,955)	1:14:A:LEU:HD13	1:34:A:HIS:HB3	6	0.16
(3,955)	1:14:A:LEU:HD11	1:34:A:HIS:HB3	16	0.16
(3,955)	1:14:A:LEU:HD12	1:34:A:HIS:HB3	16	0.16
(3,955)	1:14:A:LEU:HD13	1:34:A:HIS:HB3	16	0.16
(3,949)	1:125:A:PHE:HB2	1:132:A:LEU:HD11	8	0.16
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB3	10	0.16
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB2	10	0.16
(3,918)	1:13:A:LYS:HA	1:15:A:TRP:H	15	0.16
(3,913)	1:29:A:LYS:HB3	1:29:A:LYS:HG3	4	0.16
(3,891)	1:129:A:LYS:HA	1:132:A:LEU:HB2	10	0.16
(3,887)	1:13:A:LYS:HA	1:14:A:LEU:HD22	6	0.16
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	4	0.16
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	4	0.16
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	5	0.16
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	8	0.16
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	8	0.16
(3,841)	1:10:A:ALA:HB1	1:11:A:GLY:H	5	0.16
(3,841)	1:10:A:ALA:HB2	1:11:A:GLY:H	5	0.16
(3,841)	1:10:A:ALA:HB3	1:11:A:GLY:H	5	0.16
(3,817)	1:62:A:LEU:HA	1:63:A:SER:H	19	0.16
(3,807)	1:72:A:VAL:HG12	1:73:A:ALA:HA	19	0.16
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	16	0.16
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	16	0.16
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	16	0.16
(3,770)	1:111:A:SER:H	1:121:A:TYR:HA	12	0.16
(3,765)	1:8:A:LYS:HA	1:8:A:LYS:HG2	12	0.16
(3,764)	1:8:A:LYS:HA	1:8:A:LYS:HG2	15	0.16
(3,760)	1:8:A:LYS:HA	1:8:A:LYS:HG3	20	0.16
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB1	12	0.16
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB2	12	0.16
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB3	12	0.16
(3,711)	1:7:A:VAL:HG11	1:10:A:ALA:H	20	0.16
(3,711)	1:7:A:VAL:HG12	1:10:A:ALA:H	20	0.16
(3,711)	1:7:A:VAL:HG13	1:10:A:ALA:H	20	0.16
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	13	0.16
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	15	0.16
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	15	0.16
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	8	0.16
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	13	0.16
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	1	0.16
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	11	0.16
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	13	0.16
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	16	0.16
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	19	0.16
(3,640)	1:6:A:PHE:HD1	1:82:A:SER:HA	6	0.16
(3,640)	1:6:A:PHE:HD2	1:82:A:SER:HA	6	0.16
(3,640)	1:6:A:PHE:HD1	1:82:A:SER:HA	7	0.16
(3,640)	1:6:A:PHE:HD2	1:82:A:SER:HA	7	0.16
(3,632)	1:25:A:ASP:HB3	1:28:A:ALA:HB1	17	0.16
(3,630)	1:24:A:LYS:HB3	1:25:A:ASP:HB3	11	0.16
(3,583)	1:4:A:PHE:HB2	1:6:A:PHE:HZ	7	0.16
(3,535)	1:62:A:LEU:HB3	1:66:A:ALA:HB1	18	0.16
(3,514)	1:125:A:PHE:HE2	1:132:A:LEU:HG	9	0.16
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	1	0.16
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	6	0.16
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	6	0.16
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	19	0.16
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	19	0.16
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	20	0.16
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	20	0.16
(3,496)	1:139:A:TYR:HE2	1:142:A:GLN:H	19	0.16
(3,476)	1:115:A:TYR:HE2	1:121:A:TYR:HA	15	0.16
(3,425)	1:28:A:ALA:HA	1:48:A:ILE:HG22	9	0.16
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	2	0.16
(3,315)	1:112:A:LYS:HD3	1:112:A:LYS:HG2	4	0.16
(3,285)	1:89:A:THR:H	1:89:A:THR:HG21	2	0.16
(3,278)	1:27:A:GLN:H	1:27:A:GLN:HG2	2	0.16
(3,273)	1:64:A:GLN:HB2	1:93:A:ALA:HB2	15	0.16
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	14	0.16
(3,263)	1:47:A:ASN:H	1:47:A:ASN:HB3	16	0.16
(3,254)	1:37:A:LYS:H	1:37:A:LYS:HD2	1	0.16
(3,209)	1:101:A:VAL:H	1:101:A:VAL:HB	20	0.16
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD11	11	0.16
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	1	0.16
(3,65)	1:48:A:ILE:HG12	1:49:A:GLN:H	6	0.16
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD13	3	0.16
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB1	17	0.16
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB2	17	0.16
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB3	17	0.16
(1,2495)	1:113:A:GLN:H	1:113:A:GLN:HG2	7	0.16
(1,2476)	1:32:A:GLN:HA	1:32:A:GLN:HE22	13	0.16
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	4	0.16
(1,2345)	1:149:A:GLU:H	1:150:A:LEU:H	19	0.16
(1,2168)	1:64:A:GLN:HB3	1:64:A:GLN:HE21	8	0.16
(1,2168)	1:64:A:GLN:HB3	1:64:A:GLN:HE21	18	0.16
(1,2044)	1:63:A:SER:H	1:64:A:GLN:H	1	0.16
(1,2044)	1:63:A:SER:H	1:64:A:GLN:H	7	0.16
(1,2044)	1:63:A:SER:H	1:64:A:GLN:H	16	0.16
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	10	0.16
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	14	0.16
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	15	0.16
(1,1979)	1:70:A:ILE:HG13	1:74:A:VAL:H	11	0.16
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	8	0.16
(1,1874)	1:68:A:GLU:HG3	1:145:A:ARG:HE	15	0.16
(1,1800)	1:124:A:ILE:HD11	1:146:A:ILE:H	14	0.16
(1,1788)	1:112:A:LYS:HG3	1:115:A:TYR:H	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	3	0.16
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	4	0.16
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	7	0.16
(1,1679)	1:128:A:ASN:HD21	1:146:A:ILE:HG21	8	0.16
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	11	0.16
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	14	0.16
(1,1663)	1:42:A:ASP:H	1:45:A:LYS:HG2	10	0.16
(1,1662)	1:42:A:ASP:H	1:66:A:ALA:HB3	14	0.16
(1,1633)	1:117:A:ASN:HD21	1:119:A:ASN:HB3	3	0.16
(1,1584)	1:58:A:THR:HG21	1:86:A:GLN:HE22	12	0.16
(1,1584)	1:58:A:THR:HG22	1:86:A:GLN:HE22	12	0.16
(1,1584)	1:58:A:THR:HG23	1:86:A:GLN:HE22	12	0.16
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	6	0.16
(1,1573)	1:150:A:LEU:HB2	1:151:A:GLU:H	8	0.16
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	17	0.16
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	18	0.16
(1,1540)	1:47:A:ASN:HD22	1:48:A:ILE:HD11	8	0.16
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	13	0.16
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	13	0.16
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	13	0.16
(1,1479)	1:6:A:PHE:HZ	1:143:A:VAL:H	8	0.16
(1,1476)	1:139:A:TYR:HD2	1:142:A:GLN:H	20	0.16
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	9	0.16
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	12	0.16
(1,1398)	1:107:A:LEU:HB3	1:136:A:ASP:H	14	0.16
(1,1352)	1:38:A:THR:HG23	1:131:A:MET:H	2	0.16
(1,1334)	1:129:A:LYS:H	1:144:A:LEU:HD12	18	0.16
(1,1331)	1:129:A:LYS:H	1:129:A:LYS:HB2	10	0.16
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD11	16	0.16
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	1	0.16
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	16	0.16
(1,1288)	1:124:A:ILE:HG13	1:127:A:ALA:H	6	0.16
(1,1239)	1:111:A:SER:H	1:121:A:TYR:H	7	0.16
(1,1214)	1:112:A:LYS:HB3	1:120:A:LEU:H	20	0.16
(1,1195)	1:112:A:LYS:HG3	1:117:A:ASN:H	7	0.16
(1,1149)	1:99:A:TYR:HE2	1:114:A:VAL:H	16	0.16
(1,1118)	1:99:A:TYR:HE1	1:111:A:SER:H	5	0.16
(1,993)	1:92:A:PRO:HG3	1:93:A:ALA:H	6	0.16
(1,923)	1:83:A:VAL:HG11	1:84:A:ASP:H	11	0.16
(1,923)	1:83:A:VAL:HG12	1:84:A:ASP:H	11	0.16
(1,923)	1:83:A:VAL:HG13	1:84:A:ASP:H	11	0.16
(1,920)	1:83:A:VAL:HG23	1:84:A:ASP:H	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,881)	1:14:A:LEU:HD11	1:80:A:ILE:H	2	0.16
(1,881)	1:14:A:LEU:HD12	1:80:A:ILE:H	2	0.16
(1,881)	1:14:A:LEU:HD13	1:80:A:ILE:H	2	0.16
(1,881)	1:14:A:LEU:HD11	1:80:A:ILE:H	18	0.16
(1,881)	1:14:A:LEU:HD12	1:80:A:ILE:H	18	0.16
(1,881)	1:14:A:LEU:HD13	1:80:A:ILE:H	18	0.16
(1,773)	1:72:A:VAL:H	1:72:A:VAL:HB	5	0.16
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB2	2	0.16
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB2	5	0.16
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB3	20	0.16
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG13	18	0.16
(1,765)	1:71:A:LEU:H	1:74:A:VAL:HG12	13	0.16
(1,765)	1:71:A:LEU:H	1:83:A:VAL:HG13	18	0.16
(1,708)	1:67:A:LYS:HB2	1:68:A:GLU:H	14	0.16
(1,649)	1:59:A:GLY:HA3	1:62:A:LEU:H	5	0.16
(1,649)	1:62:A:LEU:H	1:90:A:ALA:HA	11	0.16
(1,648)	1:62:A:LEU:H	1:89:A:THR:HB	13	0.16
(1,509)	1:50:A:ILE:H	1:50:A:ILE:HD12	1	0.16
(1,509)	1:50:A:ILE:H	1:50:A:ILE:HD13	3	0.16
(1,506)	1:49:A:GLN:H	1:56:A:THR:HG23	20	0.16
(1,492)	1:48:A:ILE:H	1:48:A:ILE:HG13	14	0.16
(1,435)	1:44:A:ASP:H	1:45:A:LYS:HD2	13	0.16
(1,371)	1:36:A:ASN:H	1:37:A:LYS:HD3	17	0.16
(1,346)	1:124:A:ILE:HD11	1:125:A:PHE:H	12	0.16
(1,346)	1:124:A:ILE:HD12	1:125:A:PHE:H	14	0.16
(1,301)	1:129:A:LYS:HB2	1:132:A:LEU:H	18	0.16
(1,300)	1:29:A:LYS:HG3	1:33:A:GLU:H	2	0.16
(1,294)	1:31:A:VAL:HG22	1:32:A:GLN:H	14	0.16
(1,293)	1:32:A:GLN:H	1:48:A:ILE:HG13	18	0.16
(1,272)	1:27:A:GLN:HB3	1:31:A:VAL:H	17	0.16
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB2	7	0.16
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB2	16	0.16
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB3	18	0.16
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	17	0.16
(1,230)	1:25:A:ASP:HB3	1:28:A:ALA:H	4	0.16
(1,199)	1:18:A:VAL:H	1:19:A:THR:HA	13	0.16
(1,142)	1:12:A:GLU:H	1:77:A:ILE:HB	13	0.16
(1,141)	1:12:A:GLU:H	1:142:A:GLN:HG3	17	0.16
(1,96)	1:8:A:LYS:H	1:8:A:LYS:HD3	11	0.16
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG12	6	0.16
(3,2938)	1:96:A:SER:HB3	1:146:A:ILE:H	15	0.15
(3,2914)	1:13:A:LYS:HA	1:13:A:LYS:HG3	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2889)	1:96:A:SER:HB2	1:97:A:GLN:H	2	0.15
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	12	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	1	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	2	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	4	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	5	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	6	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	7	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	8	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	9	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	10	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	11	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	13	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	14	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	15	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	16	0.15
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	20	0.15
(3,2858)	1:96:A:SER:H	1:96:A:SER:HB3	2	0.15
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	5	0.15
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	19	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	3	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	3	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	3	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	6	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	6	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	6	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	13	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	13	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	13	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	14	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	14	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	14	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	15	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	15	0.15
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	15	0.15
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG11	10	0.15
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG12	10	0.15
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG13	10	0.15
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	15	0.15
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	15	0.15
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	15	0.15
(3,2729)	1:126:A:GLU:HG3	1:127:A:ALA:H	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2729)	1:126:A:GLU:HG3	1:127:A:ALA:H	15	0.15
(3,2729)	1:126:A:GLU:HG3	1:127:A:ALA:H	20	0.15
(3,2718)	1:136:A:ASP:HB3	1:137:A:LYS:H	2	0.15
(3,2718)	1:136:A:ASP:HB2	1:137:A:LYS:H	2	0.15
(3,2596)	1:132:A:LEU:HD11	1:142:A:GLN:HE22	20	0.15
(3,2596)	1:132:A:LEU:HD12	1:142:A:GLN:HE22	20	0.15
(3,2596)	1:132:A:LEU:HD13	1:142:A:GLN:HE22	20	0.15
(3,2587)	1:144:A:LEU:HB2	1:144:A:LEU:HD21	11	0.15
(3,2587)	1:144:A:LEU:HB2	1:144:A:LEU:HD22	11	0.15
(3,2587)	1:144:A:LEU:HB2	1:144:A:LEU:HD23	11	0.15
(3,2512)	1:97:A:GLN:HE21	1:114:A:VAL:HA	1	0.15
(3,2512)	1:97:A:GLN:HE21	1:114:A:VAL:HA	19	0.15
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	7	0.15
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	7	0.15
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	7	0.15
(3,2502)	1:56:A:THR:HG23	1:84:A:ASP:HB2	5	0.15
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	2	0.15
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	2	0.15
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	2	0.15
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	18	0.15
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	18	0.15
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	18	0.15
(3,2465)	1:110:A:ILE:HD11	1:144:A:LEU:H	3	0.15
(3,2464)	1:82:A:SER:HB2	1:84:A:ASP:H	2	0.15
(3,2463)	1:81:A:ALA:H	1:82:A:SER:HB3	19	0.15
(3,2451)	1:7:A:VAL:HA	1:81:A:ALA:HB1	14	0.15
(3,2442)	1:80:A:ILE:HD11	1:82:A:SER:H	6	0.15
(3,2442)	1:80:A:ILE:HD12	1:82:A:SER:H	6	0.15
(3,2442)	1:80:A:ILE:HD13	1:82:A:SER:H	6	0.15
(3,2396)	1:14:A:LEU:HD23	1:34:A:HIS:HE1	1	0.15
(3,2377)	1:15:A:TRP:HZ3	1:31:A:VAL:HG21	9	0.15
(3,2377)	1:15:A:TRP:HZ3	1:31:A:VAL:HG22	9	0.15
(3,2377)	1:15:A:TRP:HZ3	1:31:A:VAL:HG23	9	0.15
(3,2360)	1:129:A:LYS:HA	1:129:A:LYS:HD2	15	0.15
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD13	7	0.15
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD12	9	0.15
(3,2346)	1:85:A:ASP:HA	1:87:A:VAL:HG13	16	0.15
(3,2341)	1:115:A:TYR:HE1	1:149:A:GLU:HG2	3	0.15
(3,2289)	1:71:A:LEU:HB3	1:71:A:LEU:HD23	9	0.15
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD21	11	0.15
(3,2281)	1:139:A:TYR:HB2	1:140:A:PRO:HG2	3	0.15
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2262)	1:9:A:ASP:HA	1:78:A:SER:HA	14	0.15
(3,2260)	1:42:A:ASP:HA	1:45:A:LYS:HD3	17	0.15
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	18	0.15
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	20	0.15
(3,2238)	1:107:A:LEU:HD11	1:135:A:PRO:HD2	15	0.15
(3,2215)	1:125:A:PHE:HD2	1:132:A:LEU:HB3	20	0.15
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	12	0.15
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG21	18	0.15
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG22	18	0.15
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG23	18	0.15
(3,2188)	1:105:A:ASP:HA	1:109:A:ALA:HB3	7	0.15
(3,2187)	1:26:A:ASP:HB2	1:29:A:LYS:HB3	8	0.15
(3,2186)	1:4:A:PHE:HD1	1:84:A:ASP:HA	14	0.15
(3,2186)	1:4:A:PHE:HD2	1:84:A:ASP:HA	14	0.15
(3,2180)	1:109:A:ALA:HA	1:112:A:LYS:HD2	1	0.15
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD12	20	0.15
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	4	0.15
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	10	0.15
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HG3	17	0.15
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	1	0.15
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	1	0.15
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	11	0.15
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	11	0.15
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	13	0.15
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	13	0.15
(3,2106)	1:111:A:SER:HA	1:115:A:TYR:HE2	16	0.15
(3,2104)	1:102:A:LYS:H	1:110:A:ILE:HG22	18	0.15
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	9	0.15
(3,2092)	1:110:A:ILE:HD11	1:111:A:SER:HB2	17	0.15
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	20	0.15
(3,2073)	1:107:A:LEU:HB3	1:108:A:SER:HA	6	0.15
(3,2073)	1:107:A:LEU:HB3	1:108:A:SER:HA	15	0.15
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE3	17	0.15
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE2	17	0.15
(3,2042)	1:35:A:LEU:HD12	1:35:A:LEU:HG	1	0.15
(3,2023)	1:99:A:TYR:HD2	1:113:A:GLN:HG3	4	0.15
(3,2000)	1:62:A:LEU:H	1:89:A:THR:HG21	16	0.15
(3,2000)	1:62:A:LEU:H	1:89:A:THR:HG22	16	0.15
(3,2000)	1:62:A:LEU:H	1:89:A:THR:HG23	16	0.15
(3,1979)	1:86:A:GLN:H	1:87:A:VAL:HG11	8	0.15
(3,1978)	1:57:A:VAL:H	1:83:A:VAL:HG11	18	0.15
(3,1943)	1:55:A:ALA:H	1:82:A:SER:HB2	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	13	0.15
(3,1930)	1:71:A:LEU:H	1:71:A:LEU:HG	6	0.15
(3,1870)	1:82:A:SER:H	1:82:A:SER:HB2	3	0.15
(3,1870)	1:82:A:SER:H	1:82:A:SER:HB2	14	0.15
(3,1848)	1:54:A:LYS:HD3	1:82:A:SER:HB2	17	0.15
(3,1836)	1:148:A:GLU:HB3	1:148:A:GLU:HG2	1	0.15
(3,1803)	1:6:A:PHE:HZ	1:72:A:VAL:HA	20	0.15
(3,1795)	1:72:A:VAL:HA	1:72:A:VAL:HG21	7	0.15
(3,1795)	1:72:A:VAL:HA	1:72:A:VAL:HG23	14	0.15
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	2	0.15
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	6	0.15
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	7	0.15
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	10	0.15
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	13	0.15
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	17	0.15
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	19	0.15
(3,1763)	1:31:A:VAL:HG11	1:32:A:GLN:HA	2	0.15
(3,1762)	1:111:A:SER:HB3	1:121:A:TYR:HA	16	0.15
(3,1759)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	19	0.15
(3,1759)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	19	0.15
(3,1759)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	19	0.15
(3,1741)	1:67:A:LYS:HE3	1:89:A:THR:HG21	16	0.15
(3,1741)	1:67:A:LYS:HE3	1:89:A:THR:HG22	16	0.15
(3,1741)	1:67:A:LYS:HE3	1:89:A:THR:HG23	16	0.15
(3,1741)	1:67:A:LYS:HE2	1:89:A:THR:HG21	16	0.15
(3,1741)	1:67:A:LYS:HE2	1:89:A:THR:HG22	16	0.15
(3,1741)	1:67:A:LYS:HE2	1:89:A:THR:HG23	16	0.15
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	4	0.15
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	7	0.15
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	12	0.15
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	14	0.15
(3,1721)	1:101:A:VAL:HA	1:102:A:LYS:HG2	4	0.15
(3,1710)	1:31:A:VAL:HG21	1:50:A:ILE:HD13	14	0.15
(3,1686)	1:15:A:TRP:HZ3	1:30:A:LYS:HB3	1	0.15
(3,1635)	1:18:A:VAL:HA	1:18:A:VAL:HG12	7	0.15
(3,1606)	1:17:A:ALA:HB2	1:79:A:GLY:HA3	15	0.15
(3,1605)	1:127:A:ALA:HB1	1:145:A:ARG:H	2	0.15
(3,1605)	1:127:A:ALA:HB2	1:145:A:ARG:H	2	0.15
(3,1605)	1:127:A:ALA:HB3	1:145:A:ARG:H	2	0.15
(3,1605)	1:127:A:ALA:HB1	1:145:A:ARG:H	11	0.15
(3,1605)	1:127:A:ALA:HB2	1:145:A:ARG:H	11	0.15
(3,1605)	1:127:A:ALA:HB3	1:145:A:ARG:H	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1604)	1:109:A:ALA:HB2	1:110:A:ILE:H	2	0.15
(3,1604)	1:109:A:ALA:HB2	1:110:A:ILE:H	5	0.15
(3,1604)	1:109:A:ALA:HB1	1:110:A:ILE:H	8	0.15
(3,1604)	1:109:A:ALA:HB3	1:110:A:ILE:H	14	0.15
(3,1604)	1:109:A:ALA:HB2	1:110:A:ILE:H	19	0.15
(3,1556)	1:40:A:ILE:HG21	1:43:A:ALA:HB1	7	0.15
(3,1553)	1:48:A:ILE:HB	1:48:A:ILE:HG22	1	0.15
(3,1553)	1:48:A:ILE:HB	1:48:A:ILE:HG22	9	0.15
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	8	0.15
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	8	0.15
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	8	0.15
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	12	0.15
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	12	0.15
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	12	0.15
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	15	0.15
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	15	0.15
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	15	0.15
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	18	0.15
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	18	0.15
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	18	0.15
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD11	17	0.15
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD12	17	0.15
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD13	17	0.15
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	5	0.15
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	5	0.15
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	5	0.15
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD11	9	0.15
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD11	20	0.15
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG22	5	0.15
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG21	18	0.15
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG22	19	0.15
(3,1476)	1:101:A:VAL:HB	1:140:A:PRO:HA	1	0.15
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	19	0.15
(3,1468)	1:15:A:TRP:HE3	1:30:A:LYS:HD3	13	0.15
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	3	0.15
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	12	0.15
(3,1428)	1:45:A:LYS:HB3	1:62:A:LEU:HD13	7	0.15
(3,1395)	1:30:A:LYS:HD2	1:33:A:GLU:HG3	20	0.15
(3,1393)	1:96:A:SER:HA	1:148:A:GLU:HB2	17	0.15
(3,1389)	1:33:A:GLU:HA	1:33:A:GLU:HG3	4	0.15
(3,1389)	1:33:A:GLU:HA	1:33:A:GLU:HG3	7	0.15
(3,1389)	1:33:A:GLU:HA	1:33:A:GLU:HG3	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1389)	1:33:A:GLU:HA	1:33:A:GLU:HG3	9	0.15
(3,1386)	1:148:A:GLU:HG2	1:149:A:GLU:H	1	0.15
(3,1367)	1:110:A:ILE:HA	1:113:A:GLN:HG3	8	0.15
(3,1353)	1:97:A:GLN:HG2	1:146:A:ILE:HG21	3	0.15
(3,1336)	1:72:A:VAL:HG11	1:73:A:ALA:H	4	0.15
(3,1336)	1:72:A:VAL:HG12	1:73:A:ALA:H	4	0.15
(3,1336)	1:72:A:VAL:HG13	1:73:A:ALA:H	4	0.15
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	13	0.15
(3,1311)	1:150:A:LEU:HB3	1:150:A:LEU:HD13	6	0.15
(3,1311)	1:150:A:LEU:HD12	1:150:A:LEU:HG	11	0.15
(3,1311)	1:150:A:LEU:HB3	1:150:A:LEU:HD11	14	0.15
(3,1296)	1:46:A:VAL:HG21	1:87:A:VAL:HB	20	0.15
(3,1257)	1:120:A:LEU:HD11	1:123:A:LYS:HG3	19	0.15
(3,1257)	1:120:A:LEU:HD12	1:123:A:LYS:HG3	19	0.15
(3,1257)	1:120:A:LEU:HD13	1:123:A:LYS:HG3	19	0.15
(3,1257)	1:120:A:LEU:HD21	1:123:A:LYS:HG3	19	0.15
(3,1257)	1:120:A:LEU:HD22	1:123:A:LYS:HG3	19	0.15
(3,1257)	1:120:A:LEU:HD23	1:123:A:LYS:HG3	19	0.15
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	10	0.15
(3,1234)	1:29:A:LYS:HA	1:29:A:LYS:HD3	19	0.15
(3,1185)	1:27:A:GLN:HB3	1:28:A:ALA:H	16	0.15
(3,1137)	1:37:A:LYS:HA	1:37:A:LYS:HG2	8	0.15
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	16	0.15
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD11	13	0.15
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD12	13	0.15
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD13	13	0.15
(3,1111)	1:45:A:LYS:HD2	1:45:A:LYS:HE3	3	0.15
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	8	0.15
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB2	6	0.15
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	1	0.15
(3,1068)	1:108:A:SER:HB2	1:121:A:TYR:HB3	18	0.15
(3,1068)	1:108:A:SER:HB2	1:121:A:TYR:HB3	19	0.15
(3,1060)	1:18:A:VAL:HA	1:18:A:VAL:HB	4	0.15
(3,1060)	1:18:A:VAL:HA	1:18:A:VAL:HB	5	0.15
(3,1060)	1:18:A:VAL:HA	1:18:A:VAL:HB	13	0.15
(3,1060)	1:18:A:VAL:HA	1:18:A:VAL:HB	14	0.15
(3,1060)	1:18:A:VAL:HA	1:18:A:VAL:HB	15	0.15
(3,1060)	1:18:A:VAL:HA	1:18:A:VAL:HB	19	0.15
(3,1060)	1:18:A:VAL:HA	1:18:A:VAL:HB	20	0.15
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	8	0.15
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	16	0.15
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	6	0.15
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	6	0.15
(3,1023)	1:110:A:ILE:HA	1:114:A:VAL:HG12	1	0.15
(3,1014)	1:56:A:THR:HA	1:84:A:ASP:HB2	19	0.15
(3,1010)	1:127:A:ALA:HB3	1:128:A:ASN:HA	2	0.15
(3,1010)	1:127:A:ALA:HB3	1:128:A:ASN:HA	5	0.15
(3,997)	1:127:A:ALA:HB3	1:147:A:PRO:HD3	10	0.15
(3,995)	1:109:A:ALA:HB2	1:110:A:ILE:HG21	1	0.15
(3,995)	1:109:A:ALA:HB1	1:110:A:ILE:HG23	8	0.15
(3,995)	1:109:A:ALA:HB2	1:110:A:ILE:HG22	10	0.15
(3,995)	1:109:A:ALA:HB2	1:110:A:ILE:HG21	19	0.15
(3,994)	1:35:A:LEU:HD23	1:73:A:ALA:HB2	19	0.15
(3,984)	1:111:A:SER:HB2	1:114:A:VAL:HG22	8	0.15
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	18	0.15
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	18	0.15
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	18	0.15
(3,912)	1:29:A:LYS:HE3	1:29:A:LYS:HG3	10	0.15
(3,901)	1:21:A:GLN:HA	1:21:A:GLN:HG3	16	0.15
(3,901)	1:21:A:GLN:HA	1:21:A:GLN:HG2	16	0.15
(3,886)	1:12:A:GLU:HG3	1:13:A:LYS:H	12	0.15
(3,886)	1:12:A:GLU:HG2	1:13:A:LYS:H	12	0.15
(3,881)	1:12:A:GLU:HG2	1:34:A:HIS:HE1	18	0.15
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	16	0.15
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	3	0.15
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	3	0.15
(3,846)	1:10:A:ALA:HB1	1:141:A:GLY:H	17	0.15
(3,846)	1:10:A:ALA:HB2	1:141:A:GLY:H	17	0.15
(3,846)	1:10:A:ALA:HB3	1:141:A:GLY:H	17	0.15
(3,823)	1:65:A:GLU:HA	1:68:A:GLU:HG3	9	0.15
(3,817)	1:62:A:LEU:HA	1:63:A:SER:H	1	0.15
(3,798)	1:117:A:ASN:HB2	1:120:A:LEU:HG	6	0.15
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	17	0.15
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	17	0.15
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	17	0.15
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	5	0.15
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	6	0.15
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	9	0.15
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	10	0.15
(3,779)	1:12:A:GLU:H	1:12:A:GLU:HB3	17	0.15
(3,767)	1:121:A:TYR:HA	1:124:A:ILE:HB	20	0.15
(3,744)	1:7:A:VAL:HB	1:10:A:ALA:HB1	20	0.15
(3,744)	1:7:A:VAL:HB	1:10:A:ALA:HB2	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,744)	1:7:A:VAL:HB	1:10:A:ALA:HB3	20	0.15
(3,730)	1:8:A:LYS:HE3	1:81:A:ALA:HB1	20	0.15
(3,730)	1:8:A:LYS:HE3	1:81:A:ALA:HB2	20	0.15
(3,730)	1:8:A:LYS:HE3	1:81:A:ALA:HB3	20	0.15
(3,730)	1:8:A:LYS:HE2	1:81:A:ALA:HB1	20	0.15
(3,730)	1:8:A:LYS:HE2	1:81:A:ALA:HB2	20	0.15
(3,730)	1:8:A:LYS:HE2	1:81:A:ALA:HB3	20	0.15
(3,695)	1:101:A:VAL:HB	1:140:A:PRO:HA	6	0.15
(3,669)	1:28:A:ALA:HA	1:31:A:VAL:HG21	7	0.15
(3,659)	1:129:A:LYS:HE2	1:130:A:PRO:HA	13	0.15
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	15	0.15
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	6	0.15
(3,640)	1:6:A:PHE:HD1	1:82:A:SER:HA	5	0.15
(3,640)	1:6:A:PHE:HD2	1:82:A:SER:HA	5	0.15
(3,640)	1:6:A:PHE:HD1	1:82:A:SER:HA	11	0.15
(3,640)	1:6:A:PHE:HD2	1:82:A:SER:HA	11	0.15
(3,623)	1:107:A:LEU:HB3	1:107:A:LEU:HD11	20	0.15
(3,558)	1:107:A:LEU:HD22	1:121:A:TYR:HA	3	0.15
(3,547)	1:29:A:LYS:HB3	1:29:A:LYS:HG2	2	0.15
(3,547)	1:29:A:LYS:HB3	1:29:A:LYS:HG2	6	0.15
(3,541)	1:74:A:VAL:HB	1:74:A:VAL:HG13	4	0.15
(3,541)	1:107:A:LEU:HD21	1:107:A:LEU:HG	8	0.15
(3,541)	1:107:A:LEU:HD21	1:107:A:LEU:HG	13	0.15
(3,541)	1:107:A:LEU:HD22	1:107:A:LEU:HG	14	0.15
(3,541)	1:107:A:LEU:HD23	1:107:A:LEU:HG	18	0.15
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG22	4	0.15
(3,520)	1:2:A:GLY:HA2	1:3:A:LEU:HB2	12	0.15
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	2	0.15
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	2	0.15
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	8	0.15
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	8	0.15
(3,505)	1:125:A:PHE:HE1	1:126:A:GLU:HA	15	0.15
(3,496)	1:139:A:TYR:HE2	1:142:A:GLN:H	17	0.15
(3,470)	1:6:A:PHE:HD2	1:143:A:VAL:HB	17	0.15
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	7	0.15
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	7	0.15
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	7	0.15
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG11	7	0.15
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG12	7	0.15
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG13	7	0.15
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	13	0.15
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	1	0.15
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	5	0.15
(3,306)	1:106:A:THR:H	1:106:A:THR:HG23	2	0.15
(3,285)	1:89:A:THR:H	1:89:A:THR:HG23	13	0.15
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	2	0.15
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	7	0.15
(3,209)	1:101:A:VAL:H	1:101:A:VAL:HB	12	0.15
(3,178)	1:130:A:PRO:HD3	1:131:A:MET:H	10	0.15
(3,178)	1:130:A:PRO:HD3	1:131:A:MET:H	15	0.15
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD21	8	0.15
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD22	8	0.15
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD23	8	0.15
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD1	3	0.15
(3,127)	1:107:A:LEU:HB2	1:121:A:TYR:HD2	3	0.15
(3,99)	1:70:A:ILE:H	1:70:A:ILE:HG12	3	0.15
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD11	20	0.15
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD12	20	0.15
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD13	20	0.15
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD13	10	0.15
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD12	17	0.15
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB1	9	0.15
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB2	9	0.15
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB3	9	0.15
(3,14)	1:144:A:LEU:HB2	1:145:A:ARG:H	15	0.15
(1,2495)	1:113:A:GLN:H	1:113:A:GLN:HG2	12	0.15
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	7	0.15
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	19	0.15
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	10	0.15
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	13	0.15
(1,2168)	1:64:A:GLN:HB3	1:64:A:GLN:HE21	4	0.15
(1,2168)	1:64:A:GLN:HB3	1:64:A:GLN:HE21	17	0.15
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	12	0.15
(1,2025)	1:63:A:SER:H	1:63:A:SER:HB2	17	0.15
(1,1854)	1:11:A:GLY:H	1:13:A:LYS:HD3	17	0.15
(1,1846)	1:105:A:ASP:HB2	1:106:A:THR:H	19	0.15
(1,1776)	1:101:A:VAL:H	1:140:A:PRO:HB2	19	0.15
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	2	0.15
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	10	0.15
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	5	0.15
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	10	0.15
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	4	0.15
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	12	0.15
(1,1710)	1:80:A:ILE:H	1:80:A:ILE:HG13	20	0.15
(1,1708)	1:9:A:ASP:HA	1:79:A:GLY:H	15	0.15
(1,1688)	1:57:A:VAL:H	1:86:A:GLN:HE22	13	0.15
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	2	0.15
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	16	0.15
(1,1662)	1:42:A:ASP:H	1:45:A:LYS:HG3	11	0.15
(1,1642)	1:9:A:ASP:H	1:141:A:GLY:HA2	5	0.15
(1,1635)	1:132:A:LEU:HG	1:142:A:GLN:HE22	8	0.15
(1,1611)	1:72:A:VAL:HG21	1:76:A:ASN:HD21	13	0.15
(1,1611)	1:72:A:VAL:HG22	1:76:A:ASN:HD21	13	0.15
(1,1611)	1:72:A:VAL:HG23	1:76:A:ASN:HD21	13	0.15
(1,1597)	1:32:A:GLN:HG3	1:36:A:ASN:HD21	2	0.15
(1,1597)	1:32:A:GLN:HG2	1:36:A:ASN:HD21	2	0.15
(1,1577)	1:56:A:THR:HG21	1:86:A:GLN:HE21	3	0.15
(1,1577)	1:56:A:THR:HG22	1:86:A:GLN:HE21	3	0.15
(1,1577)	1:56:A:THR:HG23	1:86:A:GLN:HE21	3	0.15
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	1	0.15
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	13	0.15
(1,1542)	1:119:A:ASN:H	1:119:A:ASN:HD22	9	0.15
(1,1434)	1:101:A:VAL:HB	1:139:A:TYR:H	17	0.15
(1,1412)	1:132:A:LEU:HD22	1:137:A:LYS:H	16	0.15
(1,1359)	1:129:A:LYS:HD3	1:131:A:MET:H	17	0.15
(1,1358)	1:130:A:PRO:HG3	1:131:A:MET:H	5	0.15
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE1	10	0.15
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE2	10	0.15
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE3	10	0.15
(1,1352)	1:38:A:THR:HG23	1:131:A:MET:H	15	0.15
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE3	7	0.15
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE3	19	0.15
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	14	0.15
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	19	0.15
(1,1290)	1:124:A:ILE:HD12	1:127:A:ALA:H	16	0.15
(1,1290)	1:124:A:ILE:HD13	1:127:A:ALA:H	20	0.15
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG21	8	0.15
(1,1224)	1:120:A:LEU:HG	1:121:A:TYR:H	14	0.15
(1,1223)	1:118:A:ALA:HB1	1:121:A:TYR:H	18	0.15
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	6	0.15
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD23	1	0.15
(1,1163)	1:115:A:TYR:H	1:146:A:ILE:HB	3	0.15
(1,1149)	1:114:A:VAL:H	1:117:A:ASN:H	19	0.15
(1,1059)	1:105:A:ASP:H	1:140:A:PRO:HA	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1053)	1:102:A:LYS:H	1:110:A:ILE:HG23	4	0.15
(1,1038)	1:101:A:VAL:H	1:102:A:LYS:HG2	8	0.15
(1,996)	1:92:A:PRO:HD3	1:93:A:ALA:H	12	0.15
(1,918)	1:3:A:LEU:HD11	1:82:A:SER:H	10	0.15
(1,870)	1:9:A:ASP:HB3	1:79:A:GLY:H	15	0.15
(1,870)	1:9:A:ASP:HB3	1:79:A:GLY:H	19	0.15
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	1	0.15
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	8	0.15
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	20	0.15
(1,817)	1:76:A:ASN:H	1:77:A:ILE:HG21	15	0.15
(1,773)	1:72:A:VAL:H	1:72:A:VAL:HB	6	0.15
(1,763)	1:71:A:LEU:H	1:73:A:ALA:HB2	6	0.15
(1,732)	1:40:A:ILE:HG21	1:69:A:LYS:H	14	0.15
(1,723)	1:69:A:LYS:H	1:69:A:LYS:HE2	18	0.15
(1,719)	1:64:A:GLN:HE22	1:69:A:LYS:H	20	0.15
(1,691)	1:67:A:LYS:H	1:67:A:LYS:HE3	6	0.15
(1,691)	1:67:A:LYS:H	1:67:A:LYS:HE2	6	0.15
(1,677)	1:65:A:GLU:HB3	1:66:A:ALA:H	3	0.15
(1,649)	1:59:A:GLY:HA3	1:62:A:LEU:H	3	0.15
(1,642)	1:62:A:LEU:H	1:88:A:LYS:HD3	3	0.15
(1,642)	1:62:A:LEU:H	1:88:A:LYS:HD2	3	0.15
(1,615)	1:59:A:GLY:H	1:87:A:VAL:HG12	3	0.15
(1,609)	1:59:A:GLY:H	1:88:A:LYS:HB2	16	0.15
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG11	7	0.15
(1,529)	1:51:A:ALA:H	1:54:A:LYS:HG3	20	0.15
(1,509)	1:50:A:ILE:H	1:50:A:ILE:HD11	19	0.15
(1,506)	1:49:A:GLN:H	1:56:A:THR:HG21	3	0.15
(1,488)	1:48:A:ILE:H	1:48:A:ILE:HG12	13	0.15
(1,487)	1:31:A:VAL:HG13	1:48:A:ILE:H	3	0.15
(1,483)	1:46:A:VAL:HG22	1:47:A:ASN:H	17	0.15
(1,455)	1:45:A:LYS:H	1:45:A:LYS:HD3	6	0.15
(1,454)	1:45:A:LYS:H	1:45:A:LYS:HD2	7	0.15
(1,404)	1:37:A:LYS:HB3	1:39:A:GLY:H	4	0.15
(1,327)	1:34:A:HIS:H	1:34:A:HIS:HD2	2	0.15
(1,324)	1:15:A:TRP:HZ3	1:34:A:HIS:H	4	0.15
(1,305)	1:33:A:GLU:H	1:35:A:LEU:HD12	19	0.15
(1,294)	1:31:A:VAL:HG23	1:32:A:GLN:H	11	0.15
(1,278)	1:14:A:LEU:HD11	1:31:A:VAL:H	10	0.15
(1,278)	1:14:A:LEU:HD12	1:31:A:VAL:H	10	0.15
(1,278)	1:14:A:LEU:HD13	1:31:A:VAL:H	10	0.15
(1,271)	1:30:A:LYS:HD2	1:31:A:VAL:H	10	0.15
(1,270)	1:14:A:LEU:HD11	1:30:A:LYS:H	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,270)	1:14:A:LEU:HD12	1:30:A:LYS:H	12	0.15
(1,270)	1:14:A:LEU:HD13	1:30:A:LYS:H	12	0.15
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB3	6	0.15
(1,246)	1:29:A:LYS:H	1:30:A:LYS:HD2	16	0.15
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	4	0.15
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB3	20	0.15
(1,228)	1:24:A:LYS:HA	1:28:A:ALA:H	11	0.15
(1,219)	1:27:A:GLN:H	1:50:A:ILE:HD11	5	0.15
(1,165)	1:14:A:LEU:H	1:14:A:LEU:HG	14	0.15
(1,165)	1:14:A:LEU:H	1:14:A:LEU:HG	16	0.15
(1,142)	1:12:A:GLU:H	1:77:A:ILE:HB	14	0.15
(1,96)	1:8:A:LYS:H	1:8:A:LYS:HD3	9	0.15
(1,62)	1:83:A:VAL:H	1:143:A:VAL:HG23	7	0.15
(3,2954)	1:54:A:LYS:HA	1:54:A:LYS:HD3	17	0.14
(3,2954)	1:54:A:LYS:HA	1:54:A:LYS:HD2	17	0.14
(3,2906)	1:110:A:ILE:HA	1:113:A:GLN:HE22	10	0.14
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	8	0.14
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	17	0.14
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	20	0.14
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	3	0.14
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	12	0.14
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	18	0.14
(3,2884)	1:133:A:LYS:HA	1:133:A:LYS:HB2	19	0.14
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	10	0.14
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	11	0.14
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	19	0.14
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	1	0.14
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	9	0.14
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	11	0.14
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	12	0.14
(3,2802)	1:91:A:THR:HA	1:92:A:PRO:HD2	14	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	2	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	2	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	2	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	4	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	4	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	4	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	8	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	8	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	8	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	9	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	9	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	10	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	10	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	10	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	11	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	11	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	11	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	12	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	12	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	12	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	16	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	16	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	16	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	17	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	17	0.14
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	17	0.14
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG11	3	0.14
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG12	3	0.14
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG13	3	0.14
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG11	5	0.14
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG12	5	0.14
(3,2785)	1:46:A:VAL:H	1:46:A:VAL:HG13	5	0.14
(3,2784)	1:46:A:VAL:HG11	1:47:A:ASN:H	17	0.14
(3,2784)	1:46:A:VAL:HG12	1:47:A:ASN:H	17	0.14
(3,2784)	1:46:A:VAL:HG13	1:47:A:ASN:H	17	0.14
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	2	0.14
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	2	0.14
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE1	16	0.14
(3,2735)	1:115:A:TYR:HA	1:115:A:TYR:HE2	16	0.14
(3,2729)	1:126:A:GLU:HG3	1:127:A:ALA:H	5	0.14
(3,2729)	1:126:A:GLU:HG3	1:127:A:ALA:H	6	0.14
(3,2709)	1:133:A:LYS:H	1:133:A:LYS:HB3	2	0.14
(3,2686)	1:88:A:LYS:H	1:88:A:LYS:HB3	4	0.14
(3,2686)	1:88:A:LYS:H	1:88:A:LYS:HB2	4	0.14
(3,2633)	1:56:A:THR:HG21	1:86:A:GLN:HE21	1	0.14
(3,2633)	1:56:A:THR:HG22	1:86:A:GLN:HE21	1	0.14
(3,2633)	1:56:A:THR:HG23	1:86:A:GLN:HE21	1	0.14
(3,2577)	1:65:A:GLU:HB2	1:66:A:ALA:H	10	0.14
(3,2512)	1:97:A:GLN:HE21	1:114:A:VAL:HA	11	0.14
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	19	0.14
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	19	0.14
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	1	0.14
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	12	0.14
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	14	0.14
(3,2465)	1:110:A:ILE:HD12	1:144:A:LEU:H	14	0.14
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	17	0.14
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	17	0.14
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	17	0.14
(3,2409)	1:139:A:TYR:HE1	1:142:A:GLN:HB2	6	0.14
(3,2409)	1:139:A:TYR:HE2	1:142:A:GLN:HB2	6	0.14
(3,2407)	1:142:A:GLN:HB2	1:143:A:VAL:H	5	0.14
(3,2407)	1:101:A:VAL:H	1:142:A:GLN:HB2	20	0.14
(3,2355)	1:76:A:ASN:HD22	1:144:A:LEU:HD11	8	0.14
(3,2346)	1:85:A:ASP:HA	1:87:A:VAL:HG13	2	0.14
(3,2304)	1:138:A:ILE:HB	1:144:A:LEU:HD22	15	0.14
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD21	18	0.14
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD22	18	0.14
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD23	18	0.14
(3,2299)	1:14:A:LEU:H	1:14:A:LEU:HG	20	0.14
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG21	13	0.14
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG22	13	0.14
(3,2290)	1:55:A:ALA:HB1	1:74:A:VAL:HG23	13	0.14
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG21	13	0.14
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG22	13	0.14
(3,2290)	1:55:A:ALA:HB2	1:74:A:VAL:HG23	13	0.14
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG21	13	0.14
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG22	13	0.14
(3,2290)	1:55:A:ALA:HB3	1:74:A:VAL:HG23	13	0.14
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD21	20	0.14
(3,2284)	1:69:A:LYS:HG3	1:145:A:ARG:HD3	6	0.14
(3,2262)	1:9:A:ASP:HA	1:78:A:SER:HA	12	0.14
(3,2250)	1:121:A:TYR:HD2	1:135:A:PRO:HG2	19	0.14
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	6	0.14
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	17	0.14
(3,2228)	1:107:A:LEU:HD13	1:144:A:LEU:HD23	5	0.14
(3,2228)	1:132:A:LEU:HD12	1:144:A:LEU:HD21	11	0.14
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	4	0.14
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	4	0.14
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	4	0.14
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	19	0.14
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	19	0.14
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	19	0.14
(3,2188)	1:105:A:ASP:HA	1:109:A:ALA:HB1	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2168)	1:124:A:ILE:HG22	1:128:A:ASN:HB2	5	0.14
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD12	11	0.14
(3,2144)	1:117:A:ASN:H	1:120:A:LEU:HD22	17	0.14
(3,2138)	1:122:A:ASN:HB3	1:126:A:GLU:H	18	0.14
(3,2138)	1:122:A:ASN:HB2	1:126:A:GLU:H	18	0.14
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	6	0.14
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	14	0.14
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	10	0.14
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	7	0.14
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	7	0.14
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG22	4	0.14
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG23	9	0.14
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	10	0.14
(3,2091)	1:110:A:ILE:HD12	1:111:A:SER:HB3	15	0.14
(3,2089)	1:107:A:LEU:HA	1:110:A:ILE:HD11	13	0.14
(3,2084)	1:105:A:ASP:HB2	1:110:A:ILE:HG23	10	0.14
(3,2073)	1:107:A:LEU:HB3	1:108:A:SER:HA	9	0.14
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE3	14	0.14
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE2	14	0.14
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE3	16	0.14
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE2	16	0.14
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD2	12	0.14
(3,2038)	1:72:A:VAL:HG21	1:145:A:ARG:HD3	18	0.14
(3,2002)	1:4:A:PHE:H	1:83:A:VAL:HG12	19	0.14
(3,1997)	1:58:A:THR:HG23	1:88:A:LYS:HE3	16	0.14
(3,1992)	1:123:A:LYS:HE3	1:147:A:PRO:HG2	3	0.14
(3,1978)	1:57:A:VAL:H	1:83:A:VAL:HG12	3	0.14
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	11	0.14
(3,1945)	1:6:A:PHE:HD1	1:82:A:SER:HB3	18	0.14
(3,1945)	1:6:A:PHE:HD2	1:82:A:SER:HB3	18	0.14
(3,1943)	1:55:A:ALA:H	1:82:A:SER:HB2	1	0.14
(3,1891)	1:7:A:VAL:HB	1:141:A:GLY:HA2	2	0.14
(3,1870)	1:82:A:SER:H	1:82:A:SER:HB2	2	0.14
(3,1859)	1:138:A:ILE:HB	1:138:A:ILE:HD11	7	0.14
(3,1859)	1:138:A:ILE:HB	1:138:A:ILE:HD13	9	0.14
(3,1851)	1:3:A:LEU:HG	1:82:A:SER:HB3	13	0.14
(3,1841)	1:3:A:LEU:HD11	1:82:A:SER:HB2	11	0.14
(3,1841)	1:3:A:LEU:HD12	1:82:A:SER:HB2	11	0.14
(3,1841)	1:3:A:LEU:HD13	1:82:A:SER:HB2	11	0.14
(3,1841)	1:3:A:LEU:HD21	1:82:A:SER:HB2	11	0.14
(3,1841)	1:3:A:LEU:HD22	1:82:A:SER:HB2	11	0.14
(3,1841)	1:3:A:LEU:HD23	1:82:A:SER:HB2	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1807)	1:99:A:TYR:HE1	1:110:A:ILE:HA	2	0.14
(3,1803)	1:72:A:VAL:HA	1:98:A:PHE:HE2	9	0.14
(3,1791)	1:135:A:PRO:HA	1:135:A:PRO:HB2	3	0.14
(3,1789)	1:3:A:LEU:HD12	1:82:A:SER:HA	18	0.14
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	5	0.14
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	14	0.14
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	16	0.14
(3,1766)	1:47:A:ASN:HB2	1:59:A:GLY:HA2	7	0.14
(3,1728)	1:132:A:LEU:HB3	1:132:A:LEU:HD22	6	0.14
(3,1721)	1:101:A:VAL:HA	1:102:A:LYS:HG2	11	0.14
(3,1710)	1:31:A:VAL:HG23	1:50:A:ILE:HD11	9	0.14
(3,1672)	1:47:A:ASN:HA	1:48:A:ILE:HD11	1	0.14
(3,1672)	1:47:A:ASN:HA	1:48:A:ILE:HD12	1	0.14
(3,1672)	1:47:A:ASN:HA	1:48:A:ILE:HD13	1	0.14
(3,1665)	1:32:A:GLN:HB2	1:48:A:ILE:HD13	12	0.14
(3,1605)	1:127:A:ALA:HB1	1:145:A:ARG:H	14	0.14
(3,1605)	1:127:A:ALA:HB2	1:145:A:ARG:H	14	0.14
(3,1605)	1:127:A:ALA:HB3	1:145:A:ARG:H	14	0.14
(3,1604)	1:109:A:ALA:HB2	1:110:A:ILE:H	11	0.14
(3,1604)	1:109:A:ALA:HB1	1:110:A:ILE:H	16	0.14
(3,1577)	1:40:A:ILE:HD11	1:41:A:PRO:HD3	2	0.14
(3,1553)	1:48:A:ILE:HB	1:48:A:ILE:HG23	10	0.14
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG21	13	0.14
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG22	13	0.14
(3,1548)	1:146:A:ILE:HG12	1:146:A:ILE:HG23	13	0.14
(3,1539)	1:40:A:ILE:HD12	1:73:A:ALA:HB3	4	0.14
(3,1509)	1:40:A:ILE:HG22	1:70:A:ILE:HA	7	0.14
(3,1500)	1:115:A:TYR:HE1	1:148:A:GLU:HA	6	0.14
(3,1500)	1:115:A:TYR:HE2	1:148:A:GLU:HA	6	0.14
(3,1499)	1:3:A:LEU:HG	1:4:A:PHE:H	16	0.14
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD12	15	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG23	1	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG21	2	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG23	7	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG23	9	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG22	10	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG22	11	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG23	13	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG21	14	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG21	15	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG23	17	0.14
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG22	20	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	7	0.14
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	12	0.14
(3,1447)	1:98:A:PHE:HB3	1:143:A:VAL:HB	13	0.14
(3,1414)	1:34:A:HIS:HB2	1:77:A:ILE:HD11	15	0.14
(3,1395)	1:30:A:LYS:HD3	1:33:A:GLU:HG3	5	0.14
(3,1389)	1:33:A:GLU:HA	1:33:A:GLU:HG3	3	0.14
(3,1389)	1:33:A:GLU:HA	1:33:A:GLU:HG3	14	0.14
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	1	0.14
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD13	19	0.14
(3,1325)	1:99:A:TYR:HE1	1:101:A:VAL:HG22	3	0.14
(3,1304)	1:30:A:LYS:HB3	1:31:A:VAL:HG23	8	0.14
(3,1269)	1:31:A:VAL:HG21	1:50:A:ILE:HD12	15	0.14
(3,1258)	1:30:A:LYS:HA	1:30:A:LYS:HB3	6	0.14
(3,1233)	1:30:A:LYS:HA	1:30:A:LYS:HD3	2	0.14
(3,1233)	1:30:A:LYS:HA	1:30:A:LYS:HD2	2	0.14
(3,1230)	1:28:A:ALA:HB2	1:50:A:ILE:HG13	4	0.14
(3,1213)	1:124:A:ILE:HG22	1:125:A:PHE:H	20	0.14
(3,1178)	1:49:A:GLN:HG3	1:50:A:ILE:H	13	0.14
(3,1178)	1:49:A:GLN:HG2	1:50:A:ILE:H	13	0.14
(3,1126)	1:32:A:GLN:HA	1:35:A:LEU:HB3	8	0.14
(3,1088)	1:54:A:LYS:HA	1:81:A:ALA:HB2	1	0.14
(3,1083)	1:144:A:LEU:HD11	1:145:A:ARG:H	2	0.14
(3,1083)	1:144:A:LEU:HD12	1:145:A:ARG:H	2	0.14
(3,1083)	1:144:A:LEU:HD13	1:145:A:ARG:H	2	0.14
(3,1083)	1:144:A:LEU:HD11	1:145:A:ARG:H	5	0.14
(3,1083)	1:144:A:LEU:HD12	1:145:A:ARG:H	5	0.14
(3,1083)	1:144:A:LEU:HD13	1:145:A:ARG:H	5	0.14
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	4	0.14
(3,1077)	1:108:A:SER:HB3	1:109:A:ALA:H	12	0.14
(3,1061)	1:13:A:LYS:HB3	1:78:A:SER:HB3	5	0.14
(3,1060)	1:18:A:VAL:HA	1:18:A:VAL:HB	16	0.14
(3,1060)	1:18:A:VAL:HA	1:18:A:VAL:HB	17	0.14
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	18	0.14
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	16	0.14
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	16	0.14
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	16	0.14
(3,1040)	1:56:A:THR:HG21	1:86:A:GLN:HB3	17	0.14
(3,1040)	1:56:A:THR:HG22	1:86:A:GLN:HB3	17	0.14
(3,1040)	1:56:A:THR:HG23	1:86:A:GLN:HB3	17	0.14
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG11	12	0.14
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG12	12	0.14
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG13	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG11	12	0.14
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG12	12	0.14
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG13	12	0.14
(3,1010)	1:127:A:ALA:HB1	1:128:A:ASN:HA	3	0.14
(3,994)	1:35:A:LEU:HD22	1:73:A:ALA:HB1	9	0.14
(3,993)	1:35:A:LEU:HD21	1:43:A:ALA:HB1	1	0.14
(3,955)	1:14:A:LEU:HD11	1:34:A:HIS:HB3	2	0.14
(3,955)	1:14:A:LEU:HD12	1:34:A:HIS:HB3	2	0.14
(3,955)	1:14:A:LEU:HD13	1:34:A:HIS:HB3	2	0.14
(3,955)	1:14:A:LEU:HD11	1:34:A:HIS:HB3	9	0.14
(3,955)	1:14:A:LEU:HD12	1:34:A:HIS:HB3	9	0.14
(3,955)	1:14:A:LEU:HD13	1:34:A:HIS:HB3	9	0.14
(3,955)	1:14:A:LEU:HD11	1:34:A:HIS:HB3	10	0.14
(3,955)	1:14:A:LEU:HD12	1:34:A:HIS:HB3	10	0.14
(3,955)	1:14:A:LEU:HD13	1:34:A:HIS:HB3	10	0.14
(3,955)	1:14:A:LEU:HD11	1:34:A:HIS:HB3	11	0.14
(3,955)	1:14:A:LEU:HD12	1:34:A:HIS:HB3	11	0.14
(3,955)	1:14:A:LEU:HD13	1:34:A:HIS:HB3	11	0.14
(3,952)	1:42:A:ASP:HB3	1:62:A:LEU:HD12	18	0.14
(3,919)	1:121:A:TYR:HD2	1:122:A:ASN:HA	8	0.14
(3,919)	1:121:A:TYR:HD2	1:122:A:ASN:HA	19	0.14
(3,916)	1:15:A:TRP:HE3	1:21:A:GLN:HB3	12	0.14
(3,913)	1:88:A:LYS:HB3	1:88:A:LYS:HG2	15	0.14
(3,900)	1:149:A:GLU:HA	1:149:A:GLU:HB2	15	0.14
(3,900)	1:149:A:GLU:HA	1:149:A:GLU:HB2	17	0.14
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	1	0.14
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	1	0.14
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	14	0.14
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	14	0.14
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	19	0.14
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	19	0.14
(3,854)	1:10:A:ALA:HB1	1:11:A:GLY:HA2	11	0.14
(3,846)	1:10:A:ALA:HB1	1:141:A:GLY:H	4	0.14
(3,846)	1:10:A:ALA:HB2	1:141:A:GLY:H	4	0.14
(3,846)	1:10:A:ALA:HB3	1:141:A:GLY:H	4	0.14
(3,846)	1:10:A:ALA:HB1	1:141:A:GLY:H	8	0.14
(3,846)	1:10:A:ALA:HB2	1:141:A:GLY:H	8	0.14
(3,846)	1:10:A:ALA:HB3	1:141:A:GLY:H	8	0.14
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	1	0.14
(3,817)	1:62:A:LEU:HA	1:63:A:SER:H	4	0.14
(3,817)	1:62:A:LEU:HA	1:63:A:SER:H	7	0.14
(3,817)	1:62:A:LEU:HA	1:63:A:SER:H	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,805)	1:43:A:ALA:HA	1:70:A:ILE:HD12	11	0.14
(3,805)	1:43:A:ALA:HA	1:70:A:ILE:HD12	14	0.14
(3,795)	1:132:A:LEU:HD21	1:137:A:LYS:HB2	12	0.14
(3,795)	1:132:A:LEU:HD22	1:137:A:LYS:HB2	12	0.14
(3,795)	1:132:A:LEU:HD23	1:137:A:LYS:HB2	12	0.14
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	20	0.14
(3,753)	1:144:A:LEU:HB3	1:144:A:LEU:HD12	6	0.14
(3,753)	1:144:A:LEU:HB3	1:144:A:LEU:HD13	20	0.14
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	6	0.14
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	6	0.14
(3,752)	1:12:A:GLU:HB2	1:14:A:LEU:HD23	6	0.14
(3,740)	1:14:A:LEU:HD21	1:34:A:HIS:HB3	8	0.14
(3,740)	1:14:A:LEU:HD22	1:34:A:HIS:HB3	8	0.14
(3,740)	1:14:A:LEU:HD23	1:34:A:HIS:HB3	8	0.14
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB1	14	0.14
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB2	14	0.14
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB3	14	0.14
(3,697)	1:134:A:SER:HB2	1:135:A:PRO:HD2	11	0.14
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	19	0.14
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	19	0.14
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	5	0.14
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	10	0.14
(3,669)	1:28:A:ALA:HA	1:31:A:VAL:HG23	2	0.14
(3,661)	1:123:A:LYS:HE3	1:149:A:GLU:HA	16	0.14
(3,661)	1:123:A:LYS:HE2	1:149:A:GLU:HA	16	0.14
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	4	0.14
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	10	0.14
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	17	0.14
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	3	0.14
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	4	0.14
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	7	0.14
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	8	0.14
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	20	0.14
(3,640)	1:6:A:PHE:HD1	1:82:A:SER:HA	1	0.14
(3,640)	1:6:A:PHE:HD2	1:82:A:SER:HA	1	0.14
(3,636)	1:6:A:PHE:HD1	1:83:A:VAL:HG21	5	0.14
(3,583)	1:4:A:PHE:HB2	1:6:A:PHE:HZ	19	0.14
(3,547)	1:29:A:LYS:HB3	1:29:A:LYS:HG2	13	0.14
(3,533)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	1	0.14
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG23	6	0.14
(3,520)	1:2:A:GLY:HA3	1:3:A:LEU:HB2	9	0.14
(3,471)	1:115:A:TYR:HD1	1:120:A:LEU:HD21	17	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,431)	1:99:A:TYR:HD1	1:144:A:LEU:HD21	9	0.14
(3,364)	1:30:A:LYS:HA	1:30:A:LYS:HG2	14	0.14
(3,285)	1:89:A:THR:H	1:89:A:THR:HG22	6	0.14
(3,278)	1:27:A:GLN:H	1:27:A:GLN:HG2	20	0.14
(3,273)	1:64:A:GLN:HB2	1:93:A:ALA:HB2	18	0.14
(3,267)	1:58:A:THR:H	1:58:A:THR:HB	14	0.14
(3,243)	1:29:A:LYS:HG2	1:30:A:LYS:H	20	0.14
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE3	10	0.14
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE2	10	0.14
(3,222)	1:150:A:LEU:H	1:150:A:LEU:HG	5	0.14
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	3	0.14
(3,209)	1:101:A:VAL:H	1:101:A:VAL:HB	15	0.14
(3,202)	1:140:A:PRO:HB2	1:141:A:GLY:H	7	0.14
(3,174)	1:40:A:ILE:HD11	1:130:A:PRO:HD2	5	0.14
(3,174)	1:40:A:ILE:HD12	1:130:A:PRO:HD2	5	0.14
(3,174)	1:40:A:ILE:HD13	1:130:A:PRO:HD2	5	0.14
(3,99)	1:70:A:ILE:H	1:70:A:ILE:HG12	18	0.14
(3,77)	1:57:A:VAL:HG13	1:87:A:VAL:H	5	0.14
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	6	0.14
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB1	8	0.14
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB2	8	0.14
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB3	8	0.14
(1,2573)	1:17:A:ALA:HA	1:18:A:VAL:H	2	0.14
(1,2527)	1:10:A:ALA:H	1:11:A:GLY:H	10	0.14
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	11	0.14
(1,2363)	1:8:A:LYS:H	1:8:A:LYS:HG2	15	0.14
(1,2311)	1:88:A:LYS:H	1:88:A:LYS:HG3	18	0.14
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	3	0.14
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	17	0.14
(1,2186)	1:64:A:GLN:HB2	1:64:A:GLN:HE22	5	0.14
(1,2148)	1:128:A:ASN:H	1:128:A:ASN:HD22	15	0.14
(1,2044)	1:63:A:SER:H	1:64:A:GLN:H	4	0.14
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	2	0.14
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	4	0.14
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	5	0.14
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	7	0.14
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	9	0.14
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	17	0.14
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	20	0.14
(1,1979)	1:70:A:ILE:HG13	1:74:A:VAL:H	19	0.14
(1,1897)	1:102:A:LYS:HB2	1:113:A:GLN:HE21	15	0.14
(1,1846)	1:105:A:ASP:HB2	1:106:A:THR:H	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1815)	1:18:A:VAL:HG11	1:21:A:GLN:HE22	11	0.14
(1,1815)	1:18:A:VAL:HG12	1:21:A:GLN:HE22	11	0.14
(1,1815)	1:18:A:VAL:HG13	1:21:A:GLN:HE22	11	0.14
(1,1815)	1:18:A:VAL:HG21	1:21:A:GLN:HE22	11	0.14
(1,1815)	1:18:A:VAL:HG22	1:21:A:GLN:HE22	11	0.14
(1,1815)	1:18:A:VAL:HG23	1:21:A:GLN:HE22	11	0.14
(1,1761)	1:97:A:GLN:H	1:146:A:ILE:HD13	11	0.14
(1,1754)	1:97:A:GLN:H	1:98:A:PHE:H	5	0.14
(1,1738)	1:94:A:THR:HB	1:95:A:ALA:H	12	0.14
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	2	0.14
(1,1710)	1:80:A:ILE:H	1:80:A:ILE:HG13	8	0.14
(1,1710)	1:80:A:ILE:H	1:80:A:ILE:HG13	18	0.14
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	8	0.14
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	15	0.14
(1,1666)	1:41:A:PRO:HG3	1:42:A:ASP:H	17	0.14
(1,1662)	1:42:A:ASP:H	1:66:A:ALA:HB3	13	0.14
(1,1653)	1:36:A:ASN:H	1:38:A:THR:HG22	14	0.14
(1,1633)	1:117:A:ASN:HD21	1:119:A:ASN:HB3	16	0.14
(1,1627)	1:124:A:ILE:HG21	1:128:A:ASN:HD22	19	0.14
(1,1627)	1:124:A:ILE:HG22	1:128:A:ASN:HD22	19	0.14
(1,1627)	1:124:A:ILE:HG23	1:128:A:ASN:HD22	19	0.14
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	8	0.14
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	10	0.14
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	15	0.14
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	20	0.14
(1,1572)	1:150:A:LEU:HB3	1:151:A:GLU:H	19	0.14
(1,1566)	1:149:A:GLU:HG3	1:150:A:LEU:H	7	0.14
(1,1550)	1:97:A:GLN:H	1:149:A:GLU:H	8	0.14
(1,1546)	1:147:A:PRO:HB2	1:148:A:GLU:H	20	0.14
(1,1543)	1:49:A:GLN:HE21	1:56:A:THR:HG21	5	0.14
(1,1543)	1:49:A:GLN:HE21	1:56:A:THR:HG22	5	0.14
(1,1543)	1:49:A:GLN:HE21	1:56:A:THR:HG23	5	0.14
(1,1480)	1:6:A:PHE:HE1	1:143:A:VAL:H	20	0.14
(1,1480)	1:6:A:PHE:HE2	1:143:A:VAL:H	20	0.14
(1,1465)	1:10:A:ALA:HB1	1:142:A:GLN:H	20	0.14
(1,1411)	1:137:A:LYS:H	1:137:A:LYS:HD2	15	0.14
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	8	0.14
(1,1372)	1:133:A:LYS:H	1:133:A:LYS:HB3	2	0.14
(1,1359)	1:129:A:LYS:HD3	1:131:A:MET:H	16	0.14
(1,1358)	1:130:A:PRO:HG3	1:131:A:MET:H	3	0.14
(1,1357)	1:40:A:ILE:HG12	1:131:A:MET:H	2	0.14
(1,1330)	1:128:A:ASN:H	1:144:A:LEU:HD11	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1309)	1:127:A:ALA:H	1:128:A:ASN:HD22	16	0.14
(1,1295)	1:126:A:GLU:HG2	1:127:A:ALA:H	19	0.14
(1,1290)	1:124:A:ILE:HD12	1:127:A:ALA:H	7	0.14
(1,1290)	1:124:A:ILE:HD11	1:127:A:ALA:H	9	0.14
(1,1239)	1:111:A:SER:H	1:121:A:TYR:H	1	0.14
(1,1239)	1:111:A:SER:H	1:121:A:TYR:H	12	0.14
(1,1215)	1:120:A:LEU:H	1:123:A:LYS:HB2	18	0.14
(1,1195)	1:112:A:LYS:HG3	1:117:A:ASN:H	13	0.14
(1,1194)	1:112:A:LYS:HB3	1:117:A:ASN:H	3	0.14
(1,1194)	1:112:A:LYS:HB3	1:117:A:ASN:H	12	0.14
(1,1163)	1:115:A:TYR:H	1:146:A:ILE:HB	11	0.14
(1,1149)	1:114:A:VAL:H	1:117:A:ASN:H	9	0.14
(1,1131)	1:112:A:LYS:HB2	1:113:A:GLN:H	2	0.14
(1,1066)	1:105:A:ASP:H	1:138:A:ILE:HG13	16	0.14
(1,1059)	1:105:A:ASP:H	1:140:A:PRO:HA	17	0.14
(1,1044)	1:99:A:TYR:HE1	1:102:A:LYS:H	20	0.14
(1,1044)	1:99:A:TYR:HE2	1:102:A:LYS:H	20	0.14
(1,970)	1:88:A:LYS:HB3	1:89:A:THR:H	18	0.14
(1,970)	1:88:A:LYS:HB2	1:89:A:THR:H	18	0.14
(1,957)	1:67:A:LYS:HE3	1:87:A:VAL:H	2	0.14
(1,957)	1:67:A:LYS:HE2	1:87:A:VAL:H	2	0.14
(1,924)	1:74:A:VAL:HG21	1:84:A:ASP:H	9	0.14
(1,920)	1:57:A:VAL:HG12	1:84:A:ASP:H	9	0.14
(1,920)	1:83:A:VAL:HG23	1:84:A:ASP:H	13	0.14
(1,885)	1:8:A:LYS:HG3	1:80:A:ILE:H	10	0.14
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	10	0.14
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	20	0.14
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	7	0.14
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	9	0.14
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	13	0.14
(1,837)	1:31:A:VAL:HG23	1:77:A:ILE:H	7	0.14
(1,804)	1:35:A:LEU:HD12	1:74:A:VAL:H	1	0.14
(1,763)	1:71:A:LEU:H	1:73:A:ALA:HB1	11	0.14
(1,712)	1:68:A:GLU:H	1:145:A:ARG:HD3	3	0.14
(1,708)	1:67:A:LYS:HB2	1:68:A:GLU:H	10	0.14
(1,678)	1:65:A:GLU:HG2	1:66:A:ALA:H	10	0.14
(1,673)	1:65:A:GLU:HB2	1:66:A:ALA:H	20	0.14
(1,657)	1:62:A:LEU:HD23	1:63:A:SER:H	14	0.14
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG11	8	0.14
(1,588)	1:58:A:THR:H	1:74:A:VAL:HG13	19	0.14
(1,587)	1:58:A:THR:H	1:58:A:THR:HG21	11	0.14
(1,587)	1:58:A:THR:H	1:58:A:THR:HG22	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,587)	1:58:A:THR:H	1:58:A:THR:HG23	11	0.14
(1,529)	1:51:A:ALA:H	1:54:A:LYS:HG3	19	0.14
(1,488)	1:48:A:ILE:H	1:48:A:ILE:HG12	9	0.14
(1,488)	1:48:A:ILE:H	1:48:A:ILE:HG12	11	0.14
(1,487)	1:48:A:ILE:H	1:74:A:VAL:HG11	13	0.14
(1,483)	1:46:A:VAL:HG21	1:47:A:ASN:H	2	0.14
(1,459)	1:45:A:LYS:HD3	1:46:A:VAL:H	1	0.14
(1,383)	1:37:A:LYS:H	1:37:A:LYS:HG2	5	0.14
(1,355)	1:34:A:HIS:HB2	1:35:A:LEU:H	8	0.14
(1,324)	1:15:A:TRP:HZ3	1:34:A:HIS:H	10	0.14
(1,300)	1:132:A:LEU:H	1:132:A:LEU:HG	12	0.14
(1,293)	1:32:A:GLN:H	1:48:A:ILE:HG13	17	0.14
(1,269)	1:30:A:LYS:H	1:48:A:ILE:HG22	12	0.14
(1,260)	1:26:A:ASP:HB3	1:30:A:LYS:H	16	0.14
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	16	0.14
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	20	0.14
(1,230)	1:26:A:ASP:HB3	1:28:A:ALA:H	16	0.14
(1,203)	1:17:A:ALA:HB1	1:18:A:VAL:H	15	0.14
(1,203)	1:17:A:ALA:HB2	1:18:A:VAL:H	15	0.14
(1,203)	1:17:A:ALA:HB3	1:18:A:VAL:H	15	0.14
(1,195)	1:15:A:TRP:H	1:77:A:ILE:HG23	4	0.14
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	3	0.14
(1,67)	1:4:A:PHE:H	1:82:A:SER:HB2	6	0.14
(1,31)	1:5:A:ASN:H	1:83:A:VAL:HG21	3	0.14
(1,31)	1:5:A:ASN:H	1:83:A:VAL:HG23	20	0.14
(1,19)	1:15:A:TRP:HE1	1:79:A:GLY:HA3	12	0.14
(1,15)	1:15:A:TRP:HE1	1:80:A:ILE:HD12	6	0.14
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG11	9	0.14
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG21	16	0.14
(3,2954)	1:54:A:LYS:HA	1:54:A:LYS:HD3	5	0.13
(3,2954)	1:54:A:LYS:HA	1:54:A:LYS:HD2	5	0.13
(3,2906)	1:110:A:ILE:HA	1:113:A:GLN:HE22	12	0.13
(3,2889)	1:96:A:SER:HB2	1:97:A:GLN:H	6	0.13
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	1	0.13
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	6	0.13
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	4	0.13
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	10	0.13
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	17	0.13
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	18	0.13
(3,2802)	1:91:A:THR:HA	1:92:A:PRO:HD2	19	0.13
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	1	0.13
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	1	0.13
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	5	0.13
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	5	0.13
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	5	0.13
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	7	0.13
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	7	0.13
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	7	0.13
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG21	20	0.13
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG22	20	0.13
(3,2791)	1:146:A:ILE:H	1:146:A:ILE:HG23	20	0.13
(3,2778)	1:22:A:HIS:HA	1:23:A:ASP:H	3	0.13
(3,2729)	1:126:A:GLU:HG3	1:127:A:ALA:H	3	0.13
(3,2729)	1:126:A:GLU:HG3	1:127:A:ALA:H	10	0.13
(3,2728)	1:123:A:LYS:H	1:123:A:LYS:HD3	17	0.13
(3,2728)	1:123:A:LYS:H	1:123:A:LYS:HD2	17	0.13
(3,2587)	1:144:A:LEU:HB2	1:144:A:LEU:HD21	6	0.13
(3,2587)	1:144:A:LEU:HB2	1:144:A:LEU:HD22	6	0.13
(3,2587)	1:144:A:LEU:HB2	1:144:A:LEU:HD23	6	0.13
(3,2587)	1:144:A:LEU:HB2	1:144:A:LEU:HD21	20	0.13
(3,2587)	1:144:A:LEU:HB2	1:144:A:LEU:HD22	20	0.13
(3,2587)	1:144:A:LEU:HB2	1:144:A:LEU:HD23	20	0.13
(3,2570)	1:123:A:LYS:HE3	1:123:A:LYS:HG3	5	0.13
(3,2570)	1:123:A:LYS:HE2	1:123:A:LYS:HG3	5	0.13
(3,2560)	1:110:A:ILE:HA	1:113:A:GLN:HG3	8	0.13
(3,2516)	1:110:A:ILE:HD13	1:111:A:SER:H	7	0.13
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	9	0.13
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	9	0.13
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	9	0.13
(3,2493)	1:31:A:VAL:HA	1:77:A:ILE:HD12	9	0.13
(3,2493)	1:31:A:VAL:HA	1:77:A:ILE:HD11	13	0.13
(3,2493)	1:31:A:VAL:HA	1:77:A:ILE:HD13	18	0.13
(3,2493)	1:31:A:VAL:HA	1:77:A:ILE:HD11	20	0.13
(3,2477)	1:134:A:SER:HB3	1:136:A:ASP:H	11	0.13
(3,2465)	1:110:A:ILE:HD12	1:144:A:LEU:H	10	0.13
(3,2448)	1:77:A:ILE:HG21	1:80:A:ILE:HG13	13	0.13
(3,2448)	1:77:A:ILE:HG22	1:80:A:ILE:HG13	13	0.13
(3,2448)	1:77:A:ILE:HG23	1:80:A:ILE:HG13	13	0.13
(3,2448)	1:77:A:ILE:HG21	1:80:A:ILE:HG13	19	0.13
(3,2448)	1:77:A:ILE:HG22	1:80:A:ILE:HG13	19	0.13
(3,2448)	1:77:A:ILE:HG23	1:80:A:ILE:HG13	19	0.13
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	11	0.13
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	11	0.13
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD21	16	0.13
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD22	16	0.13
(3,2421)	1:46:A:VAL:HA	1:62:A:LEU:HD23	16	0.13
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	1	0.13
(3,2400)	1:72:A:VAL:HG21	1:98:A:PHE:HD2	7	0.13
(3,2358)	1:129:A:LYS:HD3	1:130:A:PRO:HA	7	0.13
(3,2358)	1:129:A:LYS:HD3	1:130:A:PRO:HA	14	0.13
(3,2358)	1:129:A:LYS:HD3	1:130:A:PRO:HA	16	0.13
(3,2343)	1:69:A:LYS:H	1:69:A:LYS:HD2	18	0.13
(3,2315)	1:98:A:PHE:HA	1:146:A:ILE:HD11	13	0.13
(3,2315)	1:98:A:PHE:HA	1:146:A:ILE:HD12	13	0.13
(3,2315)	1:98:A:PHE:HA	1:146:A:ILE:HD13	13	0.13
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	9	0.13
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	12	0.13
(3,2262)	1:9:A:ASP:HA	1:78:A:SER:HA	4	0.13
(3,2262)	1:9:A:ASP:HA	1:78:A:SER:HA	17	0.13
(3,2262)	1:9:A:ASP:HA	1:78:A:SER:HA	20	0.13
(3,2218)	1:14:A:LEU:HB3	1:34:A:HIS:HB2	11	0.13
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG21	10	0.13
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG22	10	0.13
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG23	10	0.13
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG21	11	0.13
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG22	11	0.13
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG23	11	0.13
(3,2177)	1:54:A:LYS:HD2	1:84:A:ASP:H	17	0.13
(3,2168)	1:124:A:ILE:HG21	1:128:A:ASN:HB2	10	0.13
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD13	17	0.13
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	3	0.13
(3,2124)	1:115:A:TYR:HA	1:149:A:GLU:HB3	9	0.13
(3,2118)	1:49:A:GLN:HG3	1:56:A:THR:H	20	0.13
(3,2118)	1:49:A:GLN:HG2	1:56:A:THR:H	20	0.13
(3,2104)	1:102:A:LYS:H	1:110:A:ILE:HG23	4	0.13
(3,2092)	1:110:A:ILE:HD13	1:111:A:SER:HB2	5	0.13
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE3	19	0.13
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE2	19	0.13
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB2	15	0.13
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD3	6	0.13
(3,2045)	1:134:A:SER:HB3	1:137:A:LYS:HD2	11	0.13
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG21	7	0.13
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG21	19	0.13
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG22	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2036)	1:30:A:LYS:H	1:31:A:VAL:HG23	10	0.13
(3,2029)	1:108:A:SER:HA	1:121:A:TYR:HA	18	0.13
(3,2023)	1:99:A:TYR:HD2	1:113:A:GLN:HG3	3	0.13
(3,2008)	1:96:A:SER:HB3	1:146:A:ILE:HB	16	0.13
(3,1997)	1:58:A:THR:HG21	1:88:A:LYS:HE2	20	0.13
(3,1956)	1:101:A:VAL:HG21	1:139:A:TYR:HA	15	0.13
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG3	10	0.13
(3,1947)	1:149:A:GLU:H	1:149:A:GLU:HG2	10	0.13
(3,1888)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	15	0.13
(3,1888)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	15	0.13
(3,1888)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	15	0.13
(3,1875)	1:72:A:VAL:HG22	1:145:A:ARG:HD2	6	0.13
(3,1873)	1:72:A:VAL:HG11	1:144:A:LEU:HA	12	0.13
(3,1870)	1:82:A:SER:H	1:82:A:SER:HB2	4	0.13
(3,1864)	1:82:A:SER:HA	1:82:A:SER:HB3	16	0.13
(3,1859)	1:138:A:ILE:HB	1:138:A:ILE:HD12	2	0.13
(3,1859)	1:138:A:ILE:HB	1:138:A:ILE:HD12	6	0.13
(3,1859)	1:138:A:ILE:HB	1:138:A:ILE:HD13	19	0.13
(3,1843)	1:35:A:LEU:HD21	1:70:A:ILE:HA	4	0.13
(3,1843)	1:70:A:ILE:HA	1:70:A:ILE:HG22	15	0.13
(3,1818)	1:68:A:GLU:HG3	1:98:A:PHE:HE1	16	0.13
(3,1808)	1:63:A:SER:HB3	1:65:A:GLU:H	19	0.13
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	4	0.13
(3,1763)	1:31:A:VAL:HG13	1:32:A:GLN:HA	7	0.13
(3,1763)	1:31:A:VAL:HG13	1:32:A:GLN:HA	12	0.13
(3,1756)	1:49:A:GLN:HG2	1:56:A:THR:HB	19	0.13
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	3	0.13
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	8	0.13
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	11	0.13
(3,1658)	1:124:A:ILE:HD13	1:124:A:ILE:HG12	11	0.13
(3,1658)	1:124:A:ILE:HD12	1:124:A:ILE:HG12	17	0.13
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	3	0.13
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	3	0.13
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	3	0.13
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	3	0.13
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	3	0.13
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	3	0.13
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	20	0.13
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	20	0.13
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	20	0.13
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	20	0.13
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	20	0.13
(3,1605)	1:127:A:ALA:HB1	1:145:A:ARG:H	7	0.13
(3,1605)	1:127:A:ALA:HB2	1:145:A:ARG:H	7	0.13
(3,1605)	1:127:A:ALA:HB3	1:145:A:ARG:H	7	0.13
(3,1605)	1:127:A:ALA:HB1	1:145:A:ARG:H	16	0.13
(3,1605)	1:127:A:ALA:HB2	1:145:A:ARG:H	16	0.13
(3,1605)	1:127:A:ALA:HB3	1:145:A:ARG:H	16	0.13
(3,1604)	1:109:A:ALA:HB2	1:110:A:ILE:H	4	0.13
(3,1604)	1:109:A:ALA:HB1	1:110:A:ILE:H	6	0.13
(3,1604)	1:109:A:ALA:HB2	1:110:A:ILE:H	10	0.13
(3,1600)	1:42:A:ASP:HA	1:45:A:LYS:HG3	14	0.13
(3,1575)	1:146:A:ILE:HG23	1:147:A:PRO:HD2	19	0.13
(3,1537)	1:40:A:ILE:HD12	1:130:A:PRO:HG2	8	0.13
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD11	13	0.13
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD12	13	0.13
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD13	13	0.13
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD11	19	0.13
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD12	19	0.13
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD13	19	0.13
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD11	20	0.13
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD12	20	0.13
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD13	20	0.13
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	10	0.13
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	10	0.13
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	10	0.13
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	16	0.13
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	16	0.13
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	16	0.13
(3,1500)	1:115:A:TYR:HE1	1:148:A:GLU:HA	9	0.13
(3,1500)	1:115:A:TYR:HE2	1:148:A:GLU:HA	9	0.13
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG22	3	0.13
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG23	4	0.13
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG21	20	0.13
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG22	20	0.13
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG23	20	0.13
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG21	20	0.13
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG22	20	0.13
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG23	20	0.13
(3,1475)	1:54:A:LYS:HD2	1:84:A:ASP:HA	13	0.13
(3,1468)	1:15:A:TRP:HE3	1:30:A:LYS:HD3	8	0.13
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	18	0.13
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	6	0.13
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	9	0.13
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	13	0.13
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	20	0.13
(3,1437)	1:62:A:LEU:HD12	1:89:A:THR:HA	7	0.13
(3,1395)	1:30:A:LYS:HD3	1:33:A:GLU:HG3	6	0.13
(3,1385)	1:148:A:GLU:HG3	1:149:A:GLU:H	4	0.13
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	16	0.13
(3,1359)	1:113:A:GLN:HB2	1:113:A:GLN:HG3	14	0.13
(3,1347)	1:115:A:TYR:HE1	1:149:A:GLU:HB3	13	0.13
(3,1347)	1:115:A:TYR:HE2	1:149:A:GLU:HB3	13	0.13
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD11	3	0.13
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD12	3	0.13
(3,1344)	1:117:A:ASN:HD22	1:120:A:LEU:HD13	3	0.13
(3,1338)	1:72:A:VAL:HG12	1:145:A:ARG:H	18	0.13
(3,1333)	1:101:A:VAL:HG12	1:139:A:TYR:H	15	0.13
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG13	4	0.13
(3,1273)	1:101:A:VAL:HG12	1:138:A:ILE:HD11	7	0.13
(3,1269)	1:31:A:VAL:HG21	1:50:A:ILE:HD11	1	0.13
(3,1258)	1:30:A:LYS:HA	1:30:A:LYS:HB3	17	0.13
(3,1258)	1:30:A:LYS:HA	1:30:A:LYS:HB3	19	0.13
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	2	0.13
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	10	0.13
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	11	0.13
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	17	0.13
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	18	0.13
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	11	0.13
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	11	0.13
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	11	0.13
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	6	0.13
(3,1176)	1:113:A:GLN:HA	1:113:A:GLN:HG2	6	0.13
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	12	0.13
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	12	0.13
(3,1137)	1:37:A:LYS:HA	1:37:A:LYS:HG2	4	0.13
(3,1132)	1:23:A:ASP:HA	1:24:A:LYS:HA	11	0.13
(3,1131)	1:46:A:VAL:HA	1:47:A:ASN:HB2	6	0.13
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	1	0.13
(3,1083)	1:144:A:LEU:HD11	1:145:A:ARG:H	3	0.13
(3,1083)	1:144:A:LEU:HD12	1:145:A:ARG:H	3	0.13
(3,1083)	1:144:A:LEU:HD13	1:145:A:ARG:H	3	0.13
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	6	0.13
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	13	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	17	0.13
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	20	0.13
(3,1060)	1:18:A:VAL:HA	1:18:A:VAL:HB	3	0.13
(3,1045)	1:15:A:TRP:HD1	1:18:A:VAL:HG11	9	0.13
(3,1014)	1:56:A:THR:HA	1:84:A:ASP:HB2	13	0.13
(3,1010)	1:127:A:ALA:HB2	1:128:A:ASN:HA	1	0.13
(3,997)	1:127:A:ALA:HB3	1:147:A:PRO:HD3	2	0.13
(3,997)	1:124:A:ILE:HA	1:127:A:ALA:HB1	4	0.13
(3,995)	1:109:A:ALA:HB2	1:110:A:ILE:HG22	5	0.13
(3,995)	1:109:A:ALA:HB1	1:110:A:ILE:HG21	20	0.13
(3,994)	1:35:A:LEU:HD22	1:73:A:ALA:HB2	6	0.13
(3,994)	1:35:A:LEU:HD21	1:73:A:ALA:HB2	7	0.13
(3,955)	1:14:A:LEU:HD11	1:34:A:HIS:HB3	20	0.13
(3,955)	1:14:A:LEU:HD12	1:34:A:HIS:HB3	20	0.13
(3,955)	1:14:A:LEU:HD13	1:34:A:HIS:HB3	20	0.13
(3,938)	1:99:A:TYR:HD1	1:144:A:LEU:HD22	7	0.13
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB3	2	0.13
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB2	2	0.13
(3,919)	1:121:A:TYR:HD2	1:122:A:ASN:HA	13	0.13
(3,919)	1:122:A:ASN:HA	1:125:A:PHE:HD1	16	0.13
(3,913)	1:88:A:LYS:HB3	1:88:A:LYS:HG2	2	0.13
(3,913)	1:88:A:LYS:HB3	1:88:A:LYS:HG2	17	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD11	6	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD12	6	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD13	6	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD21	6	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD22	6	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD23	6	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD11	9	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD12	9	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD13	9	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD21	9	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD22	9	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD23	9	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD11	10	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD12	10	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD13	10	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD21	10	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD22	10	0.13
(3,909)	1:62:A:LEU:HA	1:62:A:LEU:HD23	10	0.13
(3,901)	1:21:A:GLN:HA	1:21:A:GLN:HG3	14	0.13
(3,901)	1:21:A:GLN:HA	1:21:A:GLN:HG2	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,900)	1:149:A:GLU:HA	1:149:A:GLU:HB2	6	0.13
(3,886)	1:12:A:GLU:HG3	1:13:A:LYS:H	17	0.13
(3,886)	1:12:A:GLU:HG2	1:13:A:LYS:H	17	0.13
(3,881)	1:12:A:GLU:HG2	1:34:A:HIS:HE1	6	0.13
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD21	9	0.13
(3,878)	1:12:A:GLU:HB2	1:14:A:LEU:HD22	10	0.13
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	18	0.13
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	18	0.13
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	20	0.13
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	20	0.13
(3,846)	1:10:A:ALA:HB1	1:141:A:GLY:H	10	0.13
(3,846)	1:10:A:ALA:HB2	1:141:A:GLY:H	10	0.13
(3,846)	1:10:A:ALA:HB3	1:141:A:GLY:H	10	0.13
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB1	8	0.13
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB2	8	0.13
(3,832)	1:7:A:VAL:HB	1:10:A:ALA:HB3	8	0.13
(3,798)	1:117:A:ASN:HB2	1:120:A:LEU:HG	2	0.13
(3,781)	1:62:A:LEU:H	1:62:A:LEU:HG	14	0.13
(3,763)	1:8:A:LYS:HA	1:81:A:ALA:HB1	14	0.13
(3,763)	1:8:A:LYS:HA	1:81:A:ALA:HB3	16	0.13
(3,731)	1:38:A:THR:HG21	1:131:A:MET:HA	9	0.13
(3,722)	1:63:A:SER:HB2	1:93:A:ALA:HB2	20	0.13
(3,669)	1:28:A:ALA:HA	1:31:A:VAL:HG23	3	0.13
(3,669)	1:28:A:ALA:HA	1:31:A:VAL:HG22	14	0.13
(3,662)	1:123:A:LYS:HA	1:123:A:LYS:HE3	15	0.13
(3,657)	1:125:A:PHE:HE1	1:129:A:LYS:HE2	12	0.13
(3,656)	1:105:A:ASP:HB2	1:106:A:THR:H	20	0.13
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	1	0.13
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	6	0.13
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	16	0.13
(3,637)	1:6:A:PHE:HE1	1:83:A:VAL:HG23	1	0.13
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	1	0.13
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	1	0.13
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	1	0.13
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	1	0.13
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	1	0.13
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	1	0.13
(3,606)	1:102:A:LYS:HA	1:102:A:LYS:HG2	9	0.13
(3,587)	1:42:A:ASP:HA	1:45:A:LYS:HE2	3	0.13
(3,547)	1:29:A:LYS:HB3	1:29:A:LYS:HG2	7	0.13
(3,547)	1:37:A:LYS:HB2	1:37:A:LYS:HG3	12	0.13
(3,545)	1:74:A:VAL:HA	1:74:A:VAL:HG13	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,541)	1:74:A:VAL:HB	1:74:A:VAL:HG11	15	0.13
(3,541)	1:107:A:LEU:HD22	1:107:A:LEU:HG	19	0.13
(3,496)	1:139:A:TYR:HE2	1:142:A:GLN:H	14	0.13
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	3	0.13
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	3	0.13
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	3	0.13
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG11	3	0.13
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG12	3	0.13
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG13	3	0.13
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	16	0.13
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	16	0.13
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	16	0.13
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG11	16	0.13
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG12	16	0.13
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG13	16	0.13
(3,440)	1:99:A:TYR:HE2	1:100:A:THR:H	11	0.13
(3,431)	1:99:A:TYR:HD1	1:144:A:LEU:HD21	2	0.13
(3,425)	1:28:A:ALA:HA	1:50:A:ILE:HD11	1	0.13
(3,416)	1:72:A:VAL:HG23	1:131:A:MET:HE3	9	0.13
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	13	0.13
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	19	0.13
(3,313)	1:45:A:LYS:HA	1:45:A:LYS:HG2	2	0.13
(3,313)	1:45:A:LYS:HA	1:45:A:LYS:HG2	18	0.13
(3,306)	1:106:A:THR:H	1:106:A:THR:HG22	9	0.13
(3,292)	1:92:A:PRO:HB3	1:92:A:PRO:HD3	9	0.13
(3,265)	1:54:A:LYS:H	1:54:A:LYS:HG2	18	0.13
(3,254)	1:37:A:LYS:H	1:37:A:LYS:HD3	18	0.13
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE3	1	0.13
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE2	1	0.13
(3,219)	1:150:A:LEU:H	1:150:A:LEU:HB3	19	0.13
(3,209)	1:101:A:VAL:H	1:101:A:VAL:HB	17	0.13
(3,183)	1:91:A:THR:HB	1:92:A:PRO:HD3	9	0.13
(3,155)	1:49:A:GLN:H	1:49:A:GLN:HG3	3	0.13
(3,148)	1:124:A:ILE:H	1:124:A:ILE:HG12	14	0.13
(3,140)	1:107:A:LEU:HD11	1:125:A:PHE:H	3	0.13
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD21	9	0.13
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD22	9	0.13
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD23	9	0.13
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD21	18	0.13
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD22	18	0.13
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD23	18	0.13
(3,131)	1:121:A:TYR:HE2	1:135:A:PRO:HG3	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD23	4	0.13
(3,103)	1:71:A:LEU:H	1:71:A:LEU:HD22	13	0.13
(3,99)	1:70:A:ILE:H	1:70:A:ILE:HG12	19	0.13
(3,98)	1:70:A:ILE:H	1:70:A:ILE:HG13	20	0.13
(3,84)	1:65:A:GLU:H	1:65:A:GLU:HA	6	0.13
(3,84)	1:65:A:GLU:H	1:65:A:GLU:HA	10	0.13
(3,84)	1:32:A:GLN:H	1:32:A:GLN:HA	20	0.13
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD11	1	0.13
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD12	1	0.13
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD13	1	0.13
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD11	11	0.13
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD12	11	0.13
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD13	11	0.13
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD11	19	0.13
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD12	19	0.13
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD13	19	0.13
(3,64)	1:48:A:ILE:H	1:48:A:ILE:HG12	5	0.13
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD13	19	0.13
(3,14)	1:144:A:LEU:HB2	1:145:A:ARG:H	12	0.13
(3,14)	1:144:A:LEU:HB2	1:145:A:ARG:H	14	0.13
(1,2573)	1:17:A:ALA:HA	1:18:A:VAL:H	6	0.13
(1,2564)	1:18:A:VAL:HB	1:19:A:THR:H	4	0.13
(1,2544)	1:123:A:LYS:HA	1:127:A:ALA:H	10	0.13
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	9	0.13
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	13	0.13
(1,2245)	1:151:A:GLU:H	1:151:A:GLU:HG3	18	0.13
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	16	0.13
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	19	0.13
(1,2168)	1:64:A:GLN:HB3	1:64:A:GLN:HE21	9	0.13
(1,2168)	1:64:A:GLN:HB3	1:64:A:GLN:HE21	11	0.13
(1,2168)	1:64:A:GLN:HB3	1:64:A:GLN:HE21	15	0.13
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB3	19	0.13
(1,2164)	1:151:A:GLU:H	1:151:A:GLU:HB2	19	0.13
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	1	0.13
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	13	0.13
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	10	0.13
(1,1846)	1:105:A:ASP:HB2	1:106:A:THR:H	11	0.13
(1,1833)	1:32:A:GLN:HE21	1:43:A:ALA:HB3	14	0.13
(1,1788)	1:112:A:LYS:HG3	1:115:A:TYR:H	16	0.13
(1,1738)	1:94:A:THR:HB	1:95:A:ALA:H	10	0.13
(1,1710)	1:80:A:ILE:H	1:80:A:ILE:HG13	4	0.13
(1,1708)	1:9:A:ASP:HA	1:79:A:GLY:H	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1633)	1:117:A:ASN:HD21	1:119:A:ASN:HB3	13	0.13
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	2	0.13
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	4	0.13
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	11	0.13
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	18	0.13
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	19	0.13
(1,1542)	1:119:A:ASN:H	1:119:A:ASN:HD22	17	0.13
(1,1529)	1:33:A:GLU:HA	1:36:A:ASN:HD22	7	0.13
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	9	0.13
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	9	0.13
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	9	0.13
(1,1480)	1:6:A:PHE:HE1	1:143:A:VAL:H	3	0.13
(1,1480)	1:6:A:PHE:HE2	1:143:A:VAL:H	3	0.13
(1,1412)	1:137:A:LYS:H	1:138:A:ILE:HG12	12	0.13
(1,1411)	1:137:A:LYS:H	1:137:A:LYS:HD2	19	0.13
(1,1411)	1:137:A:LYS:H	1:137:A:LYS:HD2	20	0.13
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	5	0.13
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	20	0.13
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	8	0.13
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	8	0.13
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	8	0.13
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	12	0.13
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	12	0.13
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	12	0.13
(1,1359)	1:129:A:LYS:HD3	1:131:A:MET:H	6	0.13
(1,1358)	1:130:A:PRO:HG3	1:131:A:MET:H	14	0.13
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE1	3	0.13
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE2	3	0.13
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE3	3	0.13
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE1	12	0.13
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE2	12	0.13
(1,1354)	1:131:A:MET:H	1:131:A:MET:HE3	12	0.13
(1,1341)	1:129:A:LYS:H	1:130:A:PRO:HA	19	0.13
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	9	0.13
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG22	10	0.13
(1,1244)	1:120:A:LEU:HD11	1:123:A:LYS:H	9	0.13
(1,1244)	1:120:A:LEU:HD12	1:123:A:LYS:H	9	0.13
(1,1244)	1:120:A:LEU:HD13	1:123:A:LYS:H	9	0.13
(1,1244)	1:120:A:LEU:HD21	1:123:A:LYS:H	9	0.13
(1,1244)	1:120:A:LEU:HD22	1:123:A:LYS:H	9	0.13
(1,1244)	1:120:A:LEU:HD23	1:123:A:LYS:H	9	0.13
(1,1244)	1:120:A:LEU:HD11	1:123:A:LYS:H	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1244)	1:120:A:LEU:HD12	1:123:A:LYS:H	19	0.13
(1,1244)	1:120:A:LEU:HD13	1:123:A:LYS:H	19	0.13
(1,1244)	1:120:A:LEU:HD21	1:123:A:LYS:H	19	0.13
(1,1244)	1:120:A:LEU:HD22	1:123:A:LYS:H	19	0.13
(1,1244)	1:120:A:LEU:HD23	1:123:A:LYS:H	19	0.13
(1,1239)	1:111:A:SER:H	1:121:A:TYR:H	4	0.13
(1,1217)	1:120:A:LEU:H	1:123:A:LYS:HG3	19	0.13
(1,1214)	1:112:A:LYS:HB3	1:120:A:LEU:H	9	0.13
(1,1214)	1:112:A:LYS:HB3	1:120:A:LEU:H	19	0.13
(1,1194)	1:112:A:LYS:HB3	1:117:A:ASN:H	5	0.13
(1,1149)	1:114:A:VAL:H	1:117:A:ASN:H	20	0.13
(1,1136)	1:110:A:ILE:HG22	1:113:A:GLN:H	20	0.13
(1,1118)	1:99:A:TYR:HE1	1:111:A:SER:H	3	0.13
(1,1118)	1:99:A:TYR:HE1	1:111:A:SER:H	10	0.13
(1,1103)	1:111:A:SER:H	1:124:A:ILE:HG13	11	0.13
(1,1064)	1:105:A:ASP:H	1:140:A:PRO:HG3	2	0.13
(1,1044)	1:99:A:TYR:HE1	1:102:A:LYS:H	12	0.13
(1,1044)	1:99:A:TYR:HE2	1:102:A:LYS:H	12	0.13
(1,942)	1:71:A:LEU:HD21	1:85:A:ASP:H	6	0.13
(1,912)	1:54:A:LYS:HB3	1:82:A:SER:H	6	0.13
(1,885)	1:8:A:LYS:HG3	1:80:A:ILE:H	8	0.13
(1,842)	1:77:A:ILE:H	1:143:A:VAL:HB	2	0.13
(1,804)	1:35:A:LEU:HD22	1:74:A:VAL:H	20	0.13
(1,775)	1:72:A:VAL:H	1:131:A:MET:HE3	6	0.13
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB2	12	0.13
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB1	13	0.13
(1,733)	1:70:A:ILE:H	1:74:A:VAL:HG12	13	0.13
(1,705)	1:68:A:GLU:H	1:69:A:LYS:HB3	12	0.13
(1,691)	1:67:A:LYS:H	1:67:A:LYS:HE3	5	0.13
(1,691)	1:67:A:LYS:H	1:67:A:LYS:HE2	5	0.13
(1,671)	1:62:A:LEU:HD13	1:66:A:ALA:H	12	0.13
(1,649)	1:62:A:LEU:H	1:90:A:ALA:HA	2	0.13
(1,649)	1:59:A:GLY:HA3	1:62:A:LEU:H	9	0.13
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG21	11	0.13
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG22	11	0.13
(1,569)	1:56:A:THR:H	1:74:A:VAL:HG23	11	0.13
(1,561)	1:51:A:ALA:HB1	1:56:A:THR:H	14	0.13
(1,560)	1:48:A:ILE:HB	1:56:A:THR:H	9	0.13
(1,541)	1:54:A:LYS:H	1:80:A:ILE:HD11	7	0.13
(1,537)	1:54:A:LYS:H	1:54:A:LYS:HB3	6	0.13
(1,509)	1:50:A:ILE:H	1:50:A:ILE:HD13	12	0.13
(1,506)	1:49:A:GLN:H	1:56:A:THR:HG22	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,488)	1:48:A:ILE:H	1:48:A:ILE:HG12	18	0.13
(1,455)	1:45:A:LYS:H	1:45:A:LYS:HD3	9	0.13
(1,435)	1:44:A:ASP:H	1:45:A:LYS:HD2	18	0.13
(1,431)	1:44:A:ASP:H	1:45:A:LYS:HD3	15	0.13
(1,416)	1:40:A:ILE:H	1:130:A:PRO:HG3	5	0.13
(1,404)	1:37:A:LYS:HB3	1:39:A:GLY:H	20	0.13
(1,371)	1:36:A:ASN:H	1:40:A:ILE:HB	2	0.13
(1,371)	1:36:A:ASN:H	1:40:A:ILE:HB	18	0.13
(1,297)	1:31:A:VAL:HG13	1:32:A:GLN:H	20	0.13
(1,294)	1:31:A:VAL:HG23	1:32:A:GLN:H	13	0.13
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB2	8	0.13
(1,246)	1:29:A:LYS:H	1:29:A:LYS:HD2	18	0.13
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB3	4	0.13
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB2	9	0.13
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	1	0.13
(1,178)	1:14:A:LEU:H	1:15:A:TRP:HE3	12	0.13
(1,178)	1:14:A:LEU:H	1:15:A:TRP:HE3	13	0.13
(1,165)	1:14:A:LEU:H	1:14:A:LEU:HG	10	0.13
(1,142)	1:12:A:GLU:H	1:77:A:ILE:HB	9	0.13
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	10	0.13
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	10	0.13
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	11	0.13
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	11	0.13
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG3	19	0.13
(1,140)	1:12:A:GLU:H	1:12:A:GLU:HG2	19	0.13
(1,121)	1:7:A:VAL:HG11	1:10:A:ALA:H	2	0.13
(1,121)	1:7:A:VAL:HG12	1:10:A:ALA:H	2	0.13
(1,121)	1:7:A:VAL:HG13	1:10:A:ALA:H	2	0.13
(1,109)	1:9:A:ASP:H	1:81:A:ALA:HB1	19	0.13
(1,74)	1:3:A:LEU:HD11	1:4:A:PHE:H	16	0.13
(1,74)	1:3:A:LEU:HD12	1:4:A:PHE:H	16	0.13
(1,74)	1:3:A:LEU:HD13	1:4:A:PHE:H	16	0.13
(1,74)	1:3:A:LEU:HD21	1:4:A:PHE:H	16	0.13
(1,74)	1:3:A:LEU:HD22	1:4:A:PHE:H	16	0.13
(1,74)	1:3:A:LEU:HD23	1:4:A:PHE:H	16	0.13
(1,67)	1:4:A:PHE:H	1:82:A:SER:HB2	13	0.13
(1,14)	1:15:A:TRP:HE1	1:50:A:ILE:HG13	7	0.13
(1,7)	1:15:A:TRP:HE1	1:18:A:VAL:HG22	3	0.13
(1,5)	1:15:A:TRP:HE1	1:17:A:ALA:HB1	5	0.13
(1,5)	1:15:A:TRP:HE1	1:17:A:ALA:HB2	5	0.13
(1,5)	1:15:A:TRP:HE1	1:17:A:ALA:HB3	5	0.13
(3,2954)	1:54:A:LYS:HA	1:54:A:LYS:HD3	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2954)	1:54:A:LYS:HA	1:54:A:LYS:HD2	13	0.12
(3,2948)	1:131:A:MET:HE1	1:142:A:GLN:HE21	3	0.12
(3,2948)	1:131:A:MET:HE2	1:142:A:GLN:HE21	3	0.12
(3,2948)	1:131:A:MET:HE3	1:142:A:GLN:HE21	3	0.12
(3,2939)	1:22:A:HIS:HB3	1:22:A:HIS:HD2	15	0.12
(3,2939)	1:22:A:HIS:HB2	1:22:A:HIS:HD2	15	0.12
(3,2893)	1:96:A:SER:H	1:96:A:SER:HB2	13	0.12
(3,2890)	1:65:A:GLU:HA	1:65:A:GLU:HG2	10	0.12
(3,2889)	1:96:A:SER:HB2	1:97:A:GLN:H	5	0.12
(3,2889)	1:96:A:SER:HB2	1:97:A:GLN:H	20	0.12
(3,2887)	1:100:A:THR:HB	1:101:A:VAL:H	17	0.12
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	3	0.12
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	5	0.12
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	9	0.12
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	12	0.12
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	13	0.12
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	15	0.12
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	17	0.12
(3,2778)	1:22:A:HIS:HA	1:23:A:ASP:H	18	0.12
(3,2697)	1:151:A:GLU:HA	1:151:A:GLU:HG2	8	0.12
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD1	2	0.12
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD2	2	0.12
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD1	4	0.12
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD2	4	0.12
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD1	17	0.12
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD2	17	0.12
(3,2603)	1:60:A:ASP:H	1:60:A:ASP:HB3	17	0.12
(3,2603)	1:60:A:ASP:H	1:60:A:ASP:HB2	17	0.12
(3,2603)	1:60:A:ASP:H	1:60:A:ASP:HB3	19	0.12
(3,2603)	1:60:A:ASP:H	1:60:A:ASP:HB2	19	0.12
(3,2532)	1:54:A:LYS:HA	1:54:A:LYS:HG2	15	0.12
(3,2516)	1:110:A:ILE:HD11	1:111:A:SER:H	8	0.12
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	16	0.12
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	16	0.12
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	16	0.12
(3,2495)	1:125:A:PHE:HD1	1:126:A:GLU:HA	11	0.12
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	4	0.12
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	3	0.12
(3,2477)	1:134:A:SER:HB3	1:136:A:ASP:H	1	0.12
(3,2465)	1:110:A:ILE:HD12	1:144:A:LEU:H	6	0.12
(3,2458)	1:125:A:PHE:HD1	1:129:A:LYS:HD3	10	0.12
(3,2458)	1:125:A:PHE:HD2	1:129:A:LYS:HD3	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	19	0.12
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	19	0.12
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	19	0.12
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE3	9	0.12
(3,2432)	1:8:A:LYS:HA	1:8:A:LYS:HE2	9	0.12
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG21	10	0.12
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG22	10	0.12
(3,2401)	1:98:A:PHE:HD1	1:143:A:VAL:HG23	10	0.12
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG21	10	0.12
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG22	10	0.12
(3,2401)	1:98:A:PHE:HD2	1:143:A:VAL:HG23	10	0.12
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG11	1	0.12
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG12	1	0.12
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG13	1	0.12
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG21	1	0.12
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG22	1	0.12
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG23	1	0.12
(3,2352)	1:38:A:THR:HG21	1:40:A:ILE:HD12	12	0.12
(3,2346)	1:85:A:ASP:HA	1:87:A:VAL:HG13	7	0.12
(3,2344)	1:98:A:PHE:HE2	1:143:A:VAL:HG13	11	0.12
(3,2343)	1:69:A:LYS:H	1:69:A:LYS:HD3	7	0.12
(3,2341)	1:115:A:TYR:HE1	1:149:A:GLU:HG2	7	0.12
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD13	20	0.12
(3,2331)	1:32:A:GLN:H	1:33:A:GLU:HG3	5	0.12
(3,2321)	1:40:A:ILE:HD12	1:131:A:MET:HG2	4	0.12
(3,2306)	1:132:A:LEU:HD12	1:144:A:LEU:HD21	11	0.12
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD21	3	0.12
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD22	3	0.12
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD23	3	0.12
(3,2289)	1:71:A:LEU:HB3	1:71:A:LEU:HD21	18	0.12
(3,2289)	1:71:A:LEU:HB3	1:71:A:LEU:HD22	20	0.12
(3,2288)	1:12:A:GLU:HA	1:14:A:LEU:HD22	10	0.12
(3,2278)	1:11:A:GLY:HA2	1:139:A:TYR:HD2	3	0.12
(3,2264)	1:44:A:ASP:H	1:70:A:ILE:HD12	15	0.12
(3,2262)	1:9:A:ASP:HA	1:78:A:SER:HA	8	0.12
(3,2262)	1:9:A:ASP:HA	1:78:A:SER:HA	13	0.12
(3,2249)	1:135:A:PRO:HG2	1:136:A:ASP:H	7	0.12
(3,2248)	1:125:A:PHE:HA	1:135:A:PRO:HA	11	0.12
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	5	0.12
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	10	0.12
(3,2232)	1:21:A:GLN:HB2	1:27:A:GLN:HE21	3	0.12
(3,2218)	1:14:A:LEU:HB3	1:34:A:HIS:HB2	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	16	0.12
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG21	4	0.12
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG22	4	0.12
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG23	4	0.12
(3,2202)	1:129:A:LYS:HB3	1:130:A:PRO:HA	10	0.12
(3,2188)	1:105:A:ASP:HA	1:109:A:ALA:HB2	2	0.12
(3,2188)	1:105:A:ASP:HA	1:109:A:ALA:HB2	5	0.12
(3,2180)	1:109:A:ALA:HA	1:112:A:LYS:HD3	4	0.12
(3,2177)	1:54:A:LYS:HD2	1:84:A:ASP:H	4	0.12
(3,2168)	1:124:A:ILE:HG21	1:128:A:ASN:HB2	4	0.12
(3,2125)	1:60:A:ASP:HA	1:61:A:GLY:HA2	1	0.12
(3,2096)	1:105:A:ASP:HA	1:110:A:ILE:HG23	5	0.12
(3,2095)	1:107:A:LEU:HA	1:110:A:ILE:HG21	7	0.12
(3,2095)	1:107:A:LEU:HA	1:110:A:ILE:HG22	7	0.12
(3,2095)	1:107:A:LEU:HA	1:110:A:ILE:HG23	7	0.12
(3,2093)	1:101:A:VAL:HA	1:144:A:LEU:HD21	2	0.12
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE3	2	0.12
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE2	2	0.12
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE3	7	0.12
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE2	7	0.12
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	5	0.12
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	14	0.12
(3,2042)	1:35:A:LEU:HD13	1:35:A:LEU:HG	11	0.12
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG23	14	0.12
(3,2037)	1:101:A:VAL:HG11	1:105:A:ASP:HB3	17	0.12
(3,2037)	1:101:A:VAL:HG12	1:105:A:ASP:HB3	17	0.12
(3,2037)	1:101:A:VAL:HG13	1:105:A:ASP:HB3	17	0.12
(3,2031)	1:76:A:ASN:HD22	1:143:A:VAL:HG13	2	0.12
(3,2015)	1:98:A:PHE:HB2	1:99:A:TYR:H	13	0.12
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB1	11	0.12
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB2	11	0.12
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB3	11	0.12
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB1	16	0.12
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB2	16	0.12
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB3	16	0.12
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB1	18	0.12
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB2	18	0.12
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB3	18	0.12
(3,2000)	1:62:A:LEU:H	1:89:A:THR:HG21	1	0.12
(3,2000)	1:62:A:LEU:H	1:89:A:THR:HG22	1	0.12
(3,2000)	1:62:A:LEU:H	1:89:A:THR:HG23	1	0.12
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	11	0.12
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	14	0.12
(3,1994)	1:112:A:LYS:HB2	1:113:A:GLN:H	16	0.12
(3,1992)	1:41:A:PRO:HG2	1:69:A:LYS:HE3	1	0.12
(3,1992)	1:123:A:LYS:HE3	1:147:A:PRO:HG2	15	0.12
(3,1982)	1:138:A:ILE:HG21	1:144:A:LEU:HD11	3	0.12
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	1	0.12
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	2	0.12
(3,1961)	1:112:A:LYS:HB3	1:118:A:ALA:HA	14	0.12
(3,1930)	1:71:A:LEU:H	1:71:A:LEU:HG	1	0.12
(3,1930)	1:71:A:LEU:H	1:71:A:LEU:HG	15	0.12
(3,1914)	1:14:A:LEU:HB3	1:77:A:ILE:HD13	13	0.12
(3,1888)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	8	0.12
(3,1888)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	8	0.12
(3,1888)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	8	0.12
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	19	0.12
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	19	0.12
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	19	0.12
(3,1882)	1:63:A:SER:HB3	1:64:A:GLN:HB3	13	0.12
(3,1872)	1:137:A:LYS:H	1:138:A:ILE:HG23	15	0.12
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD13	1	0.12
(3,1803)	1:6:A:PHE:HZ	1:72:A:VAL:HA	8	0.12
(3,1790)	1:82:A:SER:HA	1:83:A:VAL:HG22	2	0.12
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	1	0.12
(3,1766)	1:47:A:ASN:HB2	1:59:A:GLY:HA2	17	0.12
(3,1762)	1:111:A:SER:HB3	1:121:A:TYR:HA	4	0.12
(3,1741)	1:67:A:LYS:HE3	1:89:A:THR:HG21	10	0.12
(3,1741)	1:67:A:LYS:HE3	1:89:A:THR:HG22	10	0.12
(3,1741)	1:67:A:LYS:HE3	1:89:A:THR:HG23	10	0.12
(3,1741)	1:67:A:LYS:HE2	1:89:A:THR:HG21	10	0.12
(3,1741)	1:67:A:LYS:HE2	1:89:A:THR:HG22	10	0.12
(3,1741)	1:67:A:LYS:HE2	1:89:A:THR:HG23	10	0.12
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	10	0.12
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	15	0.12
(3,1692)	1:50:A:ILE:HG21	1:56:A:THR:H	16	0.12
(3,1682)	1:86:A:GLN:HA	1:86:A:GLN:HG3	14	0.12
(3,1676)	1:50:A:ILE:HG22	1:51:A:ALA:HA	13	0.12
(3,1671)	1:111:A:SER:HB2	1:124:A:ILE:HD13	14	0.12
(3,1658)	1:124:A:ILE:HD13	1:124:A:ILE:HG12	1	0.12
(3,1658)	1:124:A:ILE:HD12	1:124:A:ILE:HG12	3	0.12
(3,1658)	1:124:A:ILE:HD13	1:124:A:ILE:HG12	6	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	5	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	5	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	5	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	5	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	5	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	11	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	11	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	11	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	11	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	11	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	11	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	15	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	15	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	15	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	15	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	15	0.12
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	15	0.12
(3,1605)	1:127:A:ALA:HB1	1:145:A:ARG:H	13	0.12
(3,1605)	1:127:A:ALA:HB2	1:145:A:ARG:H	13	0.12
(3,1605)	1:127:A:ALA:HB3	1:145:A:ARG:H	13	0.12
(3,1576)	1:40:A:ILE:HG21	1:41:A:PRO:HD3	9	0.12
(3,1576)	1:40:A:ILE:HG22	1:41:A:PRO:HD3	9	0.12
(3,1576)	1:40:A:ILE:HG23	1:41:A:PRO:HD3	9	0.12
(3,1556)	1:48:A:ILE:HG22	1:55:A:ALA:HB2	10	0.12
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD11	3	0.12
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD12	3	0.12
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD13	3	0.12
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD11	9	0.12
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD12	9	0.12
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD13	9	0.12
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD11	18	0.12
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD12	18	0.12
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD13	18	0.12
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	6	0.12
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	6	0.12
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	6	0.12
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	14	0.12
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	14	0.12
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	14	0.12
(3,1492)	1:99:A:TYR:HD1	1:146:A:ILE:HD12	1	0.12
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG23	6	0.12
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG23	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG21	12	0.12
(3,1482)	1:106:A:THR:HB	1:106:A:THR:HG23	16	0.12
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG21	4	0.12
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG22	4	0.12
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG23	4	0.12
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG21	4	0.12
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG22	4	0.12
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG23	4	0.12
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG21	15	0.12
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG22	15	0.12
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG23	15	0.12
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG21	15	0.12
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG22	15	0.12
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG23	15	0.12
(3,1471)	1:123:A:LYS:HA	1:126:A:GLU:HG3	10	0.12
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	1	0.12
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	17	0.12
(3,1461)	1:30:A:LYS:HA	1:33:A:GLU:H	3	0.12
(3,1432)	1:107:A:LEU:HA	1:110:A:ILE:H	19	0.12
(3,1403)	1:33:A:GLU:HA	1:33:A:GLU:HG3	12	0.12
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	16	0.12
(3,1367)	1:110:A:ILE:HA	1:113:A:GLN:HG3	20	0.12
(3,1363)	1:97:A:GLN:HA	1:97:A:GLN:HG2	8	0.12
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	6	0.12
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	9	0.12
(3,1324)	1:6:A:PHE:HE1	1:83:A:VAL:HG23	14	0.12
(3,1311)	1:72:A:VAL:HG11	1:145:A:ARG:HB2	9	0.12
(3,1307)	1:57:A:VAL:HB	1:83:A:VAL:HG12	2	0.12
(3,1305)	1:31:A:VAL:HG21	1:77:A:ILE:HG12	1	0.12
(3,1305)	1:31:A:VAL:HG22	1:77:A:ILE:HG12	1	0.12
(3,1305)	1:31:A:VAL:HG23	1:77:A:ILE:HG12	1	0.12
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG11	17	0.12
(3,1297)	1:57:A:VAL:HB	1:87:A:VAL:HG13	19	0.12
(3,1296)	1:46:A:VAL:HB	1:46:A:VAL:HG21	11	0.12
(3,1269)	1:31:A:VAL:HG22	1:50:A:ILE:HD12	12	0.12
(3,1246)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	15	0.12
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	3	0.12
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	5	0.12
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	6	0.12
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	9	0.12
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	13	0.12
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	14	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	15	0.12
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	20	0.12
(3,1230)	1:28:A:ALA:HB1	1:50:A:ILE:HG13	10	0.12
(3,1230)	1:28:A:ALA:HB2	1:50:A:ILE:HG13	17	0.12
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG21	12	0.12
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG22	12	0.12
(3,1225)	1:75:A:GLY:HA3	1:80:A:ILE:HG23	12	0.12
(3,1155)	1:24:A:LYS:HA	1:27:A:GLN:H	13	0.12
(3,1155)	1:24:A:LYS:HA	1:27:A:GLN:H	18	0.12
(3,1137)	1:37:A:LYS:HA	1:37:A:LYS:HG2	9	0.12
(3,1137)	1:37:A:LYS:HA	1:37:A:LYS:HG2	12	0.12
(3,1132)	1:23:A:ASP:HA	1:24:A:LYS:HA	9	0.12
(3,1109)	1:149:A:GLU:HA	1:149:A:GLU:HB3	18	0.12
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	1	0.12
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	1	0.12
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	1	0.12
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	5	0.12
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	5	0.12
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	5	0.12
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	8	0.12
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	8	0.12
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	8	0.12
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	13	0.12
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	1	0.12
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	7	0.12
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	8	0.12
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	10	0.12
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	11	0.12
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	12	0.12
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	14	0.12
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	16	0.12
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	18	0.12
(3,1060)	1:18:A:VAL:HA	1:18:A:VAL:HB	7	0.12
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	13	0.12
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	14	0.12
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	17	0.12
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	17	0.12
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	17	0.12
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	17	0.12
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG11	7	0.12
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG12	7	0.12
(3,1022)	1:113:A:GLN:HB3	1:114:A:VAL:HG13	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG11	7	0.12
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG12	7	0.12
(3,1022)	1:113:A:GLN:HB2	1:114:A:VAL:HG13	7	0.12
(3,1014)	1:56:A:THR:HA	1:84:A:ASP:HB2	1	0.12
(3,1014)	1:56:A:THR:HA	1:84:A:ASP:HB2	12	0.12
(3,995)	1:109:A:ALA:HB3	1:110:A:ILE:HG22	17	0.12
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	13	0.12
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD22	13	0.12
(3,961)	1:144:A:LEU:HB3	1:144:A:LEU:HD23	13	0.12
(3,949)	1:107:A:LEU:HD12	1:125:A:PHE:HB2	1	0.12
(3,949)	1:125:A:PHE:HB2	1:132:A:LEU:HD12	12	0.12
(3,913)	1:88:A:LYS:HB3	1:88:A:LYS:HG2	3	0.12
(3,913)	1:88:A:LYS:HB3	1:88:A:LYS:HG2	6	0.12
(3,913)	1:88:A:LYS:HB3	1:88:A:LYS:HG2	12	0.12
(3,847)	1:95:A:ALA:HB1	1:96:A:SER:H	18	0.12
(3,847)	1:95:A:ALA:HB2	1:96:A:SER:H	18	0.12
(3,847)	1:95:A:ALA:HB3	1:96:A:SER:H	18	0.12
(3,842)	1:10:A:ALA:HB1	1:142:A:GLN:H	20	0.12
(3,842)	1:10:A:ALA:HB2	1:142:A:GLN:H	20	0.12
(3,842)	1:10:A:ALA:HB3	1:142:A:GLN:H	20	0.12
(3,841)	1:10:A:ALA:HB1	1:11:A:GLY:H	17	0.12
(3,841)	1:10:A:ALA:HB2	1:11:A:GLY:H	17	0.12
(3,841)	1:10:A:ALA:HB3	1:11:A:GLY:H	17	0.12
(3,830)	1:62:A:LEU:HD13	1:67:A:LYS:HA	18	0.12
(3,826)	1:67:A:LYS:HA	1:67:A:LYS:HB3	15	0.12
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	18	0.12
(3,817)	1:62:A:LEU:HA	1:63:A:SER:H	17	0.12
(3,800)	1:7:A:VAL:HG11	1:9:A:ASP:HB2	2	0.12
(3,800)	1:7:A:VAL:HG12	1:9:A:ASP:HB2	2	0.12
(3,800)	1:7:A:VAL:HG13	1:9:A:ASP:HB2	2	0.12
(3,800)	1:7:A:VAL:HG21	1:9:A:ASP:HB2	2	0.12
(3,800)	1:7:A:VAL:HG22	1:9:A:ASP:HB2	2	0.12
(3,800)	1:7:A:VAL:HG23	1:9:A:ASP:HB2	2	0.12
(3,763)	1:8:A:LYS:HA	1:81:A:ALA:HB1	12	0.12
(3,731)	1:38:A:THR:HG22	1:131:A:MET:HA	4	0.12
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	8	0.12
(3,676)	1:102:A:LYS:HB2	1:105:A:ASP:HB2	9	0.12
(3,674)	1:105:A:ASP:HB2	1:110:A:ILE:HG22	1	0.12
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	3	0.12
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	7	0.12
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	8	0.12
(3,644)	1:45:A:LYS:H	1:45:A:LYS:HA	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,644)	1:36:A:ASN:H	1:36:A:ASN:HA	5	0.12
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	5	0.12
(3,547)	1:29:A:LYS:HB3	1:29:A:LYS:HG2	5	0.12
(3,547)	1:123:A:LYS:HB2	1:123:A:LYS:HG3	8	0.12
(3,541)	1:107:A:LEU:HD22	1:107:A:LEU:HG	11	0.12
(3,496)	1:139:A:TYR:HE2	1:142:A:GLN:H	3	0.12
(3,496)	1:139:A:TYR:HE2	1:142:A:GLN:H	12	0.12
(3,496)	1:139:A:TYR:HE2	1:142:A:GLN:H	16	0.12
(3,484)	1:107:A:LEU:HB3	1:121:A:TYR:HB3	18	0.12
(3,484)	1:107:A:LEU:HB3	1:121:A:TYR:HB2	18	0.12
(3,476)	1:115:A:TYR:HE2	1:121:A:TYR:HA	6	0.12
(3,445)	1:115:A:TYR:HE2	1:146:A:ILE:HG21	20	0.12
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG11	9	0.12
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG12	9	0.12
(3,443)	1:99:A:TYR:HE1	1:101:A:VAL:HG13	9	0.12
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG11	9	0.12
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG12	9	0.12
(3,443)	1:99:A:TYR:HE2	1:101:A:VAL:HG13	9	0.12
(3,417)	1:131:A:MET:HE1	1:132:A:LEU:H	4	0.12
(3,417)	1:131:A:MET:HE3	1:132:A:LEU:H	12	0.12
(3,417)	1:131:A:MET:HE2	1:132:A:LEU:H	18	0.12
(3,416)	1:131:A:MET:HE2	1:144:A:LEU:HD11	13	0.12
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	2	0.12
(3,317)	1:67:A:LYS:HA	1:67:A:LYS:HE2	16	0.12
(3,292)	1:92:A:PRO:HB3	1:92:A:PRO:HD3	4	0.12
(3,263)	1:47:A:ASN:H	1:47:A:ASN:HB3	8	0.12
(3,254)	1:37:A:LYS:H	1:37:A:LYS:HD3	17	0.12
(3,249)	1:62:A:LEU:HD23	1:63:A:SER:H	1	0.12
(3,217)	1:149:A:GLU:H	1:149:A:GLU:HB3	14	0.12
(3,209)	1:101:A:VAL:H	1:101:A:VAL:HB	8	0.12
(3,174)	1:40:A:ILE:HD11	1:130:A:PRO:HD2	3	0.12
(3,174)	1:40:A:ILE:HD12	1:130:A:PRO:HD2	3	0.12
(3,174)	1:40:A:ILE:HD13	1:130:A:PRO:HD2	3	0.12
(3,174)	1:40:A:ILE:HD11	1:130:A:PRO:HD2	20	0.12
(3,174)	1:40:A:ILE:HD12	1:130:A:PRO:HD2	20	0.12
(3,174)	1:40:A:ILE:HD13	1:130:A:PRO:HD2	20	0.12
(3,155)	1:49:A:GLN:H	1:49:A:GLN:HG3	6	0.12
(3,155)	1:113:A:GLN:HG3	1:114:A:VAL:H	15	0.12
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD21	2	0.12
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD22	2	0.12
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD23	2	0.12
(3,99)	1:70:A:ILE:H	1:70:A:ILE:HG12	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,99)	1:70:A:ILE:H	1:70:A:ILE:HG12	5	0.12
(3,98)	1:70:A:ILE:H	1:70:A:ILE:HG13	2	0.12
(3,98)	1:70:A:ILE:H	1:70:A:ILE:HG13	16	0.12
(3,86)	1:65:A:GLU:H	1:65:A:GLU:HG2	12	0.12
(3,84)	1:32:A:GLN:H	1:32:A:GLN:HA	7	0.12
(3,84)	1:32:A:GLN:H	1:32:A:GLN:HA	13	0.12
(3,84)	1:32:A:GLN:H	1:32:A:GLN:HA	17	0.12
(3,76)	1:57:A:VAL:HG23	1:87:A:VAL:H	14	0.12
(3,60)	1:32:A:GLN:H	1:48:A:ILE:HD12	2	0.12
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB1	3	0.12
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB2	3	0.12
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB3	3	0.12
(3,17)	1:119:A:ASN:H	1:119:A:ASN:HB3	15	0.12
(3,14)	1:144:A:LEU:HB2	1:145:A:ARG:H	2	0.12
(1,2544)	1:123:A:LYS:HA	1:127:A:ALA:H	3	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	4	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	5	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	6	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	7	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	8	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	9	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	10	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	11	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	12	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	13	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	15	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	17	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	19	0.12
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	20	0.12
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	17	0.12
(1,2334)	1:59:A:GLY:H	1:88:A:LYS:H	13	0.12
(1,2279)	1:13:A:LYS:H	1:13:A:LYS:HG2	2	0.12
(1,2245)	1:151:A:GLU:H	1:151:A:GLU:HG3	2	0.12
(1,2200)	1:142:A:GLN:H	1:143:A:VAL:H	12	0.12
(1,2168)	1:64:A:GLN:HB3	1:64:A:GLN:HE21	2	0.12
(1,2168)	1:64:A:GLN:HB3	1:64:A:GLN:HE21	16	0.12
(1,2147)	1:90:A:ALA:H	1:91:A:THR:H	14	0.12
(1,2063)	1:131:A:MET:HB2	1:132:A:LEU:H	20	0.12
(1,2044)	1:63:A:SER:H	1:64:A:GLN:H	2	0.12
(1,1979)	1:70:A:ILE:HG13	1:74:A:VAL:H	5	0.12
(1,1979)	1:70:A:ILE:HG13	1:74:A:VAL:H	6	0.12
(1,1941)	1:50:A:ILE:HG21	1:53:A:GLY:H	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1941)	1:50:A:ILE:HG22	1:53:A:GLY:H	12	0.12
(1,1941)	1:50:A:ILE:HG23	1:53:A:GLY:H	12	0.12
(1,1876)	1:96:A:SER:HB3	1:145:A:ARG:HE	15	0.12
(1,1846)	1:105:A:ASP:HB2	1:106:A:THR:H	10	0.12
(1,1833)	1:32:A:GLN:HE21	1:43:A:ALA:HB2	15	0.12
(1,1811)	1:148:A:GLU:H	1:149:A:GLU:HB3	19	0.12
(1,1738)	1:94:A:THR:HB	1:95:A:ALA:H	6	0.12
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	13	0.12
(1,1728)	1:88:A:LYS:HD2	1:90:A:ALA:H	12	0.12
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	18	0.12
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	19	0.12
(1,1710)	1:80:A:ILE:H	1:80:A:ILE:HG13	10	0.12
(1,1710)	1:80:A:ILE:H	1:80:A:ILE:HG13	17	0.12
(1,1679)	1:128:A:ASN:HD21	1:146:A:ILE:HG21	14	0.12
(1,1662)	1:42:A:ASP:H	1:66:A:ALA:HB2	3	0.12
(1,1633)	1:117:A:ASN:HD21	1:119:A:ASN:HB3	20	0.12
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	3	0.12
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	5	0.12
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	9	0.12
(1,1607)	1:113:A:GLN:HE22	1:113:A:GLN:HG2	16	0.12
(1,1568)	1:150:A:LEU:H	1:150:A:LEU:HB3	18	0.12
(1,1561)	1:149:A:GLU:H	1:150:A:LEU:HB3	18	0.12
(1,1518)	1:142:A:GLN:HG2	1:145:A:ARG:H	13	0.12
(1,1493)	1:144:A:LEU:H	1:144:A:LEU:HD21	17	0.12
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG11	15	0.12
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG12	15	0.12
(1,1489)	1:143:A:VAL:H	1:143:A:VAL:HG13	15	0.12
(1,1484)	1:101:A:VAL:HA	1:143:A:VAL:H	2	0.12
(1,1484)	1:101:A:VAL:HA	1:143:A:VAL:H	18	0.12
(1,1482)	1:142:A:GLN:HE22	1:143:A:VAL:H	2	0.12
(1,1480)	1:6:A:PHE:HE1	1:143:A:VAL:H	1	0.12
(1,1480)	1:6:A:PHE:HE2	1:143:A:VAL:H	1	0.12
(1,1480)	1:6:A:PHE:HE1	1:143:A:VAL:H	17	0.12
(1,1480)	1:6:A:PHE:HE2	1:143:A:VAL:H	17	0.12
(1,1477)	1:102:A:LYS:H	1:142:A:GLN:H	12	0.12
(1,1404)	1:135:A:PRO:HD3	1:136:A:ASP:H	10	0.12
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	1	0.12
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	1	0.12
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	1	0.12
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	4	0.12
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	4	0.12
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	14	0.12
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	14	0.12
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	14	0.12
(1,1313)	1:125:A:PHE:HD2	1:128:A:ASN:H	18	0.12
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	2	0.12
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	18	0.12
(1,1300)	1:122:A:ASN:HA	1:127:A:ALA:H	10	0.12
(1,1295)	1:126:A:GLU:HG2	1:127:A:ALA:H	12	0.12
(1,1246)	1:107:A:LEU:HD21	1:123:A:LYS:H	11	0.12
(1,1223)	1:118:A:ALA:HB3	1:121:A:TYR:H	14	0.12
(1,1194)	1:112:A:LYS:HB3	1:117:A:ASN:H	6	0.12
(1,1194)	1:112:A:LYS:HB3	1:117:A:ASN:H	18	0.12
(1,1163)	1:115:A:TYR:H	1:146:A:ILE:HB	19	0.12
(1,1149)	1:114:A:VAL:H	1:117:A:ASN:H	6	0.12
(1,1131)	1:112:A:LYS:HB2	1:113:A:GLN:H	12	0.12
(1,1065)	1:102:A:LYS:HB2	1:105:A:ASP:H	18	0.12
(1,989)	1:89:A:THR:HG21	1:91:A:THR:H	3	0.12
(1,989)	1:89:A:THR:HG22	1:91:A:THR:H	3	0.12
(1,989)	1:89:A:THR:HG23	1:91:A:THR:H	3	0.12
(1,957)	1:67:A:LYS:HE3	1:87:A:VAL:H	1	0.12
(1,957)	1:67:A:LYS:HE2	1:87:A:VAL:H	1	0.12
(1,914)	1:54:A:LYS:HG2	1:82:A:SER:H	8	0.12
(1,914)	1:80:A:ILE:HG12	1:82:A:SER:H	15	0.12
(1,886)	1:80:A:ILE:H	1:80:A:ILE:HD12	1	0.12
(1,886)	1:80:A:ILE:H	1:80:A:ILE:HD13	8	0.12
(1,875)	1:8:A:LYS:HG2	1:79:A:GLY:H	14	0.12
(1,870)	1:9:A:ASP:HB3	1:79:A:GLY:H	18	0.12
(1,850)	1:12:A:GLU:HB2	1:78:A:SER:H	3	0.12
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	11	0.12
(1,843)	1:14:A:LEU:HD11	1:78:A:SER:H	13	0.12
(1,843)	1:14:A:LEU:HD12	1:78:A:SER:H	13	0.12
(1,843)	1:14:A:LEU:HD13	1:78:A:SER:H	13	0.12
(1,804)	1:35:A:LEU:HD22	1:74:A:VAL:H	3	0.12
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB2	15	0.12
(1,768)	1:72:A:VAL:H	1:83:A:VAL:HG12	15	0.12
(1,756)	1:67:A:LYS:HE2	1:71:A:LEU:H	6	0.12
(1,729)	1:69:A:LYS:H	1:69:A:LYS:HG2	10	0.12
(1,697)	1:67:A:LYS:H	1:69:A:LYS:HB3	20	0.12
(1,648)	1:62:A:LEU:H	1:89:A:THR:HB	18	0.12
(1,609)	1:59:A:GLY:H	1:88:A:LYS:HB2	6	0.12
(1,585)	1:46:A:VAL:HG23	1:58:A:THR:H	14	0.12
(1,561)	1:51:A:ALA:HB1	1:56:A:THR:H	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,560)	1:48:A:ILE:HB	1:56:A:THR:H	5	0.12
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG11	20	0.12
(1,545)	1:54:A:LYS:HB3	1:55:A:ALA:H	13	0.12
(1,541)	1:54:A:LYS:H	1:80:A:ILE:HD13	3	0.12
(1,541)	1:54:A:LYS:H	1:80:A:ILE:HD12	20	0.12
(1,488)	1:48:A:ILE:H	1:48:A:ILE:HG12	7	0.12
(1,488)	1:48:A:ILE:H	1:48:A:ILE:HG12	20	0.12
(1,483)	1:46:A:VAL:HG23	1:47:A:ASN:H	19	0.12
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG13	12	0.12
(1,482)	1:47:A:ASN:H	1:74:A:VAL:HG12	20	0.12
(1,460)	1:45:A:LYS:HG2	1:46:A:VAL:H	5	0.12
(1,455)	1:45:A:LYS:H	1:45:A:LYS:HD3	11	0.12
(1,455)	1:45:A:LYS:H	1:45:A:LYS:HD3	15	0.12
(1,454)	1:45:A:LYS:H	1:45:A:LYS:HD2	12	0.12
(1,435)	1:44:A:ASP:H	1:45:A:LYS:HD2	20	0.12
(1,418)	1:40:A:ILE:H	1:40:A:ILE:HG13	8	0.12
(1,418)	1:40:A:ILE:H	1:40:A:ILE:HG13	11	0.12
(1,371)	1:36:A:ASN:H	1:37:A:LYS:HD2	1	0.12
(1,327)	1:34:A:HIS:H	1:34:A:HIS:HD2	17	0.12
(1,306)	1:32:A:GLN:HB2	1:33:A:GLU:H	2	0.12
(1,306)	1:32:A:GLN:HB2	1:33:A:GLU:H	8	0.12
(1,297)	1:31:A:VAL:HG12	1:32:A:GLN:H	17	0.12
(1,294)	1:31:A:VAL:HG22	1:32:A:GLN:H	1	0.12
(1,293)	1:32:A:GLN:H	1:48:A:ILE:HG13	1	0.12
(1,272)	1:27:A:GLN:HB3	1:31:A:VAL:H	8	0.12
(1,271)	1:30:A:LYS:HG3	1:31:A:VAL:H	15	0.12
(1,270)	1:14:A:LEU:HD11	1:30:A:LYS:H	16	0.12
(1,270)	1:14:A:LEU:HD12	1:30:A:LYS:H	16	0.12
(1,270)	1:14:A:LEU:HD13	1:30:A:LYS:H	16	0.12
(1,265)	1:30:A:LYS:H	1:30:A:LYS:HG2	20	0.12
(1,262)	1:30:A:LYS:H	1:32:A:GLN:HB2	19	0.12
(1,259)	1:29:A:LYS:HE3	1:30:A:LYS:H	10	0.12
(1,246)	1:29:A:LYS:H	1:30:A:LYS:HD2	2	0.12
(1,246)	1:29:A:LYS:H	1:30:A:LYS:HD2	9	0.12
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB3	13	0.12
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	4	0.12
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	7	0.12
(1,222)	1:27:A:GLN:H	1:29:A:LYS:HB3	13	0.12
(1,165)	1:14:A:LEU:H	1:14:A:LEU:HG	11	0.12
(1,122)	1:9:A:ASP:HB2	1:10:A:ALA:H	2	0.12
(1,49)	1:82:A:SER:HB2	1:83:A:VAL:H	5	0.12
(1,19)	1:15:A:TRP:HE1	1:79:A:GLY:HA3	16	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2918)	1:58:A:THR:HB	1:59:A:GLY:H	10	0.11
(3,2906)	1:110:A:ILE:HA	1:113:A:GLN:HE22	7	0.11
(3,2888)	1:139:A:TYR:HA	1:140:A:PRO:HG2	15	0.11
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	2	0.11
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	2	0.11
(3,2788)	1:122:A:ASN:HA	1:122:A:ASN:HB2	13	0.11
(3,2788)	1:122:A:ASN:HA	1:122:A:ASN:HB2	15	0.11
(3,2768)	1:131:A:MET:HE1	1:145:A:ARG:H	7	0.11
(3,2768)	1:131:A:MET:HE2	1:145:A:ARG:H	7	0.11
(3,2768)	1:131:A:MET:HE3	1:145:A:ARG:H	7	0.11
(3,2729)	1:126:A:GLU:HG3	1:127:A:ALA:H	4	0.11
(3,2729)	1:126:A:GLU:HG3	1:127:A:ALA:H	8	0.11
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD1	1	0.11
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD2	1	0.11
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD1	6	0.11
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD2	6	0.11
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD1	8	0.11
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD2	8	0.11
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD1	10	0.11
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD2	10	0.11
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD1	20	0.11
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD2	20	0.11
(3,2596)	1:132:A:LEU:HD11	1:142:A:GLN:HE22	18	0.11
(3,2596)	1:132:A:LEU:HD12	1:142:A:GLN:HE22	18	0.11
(3,2596)	1:132:A:LEU:HD13	1:142:A:GLN:HE22	18	0.11
(3,2582)	1:47:A:ASN:HB3	1:58:A:THR:HG21	9	0.11
(3,2582)	1:47:A:ASN:HB3	1:58:A:THR:HG22	9	0.11
(3,2582)	1:47:A:ASN:HB3	1:58:A:THR:HG23	9	0.11
(3,2582)	1:47:A:ASN:HB2	1:58:A:THR:HG21	9	0.11
(3,2582)	1:47:A:ASN:HB2	1:58:A:THR:HG22	9	0.11
(3,2582)	1:47:A:ASN:HB2	1:58:A:THR:HG23	9	0.11
(3,2582)	1:47:A:ASN:HB3	1:58:A:THR:HG21	13	0.11
(3,2582)	1:47:A:ASN:HB3	1:58:A:THR:HG22	13	0.11
(3,2582)	1:47:A:ASN:HB3	1:58:A:THR:HG23	13	0.11
(3,2582)	1:47:A:ASN:HB2	1:58:A:THR:HG21	13	0.11
(3,2582)	1:47:A:ASN:HB2	1:58:A:THR:HG22	13	0.11
(3,2582)	1:47:A:ASN:HB2	1:58:A:THR:HG23	13	0.11
(3,2582)	1:47:A:ASN:HB3	1:58:A:THR:HG21	14	0.11
(3,2582)	1:47:A:ASN:HB3	1:58:A:THR:HG22	14	0.11
(3,2582)	1:47:A:ASN:HB3	1:58:A:THR:HG23	14	0.11
(3,2582)	1:47:A:ASN:HB2	1:58:A:THR:HG21	14	0.11
(3,2582)	1:47:A:ASN:HB2	1:58:A:THR:HG22	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2582)	1:47:A:ASN:HB2	1:58:A:THR:HG23	14	0.11
(3,2560)	1:110:A:ILE:HA	1:113:A:GLN:HG3	1	0.11
(3,2520)	1:114:A:VAL:HG21	1:116:A:GLY:H	7	0.11
(3,2520)	1:114:A:VAL:HG22	1:116:A:GLY:H	7	0.11
(3,2520)	1:114:A:VAL:HG23	1:116:A:GLY:H	7	0.11
(3,2520)	1:114:A:VAL:HG21	1:116:A:GLY:H	11	0.11
(3,2520)	1:114:A:VAL:HG22	1:116:A:GLY:H	11	0.11
(3,2520)	1:114:A:VAL:HG23	1:116:A:GLY:H	11	0.11
(3,2520)	1:114:A:VAL:HG21	1:116:A:GLY:H	17	0.11
(3,2520)	1:114:A:VAL:HG22	1:116:A:GLY:H	17	0.11
(3,2520)	1:114:A:VAL:HG23	1:116:A:GLY:H	17	0.11
(3,2516)	1:110:A:ILE:HD13	1:111:A:SER:H	2	0.11
(3,2509)	1:62:A:LEU:H	1:90:A:ALA:HB1	3	0.11
(3,2509)	1:62:A:LEU:H	1:90:A:ALA:HB2	3	0.11
(3,2509)	1:62:A:LEU:H	1:90:A:ALA:HB3	3	0.11
(3,2509)	1:62:A:LEU:H	1:90:A:ALA:HB1	14	0.11
(3,2509)	1:62:A:LEU:H	1:90:A:ALA:HB2	14	0.11
(3,2509)	1:62:A:LEU:H	1:90:A:ALA:HB3	14	0.11
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB1	4	0.11
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB2	4	0.11
(3,2505)	1:61:A:GLY:HA3	1:90:A:ALA:HB3	4	0.11
(3,2498)	1:56:A:THR:HG21	1:84:A:ASP:H	15	0.11
(3,2498)	1:56:A:THR:HG22	1:84:A:ASP:H	15	0.11
(3,2498)	1:56:A:THR:HG23	1:84:A:ASP:H	15	0.11
(3,2480)	1:123:A:LYS:H	1:123:A:LYS:HE3	20	0.11
(3,2477)	1:134:A:SER:HB3	1:136:A:ASP:H	8	0.11
(3,2463)	1:81:A:ALA:H	1:82:A:SER:HB3	18	0.11
(3,2451)	1:7:A:VAL:HA	1:81:A:ALA:HB3	15	0.11
(3,2450)	1:15:A:TRP:HZ3	1:80:A:ILE:HD11	15	0.11
(3,2450)	1:15:A:TRP:HZ3	1:80:A:ILE:HD12	15	0.11
(3,2450)	1:15:A:TRP:HZ3	1:80:A:ILE:HD13	15	0.11
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD21	15	0.11
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD22	15	0.11
(3,2438)	1:115:A:TYR:HA	1:120:A:LEU:HD23	15	0.11
(3,2407)	1:142:A:GLN:HB2	1:143:A:VAL:H	9	0.11
(3,2407)	1:142:A:GLN:HB2	1:143:A:VAL:H	10	0.11
(3,2404)	1:68:A:GLU:HG3	1:98:A:PHE:HZ	17	0.11
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG11	17	0.11
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG12	17	0.11
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG13	17	0.11
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG21	17	0.11
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG22	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2372)	1:15:A:TRP:HD1	1:18:A:VAL:HG23	17	0.11
(3,2337)	1:148:A:GLU:HG3	1:150:A:LEU:HD12	7	0.11
(3,2321)	1:40:A:ILE:HD13	1:69:A:LYS:HE3	10	0.11
(3,2306)	1:107:A:LEU:HD13	1:144:A:LEU:HD23	5	0.11
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD21	7	0.11
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD22	7	0.11
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD23	7	0.11
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD21	13	0.11
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD22	13	0.11
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD23	13	0.11
(3,2297)	1:144:A:LEU:H	1:144:A:LEU:HD21	18	0.11
(3,2297)	1:144:A:LEU:H	1:144:A:LEU:HD22	18	0.11
(3,2297)	1:144:A:LEU:H	1:144:A:LEU:HD23	18	0.11
(3,2289)	1:71:A:LEU:HB3	1:71:A:LEU:HD21	4	0.11
(3,2267)	1:138:A:ILE:HG21	1:142:A:GLN:HE22	12	0.11
(3,2267)	1:138:A:ILE:HG22	1:142:A:GLN:HE22	12	0.11
(3,2267)	1:138:A:ILE:HG23	1:142:A:GLN:HE22	12	0.11
(3,2262)	1:9:A:ASP:HA	1:78:A:SER:HA	1	0.11
(3,2262)	1:9:A:ASP:HA	1:78:A:SER:HA	18	0.11
(3,2248)	1:125:A:PHE:HA	1:135:A:PRO:HA	12	0.11
(3,2247)	1:134:A:SER:HA	1:135:A:PRO:HG3	3	0.11
(3,2218)	1:14:A:LEU:HB3	1:34:A:HIS:HB2	14	0.11
(3,2218)	1:14:A:LEU:HB3	1:34:A:HIS:HB2	16	0.11
(3,2213)	1:132:A:LEU:H	1:132:A:LEU:HG	10	0.11
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	3	0.11
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	3	0.11
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	3	0.11
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	20	0.11
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	20	0.11
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	20	0.11
(3,2188)	1:105:A:ASP:HA	1:109:A:ALA:HB1	8	0.11
(3,2188)	1:105:A:ASP:HA	1:109:A:ALA:HB3	14	0.11
(3,2177)	1:54:A:LYS:HD2	1:84:A:ASP:H	2	0.11
(3,2173)	1:8:A:LYS:HD3	1:80:A:ILE:HA	8	0.11
(3,2157)	1:72:A:VAL:HA	1:75:A:GLY:H	10	0.11
(3,2138)	1:122:A:ASN:HB3	1:126:A:GLU:H	7	0.11
(3,2138)	1:122:A:ASN:HB2	1:126:A:GLU:H	7	0.11
(3,2123)	1:115:A:TYR:HE2	1:123:A:LYS:HD3	15	0.11
(3,2087)	1:101:A:VAL:HG13	1:110:A:ILE:HG21	6	0.11
(3,2073)	1:107:A:LEU:HB3	1:108:A:SER:HA	11	0.11
(3,2067)	1:57:A:VAL:HG21	1:71:A:LEU:HA	20	0.11
(3,2067)	1:57:A:VAL:HG22	1:71:A:LEU:HA	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2067)	1:57:A:VAL:HG23	1:71:A:LEU:HA	20	0.11
(3,2063)	1:25:A:ASP:HA	1:28:A:ALA:H	9	0.11
(3,2059)	1:51:A:ALA:H	1:54:A:LYS:HG2	16	0.11
(3,2058)	1:134:A:SER:H	1:137:A:LYS:HD3	9	0.11
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE3	8	0.11
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE2	8	0.11
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE3	12	0.11
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE2	12	0.11
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE3	13	0.11
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE2	13	0.11
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE3	15	0.11
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE2	15	0.11
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE3	20	0.11
(3,2056)	1:60:A:ASP:HA	1:88:A:LYS:HE2	20	0.11
(3,2052)	1:102:A:LYS:HB3	1:103:A:SER:HB3	7	0.11
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	13	0.11
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE1	5	0.11
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE2	5	0.11
(3,2043)	1:72:A:VAL:HG21	1:131:A:MET:HE3	5	0.11
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE1	5	0.11
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE2	5	0.11
(3,2043)	1:72:A:VAL:HG22	1:131:A:MET:HE3	5	0.11
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE1	5	0.11
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE2	5	0.11
(3,2043)	1:72:A:VAL:HG23	1:131:A:MET:HE3	5	0.11
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG21	9	0.11
(3,2042)	1:72:A:VAL:HB	1:72:A:VAL:HG23	15	0.11
(3,2031)	1:76:A:ASN:HD22	1:143:A:VAL:HG13	4	0.11
(3,2023)	1:99:A:TYR:HD2	1:113:A:GLN:HG3	9	0.11
(3,2008)	1:96:A:SER:HB3	1:146:A:ILE:HB	3	0.11
(3,1941)	1:6:A:PHE:H	1:82:A:SER:HB2	20	0.11
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD11	13	0.11
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD12	13	0.11
(3,1913)	1:31:A:VAL:HG21	1:77:A:ILE:HD13	13	0.11
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD11	13	0.11
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD12	13	0.11
(3,1913)	1:31:A:VAL:HG22	1:77:A:ILE:HD13	13	0.11
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD11	13	0.11
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD12	13	0.11
(3,1913)	1:31:A:VAL:HG23	1:77:A:ILE:HD13	13	0.11
(3,1888)	1:10:A:ALA:HB1	1:141:A:GLY:HA2	12	0.11
(3,1888)	1:10:A:ALA:HB2	1:141:A:GLY:HA2	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1888)	1:10:A:ALA:HB3	1:141:A:GLY:HA2	12	0.11
(3,1885)	1:100:A:THR:HG21	1:141:A:GLY:HA3	12	0.11
(3,1885)	1:100:A:THR:HG22	1:141:A:GLY:HA3	12	0.11
(3,1885)	1:100:A:THR:HG23	1:141:A:GLY:HA3	12	0.11
(3,1877)	1:87:A:VAL:HA	1:88:A:LYS:HG3	9	0.11
(3,1873)	1:72:A:VAL:HG13	1:144:A:LEU:HA	16	0.11
(3,1859)	1:138:A:ILE:HB	1:138:A:ILE:HD13	1	0.11
(3,1859)	1:138:A:ILE:HB	1:138:A:ILE:HD11	3	0.11
(3,1859)	1:70:A:ILE:HB	1:70:A:ILE:HD12	5	0.11
(3,1859)	1:138:A:ILE:HB	1:138:A:ILE:HD12	14	0.11
(3,1850)	1:54:A:LYS:HD3	1:82:A:SER:HB3	4	0.11
(3,1823)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	3	0.11
(3,1823)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	12	0.11
(3,1820)	1:66:A:ALA:HA	1:70:A:ILE:HD13	2	0.11
(3,1795)	1:72:A:VAL:HA	1:72:A:VAL:HG22	20	0.11
(3,1787)	1:107:A:LEU:HD11	1:135:A:PRO:HD3	15	0.11
(3,1782)	1:60:A:ASP:HA	1:61:A:GLY:HA3	18	0.11
(3,1746)	1:18:A:VAL:HB	1:19:A:THR:HG21	17	0.11
(3,1731)	1:50:A:ILE:HG12	1:55:A:ALA:HA	6	0.11
(3,1728)	1:132:A:LEU:HB3	1:132:A:LEU:HD21	3	0.11
(3,1710)	1:31:A:VAL:HG22	1:50:A:ILE:HD11	6	0.11
(3,1710)	1:50:A:ILE:HD11	1:55:A:ALA:HB2	11	0.11
(3,1708)	1:114:A:VAL:HA	1:146:A:ILE:HG21	8	0.11
(3,1708)	1:114:A:VAL:HA	1:146:A:ILE:HG22	8	0.11
(3,1708)	1:114:A:VAL:HA	1:146:A:ILE:HG23	8	0.11
(3,1671)	1:111:A:SER:HB2	1:124:A:ILE:HD13	15	0.11
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD11	14	0.11
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD12	14	0.11
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD13	14	0.11
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD21	14	0.11
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD22	14	0.11
(3,1623)	1:62:A:LEU:HA	1:62:A:LEU:HD23	14	0.11
(3,1616)	1:109:A:ALA:HA	1:112:A:LYS:HB3	17	0.11
(3,1605)	1:127:A:ALA:HB1	1:145:A:ARG:H	8	0.11
(3,1605)	1:127:A:ALA:HB2	1:145:A:ARG:H	8	0.11
(3,1605)	1:127:A:ALA:HB3	1:145:A:ARG:H	8	0.11
(3,1605)	1:127:A:ALA:HB1	1:145:A:ARG:H	12	0.11
(3,1605)	1:127:A:ALA:HB2	1:145:A:ARG:H	12	0.11
(3,1605)	1:127:A:ALA:HB3	1:145:A:ARG:H	12	0.11
(3,1573)	1:40:A:ILE:HD13	1:41:A:PRO:HD2	20	0.11
(3,1558)	1:44:A:ASP:HA	1:46:A:VAL:HG12	20	0.11
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD11	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD12	1	0.11
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD13	1	0.11
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD11	8	0.11
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD12	8	0.11
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD13	8	0.11
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD11	10	0.11
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD12	10	0.11
(3,1529)	1:99:A:TYR:HB2	1:146:A:ILE:HD13	10	0.11
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	13	0.11
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	13	0.11
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	13	0.11
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	8	0.11
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	8	0.11
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	8	0.11
(3,1516)	1:40:A:ILE:HD11	1:130:A:PRO:HD3	18	0.11
(3,1516)	1:40:A:ILE:HD12	1:130:A:PRO:HD3	18	0.11
(3,1516)	1:40:A:ILE:HD13	1:130:A:PRO:HD3	18	0.11
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG21	8	0.11
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG22	8	0.11
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG23	8	0.11
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG21	8	0.11
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG22	8	0.11
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG23	8	0.11
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	3	0.11
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	4	0.11
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	6	0.11
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	9	0.11
(3,1436)	1:132:A:LEU:HD11	1:138:A:ILE:HA	9	0.11
(3,1432)	1:107:A:LEU:HA	1:110:A:ILE:H	5	0.11
(3,1432)	1:24:A:LYS:HA	1:25:A:ASP:H	7	0.11
(3,1432)	1:24:A:LYS:HA	1:25:A:ASP:H	16	0.11
(3,1432)	1:24:A:LYS:HA	1:25:A:ASP:H	20	0.11
(3,1430)	1:131:A:MET:HE1	1:132:A:LEU:HD12	14	0.11
(3,1428)	1:62:A:LEU:HB3	1:62:A:LEU:HD23	18	0.11
(3,1421)	1:24:A:LYS:HA	1:50:A:ILE:HB	19	0.11
(3,1412)	1:14:A:LEU:HD11	1:34:A:HIS:HB2	12	0.11
(3,1412)	1:14:A:LEU:HD12	1:34:A:HIS:HB2	12	0.11
(3,1412)	1:14:A:LEU:HD13	1:34:A:HIS:HB2	12	0.11
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	2	0.11
(3,1406)	1:21:A:GLN:HB3	1:21:A:GLN:HG2	19	0.11
(3,1389)	1:33:A:GLU:HA	1:33:A:GLU:HG3	5	0.11
(3,1389)	1:33:A:GLU:HA	1:33:A:GLU:HG3	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1377)	1:38:A:THR:HG22	1:130:A:PRO:HB2	3	0.11
(3,1377)	1:97:A:GLN:HG3	1:146:A:ILE:HG13	10	0.11
(3,1361)	1:32:A:GLN:HB2	1:48:A:ILE:HD13	10	0.11
(3,1359)	1:113:A:GLN:HB2	1:113:A:GLN:HG3	6	0.11
(3,1358)	1:97:A:GLN:HG2	1:146:A:ILE:HB	1	0.11
(3,1353)	1:97:A:GLN:HG2	1:146:A:ILE:HG21	16	0.11
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	16	0.11
(3,1311)	1:150:A:LEU:HB3	1:150:A:LEU:HD12	19	0.11
(3,1269)	1:31:A:VAL:HG21	1:50:A:ILE:HD13	14	0.11
(3,1269)	1:31:A:VAL:HG23	1:50:A:ILE:HD11	16	0.11
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	1	0.11
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	8	0.11
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	16	0.11
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	19	0.11
(3,1235)	1:77:A:ILE:HA	1:77:A:ILE:HG12	3	0.11
(3,1197)	1:112:A:LYS:HA	1:116:A:GLY:HA2	1	0.11
(3,1181)	1:125:A:PHE:HA	1:125:A:PHE:HD1	15	0.11
(3,1181)	1:125:A:PHE:HA	1:125:A:PHE:HD2	15	0.11
(3,1173)	1:42:A:ASP:HB3	1:45:A:LYS:HB3	19	0.11
(3,1173)	1:42:A:ASP:HB2	1:45:A:LYS:HB3	19	0.11
(3,1139)	1:24:A:LYS:HA	1:24:A:LYS:HG2	7	0.11
(3,1132)	1:23:A:ASP:HA	1:24:A:LYS:HA	2	0.11
(3,1132)	1:23:A:ASP:HA	1:24:A:LYS:HA	4	0.11
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD11	12	0.11
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD12	12	0.11
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD13	12	0.11
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD11	15	0.11
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD12	15	0.11
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD13	15	0.11
(3,1114)	1:110:A:ILE:HD11	1:113:A:GLN:HB3	8	0.11
(3,1114)	1:110:A:ILE:HD12	1:113:A:GLN:HB3	8	0.11
(3,1114)	1:110:A:ILE:HD13	1:113:A:GLN:HB3	8	0.11
(3,1114)	1:110:A:ILE:HD11	1:113:A:GLN:HB2	8	0.11
(3,1114)	1:110:A:ILE:HD12	1:113:A:GLN:HB2	8	0.11
(3,1114)	1:110:A:ILE:HD13	1:113:A:GLN:HB2	8	0.11
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	3	0.11
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	3	0.11
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	3	0.11
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	16	0.11
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	16	0.11
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	16	0.11
(3,1083)	1:144:A:LEU:HD11	1:145:A:ARG:H	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1083)	1:144:A:LEU:HD12	1:145:A:ARG:H	1	0.11
(3,1083)	1:144:A:LEU:HD13	1:145:A:ARG:H	1	0.11
(3,1083)	1:144:A:LEU:HD11	1:145:A:ARG:H	4	0.11
(3,1083)	1:144:A:LEU:HD12	1:145:A:ARG:H	4	0.11
(3,1083)	1:144:A:LEU:HD13	1:145:A:ARG:H	4	0.11
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	8	0.11
(3,1080)	1:78:A:SER:HB2	1:79:A:GLY:H	19	0.11
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	2	0.11
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	3	0.11
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	4	0.11
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	6	0.11
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	9	0.11
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	15	0.11
(3,1074)	1:147:A:PRO:HA	1:147:A:PRO:HB2	19	0.11
(3,1064)	1:13:A:LYS:HG3	1:78:A:SER:HB2	15	0.11
(3,1062)	1:13:A:LYS:HD3	1:78:A:SER:HB2	6	0.11
(3,1059)	1:103:A:SER:HB2	1:140:A:PRO:HG3	16	0.11
(3,1053)	1:130:A:PRO:HA	1:130:A:PRO:HG3	1	0.11
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	1	0.11
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	1	0.11
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	1	0.11
(3,1030)	1:51:A:ALA:HB1	1:52:A:ASP:HB2	14	0.11
(3,1030)	1:51:A:ALA:HB2	1:52:A:ASP:HB2	14	0.11
(3,1030)	1:51:A:ALA:HB3	1:52:A:ASP:HB2	14	0.11
(3,1014)	1:56:A:THR:HA	1:84:A:ASP:HB2	4	0.11
(3,1005)	1:114:A:VAL:HG22	1:115:A:TYR:HE2	14	0.11
(3,994)	1:35:A:LEU:HD22	1:73:A:ALA:HB2	3	0.11
(3,952)	1:42:A:ASP:HB3	1:62:A:LEU:HD22	6	0.11
(3,925)	1:13:A:LYS:HG3	1:78:A:SER:HB3	20	0.11
(3,919)	1:122:A:ASN:HA	1:125:A:PHE:HD1	12	0.11
(3,918)	1:13:A:LYS:HA	1:15:A:TRP:H	16	0.11
(3,912)	1:29:A:LYS:HE3	1:29:A:LYS:HG3	19	0.11
(3,911)	1:59:A:GLY:HA3	1:62:A:LEU:HD11	15	0.11
(3,900)	1:149:A:GLU:HA	1:149:A:GLU:HB2	16	0.11
(3,886)	1:12:A:GLU:HG3	1:13:A:LYS:H	1	0.11
(3,886)	1:12:A:GLU:HG2	1:13:A:LYS:H	1	0.11
(3,846)	1:10:A:ALA:HB1	1:141:A:GLY:H	5	0.11
(3,846)	1:10:A:ALA:HB2	1:141:A:GLY:H	5	0.11
(3,846)	1:10:A:ALA:HB3	1:141:A:GLY:H	5	0.11
(3,846)	1:10:A:ALA:HB1	1:141:A:GLY:H	20	0.11
(3,846)	1:10:A:ALA:HB2	1:141:A:GLY:H	20	0.11
(3,846)	1:10:A:ALA:HB3	1:141:A:GLY:H	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,841)	1:10:A:ALA:HB1	1:11:A:GLY:H	8	0.11
(3,841)	1:10:A:ALA:HB2	1:11:A:GLY:H	8	0.11
(3,841)	1:10:A:ALA:HB3	1:11:A:GLY:H	8	0.11
(3,827)	1:67:A:LYS:HA	1:67:A:LYS:HG3	3	0.11
(3,827)	1:67:A:LYS:HA	1:67:A:LYS:HG2	3	0.11
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	13	0.11
(3,817)	1:62:A:LEU:HA	1:63:A:SER:H	18	0.11
(3,805)	1:43:A:ALA:HA	1:70:A:ILE:HD11	8	0.11
(3,765)	1:8:A:LYS:HA	1:8:A:LYS:HG2	15	0.11
(3,753)	1:144:A:LEU:HB3	1:144:A:LEU:HD12	11	0.11
(3,742)	1:71:A:LEU:HD21	1:85:A:ASP:HB3	15	0.11
(3,742)	1:71:A:LEU:HD22	1:85:A:ASP:HB3	15	0.11
(3,742)	1:71:A:LEU:HD23	1:85:A:ASP:HB3	15	0.11
(3,726)	1:7:A:VAL:HB	1:141:A:GLY:HA3	2	0.11
(3,722)	1:63:A:SER:HB2	1:93:A:ALA:HB2	13	0.11
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB1	15	0.11
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB2	15	0.11
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB3	15	0.11
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG3	16	0.11
(3,691)	1:134:A:SER:HB3	1:137:A:LYS:HG2	16	0.11
(3,690)	1:134:A:SER:HB2	1:137:A:LYS:HB3	6	0.11
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	9	0.11
(3,661)	1:123:A:LYS:HE3	1:149:A:GLU:HA	1	0.11
(3,661)	1:123:A:LYS:HE2	1:149:A:GLU:HA	1	0.11
(3,661)	1:123:A:LYS:HE3	1:149:A:GLU:HA	17	0.11
(3,661)	1:123:A:LYS:HE2	1:149:A:GLU:HA	17	0.11
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	5	0.11
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	19	0.11
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	20	0.11
(3,644)	1:36:A:ASN:H	1:36:A:ASN:HA	3	0.11
(3,644)	1:36:A:ASN:H	1:36:A:ASN:HA	9	0.11
(3,644)	1:36:A:ASN:H	1:36:A:ASN:HA	17	0.11
(3,644)	1:36:A:ASN:H	1:36:A:ASN:HA	20	0.11
(3,643)	1:26:A:ASP:H	1:26:A:ASP:HA	10	0.11
(3,640)	1:6:A:PHE:HD1	1:82:A:SER:HA	17	0.11
(3,640)	1:6:A:PHE:HD2	1:82:A:SER:HA	17	0.11
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	17	0.11
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	17	0.11
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	17	0.11
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	17	0.11
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	17	0.11
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG11	20	0.11
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG12	20	0.11
(3,635)	1:6:A:PHE:HD1	1:143:A:VAL:HG13	20	0.11
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG11	20	0.11
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG12	20	0.11
(3,635)	1:6:A:PHE:HD2	1:143:A:VAL:HG13	20	0.11
(3,609)	1:14:A:LEU:HA	1:14:A:LEU:HB2	2	0.11
(3,609)	1:14:A:LEU:HA	1:14:A:LEU:HB2	6	0.11
(3,609)	1:14:A:LEU:HA	1:14:A:LEU:HB2	9	0.11
(3,541)	1:107:A:LEU:HD23	1:107:A:LEU:HG	10	0.11
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	10	0.11
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	10	0.11
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE1	15	0.11
(3,506)	1:125:A:PHE:HB2	1:125:A:PHE:HE2	15	0.11
(3,497)	1:34:A:HIS:HD2	1:35:A:LEU:HD21	19	0.11
(3,437)	1:99:A:TYR:HD2	1:100:A:THR:H	4	0.11
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	11	0.11
(3,344)	1:3:A:LEU:HB3	1:4:A:PHE:H	5	0.11
(3,344)	1:3:A:LEU:HB2	1:4:A:PHE:H	5	0.11
(3,324)	1:108:A:SER:HB3	1:118:A:ALA:HB1	13	0.11
(3,324)	1:108:A:SER:HB3	1:118:A:ALA:HB2	13	0.11
(3,324)	1:108:A:SER:HB3	1:118:A:ALA:HB3	13	0.11
(3,318)	1:108:A:SER:HB3	1:121:A:TYR:HD1	1	0.11
(3,292)	1:92:A:PRO:HB3	1:92:A:PRO:HD3	10	0.11
(3,290)	1:91:A:THR:HG21	1:92:A:PRO:HD2	8	0.11
(3,290)	1:91:A:THR:HG22	1:92:A:PRO:HD2	8	0.11
(3,290)	1:91:A:THR:HG23	1:92:A:PRO:HD2	8	0.11
(3,264)	1:47:A:ASN:HB3	1:48:A:ILE:H	8	0.11
(3,264)	1:47:A:ASN:HB2	1:48:A:ILE:H	8	0.11
(3,249)	1:62:A:LEU:HD21	1:63:A:SER:H	7	0.11
(3,246)	1:35:A:LEU:H	1:35:A:LEU:HB3	8	0.11
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE3	5	0.11
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE2	5	0.11
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE3	18	0.11
(3,241)	1:30:A:LYS:H	1:30:A:LYS:HE2	18	0.11
(3,209)	1:101:A:VAL:H	1:101:A:VAL:HB	19	0.11
(3,200)	1:137:A:LYS:HB2	1:138:A:ILE:H	7	0.11
(3,174)	1:40:A:ILE:HD11	1:130:A:PRO:HD2	17	0.11
(3,174)	1:40:A:ILE:HD12	1:130:A:PRO:HD2	17	0.11
(3,174)	1:40:A:ILE:HD13	1:130:A:PRO:HD2	17	0.11
(3,155)	1:113:A:GLN:HG3	1:114:A:VAL:H	8	0.11
(3,155)	1:49:A:GLN:H	1:49:A:GLN:HG3	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD21	10	0.11
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD22	10	0.11
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD23	10	0.11
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD21	19	0.11
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD22	19	0.11
(3,132)	1:120:A:LEU:H	1:120:A:LEU:HD23	19	0.11
(3,126)	1:107:A:LEU:H	1:107:A:LEU:HD23	20	0.11
(3,107)	1:67:A:LYS:HG2	1:68:A:GLU:H	2	0.11
(3,99)	1:70:A:ILE:H	1:70:A:ILE:HG12	10	0.11
(3,99)	1:70:A:ILE:H	1:70:A:ILE:HG12	13	0.11
(3,84)	1:32:A:GLN:H	1:32:A:GLN:HA	1	0.11
(3,84)	1:68:A:GLU:H	1:68:A:GLU:HA	4	0.11
(3,84)	1:32:A:GLN:H	1:32:A:GLN:HA	15	0.11
(3,84)	1:65:A:GLU:H	1:65:A:GLU:HA	18	0.11
(3,77)	1:57:A:VAL:HG13	1:87:A:VAL:H	14	0.11
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD11	3	0.11
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD12	3	0.11
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD13	3	0.11
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD11	13	0.11
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD12	13	0.11
(3,70)	1:50:A:ILE:H	1:50:A:ILE:HD13	13	0.11
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD12	19	0.11
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB1	13	0.11
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB2	13	0.11
(3,55)	1:6:A:PHE:H	1:81:A:ALA:HB3	13	0.11
(3,41)	1:32:A:GLN:HE22	1:48:A:ILE:HG21	20	0.11
(3,20)	1:139:A:TYR:HD2	1:140:A:PRO:HD2	18	0.11
(3,17)	1:119:A:ASN:H	1:119:A:ASN:HB3	10	0.11
(3,17)	1:119:A:ASN:H	1:119:A:ASN:HB3	13	0.11
(3,17)	1:119:A:ASN:H	1:119:A:ASN:HB3	16	0.11
(3,17)	1:119:A:ASN:H	1:119:A:ASN:HB3	18	0.11
(1,2544)	1:123:A:LYS:HA	1:127:A:ALA:H	19	0.11
(1,2524)	1:24:A:LYS:H	1:24:A:LYS:HD3	14	0.11
(1,2524)	1:24:A:LYS:H	1:24:A:LYS:HD2	14	0.11
(1,2495)	1:113:A:GLN:H	1:113:A:GLN:HG2	13	0.11
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	1	0.11
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	2	0.11
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	3	0.11
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	14	0.11
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	16	0.11
(1,2493)	1:97:A:GLN:HE21	1:97:A:GLN:HE22	18	0.11
(1,2368)	1:76:A:ASN:H	1:76:A:ASN:HB3	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2334)	1:59:A:GLY:H	1:88:A:LYS:H	2	0.11
(1,2334)	1:59:A:GLY:H	1:88:A:LYS:H	4	0.11
(1,2334)	1:59:A:GLY:H	1:88:A:LYS:H	12	0.11
(1,2287)	1:119:A:ASN:H	1:119:A:ASN:HB3	15	0.11
(1,2044)	1:63:A:SER:H	1:64:A:GLN:H	13	0.11
(1,2044)	1:63:A:SER:H	1:64:A:GLN:H	14	0.11
(1,2044)	1:63:A:SER:H	1:64:A:GLN:H	17	0.11
(1,2044)	1:63:A:SER:H	1:64:A:GLN:H	18	0.11
(1,2037)	1:62:A:LEU:H	1:63:A:SER:H	3	0.11
(1,2025)	1:63:A:SER:H	1:63:A:SER:HB2	1	0.11
(1,2025)	1:63:A:SER:H	1:63:A:SER:HB2	4	0.11
(1,2025)	1:63:A:SER:H	1:63:A:SER:HB2	18	0.11
(1,1941)	1:50:A:ILE:HG21	1:53:A:GLY:H	8	0.11
(1,1941)	1:50:A:ILE:HG22	1:53:A:GLY:H	8	0.11
(1,1941)	1:50:A:ILE:HG23	1:53:A:GLY:H	8	0.11
(1,1882)	1:57:A:VAL:H	1:87:A:VAL:H	17	0.11
(1,1826)	1:134:A:SER:H	1:138:A:ILE:H	16	0.11
(1,1696)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	5	0.11
(1,1696)	1:128:A:ASN:HD21	1:144:A:LEU:HB2	9	0.11
(1,1668)	1:42:A:ASP:H	1:69:A:LYS:HB3	12	0.11
(1,1627)	1:124:A:ILE:HG21	1:128:A:ASN:HD22	5	0.11
(1,1627)	1:124:A:ILE:HG22	1:128:A:ASN:HD22	5	0.11
(1,1627)	1:124:A:ILE:HG23	1:128:A:ASN:HD22	5	0.11
(1,1616)	1:8:A:LYS:HD3	1:9:A:ASP:H	5	0.11
(1,1572)	1:150:A:LEU:HB3	1:151:A:GLU:H	9	0.11
(1,1570)	1:149:A:GLU:HA	1:150:A:LEU:H	9	0.11
(1,1540)	1:47:A:ASN:HD22	1:48:A:ILE:HD11	10	0.11
(1,1484)	1:101:A:VAL:HA	1:143:A:VAL:H	11	0.11
(1,1460)	1:101:A:VAL:HG21	1:142:A:GLN:H	15	0.11
(1,1460)	1:101:A:VAL:HG22	1:142:A:GLN:H	15	0.11
(1,1460)	1:101:A:VAL:HG23	1:142:A:GLN:H	15	0.11
(1,1412)	1:137:A:LYS:H	1:138:A:ILE:HG12	17	0.11
(1,1411)	1:137:A:LYS:H	1:137:A:LYS:HD2	17	0.11
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	9	0.11
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	9	0.11
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	9	0.11
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	11	0.11
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	11	0.11
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	11	0.11
(1,1356)	1:131:A:MET:H	1:132:A:LEU:HB3	14	0.11
(1,1341)	1:129:A:LYS:H	1:130:A:PRO:HA	15	0.11
(1,1326)	1:128:A:ASN:H	1:129:A:LYS:HG3	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1321)	1:128:A:ASN:H	1:131:A:MET:HE2	17	0.11
(1,1313)	1:125:A:PHE:HD2	1:128:A:ASN:H	16	0.11
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	11	0.11
(1,1308)	1:127:A:ALA:H	1:132:A:LEU:H	13	0.11
(1,1295)	1:126:A:GLU:HG2	1:127:A:ALA:H	9	0.11
(1,1277)	1:122:A:ASN:HB3	1:126:A:GLU:H	12	0.11
(1,1267)	1:124:A:ILE:H	1:146:A:ILE:HG22	2	0.11
(1,1229)	1:121:A:TYR:H	1:125:A:PHE:HB2	16	0.11
(1,1217)	1:120:A:LEU:H	1:123:A:LYS:HG3	9	0.11
(1,1214)	1:112:A:LYS:HB3	1:120:A:LEU:H	10	0.11
(1,1194)	1:112:A:LYS:HB3	1:117:A:ASN:H	7	0.11
(1,1173)	1:116:A:GLY:H	1:120:A:LEU:HD11	5	0.11
(1,1118)	1:106:A:THR:H	1:111:A:SER:H	1	0.11
(1,1038)	1:101:A:VAL:H	1:102:A:LYS:HG2	9	0.11
(1,1038)	1:101:A:VAL:H	1:102:A:LYS:HG2	14	0.11
(1,957)	1:67:A:LYS:HE3	1:87:A:VAL:H	16	0.11
(1,957)	1:67:A:LYS:HE2	1:87:A:VAL:H	16	0.11
(1,920)	1:57:A:VAL:HG11	1:84:A:ASP:H	3	0.11
(1,918)	1:3:A:LEU:HD12	1:82:A:SER:H	18	0.11
(1,881)	1:14:A:LEU:HD11	1:80:A:ILE:H	13	0.11
(1,881)	1:14:A:LEU:HD12	1:80:A:ILE:H	13	0.11
(1,881)	1:14:A:LEU:HD13	1:80:A:ILE:H	13	0.11
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	19	0.11
(1,791)	1:72:A:VAL:HB	1:73:A:ALA:H	7	0.11
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB3	18	0.11
(1,770)	1:72:A:VAL:H	1:73:A:ALA:HB2	19	0.11
(1,761)	1:69:A:LYS:HB3	1:71:A:LEU:H	8	0.11
(1,756)	1:67:A:LYS:HE2	1:71:A:LEU:H	5	0.11
(1,729)	1:69:A:LYS:H	1:69:A:LYS:HG2	1	0.11
(1,702)	1:68:A:GLU:H	1:71:A:LEU:HD13	10	0.11
(1,691)	1:67:A:LYS:H	1:67:A:LYS:HE3	7	0.11
(1,691)	1:67:A:LYS:H	1:67:A:LYS:HE2	7	0.11
(1,677)	1:65:A:GLU:HB3	1:66:A:ALA:H	4	0.11
(1,676)	1:64:A:GLN:HB2	1:66:A:ALA:H	14	0.11
(1,649)	1:62:A:LEU:H	1:90:A:ALA:HA	17	0.11
(1,605)	1:58:A:THR:HB	1:59:A:GLY:H	2	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG21	1	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG22	1	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG23	1	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG21	3	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG22	3	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG23	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,587)	1:58:A:THR:H	1:58:A:THR:HG21	5	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG22	5	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG23	5	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG21	7	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG22	7	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG23	7	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG21	20	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG22	20	0.11
(1,587)	1:58:A:THR:H	1:58:A:THR:HG23	20	0.11
(1,560)	1:48:A:ILE:HB	1:56:A:THR:H	15	0.11
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG12	1	0.11
(1,550)	1:55:A:ALA:H	1:74:A:VAL:HG13	5	0.11
(1,545)	1:54:A:LYS:HB3	1:55:A:ALA:H	4	0.11
(1,541)	1:54:A:LYS:H	1:80:A:ILE:HD11	14	0.11
(1,536)	1:52:A:ASP:HB2	1:54:A:LYS:H	15	0.11
(1,460)	1:45:A:LYS:HG2	1:46:A:VAL:H	14	0.11
(1,404)	1:37:A:LYS:HB3	1:39:A:GLY:H	10	0.11
(1,383)	1:37:A:LYS:H	1:37:A:LYS:HG2	13	0.11
(1,383)	1:37:A:LYS:H	1:37:A:LYS:HG2	17	0.11
(1,370)	1:35:A:LEU:HB3	1:36:A:ASN:H	18	0.11
(1,369)	1:33:A:GLU:HB2	1:36:A:ASN:H	15	0.11
(1,355)	1:34:A:HIS:HB2	1:35:A:LEU:H	7	0.11
(1,355)	1:34:A:HIS:HB2	1:35:A:LEU:H	12	0.11
(1,355)	1:34:A:HIS:HB2	1:35:A:LEU:H	15	0.11
(1,348)	1:14:A:LEU:HD22	1:34:A:HIS:H	9	0.11
(1,306)	1:32:A:GLN:HB2	1:33:A:GLU:H	15	0.11
(1,300)	1:132:A:LEU:H	1:132:A:LEU:HG	16	0.11
(1,297)	1:31:A:VAL:HG13	1:32:A:GLN:H	18	0.11
(1,294)	1:31:A:VAL:HG23	1:32:A:GLN:H	2	0.11
(1,271)	1:30:A:LYS:HG3	1:31:A:VAL:H	19	0.11
(1,260)	1:26:A:ASP:HB3	1:30:A:LYS:H	14	0.11
(1,234)	1:27:A:GLN:HG2	1:28:A:ALA:H	13	0.11
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	11	0.11
(1,232)	1:28:A:ALA:H	1:49:A:GLN:HB3	14	0.11
(1,221)	1:27:A:GLN:H	1:31:A:VAL:HG21	5	0.11
(1,211)	1:24:A:LYS:HG3	1:25:A:ASP:H	12	0.11
(1,211)	1:24:A:LYS:HG2	1:25:A:ASP:H	12	0.11
(1,203)	1:17:A:ALA:HB1	1:18:A:VAL:H	4	0.11
(1,203)	1:17:A:ALA:HB2	1:18:A:VAL:H	4	0.11
(1,203)	1:17:A:ALA:HB3	1:18:A:VAL:H	4	0.11
(1,203)	1:17:A:ALA:HB1	1:18:A:VAL:H	8	0.11
(1,203)	1:17:A:ALA:HB2	1:18:A:VAL:H	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,203)	1:17:A:ALA:HB3	1:18:A:VAL:H	8	0.11
(1,203)	1:17:A:ALA:HB1	1:18:A:VAL:H	13	0.11
(1,203)	1:17:A:ALA:HB2	1:18:A:VAL:H	13	0.11
(1,203)	1:17:A:ALA:HB3	1:18:A:VAL:H	13	0.11
(1,203)	1:17:A:ALA:HB1	1:18:A:VAL:H	16	0.11
(1,203)	1:17:A:ALA:HB2	1:18:A:VAL:H	16	0.11
(1,203)	1:17:A:ALA:HB3	1:18:A:VAL:H	16	0.11
(1,203)	1:17:A:ALA:HB1	1:18:A:VAL:H	20	0.11
(1,203)	1:17:A:ALA:HB2	1:18:A:VAL:H	20	0.11
(1,203)	1:17:A:ALA:HB3	1:18:A:VAL:H	20	0.11
(1,142)	1:12:A:GLU:H	1:77:A:ILE:HB	4	0.11
(1,130)	1:10:A:ALA:H	1:80:A:ILE:H	17	0.11
(3,2954)	1:54:A:LYS:HA	1:54:A:LYS:HD3	16	0.1
(3,2954)	1:54:A:LYS:HA	1:54:A:LYS:HD2	16	0.1
(3,2939)	1:22:A:HIS:HB3	1:22:A:HIS:HD2	12	0.1
(3,2939)	1:22:A:HIS:HB2	1:22:A:HIS:HD2	12	0.1
(3,2911)	1:131:A:MET:HE1	1:142:A:GLN:HE22	7	0.1
(3,2911)	1:131:A:MET:HE2	1:142:A:GLN:HE22	7	0.1
(3,2911)	1:131:A:MET:HE3	1:142:A:GLN:HE22	7	0.1
(3,2889)	1:96:A:SER:HB2	1:97:A:GLN:H	4	0.1
(3,2887)	1:100:A:THR:HB	1:101:A:VAL:H	20	0.1
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	8	0.1
(3,2826)	1:134:A:SER:HA	1:135:A:PRO:HD2	14	0.1
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	6	0.1
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	8	0.1
(3,2823)	1:137:A:LYS:H	1:137:A:LYS:HG2	14	0.1
(3,2821)	1:123:A:LYS:HE3	1:123:A:LYS:HG2	19	0.1
(3,2821)	1:123:A:LYS:HE2	1:123:A:LYS:HG2	19	0.1
(3,2786)	1:122:A:ASN:HA	1:122:A:ASN:HB3	18	0.1
(3,2778)	1:22:A:HIS:HA	1:23:A:ASP:H	11	0.1
(3,2728)	1:123:A:LYS:H	1:123:A:LYS:HD3	1	0.1
(3,2728)	1:123:A:LYS:H	1:123:A:LYS:HD2	1	0.1
(3,2709)	1:133:A:LYS:H	1:133:A:LYS:HB3	7	0.1
(3,2689)	1:114:A:VAL:HG11	1:114:A:VAL:HG21	12	0.1
(3,2689)	1:114:A:VAL:HG11	1:114:A:VAL:HG22	12	0.1
(3,2689)	1:114:A:VAL:HG11	1:114:A:VAL:HG23	12	0.1
(3,2689)	1:114:A:VAL:HG12	1:114:A:VAL:HG21	12	0.1
(3,2689)	1:114:A:VAL:HG12	1:114:A:VAL:HG22	12	0.1
(3,2689)	1:114:A:VAL:HG12	1:114:A:VAL:HG23	12	0.1
(3,2689)	1:114:A:VAL:HG13	1:114:A:VAL:HG21	12	0.1
(3,2689)	1:114:A:VAL:HG13	1:114:A:VAL:HG22	12	0.1
(3,2689)	1:114:A:VAL:HG13	1:114:A:VAL:HG23	12	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD1	5	0.1
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD2	5	0.1
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD1	7	0.1
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD2	7	0.1
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD1	11	0.1
(3,2642)	1:139:A:TYR:HA	1:139:A:TYR:HD2	11	0.1
(3,2633)	1:56:A:THR:HG21	1:86:A:GLN:HE21	3	0.1
(3,2633)	1:56:A:THR:HG22	1:86:A:GLN:HE21	3	0.1
(3,2633)	1:56:A:THR:HG23	1:86:A:GLN:HE21	3	0.1
(3,2603)	1:60:A:ASP:H	1:60:A:ASP:HB3	16	0.1
(3,2603)	1:60:A:ASP:H	1:60:A:ASP:HB2	16	0.1
(3,2603)	1:60:A:ASP:H	1:60:A:ASP:HB3	18	0.1
(3,2603)	1:60:A:ASP:H	1:60:A:ASP:HB2	18	0.1
(3,2563)	1:133:A:LYS:H	1:133:A:LYS:HG2	3	0.1
(3,2520)	1:114:A:VAL:HG21	1:116:A:GLY:H	5	0.1
(3,2520)	1:114:A:VAL:HG22	1:116:A:GLY:H	5	0.1
(3,2520)	1:114:A:VAL:HG23	1:116:A:GLY:H	5	0.1
(3,2514)	1:106:A:THR:H	1:110:A:ILE:HG22	17	0.1
(3,2491)	1:58:A:THR:HB	1:86:A:GLN:HB2	13	0.1
(3,2486)	1:51:A:ALA:H	1:54:A:LYS:HB3	6	0.1
(3,2450)	1:15:A:TRP:HZ3	1:80:A:ILE:HD11	17	0.1
(3,2450)	1:15:A:TRP:HZ3	1:80:A:ILE:HD12	17	0.1
(3,2450)	1:15:A:TRP:HZ3	1:80:A:ILE:HD13	17	0.1
(3,2418)	1:118:A:ALA:HA	1:121:A:TYR:H	5	0.1
(3,2396)	1:14:A:LEU:HD22	1:34:A:HIS:HE1	11	0.1
(3,2329)	1:8:A:LYS:HB2	1:81:A:ALA:H	15	0.1
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD21	10	0.1
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD22	10	0.1
(3,2301)	1:143:A:VAL:HA	1:144:A:LEU:HD23	10	0.1
(3,2299)	1:14:A:LEU:H	1:14:A:LEU:HG	14	0.1
(3,2289)	1:71:A:LEU:HB3	1:71:A:LEU:HD22	16	0.1
(3,2205)	1:131:A:MET:HE2	1:132:A:LEU:HG	12	0.1
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG21	16	0.1
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG22	16	0.1
(3,2203)	1:113:A:GLN:HG2	1:114:A:VAL:HG23	16	0.1
(3,2196)	1:130:A:PRO:HA	1:132:A:LEU:H	4	0.1
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	7	0.1
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	7	0.1
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	7	0.1
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	9	0.1
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	9	0.1
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	9	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD11	13	0.1
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD12	13	0.1
(3,2192)	1:35:A:LEU:H	1:35:A:LEU:HD13	13	0.1
(3,2188)	1:105:A:ASP:HA	1:109:A:ALA:HB1	20	0.1
(3,2162)	1:124:A:ILE:HA	1:128:A:ASN:H	19	0.1
(3,2153)	1:47:A:ASN:H	1:48:A:ILE:HD11	19	0.1
(3,2095)	1:107:A:LEU:HA	1:110:A:ILE:HG21	1	0.1
(3,2095)	1:107:A:LEU:HA	1:110:A:ILE:HG22	1	0.1
(3,2095)	1:107:A:LEU:HA	1:110:A:ILE:HG23	1	0.1
(3,2050)	1:45:A:LYS:HB2	1:45:A:LYS:HD3	3	0.1
(3,2008)	1:96:A:SER:HB3	1:147:A:PRO:HB3	17	0.1
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB1	14	0.1
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB2	14	0.1
(3,2005)	1:108:A:SER:HB2	1:118:A:ALA:HB3	14	0.1
(3,1986)	1:67:A:LYS:HA	1:87:A:VAL:HG21	14	0.1
(3,1979)	1:86:A:GLN:H	1:87:A:VAL:HG12	20	0.1
(3,1957)	1:128:A:ASN:HA	1:145:A:ARG:HB2	4	0.1
(3,1924)	1:77:A:ILE:HG23	1:79:A:GLY:HA3	17	0.1
(3,1823)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	13	0.1
(3,1804)	1:125:A:PHE:HD2	1:135:A:PRO:HA	11	0.1
(3,1803)	1:72:A:VAL:HA	1:98:A:PHE:HE2	3	0.1
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD21	8	0.1
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD22	8	0.1
(3,1785)	1:117:A:ASN:HD22	1:120:A:LEU:HD23	8	0.1
(3,1762)	1:111:A:SER:HB3	1:121:A:TYR:HA	7	0.1
(3,1721)	1:101:A:VAL:HA	1:102:A:LYS:HG2	17	0.1
(3,1708)	1:114:A:VAL:HA	1:146:A:ILE:HG21	7	0.1
(3,1708)	1:114:A:VAL:HA	1:146:A:ILE:HG22	7	0.1
(3,1708)	1:114:A:VAL:HA	1:146:A:ILE:HG23	7	0.1
(3,1691)	1:50:A:ILE:HD13	1:56:A:THR:H	3	0.1
(3,1658)	1:124:A:ILE:HD12	1:124:A:ILE:HG12	5	0.1
(3,1658)	1:124:A:ILE:HD11	1:124:A:ILE:HG12	7	0.1
(3,1606)	1:17:A:ALA:HB3	1:79:A:GLY:HA3	11	0.1
(3,1537)	1:40:A:ILE:HD12	1:130:A:PRO:HG2	14	0.1
(3,1519)	1:146:A:ILE:HD11	1:147:A:PRO:HD2	17	0.1
(3,1519)	1:146:A:ILE:HD12	1:147:A:PRO:HD2	17	0.1
(3,1519)	1:146:A:ILE:HD13	1:147:A:PRO:HD2	17	0.1
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG21	12	0.1
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG22	12	0.1
(3,1480)	1:6:A:PHE:HE1	1:143:A:VAL:HG23	12	0.1
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG21	12	0.1
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG22	12	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1480)	1:6:A:PHE:HE2	1:143:A:VAL:HG23	12	0.1
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	5	0.1
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	8	0.1
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	10	0.1
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	11	0.1
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	14	0.1
(3,1463)	1:113:A:GLN:HA	1:114:A:VAL:H	15	0.1
(3,1455)	1:98:A:PHE:H	1:98:A:PHE:HB3	15	0.1
(3,1435)	1:34:A:HIS:HD2	1:35:A:LEU:HD21	2	0.1
(3,1435)	1:34:A:HIS:HD2	1:35:A:LEU:HD22	2	0.1
(3,1435)	1:34:A:HIS:HD2	1:35:A:LEU:HD23	2	0.1
(3,1403)	1:33:A:GLU:HA	1:33:A:GLU:HG3	1	0.1
(3,1397)	1:29:A:LYS:HG2	1:33:A:GLU:HG3	18	0.1
(3,1385)	1:148:A:GLU:HG3	1:149:A:GLU:H	16	0.1
(3,1370)	1:48:A:ILE:HA	1:49:A:GLN:HG3	18	0.1
(3,1363)	1:97:A:GLN:HA	1:97:A:GLN:HG2	2	0.1
(3,1353)	1:97:A:GLN:HG2	1:146:A:ILE:HG21	2	0.1
(3,1333)	1:101:A:VAL:HG11	1:139:A:TYR:H	8	0.1
(3,1329)	1:136:A:ASP:H	1:137:A:LYS:HB2	10	0.1
(3,1301)	1:4:A:PHE:HB2	1:83:A:VAL:HG13	16	0.1
(3,1296)	1:46:A:VAL:HB	1:46:A:VAL:HG21	14	0.1
(3,1275)	1:6:A:PHE:HA	1:143:A:VAL:HG12	20	0.1
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	4	0.1
(3,1240)	1:34:A:HIS:HA	1:34:A:HIS:HB3	12	0.1
(3,1230)	1:28:A:ALA:HB2	1:50:A:ILE:HG13	18	0.1
(3,1229)	1:28:A:ALA:HB3	1:48:A:ILE:HG21	11	0.1
(3,1155)	1:24:A:LYS:HA	1:27:A:GLN:H	15	0.1
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD11	17	0.1
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD12	17	0.1
(3,1115)	1:124:A:ILE:HG13	1:146:A:ILE:HD13	17	0.1
(3,1087)	1:81:A:ALA:HB1	1:82:A:SER:HA	9	0.1
(3,1087)	1:81:A:ALA:HB2	1:82:A:SER:HA	9	0.1
(3,1087)	1:81:A:ALA:HB3	1:82:A:SER:HA	9	0.1
(3,1068)	1:108:A:SER:HB2	1:121:A:TYR:HB3	12	0.1
(3,1021)	1:113:A:GLN:HG3	1:114:A:VAL:HG11	8	0.1
(3,1021)	1:113:A:GLN:HG3	1:114:A:VAL:HG12	8	0.1
(3,1021)	1:113:A:GLN:HG3	1:114:A:VAL:HG13	8	0.1
(3,1021)	1:113:A:GLN:HG3	1:114:A:VAL:HG11	20	0.1
(3,1021)	1:113:A:GLN:HG3	1:114:A:VAL:HG12	20	0.1
(3,1021)	1:113:A:GLN:HG3	1:114:A:VAL:HG13	20	0.1
(3,1014)	1:56:A:THR:HA	1:84:A:ASP:HB2	3	0.1
(3,1014)	1:56:A:THR:HA	1:84:A:ASP:HB2	7	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,995)	1:109:A:ALA:HB2	1:110:A:ILE:HG22	15	0.1
(3,941)	1:107:A:LEU:HD11	1:125:A:PHE:HD2	2	0.1
(3,938)	1:99:A:TYR:HD1	1:144:A:LEU:HD22	16	0.1
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB3	19	0.1
(3,924)	1:110:A:ILE:HA	1:113:A:GLN:HB2	19	0.1
(3,918)	1:13:A:LYS:HA	1:15:A:TRP:H	14	0.1
(3,886)	1:12:A:GLU:HG3	1:13:A:LYS:H	13	0.1
(3,886)	1:12:A:GLU:HG2	1:13:A:LYS:H	13	0.1
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB3	7	0.1
(3,870)	1:147:A:PRO:HA	1:148:A:GLU:HB2	7	0.1
(3,868)	1:149:A:GLU:HA	1:149:A:GLU:HG3	12	0.1
(3,868)	1:149:A:GLU:HA	1:149:A:GLU:HG2	12	0.1
(3,841)	1:10:A:ALA:HB1	1:11:A:GLY:H	7	0.1
(3,841)	1:10:A:ALA:HB2	1:11:A:GLY:H	7	0.1
(3,841)	1:10:A:ALA:HB3	1:11:A:GLY:H	7	0.1
(3,823)	1:32:A:GLN:HA	1:32:A:GLN:HB3	20	0.1
(3,817)	1:62:A:LEU:HA	1:63:A:SER:H	20	0.1
(3,740)	1:14:A:LEU:HD21	1:34:A:HIS:HB3	15	0.1
(3,740)	1:14:A:LEU:HD22	1:34:A:HIS:HB3	15	0.1
(3,740)	1:14:A:LEU:HD23	1:34:A:HIS:HB3	15	0.1
(3,730)	1:8:A:LYS:HE3	1:81:A:ALA:HB1	7	0.1
(3,730)	1:8:A:LYS:HE3	1:81:A:ALA:HB2	7	0.1
(3,730)	1:8:A:LYS:HE3	1:81:A:ALA:HB3	7	0.1
(3,730)	1:8:A:LYS:HE2	1:81:A:ALA:HB1	7	0.1
(3,730)	1:8:A:LYS:HE2	1:81:A:ALA:HB2	7	0.1
(3,730)	1:8:A:LYS:HE2	1:81:A:ALA:HB3	7	0.1
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB1	19	0.1
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB2	19	0.1
(3,721)	1:8:A:LYS:HA	1:81:A:ALA:HB3	19	0.1
(3,665)	1:151:A:GLU:HA	1:152:A:HIS:HB3	5	0.1
(3,657)	1:125:A:PHE:HE1	1:129:A:LYS:HE2	11	0.1
(3,655)	1:105:A:ASP:H	1:105:A:ASP:HB3	2	0.1
(3,644)	1:36:A:ASN:H	1:36:A:ASN:HA	2	0.1
(3,644)	1:36:A:ASN:H	1:36:A:ASN:HA	11	0.1
(3,644)	1:36:A:ASN:H	1:36:A:ASN:HA	14	0.1
(3,609)	1:14:A:LEU:HA	1:14:A:LEU:HB2	1	0.1
(3,609)	1:14:A:LEU:HA	1:14:A:LEU:HB2	3	0.1
(3,609)	1:14:A:LEU:HA	1:14:A:LEU:HB2	4	0.1
(3,609)	1:14:A:LEU:HA	1:14:A:LEU:HB2	15	0.1
(3,563)	1:107:A:LEU:HD21	1:125:A:PHE:H	20	0.1
(3,547)	1:123:A:LYS:HB2	1:123:A:LYS:HG3	19	0.1
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG22	11	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,525)	1:54:A:LYS:HA	1:80:A:ILE:HG21	16	0.1
(3,445)	1:115:A:TYR:HE2	1:146:A:ILE:HG22	16	0.1
(3,445)	1:115:A:TYR:HE2	1:146:A:ILE:HG23	17	0.1
(3,431)	1:99:A:TYR:HD1	1:144:A:LEU:HD13	11	0.1
(3,405)	1:4:A:PHE:HD1	1:85:A:ASP:HB3	2	0.1
(3,405)	1:4:A:PHE:HD2	1:85:A:ASP:HB3	2	0.1
(3,378)	1:64:A:GLN:HA	1:67:A:LYS:HB3	3	0.1
(3,351)	1:34:A:HIS:HB2	1:35:A:LEU:H	20	0.1
(3,337)	1:15:A:TRP:HD1	1:17:A:ALA:HB3	20	0.1
(3,326)	1:52:A:ASP:HA	1:52:A:ASP:HB2	5	0.1
(3,326)	1:52:A:ASP:HA	1:52:A:ASP:HB2	8	0.1
(3,295)	1:97:A:GLN:HA	1:98:A:PHE:H	7	0.1
(3,263)	1:47:A:ASN:H	1:47:A:ASN:HB3	1	0.1
(3,246)	1:35:A:LEU:H	1:35:A:LEU:HB3	4	0.1
(3,183)	1:91:A:THR:HB	1:92:A:PRO:HD3	10	0.1
(3,183)	1:91:A:THR:HB	1:92:A:PRO:HD3	15	0.1
(3,174)	1:40:A:ILE:HD11	1:130:A:PRO:HD2	4	0.1
(3,174)	1:40:A:ILE:HD12	1:130:A:PRO:HD2	4	0.1
(3,174)	1:40:A:ILE:HD13	1:130:A:PRO:HD2	4	0.1
(3,174)	1:40:A:ILE:HD11	1:130:A:PRO:HD2	6	0.1
(3,174)	1:40:A:ILE:HD12	1:130:A:PRO:HD2	6	0.1
(3,174)	1:40:A:ILE:HD13	1:130:A:PRO:HD2	6	0.1
(3,99)	1:70:A:ILE:H	1:70:A:ILE:HG12	7	0.1
(3,99)	1:70:A:ILE:H	1:70:A:ILE:HG12	14	0.1
(3,99)	1:70:A:ILE:H	1:70:A:ILE:HG12	17	0.1
(3,98)	1:70:A:ILE:H	1:70:A:ILE:HG13	13	0.1
(3,84)	1:32:A:GLN:H	1:32:A:GLN:HA	2	0.1
(3,84)	1:65:A:GLU:H	1:65:A:GLU:HA	3	0.1
(3,84)	1:65:A:GLU:H	1:65:A:GLU:HA	14	0.1
(3,67)	1:80:A:ILE:H	1:80:A:ILE:HD12	3	0.1
(3,14)	1:144:A:LEU:HB2	1:145:A:ARG:H	4	0.1
(1,2527)	1:10:A:ALA:H	1:11:A:GLY:H	3	0.1
(1,2495)	1:113:A:GLN:H	1:113:A:GLN:HG2	1	0.1
(1,2491)	1:131:A:MET:HE1	1:142:A:GLN:HE22	16	0.1
(1,2491)	1:131:A:MET:HE2	1:142:A:GLN:HE22	16	0.1
(1,2491)	1:131:A:MET:HE3	1:142:A:GLN:HE22	16	0.1
(1,2345)	1:149:A:GLU:H	1:150:A:LEU:H	5	0.1
(1,2334)	1:59:A:GLY:H	1:88:A:LYS:H	8	0.1
(1,1976)	1:47:A:ASN:HD21	1:57:A:VAL:HG12	1	0.1
(1,1935)	1:28:A:ALA:H	1:30:A:LYS:H	7	0.1
(1,1800)	1:72:A:VAL:HG23	1:146:A:ILE:H	1	0.1
(1,1738)	1:94:A:THR:HB	1:95:A:ALA:H	1	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	16	0.1
(1,1733)	1:63:A:SER:HB3	1:94:A:THR:H	19	0.1
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	15	0.1
(1,1713)	1:9:A:ASP:H	1:80:A:ILE:H	16	0.1
(1,1710)	1:80:A:ILE:H	1:80:A:ILE:HG13	15	0.1
(1,1668)	1:42:A:ASP:H	1:45:A:LYS:HD2	8	0.1
(1,1542)	1:119:A:ASN:H	1:119:A:ASN:HD22	12	0.1
(1,1536)	1:76:A:ASN:HD22	1:144:A:LEU:HD11	16	0.1
(1,1486)	1:142:A:GLN:HG3	1:143:A:VAL:H	6	0.1
(1,1486)	1:142:A:GLN:HG2	1:143:A:VAL:H	6	0.1
(1,1484)	1:101:A:VAL:HA	1:143:A:VAL:H	8	0.1
(1,1454)	1:101:A:VAL:HG11	1:141:A:GLY:H	17	0.1
(1,1427)	1:138:A:ILE:H	1:142:A:GLN:HE21	11	0.1
(1,1371)	1:132:A:LEU:HD21	1:133:A:LYS:H	7	0.1
(1,1371)	1:132:A:LEU:HD22	1:133:A:LYS:H	7	0.1
(1,1371)	1:132:A:LEU:HD23	1:133:A:LYS:H	7	0.1
(1,1359)	1:129:A:LYS:HD3	1:131:A:MET:H	1	0.1
(1,1358)	1:130:A:PRO:HG3	1:131:A:MET:H	1	0.1
(1,1326)	1:128:A:ASN:H	1:129:A:LYS:HG3	7	0.1
(1,1246)	1:107:A:LEU:HD22	1:123:A:LYS:H	17	0.1
(1,1226)	1:107:A:LEU:HD21	1:121:A:TYR:H	10	0.1
(1,1196)	1:117:A:ASN:H	1:120:A:LEU:HB2	6	0.1
(1,1195)	1:112:A:LYS:HG3	1:117:A:ASN:H	20	0.1
(1,1131)	1:112:A:LYS:HB2	1:113:A:GLN:H	13	0.1
(1,1065)	1:102:A:LYS:HB2	1:105:A:ASP:H	11	0.1
(1,1059)	1:105:A:ASP:H	1:140:A:PRO:HA	15	0.1
(1,941)	1:3:A:LEU:HB2	1:85:A:ASP:H	14	0.1
(1,881)	1:14:A:LEU:HD11	1:80:A:ILE:H	19	0.1
(1,881)	1:14:A:LEU:HD12	1:80:A:ILE:H	19	0.1
(1,881)	1:14:A:LEU:HD13	1:80:A:ILE:H	19	0.1
(1,845)	1:77:A:ILE:HG13	1:78:A:SER:H	2	0.1
(1,804)	1:35:A:LEU:HD23	1:74:A:VAL:H	13	0.1
(1,766)	1:71:A:LEU:H	1:71:A:LEU:HD23	10	0.1
(1,742)	1:41:A:PRO:HB2	1:70:A:ILE:H	5	0.1
(1,733)	1:70:A:ILE:H	1:74:A:VAL:HG11	9	0.1
(1,729)	1:69:A:LYS:H	1:69:A:LYS:HG2	3	0.1
(1,699)	1:62:A:LEU:HB2	1:67:A:LYS:H	16	0.1
(1,587)	1:58:A:THR:H	1:58:A:THR:HG21	2	0.1
(1,587)	1:58:A:THR:H	1:58:A:THR:HG22	2	0.1
(1,587)	1:58:A:THR:H	1:58:A:THR:HG23	2	0.1
(1,587)	1:58:A:THR:H	1:58:A:THR:HG21	15	0.1
(1,587)	1:58:A:THR:H	1:58:A:THR:HG22	15	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,587)	1:58:A:THR:H	1:58:A:THR:HG23	15	0.1
(1,557)	1:49:A:GLN:HG3	1:56:A:THR:H	17	0.1
(1,509)	1:50:A:ILE:H	1:50:A:ILE:HD13	4	0.1
(1,488)	1:48:A:ILE:H	1:48:A:ILE:HG12	17	0.1
(1,483)	1:46:A:VAL:HG23	1:47:A:ASN:H	3	0.1
(1,460)	1:45:A:LYS:HG2	1:46:A:VAL:H	3	0.1
(1,460)	1:45:A:LYS:HG2	1:46:A:VAL:H	12	0.1
(1,459)	1:45:A:LYS:HD3	1:46:A:VAL:H	17	0.1
(1,454)	1:45:A:LYS:H	1:45:A:LYS:HD2	1	0.1
(1,431)	1:44:A:ASP:H	1:45:A:LYS:HD3	7	0.1
(1,404)	1:37:A:LYS:HB3	1:39:A:GLY:H	5	0.1
(1,404)	1:37:A:LYS:HB3	1:39:A:GLY:H	8	0.1
(1,404)	1:37:A:LYS:HB3	1:39:A:GLY:H	15	0.1
(1,383)	1:37:A:LYS:H	1:37:A:LYS:HG2	3	0.1
(1,371)	1:36:A:ASN:H	1:40:A:ILE:HB	11	0.1
(1,327)	1:34:A:HIS:H	1:34:A:HIS:HD2	5	0.1
(1,322)	1:34:A:HIS:H	1:36:A:ASN:HD22	4	0.1
(1,294)	1:31:A:VAL:HG23	1:32:A:GLN:H	8	0.1
(1,248)	1:29:A:LYS:H	1:29:A:LYS:HG2	6	0.1
(1,243)	1:29:A:LYS:H	1:50:A:ILE:HD12	5	0.1
(1,233)	1:28:A:ALA:H	1:29:A:LYS:HB3	10	0.1
(1,191)	1:14:A:LEU:HB3	1:15:A:TRP:H	7	0.1
(1,127)	1:10:A:ALA:H	1:141:A:GLY:HA2	9	0.1

10 Dihedral-angle violation analysis

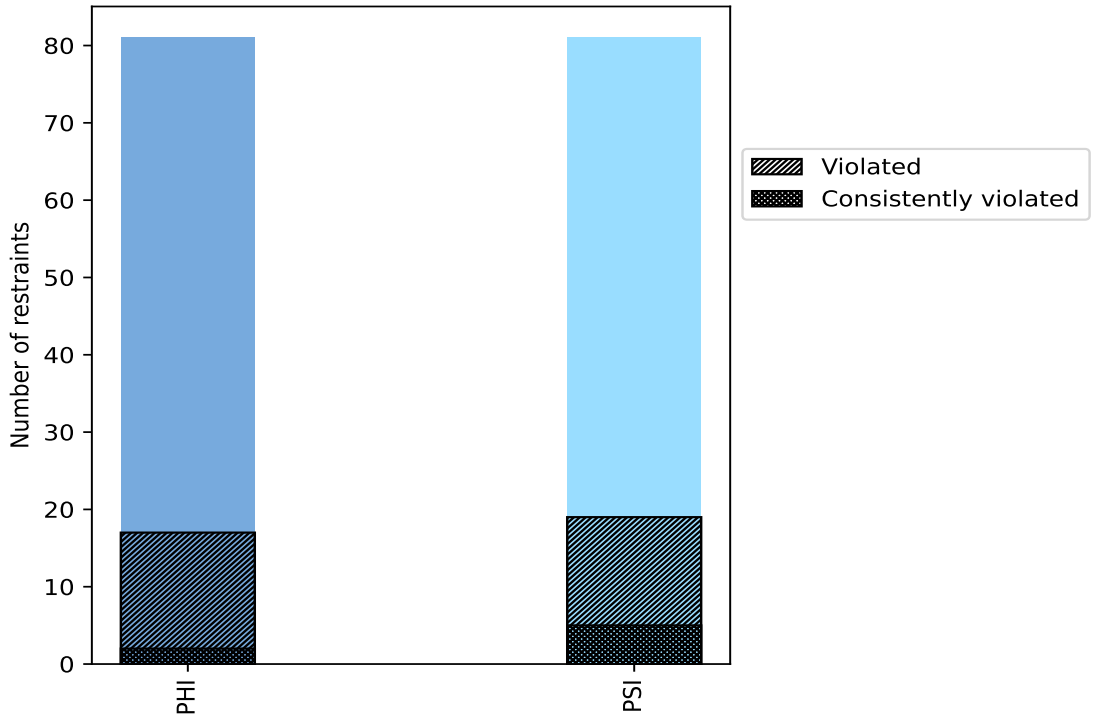
10.1 Summary of dihedral-angle violations

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]
PHI	81	50.0	17	21.0	10.5	2	2.5	1.2
PSI	81	50.0	19	23.5	11.7	5	6.2	3.1
Total	162	100.0	36	22.2	22.2	7	4.3	4.3

[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



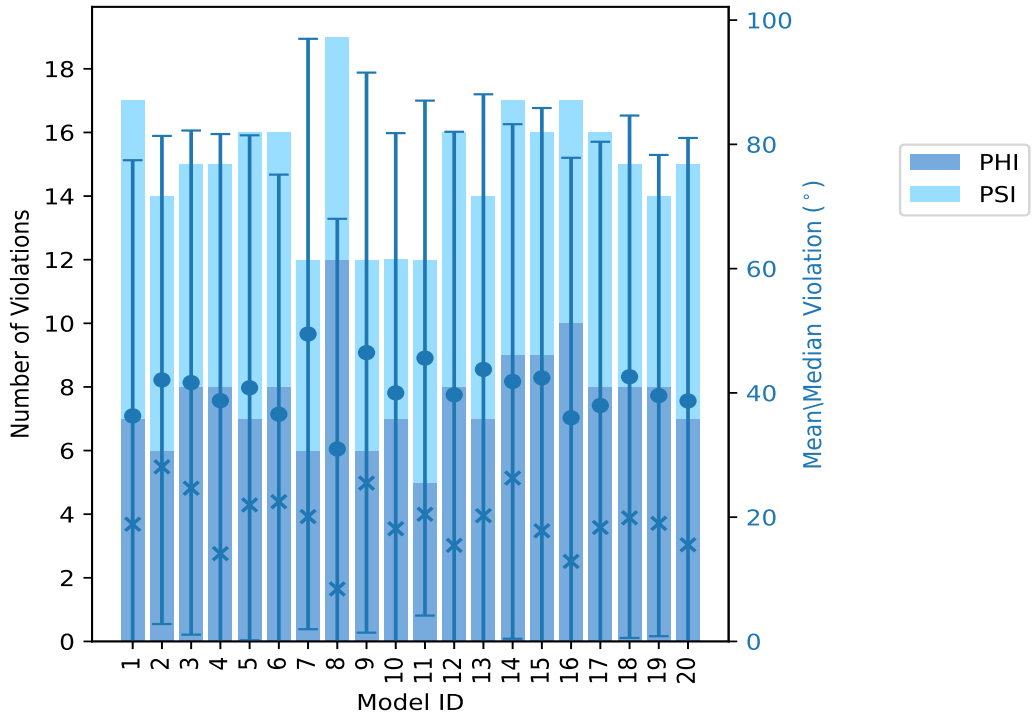
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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 (°)
	PHI	PSI	Total				
1	7	10	17	36.3	119.72	41.15	18.86
2	6	8	14	42.08	132.49	39.28	28.1
3	8	7	15	41.66	116.02	40.57	24.66
4	8	7	15	38.76	126.11	42.9	14.13
5	7	9	16	40.82	124.39	40.64	21.97
6	8	8	16	36.57	122.99	38.56	22.49
7	6	6	12	49.48	137.13	47.51	20.09
8	12	7	19	30.98	113.79	37.04	8.44
9	6	6	12	46.48	128.19	45.07	25.48
10	7	5	12	40.0	112.04	41.81	18.14
11	5	7	12	45.6	112.76	41.44	20.47
12	8	8	16	39.69	118.26	42.34	15.46
13	7	7	14	43.78	135.31	44.28	20.24
14	9	8	17	41.84	132.18	41.41	26.29
15	9	7	16	42.42	126.99	43.43	17.81
16	10	7	17	36.0	130.3	41.84	12.88
17	8	8	16	37.97	137.44	42.45	18.34
18	8	7	15	42.6	120.52	42.04	19.89
19	8	6	14	39.57	116.24	38.73	19.0
20	7	8	15	38.71	126.62	42.32	15.56

10.2.1 Bar graph : Dihedral violation statistics for each model



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

10.3 Dihedral-angle violation statistics for the ensemble

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	
PHI	PSI	Total	Count[1]	%
4	8	12	1	5.0
0	1	1	2	10.0
1	1	2	3	15.0
0	0	0	4	20.0
3	3	6	5	25.0
0	0	0	6	30.0
0	0	0	7	35.0
0	0	0	8	40.0
2	0	2	9	45.0
0	0	0	10	50.0
0	0	0	11	55.0

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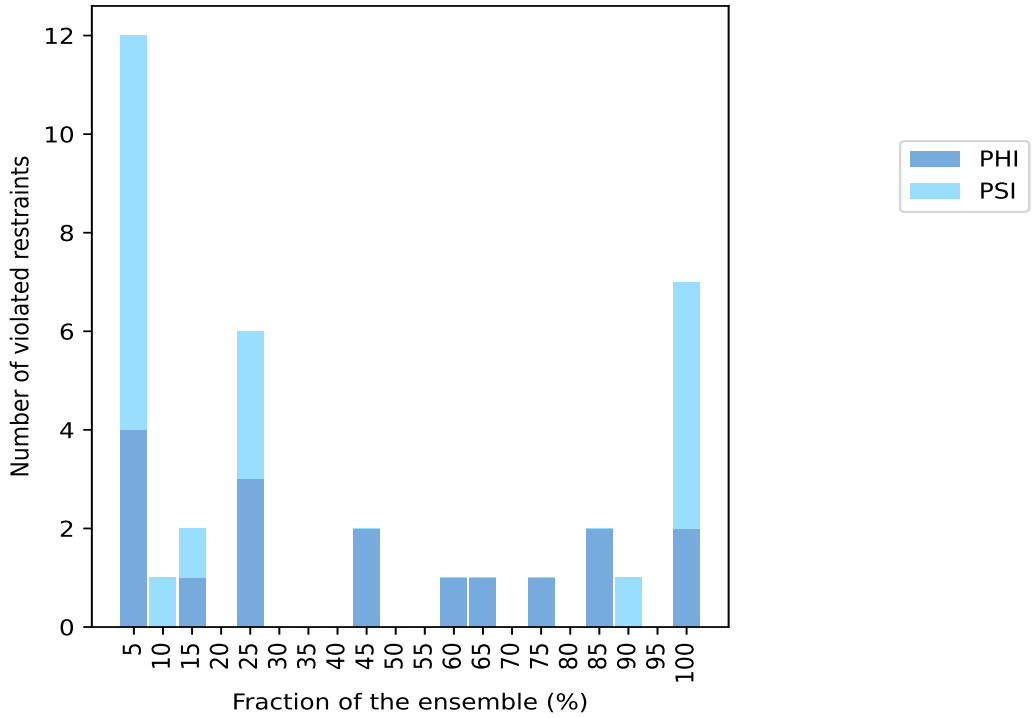
Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count[1]	%
1	0	1	12	60.0
1	0	1	13	65.0
0	0	0	14	70.0
1	0	1	15	75.0
0	0	0	16	80.0
2	0	2	17	85.0
0	1	1	18	90.0
0	0	0	19	95.0
2	5	7	20	100.0

[1] Number of models with violations

10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble

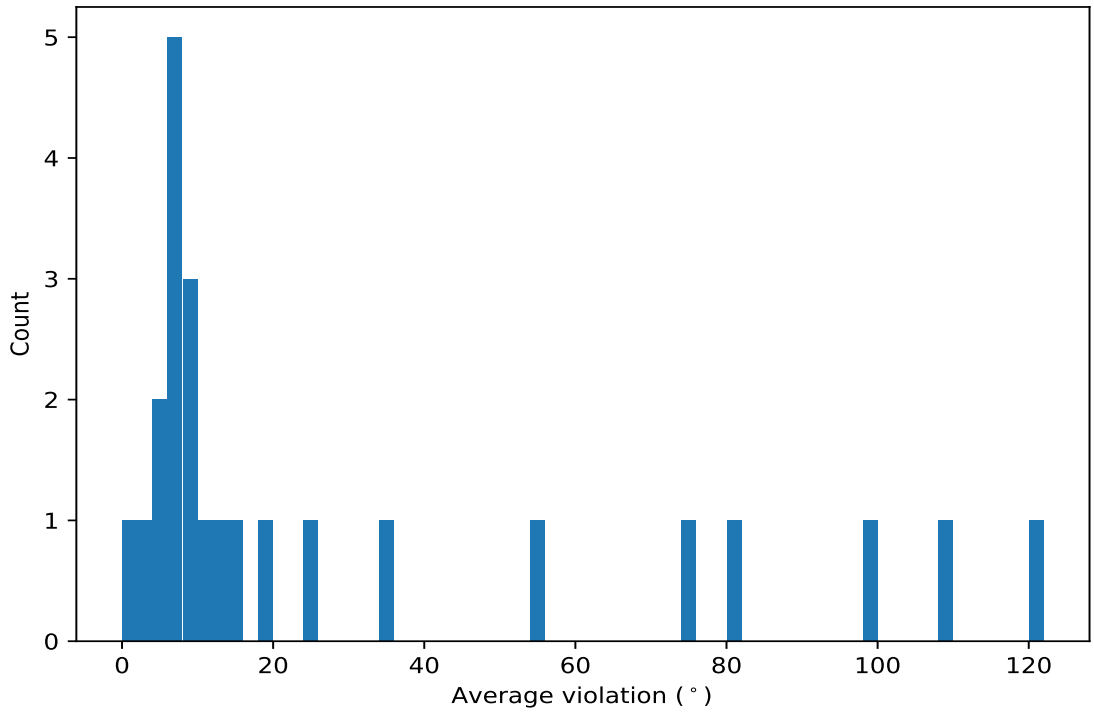


10.4 Most violated dihedral-angle restraints in the ensemble

10.4.1 Histogram : Distribution of mean dihedral-angle violations

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

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
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	20	108.9	10.83	112.28
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	20	99.77	4.0	99.98
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	20	81.31	7.36	79.94
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	20	35.09	31.34	24.9
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	20	24.1	2.24	23.7
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	20	19.04	4.53	18.83
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	20	7.28	3.2	7.98
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	18	120.75	14.68	125.04
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	17	55.78	18.68	56.07
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	17	12.02	5.6	15.48
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	15	7.58	4.04	6.76
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	13	8.06	6.2	6.12
(1,161)	1:144:A:LEU:C	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	12	7.66	3.65	7.22
(1,159)	1:143:A:VAL:C	1:144:A:LEU:N	1:144:A:LEU:CA	1:144:A:LEU:C	9	11.66	8.03	7.62
(1,111)	1:96:A:SER:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	9	4.9	4.38	3.53
(1,11)	1:23:A:ASP:C	1:24:A:LYS:N	1:24:A:LYS:CA	1:24:A:LYS:C	5	74.09	26.29	68.56
(1,52)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:ILE:N	5	9.35	4.63	12.02
(1,158)	1:143:A:VAL:N	1:143:A:VAL:CA	1:143:A:VAL:C	1:144:A:LEU:N	5	9.18	4.34	10.08
(1,157)	1:142:A:GLN:C	1:143:A:VAL:N	1:143:A:VAL:CA	1:143:A:VAL:C	5	7.29	3.04	8.12
(1,14)	1:25:A:ASP:N	1:25:A:ASP:CA	1:25:A:ASP:C	1:26:A:ASP:N	5	6.62	6.35	4.49

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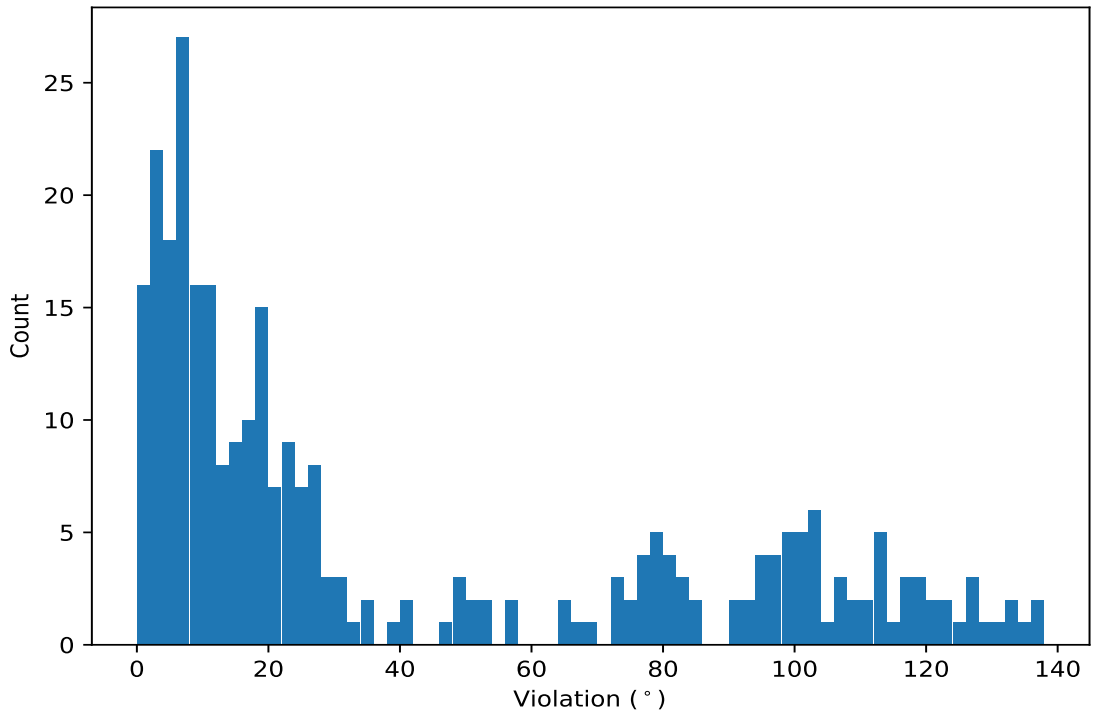
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,83)	1:70:A:ILE:C	1:71:A:LEU:N	1:71:A:LEU:CA	1:71:A:LEU:C	5	1.8	0.27	1.86
(1,8)	1:6:A:PHE:N	1:6:A:PHE:CA	1:6:A:PHE:C	1:7:A:VAL:N	3	5.31	3.66	3.99
(1,51)	1:48:A:ILE:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	3	3.31	1.65	3.48
(1,12)	1:24:A:LYS:N	1:24:A:LYS:CA	1:24:A:LYS:C	1:25:A:ASP:N	2	15.14	13.64	15.14

[1] Number of violated models, [2]Standard deviation, All angle values are in degree (°)

10.5 All violated dihedral-angle restraints

10.5.1 Histogram : Distribution of violations

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



10.5.2 Table: All violated dihedral-angle restraints

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 (°)
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	17	137.44
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	7	137.13
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	13	135.31

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	2	132.49
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	14	132.18
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	16	130.3
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	9	128.19
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	15	126.99
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	20	126.62
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	4	126.11
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	5	124.39
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	5	123.97
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	6	122.99
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	9	121.01
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	18	120.52
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	1	119.72
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	7	119.32
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	12	118.26
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	1	116.31
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	19	116.24
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	3	116.02
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	13	114.25
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	8	113.79
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	16	113.45
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	11	112.76
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	11	112.51
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	10	112.04
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	3	111.25
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	17	110.87
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	20	109.16
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	15	108.42
(1,11)	1:23:A:ASP:C	1:24:A:LYS:N	1:24:A:LYS:CA	1:24:A:LYS:C	18	107.6
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	4	106.97
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	7	106.4
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	8	104.73
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1	103.84
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	4	103.83
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	12	103.75
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	20	103.67
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	6	103.58
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	13	102.24
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	12	101.12
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	16	101.12
(1,11)	1:23:A:ASP:C	1:24:A:LYS:N	1:24:A:LYS:CA	1:24:A:LYS:C	10	100.99
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	18	100.27
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	17	100.16
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	11	99.8
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	14	99.28
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	19	98.57
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	14	98.12
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	9	98.03
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	3	97.47
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	14	97.31
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	15	97.12

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	5	97.1
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	12	95.42
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	10	95.22
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	18	94.75
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	2	94.59
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	2	92.88
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	19	92.03
(1,92)	1:81:A:ALA:N	1:81:A:ALA:CA	1:81:A:ALA:C	1:82:A:SER:N	15	90.37
(1,39)	1:41:A:PRO:C	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	8	90.06
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	8	84.81
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	1	84.76
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	19	83.62
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	10	83.44
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	3	83.08
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	16	81.7
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	7	81.42
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	17	81.15
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	20	80.69
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	12	79.63
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	14	79.6
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	13	79.2
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	15	78.04
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	18	78.0
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	5	77.75
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	4	77.49
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	11	77.23
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	15	76.97
(1,10)	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1:24:A:LYS:N	6	75.77
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	6	75.62
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	3	73.68
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	2	73.63
(1,102)	1:86:A:GLN:N	1:86:A:GLN:CA	1:86:A:GLN:C	1:87:A:VAL:N	9	72.93
(1,11)	1:23:A:ASP:C	1:24:A:LYS:N	1:24:A:LYS:CA	1:24:A:LYS:C	6	68.56
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	4	67.07
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	7	64.54
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	13	64.01
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	1	56.33
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	16	56.07
(1,11)	1:23:A:ASP:C	1:24:A:LYS:N	1:24:A:LYS:CA	1:24:A:LYS:C	5	52.63
(1,98)	1:84:A:ASP:N	1:84:A:ASP:CA	1:84:A:ASP:C	1:85:A:ASP:N	14	52.4
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	11	51.9
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	9	50.34
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	20	49.92
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	2	49.26
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	19	48.84
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	12	46.92
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	17	41.45
(1,11)	1:23:A:ASP:C	1:24:A:LYS:N	1:24:A:LYS:CA	1:24:A:LYS:C	8	40.67
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	8	38.25
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	5	35.87
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	6	34.28

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,99)	1:84:A:ASP:C	1:85:A:ASP:N	1:85:A:ASP:CA	1:85:A:ASP:C	14	33.8
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	3	31.34
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	2	30.65
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	5	30.16
(1,12)	1:24:A:LYS:N	1:24:A:LYS:CA	1:24:A:LYS:C	1:25:A:ASP:N	6	28.78
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	2	28.58
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	13	28.35
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	8	27.71
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	4	27.64
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	2	27.62
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	18	27.48
(1,159)	1:143:A:VAL:C	1:144:A:LEU:N	1:144:A:LEU:CA	1:144:A:LEU:C	3	27.34
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	14	26.58
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	9	26.29
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	14	26.29
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	5	25.72
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	17	25.11
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	9	24.68
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	3	24.66
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	8	24.62
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	6	24.61
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	1	24.02
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	13	23.5
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	10	23.38
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	20	23.12
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	7	23.11
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	16	22.81
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	14	22.71
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	18	22.68
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	11	22.34
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	12	22.29
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	19	21.86
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	17	21.76
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	12	21.68
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	15	21.47
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	2	20.88
(1,142)	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1:121:A:TYR:N	19	20.85
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	6	20.37
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	20	19.94
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	18	19.89
(1,138)	1:118:A:ALA:N	1:118:A:ALA:CA	1:118:A:ALA:C	1:119:A:ASN:N	15	19.65
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	10	19.45
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	1	19.3
(1,159)	1:143:A:VAL:C	1:144:A:LEU:N	1:144:A:LEU:CA	1:144:A:LEU:C	16	19.28
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	16	19.14
(1,14)	1:25:A:ASP:N	1:25:A:ASP:CA	1:25:A:ASP:C	1:26:A:ASP:N	18	19.1
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	17	19.0
(1,159)	1:143:A:VAL:C	1:144:A:LEU:N	1:144:A:LEU:CA	1:144:A:LEU:C	1	18.93
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	1	18.86
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	9	18.8
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	11	18.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	3	18.47
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	5	18.22
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	2	17.89
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	17	17.68
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	11	17.55
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	19	17.14
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	8	17.13
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	7	17.07
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	13	16.98
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	10	16.83
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	5	16.57
(1,161)	1:144:A:LEU:C	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	17	16.08
(1,111)	1:96:A:SER:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	15	15.98
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	19	15.77
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	20	15.56
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	11	15.51
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	1	15.48
(1,158)	1:143:A:VAL:N	1:143:A:VAL:CA	1:143:A:VAL:C	1:144:A:LEU:N	3	14.61
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	4	14.41
(1,52)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:ILE:N	5	14.22
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	4	14.13
(1,64)	1:57:A:VAL:N	1:57:A:VAL:CA	1:57:A:VAL:C	1:58:A:THR:N	14	13.34
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	7	13.34
(1,159)	1:143:A:VAL:C	1:144:A:LEU:N	1:144:A:LEU:CA	1:144:A:LEU:C	17	13.0
(1,52)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:ILE:N	20	12.98
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	16	12.88
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	19	12.82
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	11	12.08
(1,52)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:ILE:N	13	12.02
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	7	11.96
(1,140)	1:119:A:ASN:N	1:119:A:ASN:CA	1:119:A:ASN:C	1:120:A:LEU:N	18	11.89
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	13	11.89
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	18	11.83
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	1	11.7
(1,158)	1:143:A:VAL:N	1:143:A:VAL:CA	1:143:A:VAL:C	1:144:A:LEU:N	17	11.17
(1,161)	1:144:A:LEU:C	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	15	11.11
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	5	10.79
(1,9)	1:22:A:HIS:C	1:23:A:ASP:N	1:23:A:ASP:CA	1:23:A:ASP:C	18	10.77
(1,157)	1:142:A:GLN:C	1:143:A:VAL:N	1:143:A:VAL:CA	1:143:A:VAL:C	19	10.63
(1,8)	1:6:A:PHE:N	1:6:A:PHE:CA	1:6:A:PHE:C	1:7:A:VAL:N	5	10.31
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	10	10.25
(1,161)	1:144:A:LEU:C	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	16	10.15
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	20	10.12
(1,158)	1:143:A:VAL:N	1:143:A:VAL:CA	1:143:A:VAL:C	1:144:A:LEU:N	16	10.08
(1,40)	1:42:A:ASP:N	1:42:A:ASP:CA	1:42:A:ASP:C	1:43:A:ALA:N	15	10.07
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	4	9.96
(1,161)	1:144:A:LEU:C	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	19	9.83
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	7	9.69
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	2	9.34
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	16	9.29
(1,56)	1:51:A:ALA:N	1:51:A:ALA:CA	1:51:A:ALA:C	1:52:A:ASP:N	16	9.25

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,157)	1:142:A:GLN:C	1:143:A:VAL:N	1:143:A:VAL:CA	1:143:A:VAL:C	12	9.23
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	4	8.97
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	13	8.9
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	15	8.71
(1,158)	1:143:A:VAL:N	1:143:A:VAL:CA	1:143:A:VAL:C	1:144:A:LEU:N	1	8.57
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	5	8.56
(1,161)	1:144:A:LEU:C	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	8	8.44
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	4	8.38
(1,157)	1:142:A:GLN:C	1:143:A:VAL:N	1:143:A:VAL:CA	1:143:A:VAL:C	8	8.12
(1,111)	1:96:A:SER:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	20	8.01
(1,161)	1:144:A:LEU:C	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	18	7.86
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	3	7.83
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	12	7.73
(1,159)	1:143:A:VAL:C	1:144:A:LEU:N	1:144:A:LEU:CA	1:144:A:LEU:C	4	7.62
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	14	7.59
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	8	7.46
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	7	7.41
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	16	7.31
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	8	7.14
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	9	6.99
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	12	6.76
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	13	6.73
(1,159)	1:143:A:VAL:C	1:144:A:LEU:N	1:144:A:LEU:CA	1:144:A:LEU:C	9	6.72
(1,157)	1:142:A:GLN:C	1:143:A:VAL:N	1:143:A:VAL:CA	1:143:A:VAL:C	15	6.66
(1,161)	1:144:A:LEU:C	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	20	6.57
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	16	6.57
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	12	6.55
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	3	6.38
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	14	6.37
(1,120)	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	1:102:A:LYS:N	20	6.23
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	4	6.21
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	1	6.2
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	20	6.12
(1,108)	1:95:A:ALA:N	1:95:A:ALA:CA	1:95:A:ALA:C	1:96:A:SER:N	2	6.1
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	6	6.09
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	3	6.05
(1,161)	1:144:A:LEU:C	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	6	6.0
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	6	5.81
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	14	5.64
(1,161)	1:144:A:LEU:C	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	14	5.49
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	13	5.34
(1,159)	1:143:A:VAL:C	1:144:A:LEU:N	1:144:A:LEU:CA	1:144:A:LEU:C	5	5.3
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	3	5.28
(1,51)	1:48:A:ILE:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	8	5.25
(1,14)	1:25:A:ASP:N	1:25:A:ASP:CA	1:25:A:ASP:C	1:26:A:ASP:N	11	5.05
(1,161)	1:144:A:LEU:C	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	10	4.91
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	17	4.87
(1,159)	1:143:A:VAL:C	1:144:A:LEU:N	1:144:A:LEU:CA	1:144:A:LEU:C	10	4.64
(1,111)	1:96:A:SER:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	18	4.59
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	10	4.54
(1,14)	1:25:A:ASP:N	1:25:A:ASP:CA	1:25:A:ASP:C	1:26:A:ASP:N	12	4.49

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	10	4.34
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	12	4.33
(1,52)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:ILE:N	6	4.29
(1,111)	1:96:A:SER:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	13	4.18
(1,8)	1:6:A:PHE:N	1:6:A:PHE:CA	1:6:A:PHE:C	1:7:A:VAL:N	1	3.99
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	1	3.85
(1,38)	1:37:A:LYS:N	1:37:A:LYS:CA	1:37:A:LYS:C	1:38:A:THR:N	12	3.79
(1,111)	1:96:A:SER:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	19	3.53
(1,51)	1:48:A:ILE:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	14	3.48
(1,111)	1:96:A:SER:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	6	3.38
(1,110)	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	1:97:A:GLN:N	17	3.36
(1,52)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:ILE:N	1	3.24
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	15	3.1
(1,161)	1:144:A:LEU:C	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	12	3.09
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	6	3.08
(1,141)	1:119:A:ASN:C	1:120:A:LEU:N	1:120:A:LEU:CA	1:120:A:LEU:C	2	2.83
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	17	2.75
(1,139)	1:118:A:ALA:C	1:119:A:ASN:N	1:119:A:ASN:CA	1:119:A:ASN:C	15	2.53
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	8	2.42
(1,14)	1:25:A:ASP:N	1:25:A:ASP:CA	1:25:A:ASP:C	1:26:A:ASP:N	2	2.37
(1,161)	1:144:A:LEU:C	1:145:A:ARG:N	1:145:A:ARG:CA	1:145:A:ARG:C	7	2.34
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	19	2.3
(1,83)	1:70:A:ILE:C	1:71:A:LEU:N	1:71:A:LEU:CA	1:71:A:LEU:C	8	2.16
(1,159)	1:143:A:VAL:C	1:144:A:LEU:N	1:144:A:LEU:CA	1:144:A:LEU:C	8	2.14
(1,109)	1:95:A:ALA:C	1:96:A:SER:N	1:96:A:SER:CA	1:96:A:SER:C	8	2.08
(1,14)	1:25:A:ASP:N	1:25:A:ASP:CA	1:25:A:ASP:C	1:26:A:ASP:N	1	2.07
(1,83)	1:70:A:ILE:C	1:71:A:LEU:N	1:71:A:LEU:CA	1:71:A:LEU:C	6	1.99
(1,111)	1:96:A:SER:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	9	1.96
(1,119)	1:100:A:THR:C	1:101:A:VAL:N	1:101:A:VAL:CA	1:101:A:VAL:C	20	1.87
(1,83)	1:70:A:ILE:C	1:71:A:LEU:N	1:71:A:LEU:CA	1:71:A:LEU:C	11	1.86
(1,157)	1:142:A:GLN:C	1:143:A:VAL:N	1:143:A:VAL:CA	1:143:A:VAL:C	18	1.8
(1,67)	1:58:A:THR:C	1:59:A:GLY:N	1:59:A:GLY:CA	1:59:A:GLY:C	9	1.76
(1,133)	1:112:A:LYS:C	1:113:A:GLN:N	1:113:A:GLN:CA	1:113:A:GLN:C	17	1.63
(1,8)	1:6:A:PHE:N	1:6:A:PHE:CA	1:6:A:PHE:C	1:7:A:VAL:N	8	1.63
(1,83)	1:70:A:ILE:C	1:71:A:LEU:N	1:71:A:LEU:CA	1:71:A:LEU:C	15	1.5
(1,12)	1:24:A:LYS:N	1:24:A:LYS:CA	1:24:A:LYS:C	1:25:A:ASP:N	5	1.5
(1,83)	1:70:A:ILE:C	1:71:A:LEU:N	1:71:A:LEU:CA	1:71:A:LEU:C	3	1.48
(1,158)	1:143:A:VAL:N	1:143:A:VAL:CA	1:143:A:VAL:C	1:144:A:LEU:N	4	1.46
(1,111)	1:96:A:SER:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	16	1.4
(1,51)	1:48:A:ILE:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	16	1.21
(1,47)	1:46:A:VAL:C	1:47:A:ASN:N	1:47:A:ASN:CA	1:47:A:ASN:C	4	1.2
(1,111)	1:96:A:SER:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	14	1.1