Full wwPDB NMR Structure Validation Report (i)

Mar 14, 2026 – 10:20 PM UTC

PDB ID	:	2MU3 / pdb_00002mu3
BMRB ID	:	17899
Title	:	Spider wrapping silk fibre architecture arising from its modular soluble protein precursor
Authors	:	Xu, L.; Tremblay, M.; Meng, Q.; Liu, X.; Rainey, J.K.; Lefevre, T.; Sarker, M.; Orrell, K.E.; Leclerc, J.; Pezolet, M.; Auger, M.
Deposited on	:	2014-09-03

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

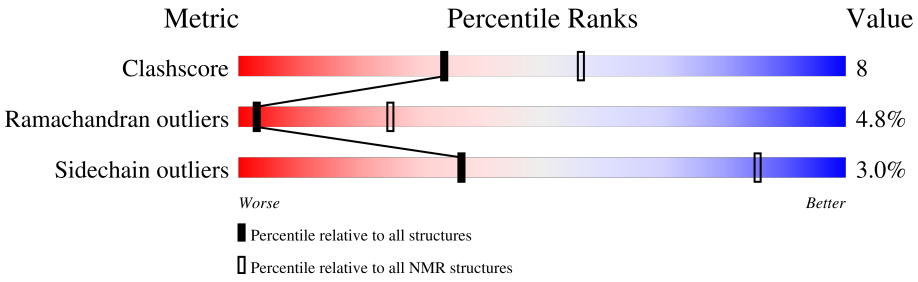
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber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

1 Overall quality at a glance

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

The overall completeness of chemical shifts assignment is 91%.

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	199	54% 8% • 37%

2 Ensemble composition and analysis

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

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

Well-defined (core) protein residues			
Well-defined core	**Residue range (total)**	**Backbone RMSD (Å)**	**Medoid model**
1	A:12-A:77, A:86-A:144 (125)	0.92	18

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

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

The models can be grouped into 2 clusters and 2 single-model clusters were found.

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

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 2632 atoms, of which 1296 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Aciniform spidroin 1.

Mol	Chain	Residues	Atoms					Trace
			Total	C	H	N	O	
1	A	199	2632	809	1296	240	287	0

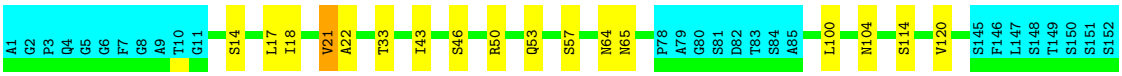
4 Residue-property plots

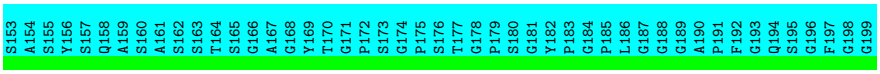
4.1 Average score per residue in the NMR ensemble

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

• Molecule 1: Aciniform spidroin 1

Chain A:





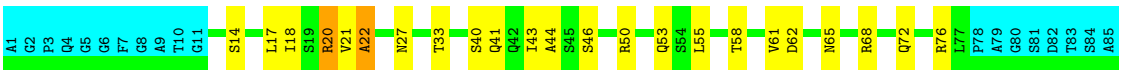
4.2 Scores per residue for each member of the ensemble

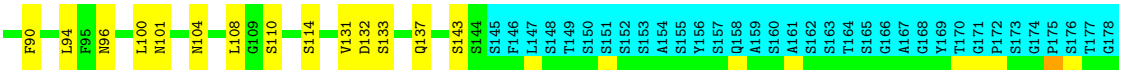
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: Aciniform spidroin 1

Chain A:

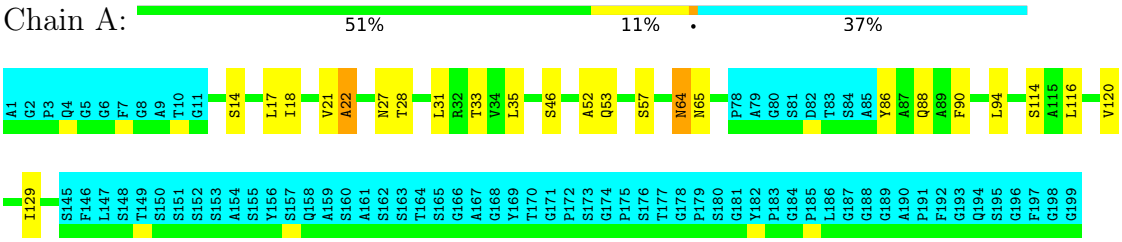




4.2.2 Score per residue for model 2

• Molecule 1: Aciniform spidroin 1

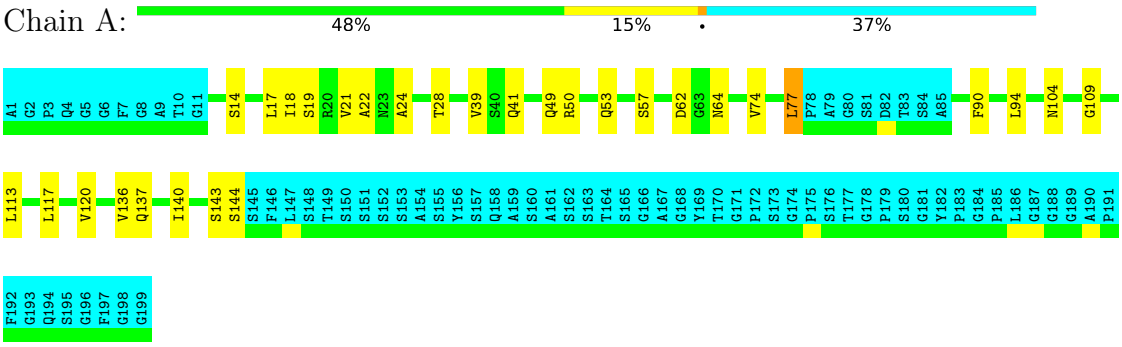
Chain A:



4.2.3 Score per residue for model 3

• Molecule 1: Aciniform spidroin 1

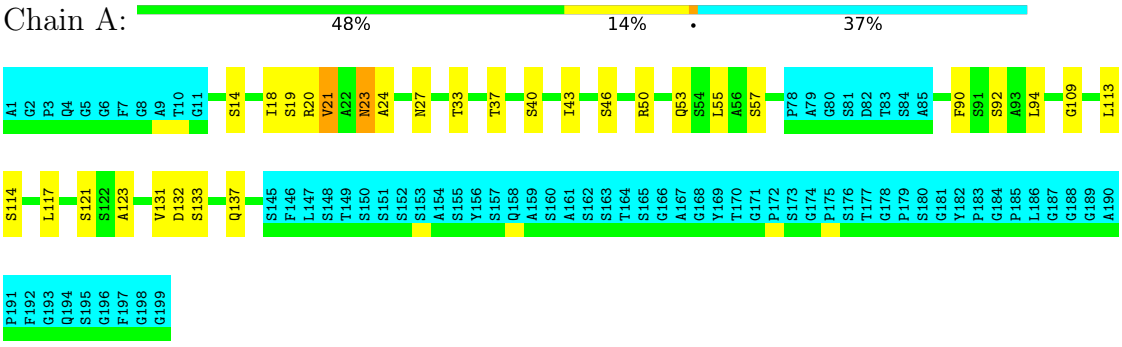
Chain A:



4.2.4 Score per residue for model 4

• Molecule 1: Aciniform spidroin 1

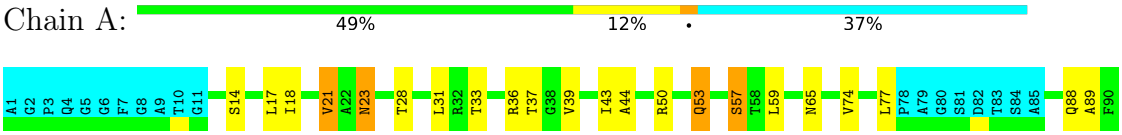
Chain A:

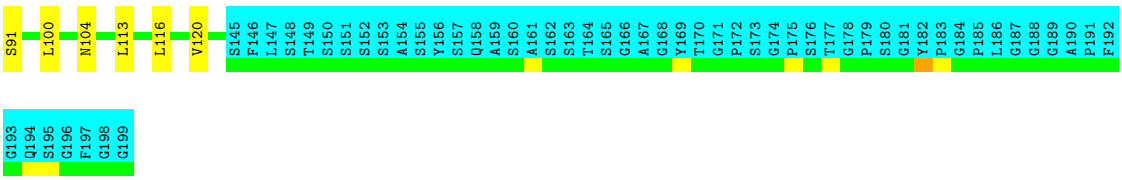


4.2.5 Score per residue for model 5

• Molecule 1: Aciniform spidroin 1

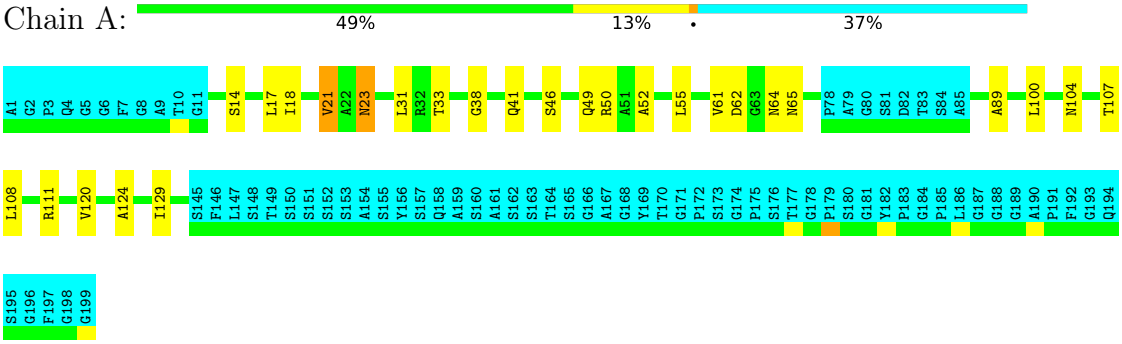
Chain A:





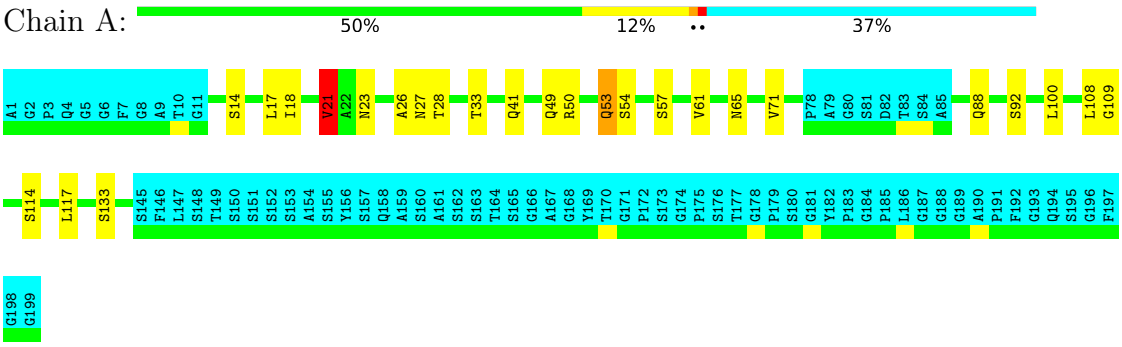
4.2.6 Score per residue for model 6

• Molecule 1: Aciniform spidroin 1



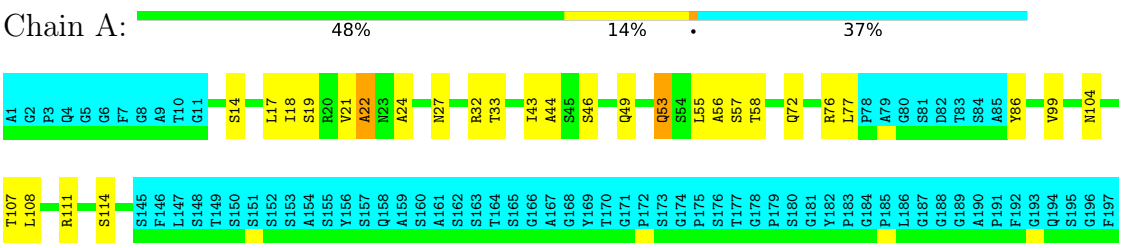
4.2.7 Score per residue for model 7

• Molecule 1: Aciniform spidroin 1



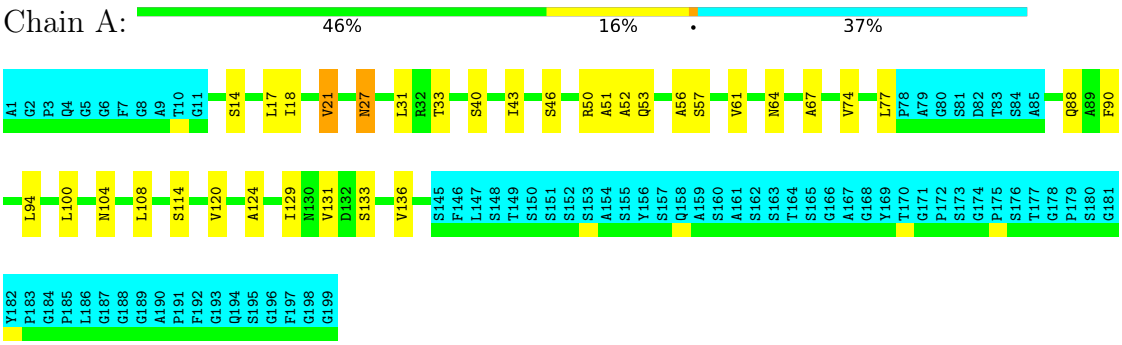
4.2.8 Score per residue for model 8

• Molecule 1: Aciniform spidroin 1



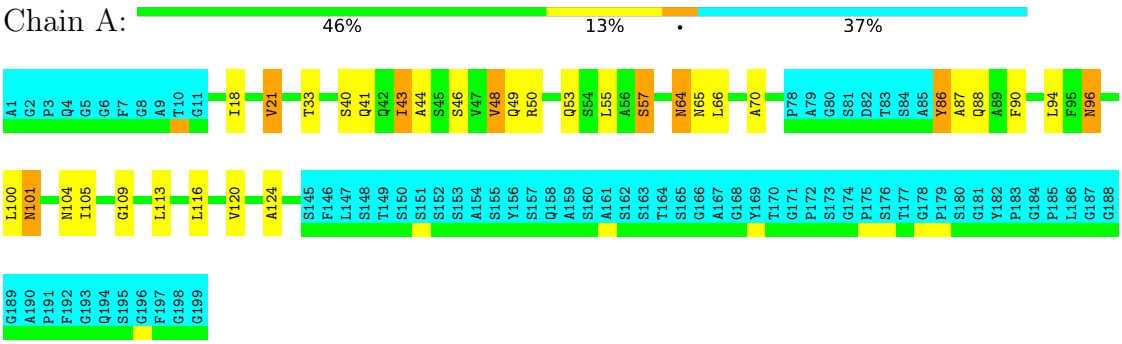
4.2.9 Score per residue for model 9

• Molecule 1: Aciniform spidroin 1



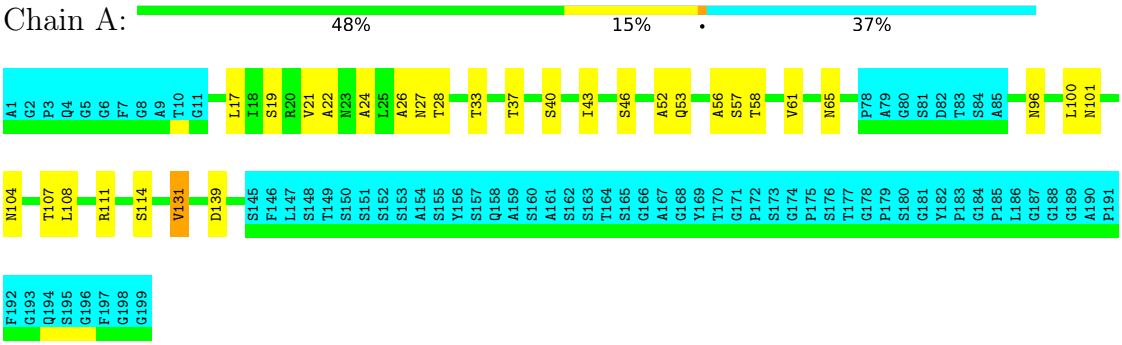
4.2.10 Score per residue for model 10

• Molecule 1: Aciniform spidroin 1



4.2.11 Score per residue for model 11

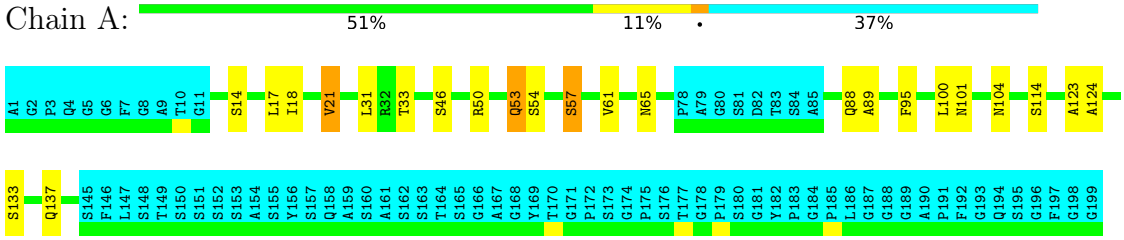
• Molecule 1: Aciniform spidroin 1



4.2.12 Score per residue for model 12

• Molecule 1: Aciniform spidroin 1

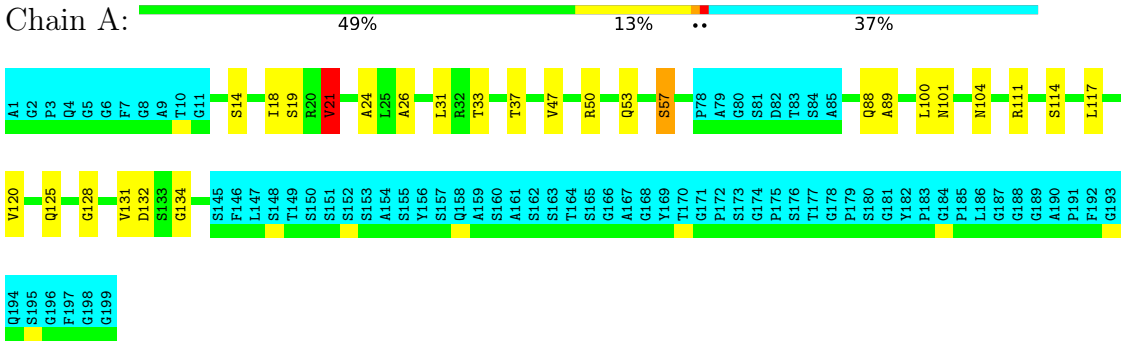
Chain A:



4.2.13 Score per residue for model 13

• Molecule 1: Aciniform spidroin 1

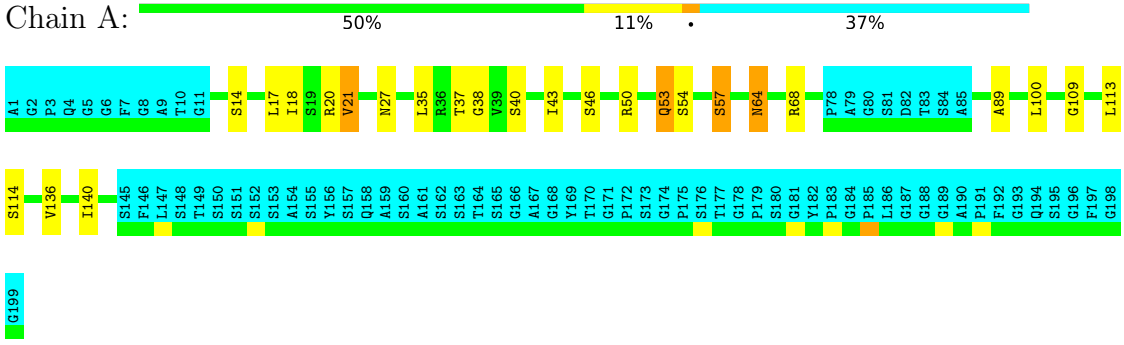
Chain A:



4.2.14 Score per residue for model 14

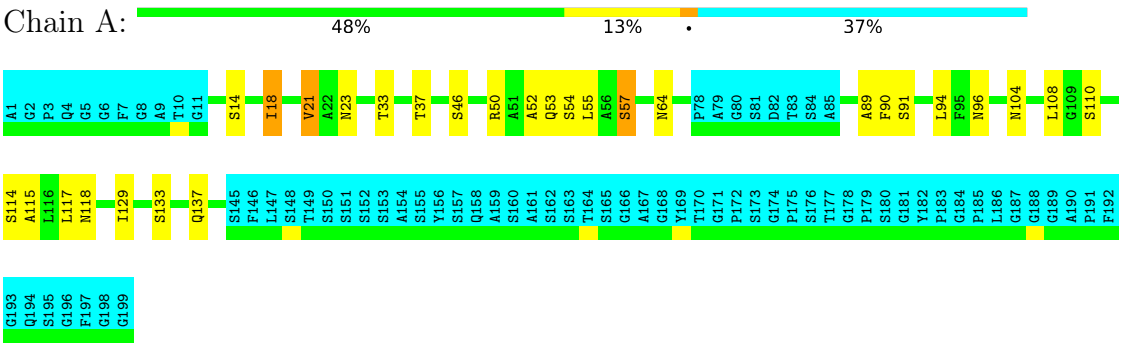
• Molecule 1: Aciniform spidroin 1

Chain A:



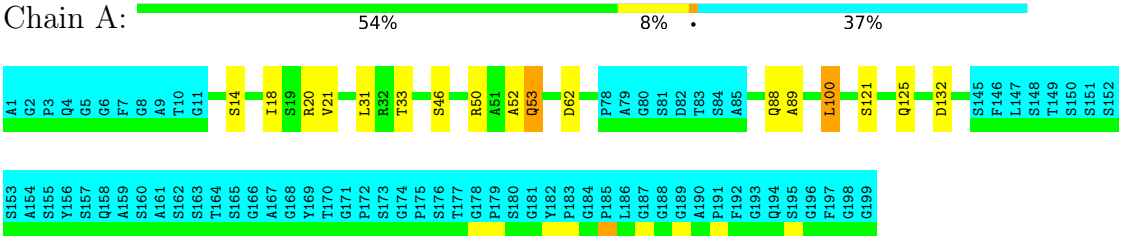
4.2.15 Score per residue for model 15

• Molecule 1: Aciniform spidroin 1



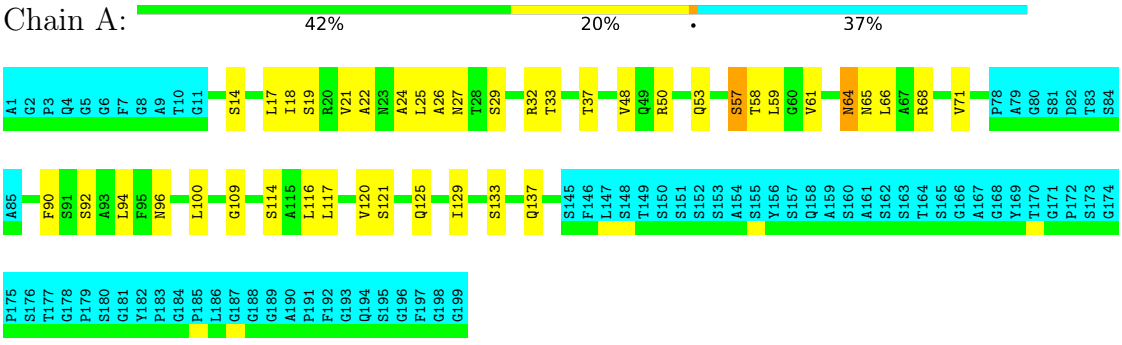
4.2.16 Score per residue for model 16

• Molecule 1: Aciniform spidroin 1



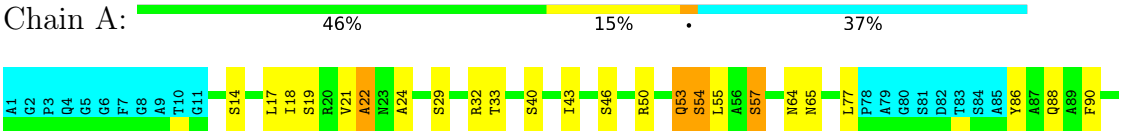
4.2.17 Score per residue for model 17

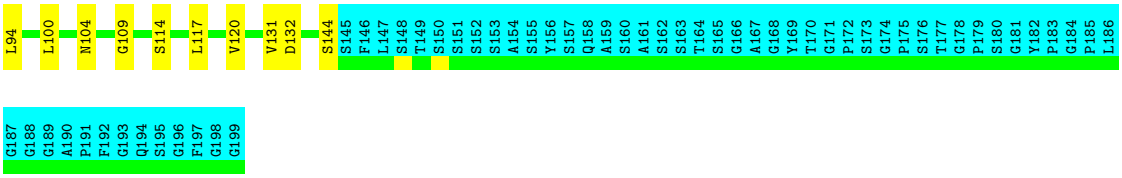
• Molecule 1: Aciniform spidroin 1



4.2.18 Score per residue for model 18 (medoid)

• Molecule 1: Aciniform spidroin 1

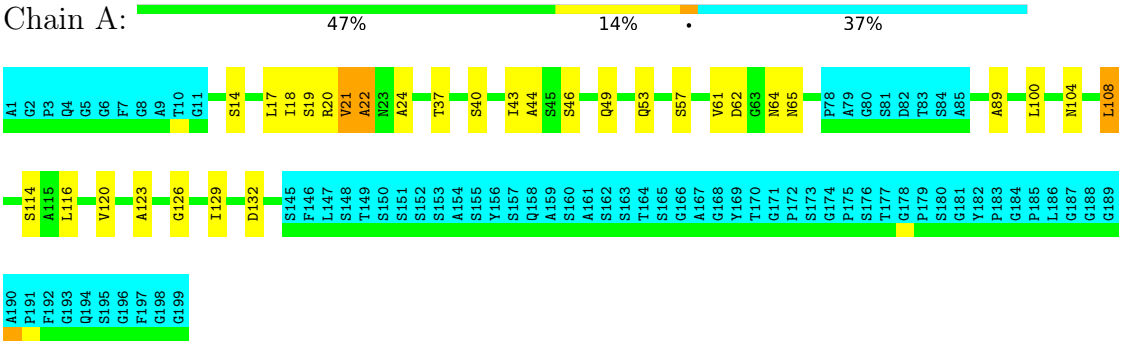




4.2.19 Score per residue for model 19

• Molecule 1: Aciniform spidroin 1

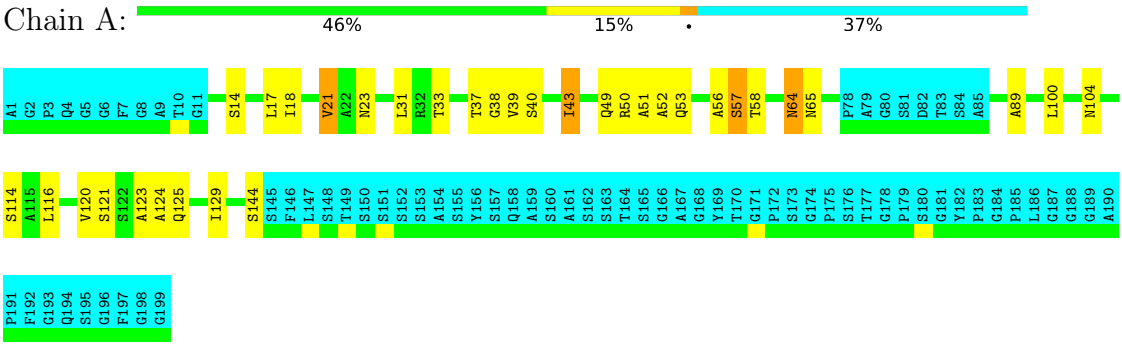
Chain A:



4.2.20 Score per residue for model 20

• Molecule 1: Aciniform spidroin 1

Chain A:



5 Refinement protocol and experimental data overview

The models were refined using the following method: *torsion angle dynamics*.

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
NMRPipe	refinement	1.0
NMRPipe	refinement	1.0
NMRPipe	refinement	1.0
NMRPipe	refinement	1.0
NMRPipe	refinement	1.0
NMRPipe	refinement	1.0
ARIA	refinement	2
ARIA	structure solution	2
X-PLOR NIH	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1997
Number of shifts mapped to atoms	1997
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	91%

6 Model quality

6.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.67±0.02	0±0/877 (0.0± 0.0%)	0.74±0.02	0±0/1193 (0.0± 0.0%)
All	All	0.67	2/17540 (0.0%)	0.74	0/23860 (0.0%)

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	132	ASP	C-N	-5.36	1.26	1.33	19	1
1	A	46	SER	C-N	-5.10	1.28	1.34	19	1

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

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	873	888	888	14±4
All	All	17460	17760	17760	288

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 8.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:52:ALA:HB2	1:A:129:ILE:HG23	0.66	1.67	6	3
1:A:61:VAL:HA	1:A:65:ASN:OD1	0.63	1.93	1	7
1:A:59:LEU:HD11	1:A:65:ASN:ND2	0.62	2.09	5	1
1:A:43:ILE:HG13	1:A:44:ALA:N	0.61	2.11	8	2
1:A:50:ARG:NH1	1:A:123:ALA:HA	0.61	2.10	12	1
1:A:53:GLN:HB3	1:A:61:VAL:O	0.60	1.96	7	1
1:A:53:GLN:O	1:A:57:SER:HB2	0.58	1.98	5	13
1:A:40:SER:HA	1:A:49:GLN:O	0.58	1.97	20	3
1:A:117:LEU:HA	1:A:120:VAL:HG22	0.57	1.75	13	1
1:A:38:GLY:HA3	1:A:129:ILE:HG21	0.57	1.76	6	1
1:A:21:VAL:HG11	1:A:100:LEU:HB3	0.57	1.77	12	4
1:A:17:LEU:O	1:A:21:VAL:HG23	0.56	2.01	2	14
1:A:100:LEU:HD23	1:A:100:LEU:H	0.56	1.60	5	2
1:A:53:GLN:CD	1:A:53:GLN:H	0.56	2.09	7	5
1:A:77:LEU:HB3	1:A:86:TYR:OH	0.55	2.01	18	1
1:A:100:LEU:H	1:A:100:LEU:HD23	0.55	1.60	6	5
1:A:53:GLN:H	1:A:53:GLN:CD	0.55	2.09	17	3
1:A:50:ARG:CZ	1:A:55:LEU:HD22	0.55	2.32	10	1
1:A:14:SER:O	1:A:18:ILE:HG23	0.54	2.02	18	18
1:A:18:ILE:HB	1:A:89:ALA:O	0.54	2.02	12	8
1:A:38:GLY:CA	1:A:129:ILE:HG21	0.54	2.32	6	1
1:A:39:VAL:O	1:A:50:ARG:HA	0.54	2.03	5	2
1:A:50:ARG:O	1:A:50:ARG:HG2	0.53	2.04	1	2
1:A:31:LEU:HD23	1:A:31:LEU:H	0.53	1.64	5	2
1:A:38:GLY:HA2	1:A:50:ARG:O	0.53	2.04	20	2
1:A:43:ILE:H	1:A:43:ILE:HD13	0.53	1.64	20	1
1:A:53:GLN:HG2	1:A:61:VAL:O	0.52	2.04	9	1
1:A:17:LEU:O	1:A:21:VAL:HG22	0.52	2.04	7	1
1:A:28:THR:HA	1:A:143:SER:OG	0.52	2.04	3	1
1:A:107:THR:O	1:A:111:ARG:HD2	0.52	2.05	6	1
1:A:19:SER:O	1:A:24:ALA:HB2	0.51	2.05	4	8
1:A:31:LEU:H	1:A:31:LEU:HD23	0.51	1.66	2	2
1:A:40:SER:O	1:A:43:ILE:HG13	0.51	2.06	4	6
1:A:31:LEU:HA	1:A:88:GLN:O	0.51	2.06	16	5
1:A:96:ASN:O	1:A:100:LEU:HD22	0.50	2.06	17	1
1:A:21:VAL:HG12	1:A:22:ALA:N	0.50	2.22	11	7
1:A:50:ARG:NH1	1:A:55:LEU:HD13	0.50	2.21	18	1
1:A:107:THR:O	1:A:111:ARG:HD3	0.50	2.07	11	2
1:A:49:GLN:OE1	1:A:58:THR:HB	0.49	2.06	20	1
1:A:115:ALA:HA	1:A:118:ASN:ND2	0.49	2.23	15	1
1:A:29:SER:HA	1:A:32:ARG:HB3	0.49	1.84	18	2
1:A:90:PHE:O	1:A:94:LEU:HG	0.49	2.07	10	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:94:LEU:O	1:A:120:VAL:HG11	0.49	2.08	3	3
1:A:74:VAL:O	1:A:77:LEU:HD22	0.49	2.07	9	1
1:A:101:ASN:O	1:A:104:ASN:HB3	0.48	2.08	1	3
1:A:43:ILE:HD11	1:A:86:TYR:CD1	0.48	2.42	10	1
1:A:116:LEU:O	1:A:120:VAL:HG23	0.48	2.08	20	6
1:A:53:GLN:NE2	1:A:53:GLN:H	0.48	2.06	5	2
1:A:86:TYR:HD1	1:A:87:ALA:N	0.48	2.06	10	1
1:A:20:ARG:N	1:A:20:ARG:HD2	0.48	2.23	1	1
1:A:48:VAL:HG22	1:A:70:ALA:HB1	0.48	1.85	10	1
1:A:21:VAL:HG13	1:A:100:LEU:HB3	0.48	1.85	19	3
1:A:68:ARG:HA	1:A:72:GLN:NE2	0.48	2.24	1	1
1:A:133:SER:HA	1:A:137:GLN:CB	0.48	2.39	1	3
1:A:50:ARG:NH2	1:A:54:SER:HB3	0.48	2.24	7	1
1:A:35:LEU:HA	1:A:88:GLN:CD	0.47	2.34	2	1
1:A:51:ALA:HB3	1:A:131:VAL:HG12	0.47	1.87	9	1
1:A:104:ASN:O	1:A:108:LEU:HG	0.47	2.09	8	3
1:A:21:VAL:HG11	1:A:100:LEU:CB	0.47	2.40	20	6
1:A:43:ILE:HG13	1:A:44:ALA:H	0.47	1.68	5	1
1:A:23:ASN:HB3	1:A:31:LEU:HD22	0.47	1.87	20	3
1:A:64:ASN:HA	1:A:68:ARG:NH2	0.46	2.25	14	1
1:A:64:ASN:CG	1:A:65:ASN:H	0.46	2.19	2	5
1:A:136:VAL:O	1:A:140:ILE:HG12	0.46	2.11	3	2
1:A:23:ASN:HB2	1:A:92:SER:OG	0.46	2.10	4	1
1:A:133:SER:HA	1:A:137:GLN:HB3	0.46	1.88	4	3
1:A:74:VAL:O	1:A:77:LEU:HG	0.46	2.10	5	1
1:A:37:THR:HB	1:A:129:ILE:O	0.46	2.11	19	1
1:A:120:VAL:HG13	1:A:124:ALA:HB3	0.46	1.88	10	3
1:A:21:VAL:HG12	1:A:22:ALA:H	0.45	1.70	2	2
1:A:131:VAL:CG2	1:A:136:VAL:HG11	0.45	2.42	9	1
1:A:43:ILE:C	1:A:43:ILE:HD13	0.45	2.36	10	1
1:A:109:GLY:O	1:A:113:LEU:HB2	0.44	2.12	14	3
1:A:74:VAL:O	1:A:77:LEU:HD12	0.44	2.12	3	1
1:A:39:VAL:HG23	1:A:43:ILE:HD11	0.44	1.90	20	1
1:A:67:ALA:HA	1:A:133:SER:O	0.44	2.13	9	1
1:A:50:ARG:CZ	1:A:55:LEU:HG	0.44	2.42	6	1
1:A:104:ASN:O	1:A:108:LEU:HD23	0.44	2.13	6	1
1:A:43:ILE:HD12	1:A:44:ALA:N	0.44	2.27	19	2
1:A:52:ALA:CB	1:A:129:ILE:HG23	0.44	2.43	9	1
1:A:18:ILE:HD12	1:A:89:ALA:O	0.43	2.12	19	1
1:A:50:ARG:H	1:A:56:ALA:HB2	0.43	1.72	9	1
1:A:50:ARG:HB2	1:A:55:LEU:HB2	0.43	1.88	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:123:ALA:C	1:A:129:ILE:HD13	0.43	2.38	20	1
1:A:110:SER:O	1:A:114:SER:HA	0.43	2.12	1	1
1:A:110:SER:HA	1:A:117:LEU:HD12	0.43	1.89	15	1
1:A:77:LEU:HD13	1:A:86:TYR:CE2	0.43	2.48	8	1
1:A:41:GLN:HA	1:A:44:ALA:HB3	0.43	1.90	10	1
1:A:49:GLN:HB2	1:A:56:ALA:HA	0.43	1.90	8	2
1:A:109:GLY:CA	1:A:117:LEU:HD12	0.43	2.43	3	2
1:A:27:ASN:HA	1:A:32:ARG:NH2	0.43	2.29	8	1
1:A:72:GLN:O	1:A:76:ARG:HG3	0.43	2.14	1	1
1:A:23:ASN:HB2	1:A:92:SER:CB	0.42	2.44	7	1
1:A:95:PHE:O	1:A:124:ALA:HB1	0.42	2.14	12	1
1:A:36:ARG:HB3	1:A:91:SER:OG	0.42	2.15	5	1
1:A:43:ILE:HD13	1:A:44:ALA:N	0.42	2.28	10	1
1:A:35:LEU:H	1:A:35:LEU:HD23	0.42	1.74	14	1
1:A:58:THR:HG23	1:A:59:LEU:HG	0.42	1.91	17	1
1:A:66:LEU:O	1:A:71:VAL:HG23	0.42	2.14	17	1
1:A:21:VAL:CG1	1:A:22:ALA:N	0.42	2.83	11	1
1:A:50:ARG:HE	1:A:129:ILE:HG13	0.42	1.75	17	1
1:A:41:GLN:HB3	1:A:49:GLN:HA	0.42	1.91	3	3
1:A:72:GLN:O	1:A:76:ARG:HG2	0.42	2.14	8	1
1:A:50:ARG:HG2	1:A:50:ARG:O	0.42	2.15	16	1
1:A:23:ASN:OD1	1:A:91:SER:HB3	0.41	2.14	15	1
1:A:86:TYR:C	1:A:88:GLN:H	0.41	2.23	18	1
1:A:117:LEU:O	1:A:121:SER:HB2	0.41	2.15	4	1
1:A:50:ARG:HH21	1:A:124:ALA:HB2	0.41	1.76	20	1
1:A:26:ALA:C	1:A:28:THR:H	0.41	2.23	11	2
1:A:50:ARG:HD2	1:A:123:ALA:CB	0.41	2.46	4	1
1:A:71:VAL:CG2	1:A:133:SER:HB2	0.41	2.45	7	1
1:A:101:ASN:ND2	1:A:104:ASN:HB3	0.41	2.31	10	1
1:A:131:VAL:HG12	1:A:132:ASP:H	0.41	1.76	18	1
1:A:21:VAL:HB	1:A:92:SER:HB3	0.41	1.91	17	1
1:A:121:SER:O	1:A:125:GLN:HB3	0.41	2.15	20	1
1:A:131:VAL:HG12	1:A:132:ASP:N	0.41	2.30	4	4
1:A:109:GLY:C	1:A:117:LEU:HD12	0.41	2.40	18	2
1:A:66:LEU:O	1:A:70:ALA:HB3	0.41	2.15	10	1
1:A:14:SER:OG	1:A:108:LEU:HD21	0.41	2.15	19	1
1:A:68:ARG:N	1:A:68:ARG:HD2	0.41	2.31	17	1
1:A:55:LEU:O	1:A:55:LEU:HD23	0.40	2.15	1	1
1:A:52:ALA:CB	1:A:129:ILE:HG13	0.40	2.46	20	1
1:A:56:ALA:O	1:A:58:THR:N	0.40	2.53	11	1
1:A:136:VAL:HG13	1:A:137:GLN:N	0.40	2.31	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:50:ARG:HD3	1:A:55:LEU:HB3	0.40	1.92	4	1
1:A:121:SER:HA	1:A:125:GLN:HB3	0.40	1.94	16	2
1:A:61:VAL:HG22	1:A:65:ASN:ND2	0.40	2.31	19	1
1:A:104:ASN:O	1:A:108:LEU:HD13	0.40	2.16	19	1
1:A:51:ALA:N	1:A:56:ALA:HB2	0.40	2.31	20	1
1:A:96:ASN:ND2	1:A:105:ILE:HG12	0.40	2.31	10	1
1:A:21:VAL:CG1	1:A:100:LEU:HB3	0.40	2.46	11	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	125/199 (63%)	96±3 (77±2%)	23±3 (18±3%)	6±2 (5±1%)	3	25
All	All	2500/3980 (63%)	1926 (77%)	454 (18%)	120 (5%)	3	25

All 23 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	33	THR	17
1	A	114	SER	14
1	A	46	SER	13
1	A	57	SER	13
1	A	21	VAL	13
1	A	64	ASN	10
1	A	22	ALA	6
1	A	62	ASP	5
1	A	96	ASN	4
1	A	27	ASN	4
1	A	54	SER	4
1	A	58	THR	2
1	A	18	ILE	2
1	A	48	VAL	2
1	A	52	ALA	2

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Mol	Chain	Res	Type	Models (Total)
1	A	53	GLN	2
1	A	86	TYR	1
1	A	131	VAL	1
1	A	47	VAL	1
1	A	128	GLY	1
1	A	134	GLY	1
1	A	123	ALA	1
1	A	126	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	94/139 (68%)	91±1 (97±1%)	3±1 (3±1%)	37 85
All	All	1880/2780 (68%)	1824 (97%)	56 (3%)	37 85

All 25 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	53	GLN	8
1	A	37	THR	8
1	A	104	ASN	5
1	A	108	LEU	4
1	A	21	VAL	4
1	A	23	ASN	3
1	A	27	ASN	3
1	A	28	THR	2
1	A	113	LEU	2
1	A	43	ILE	2
1	A	20	ARG	1
1	A	41	GLN	1
1	A	77	LEU	1
1	A	55	LEU	1
1	A	86	TYR	1
1	A	88	GLN	1
1	A	101	ASN	1

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Mol	Chain	Res	Type	Models (Total)
1	A	131	VAL	1
1	A	139	ASP	1
1	A	111	ARG	1
1	A	125	GLN	1
1	A	100	LEU	1
1	A	132	ASP	1
1	A	25	LEU	1
1	A	54	SER	1

6.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.6 Ligand geometry (i)

There are no ligands in this entry.

6.7 Other polymers (i)

There are no such molecules in this entry.

6.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 91% for the well-defined parts and 88% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list*

7.1.1 Bookkeeping

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	1997
Number of shifts mapped to atoms	1997
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	198	-0.39 ± 0.05	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	164	0.13 ± 0.03	None needed (< 0.5 ppm)
$^{13}C'$	196	-0.23 ± 0.07	None needed (< 0.5 ppm)
^{15}N	187	0.22 ± 0.18	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 91%, i.e. 1414 atoms were assigned a chemical shift out of a possible 1547. 0 out of 28 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	632/636 (99%)	259/261 (99%)	249/250 (100%)	124/125 (99%)
Sidechain	782/872 (90%)	539/578 (93%)	222/256 (87%)	21/38 (55%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	0/39 (0%)	0/19 (0%)	0/20 (0%)	0/0 (—%)
Overall	1414/1547 (91%)	798/858 (93%)	471/526 (90%)	145/163 (89%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 88%, i.e. 1995 atoms were assigned a chemical shift out of a possible 2267. 0 out of 30 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	993/1010 (98%)	412/421 (98%)	394/398 (99%)	187/191 (98%)
Sidechain	1002/1151 (87%)	686/765 (90%)	295/345 (86%)	21/41 (51%)
Aromatic	0/106 (0%)	0/51 (0%)	0/55 (0%)	0/0 (—%)
Overall	1995/2267 (88%)	1098/1237 (89%)	689/798 (86%)	208/232 (90%)

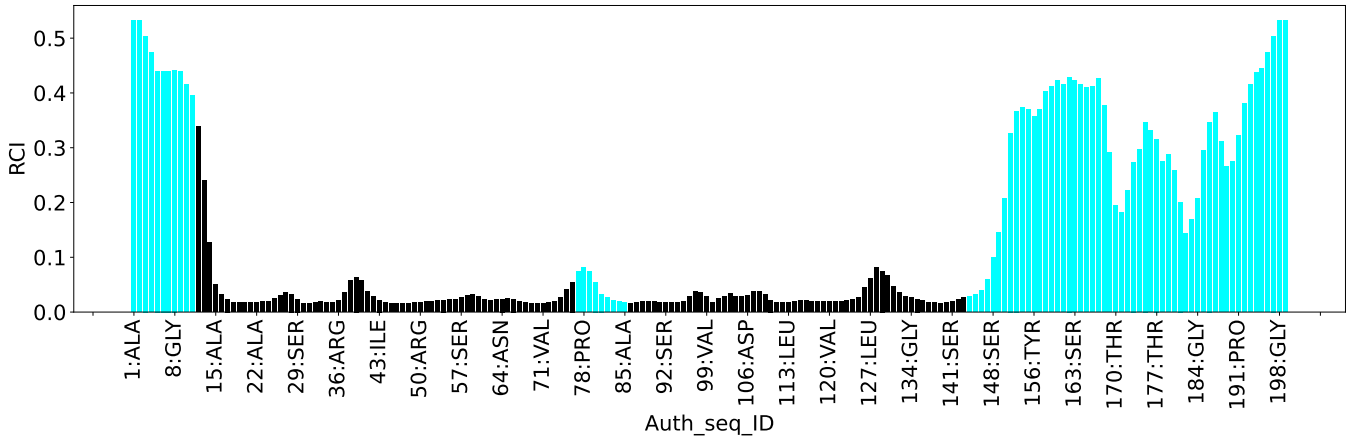
7.1.4 Statistically unusual chemical shifts (i)

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots (i)

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	3913
Intra-residue (|i-j|=0)	1520
Sequential (|i-j|=1)	1068
Medium range (|i-j|>1 and |i-j|<5)	664
Long range (|i-j|≥5)	661
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	201
Number of unmapped restraints	0
Number of restraints per residue	20.7
Number of long range restraints per residue[1]	3.3

[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)	61.6	0.2
0.2-0.5 (Medium)	74.5	0.5
>0.5 (Large)	91.5	2.95

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)	21.6	7.81
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis (i)

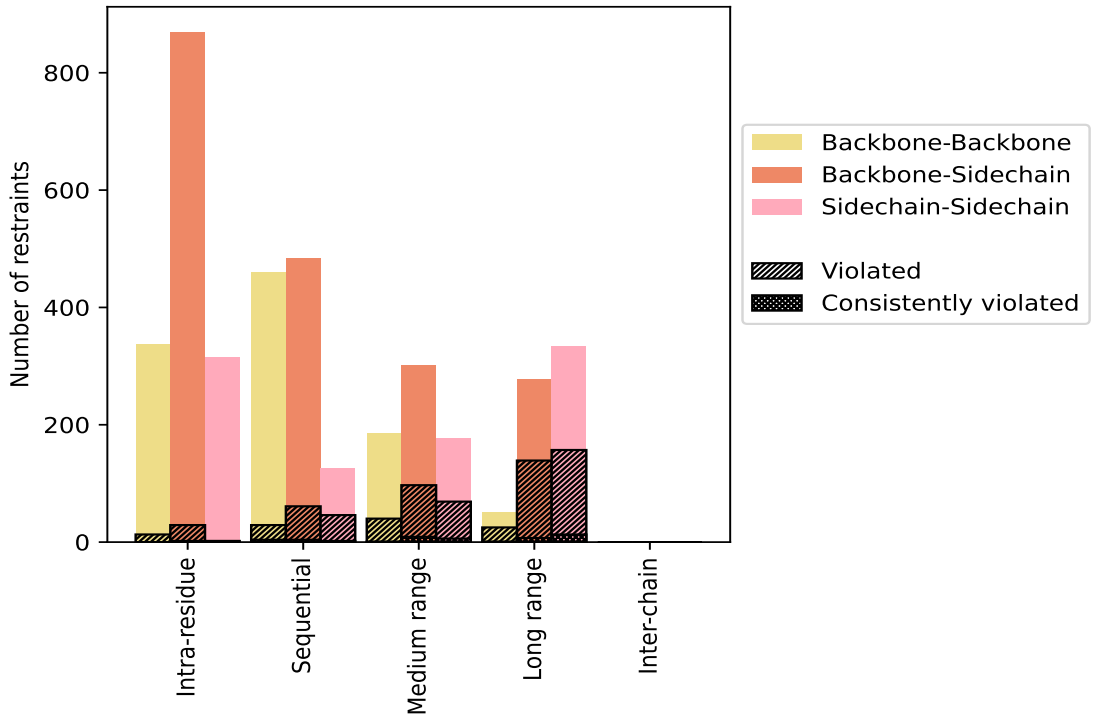
9.1 Summary of distance violations (i)

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

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	1520	38.8	44	2.9	1.1	2	0.1	0.1
Backbone-Backbone	337	8.6	13	3.9	0.3	0	0.0	0.0
Backbone-Sidechain	869	22.2	29	3.3	0.7	2	0.2	0.1
Sidechain-Sidechain	314	8.0	2	0.6	0.1	0	0.0	0.0
Sequential (|i-j|=1)	1068	27.3	136	12.7	3.5	10	0.9	0.3
Backbone-Backbone	460	11.8	29	6.3	0.7	4	0.9	0.1
Backbone-Sidechain	483	12.3	61	12.6	1.6	4	0.8	0.1
Sidechain-Sidechain	125	3.2	46	36.8	1.2	2	1.6	0.1
Medium range (|i-j|>1 & |i-j|<5)	664	17.0	206	31.0	5.3	16	2.4	0.4
Backbone-Backbone	186	4.8	40	21.5	1.0	1	0.5	0.0
Backbone-Sidechain	302	7.7	97	32.1	2.5	9	3.0	0.2
Sidechain-Sidechain	176	4.5	69	39.2	1.8	6	3.4	0.2
Long range (|i-j|≥5)	661	16.9	321	48.6	8.2	21	3.2	0.5
Backbone-Backbone	51	1.3	25	49.0	0.6	1	2.0	0.0
Backbone-Sidechain	277	7.1	139	50.2	3.6	7	2.5	0.2
Sidechain-Sidechain	333	8.5	157	47.1	4.0	13	3.9	0.3
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	3913	100.0	707	18.1	18.1	49	1.3	1.3
Backbone-Backbone	1034	26.4	107	10.3	2.7	6	0.6	0.2
Backbone-Sidechain	1931	49.3	326	16.9	8.3	22	1.1	0.6
Sidechain-Sidechain	948	24.2	274	28.9	7.0	21	2.2	0.5

[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	12	56	92	78	0	238	0.5	2.38	0.45	0.34
2	15	56	74	84	0	229	0.55	2.7	0.47	0.38
3	11	52	81	82	0	226	0.56	2.53	0.47	0.39
4	15	64	70	81	0	230	0.55	2.53	0.49	0.37
5	16	64	74	91	0	245	0.53	2.75	0.49	0.36
6	14	53	78	93	0	238	0.52	2.35	0.45	0.36
7	17	60	75	90	0	242	0.51	2.95	0.46	0.36
8	10	61	79	91	0	241	0.52	2.52	0.47	0.36
9	15	60	76	91	0	242	0.52	2.74	0.48	0.37
10	16	61	76	100	0	253	0.54	2.67	0.47	0.39

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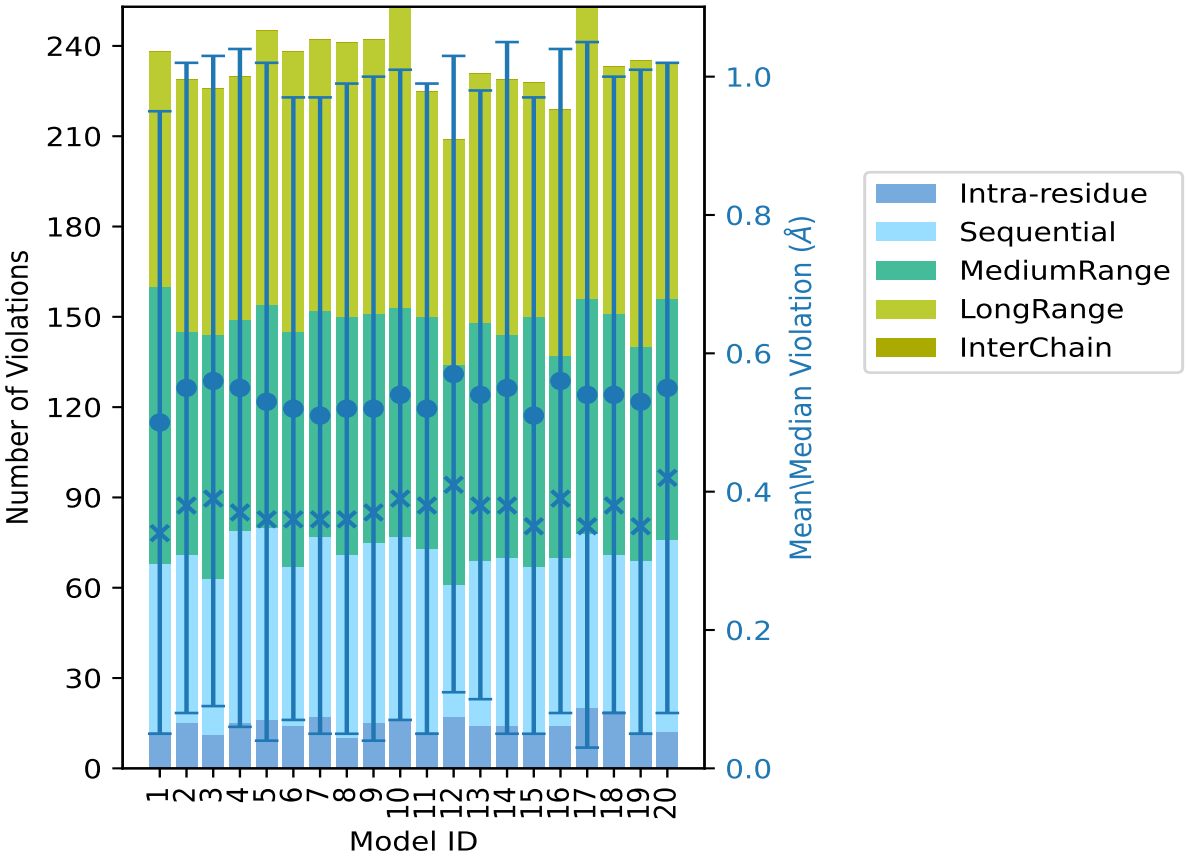
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
11	12	61	77	75	0	225	0.52	2.47	0.47	0.38
12	17	44	73	75	0	209	0.57	2.37	0.46	0.41
13	14	55	79	83	0	231	0.54	2.83	0.44	0.38
14	14	56	74	85	0	229	0.55	2.53	0.5	0.38
15	11	56	83	78	0	228	0.51	2.58	0.46	0.35
16	14	56	67	82	0	219	0.56	2.34	0.48	0.39
17	20	58	78	97	0	253	0.54	2.91	0.51	0.35
18	19	52	80	82	0	233	0.54	2.91	0.46	0.38
19	12	57	71	95	0	235	0.53	2.5	0.48	0.35
20	12	64	80	78	0	234	0.55	2.69	0.47	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

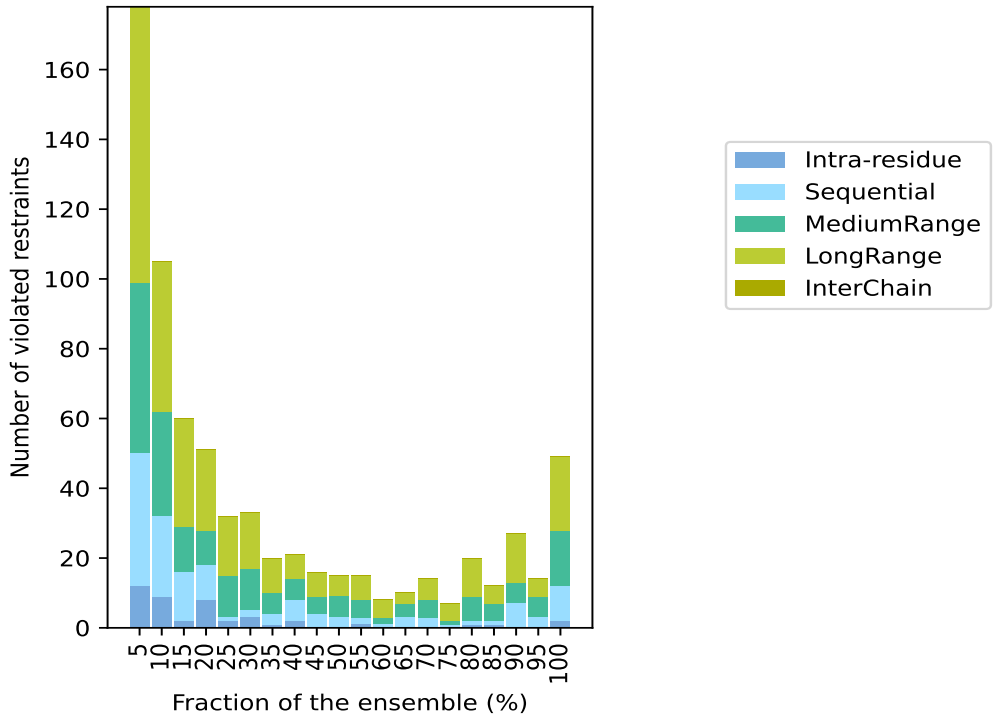
9.3 Distance violation statistics for the ensemble (i)

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, 3206(IR:1476, SQ:932, MR:458, LR:340, 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]	%
12	38	49	79	0	178	1	5.0
9	23	30	43	0	105	2	10.0
2	14	13	31	0	60	3	15.0
8	10	10	23	0	51	4	20.0
2	1	12	17	0	32	5	25.0
3	2	12	16	0	33	6	30.0
1	3	6	10	0	20	7	35.0
2	6	6	7	0	21	8	40.0
0	4	5	7	0	16	9	45.0
0	3	6	6	0	15	10	50.0
1	2	5	7	0	15	11	55.0
0	1	2	5	0	8	12	60.0
0	3	4	3	0	10	13	65.0
0	3	5	6	0	14	14	70.0
0	1	1	5	0	7	15	75.0
1	1	7	11	0	20	16	80.0
1	1	5	5	0	12	17	85.0
0	7	6	14	0	27	18	90.0
0	3	6	5	0	14	19	95.0
2	10	16	21	0	49	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

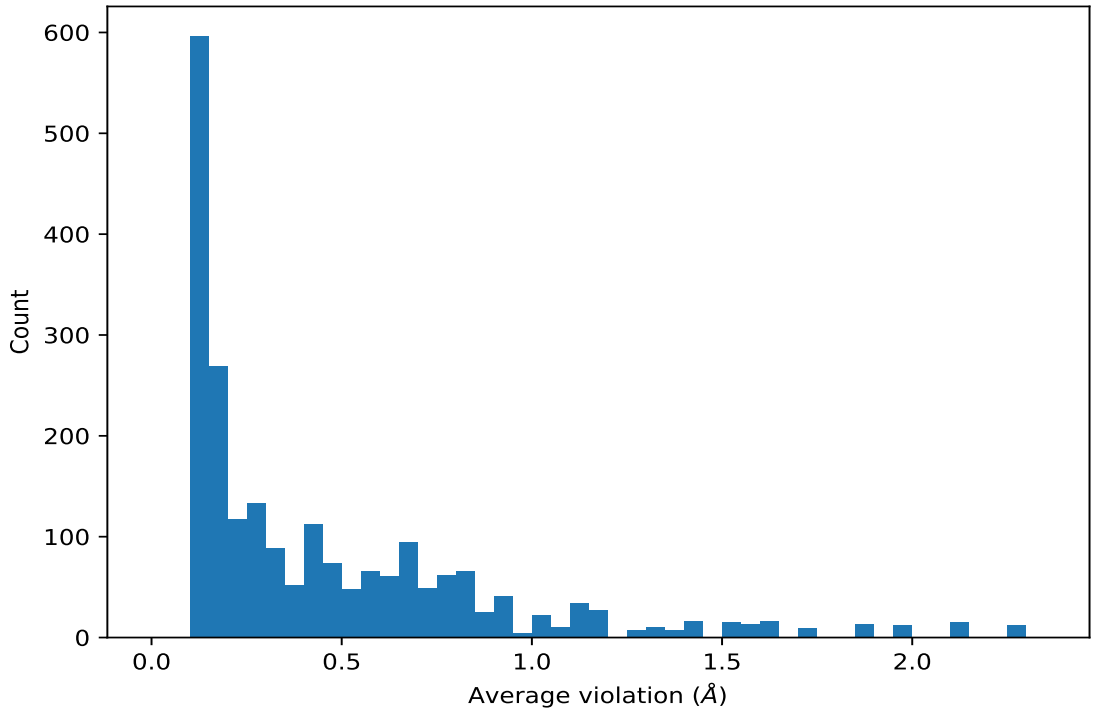
9.3.1 Bar graph : Distance violation statistics for the ensemble



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)
(1,3754)	1:23:A:ASN:HD21	1:17:A:LEU:HD12	20	2.28	0.18	2.26
(1,3754)	1:90:A:PHE:HE2	1:17:A:LEU:HD13	20	2.28	0.18	2.26
(1,3754)	1:90:A:PHE:HE1	1:17:A:LEU:HD11	20	2.28	0.18	2.26
(1,3754)	1:96:A:ASN:HD22	1:17:A:LEU:HD13	20	2.28	0.18	2.26
(1,3754)	1:90:A:PHE:HE2	1:17:A:LEU:HD12	20	2.28	0.18	2.26
(1,3754)	1:90:A:PHE:HE1	1:17:A:LEU:HD12	20	2.28	0.18	2.26
(1,3754)	1:96:A:ASN:HD21	1:17:A:LEU:HD11	20	2.28	0.18	2.26
(1,3754)	1:23:A:ASN:HD21	1:17:A:LEU:HD11	20	2.28	0.18	2.26
(1,3754)	1:96:A:ASN:HD21	1:17:A:LEU:HD12	20	2.28	0.18	2.26
(1,3754)	1:96:A:ASN:HD21	1:17:A:LEU:HD13	20	2.28	0.18	2.26
(1,3754)	1:90:A:PHE:HE2	1:17:A:LEU:HD11	20	2.28	0.18	2.26
(1,3754)	1:90:A:PHE:HE1	1:17:A:LEU:HD13	20	2.28	0.18	2.26
(1,3275)	1:55:A:LEU:HD12	1:121:A:SER:HB2	20	2.12	0.59	2.32
(1,3275)	1:55:A:LEU:HD13	1:121:A:SER:HB2	20	2.12	0.59	2.32
(1,3275)	1:55:A:LEU:HD11	1:121:A:SER:HB3	20	2.12	0.59	2.32
(1,3275)	1:55:A:LEU:HD22	1:121:A:SER:HB3	20	2.12	0.59	2.32

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3275)	1:55:A:LEU:HD23	1:121:A:SER:HB3	20	2.12	0.59	2.32
(1,3275)	1:55:A:LEU:HD21	1:121:A:SER:HB3	20	2.12	0.59	2.32
(1,3275)	1:55:A:LEU:HD21	1:121:A:SER:HB2	20	2.12	0.59	2.32
(1,3275)	1:113:A:LEU:HD22	1:121:A:SER:HB2	20	2.12	0.59	2.32
(1,3275)	1:55:A:LEU:HD11	1:121:A:SER:HB2	20	2.12	0.59	2.32
(1,3275)	1:55:A:LEU:HD12	1:121:A:SER:HB3	20	2.12	0.59	2.32
(1,3275)	1:55:A:LEU:HD22	1:121:A:SER:HB2	20	2.12	0.59	2.32
(1,3275)	1:113:A:LEU:HD12	1:121:A:SER:HB3	20	2.12	0.59	2.32
(1,3275)	1:55:A:LEU:HD23	1:121:A:SER:HB2	20	2.12	0.59	2.32
(1,3275)	1:113:A:LEU:HD22	1:121:A:SER:HB3	20	2.12	0.59	2.32
(1,3275)	1:113:A:LEU:HD13	1:121:A:SER:HB3	20	2.12	0.59	2.32
(1,3644)	1:113:A:LEU:HD23	1:17:A:LEU:HD13	20	1.9	0.52	1.96
(1,3644)	1:113:A:LEU:HD13	1:17:A:LEU:HD11	20	1.9	0.52	1.96
(1,3644)	1:113:A:LEU:HD23	1:17:A:LEU:HD11	20	1.9	0.52	1.96
(1,3644)	1:113:A:LEU:HD22	1:17:A:LEU:HD13	20	1.9	0.52	1.96
(1,3644)	1:113:A:LEU:HD12	1:17:A:LEU:HD13	20	1.9	0.52	1.96
(1,3644)	1:113:A:LEU:HD11	1:17:A:LEU:HD13	20	1.9	0.52	1.96
(1,3644)	1:113:A:LEU:HD21	1:17:A:LEU:HD11	20	1.9	0.52	1.96
(1,3644)	1:113:A:LEU:HD23	1:17:A:LEU:HD12	20	1.9	0.52	1.96
(1,3644)	1:113:A:LEU:HD12	1:17:A:LEU:HD22	20	1.9	0.52	1.96
(1,3644)	1:113:A:LEU:HD12	1:17:A:LEU:HD12	20	1.9	0.52	1.96
(1,3644)	1:113:A:LEU:HD21	1:17:A:LEU:HD13	20	1.9	0.52	1.96
(1,3644)	1:113:A:LEU:HD13	1:17:A:LEU:HD12	20	1.9	0.52	1.96
(1,3644)	1:113:A:LEU:HD11	1:17:A:LEU:HD11	20	1.9	0.52	1.96
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD21	20	1.61	0.08	1.65
(1,3602)	1:36:A:ARG:HA	1:94:A:LEU:HD13	20	1.61	0.08	1.65
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD13	20	1.61	0.08	1.65
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD22	20	1.61	0.08	1.65
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD12	20	1.61	0.08	1.65
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD23	20	1.61	0.08	1.65
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD11	20	1.61	0.08	1.65
(1,3687)	1:89:A:ALA:HB1	1:87:A:ALA:HB3	20	1.58	0.34	1.65
(1,3687)	1:89:A:ALA:HB3	1:87:A:ALA:HB2	20	1.58	0.34	1.65
(1,3687)	1:89:A:ALA:HB3	1:87:A:ALA:HB3	20	1.58	0.34	1.65
(1,3687)	1:89:A:ALA:HB2	1:87:A:ALA:HB3	20	1.58	0.34	1.65
(1,3687)	1:89:A:ALA:HB2	1:87:A:ALA:HB2	20	1.58	0.34	1.65
(1,3687)	1:89:A:ALA:HB1	1:87:A:ALA:HB2	20	1.58	0.34	1.65
(1,3687)	1:89:A:ALA:HB2	1:87:A:ALA:HB1	20	1.58	0.34	1.65
(1,3687)	1:89:A:ALA:HB3	1:87:A:ALA:HB1	20	1.58	0.34	1.65
(1,3687)	1:89:A:ALA:HB1	1:87:A:ALA:HB1	20	1.58	0.34	1.65
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD12	20	1.58	0.21	1.6
(1,3493)	1:23:A:ASN:HB3	1:18:A:ILE:HD12	20	1.58	0.21	1.6

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD13	20	1.58	0.21	1.6
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD11	20	1.58	0.21	1.6
(1,3761)	1:112:A:VAL:HG21	1:13:A:ALA:HB2	20	1.54	0.56	1.69
(1,3761)	1:112:A:VAL:HG22	1:13:A:ALA:HB1	20	1.54	0.56	1.69
(1,3761)	1:112:A:VAL:HG22	1:13:A:ALA:HB3	20	1.54	0.56	1.69
(1,3761)	1:112:A:VAL:HG23	1:13:A:ALA:HB2	20	1.54	0.56	1.69
(1,3761)	1:112:A:VAL:HG22	1:13:A:ALA:HB2	20	1.54	0.56	1.69
(1,3761)	1:112:A:VAL:HG23	1:13:A:ALA:HB1	20	1.54	0.56	1.69
(1,3761)	1:112:A:VAL:HG21	1:13:A:ALA:HB3	20	1.54	0.56	1.69
(1,3761)	1:112:A:VAL:HG21	1:13:A:ALA:HB1	20	1.54	0.56	1.69
(1,3572)	1:85:A:ALA:HB3	1:80:A:GLY:HA3	20	1.5	0.51	1.61
(1,3572)	1:85:A:ALA:HB2	1:80:A:GLY:HA3	20	1.5	0.51	1.61
(1,3572)	1:85:A:ALA:HB1	1:80:A:GLY:HA2	20	1.5	0.51	1.61
(1,3572)	1:85:A:ALA:HB1	1:80:A:GLY:HA3	20	1.5	0.51	1.61
(1,3572)	1:85:A:ALA:HB2	1:80:A:GLY:HA2	20	1.5	0.51	1.61
(1,3572)	1:85:A:ALA:HB2	1:88:A:GLN:HA	20	1.5	0.51	1.61
(1,3572)	1:85:A:ALA:HB3	1:80:A:GLY:HA2	20	1.5	0.51	1.61
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG13	20	1.43	0.25	1.41
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG12	20	1.43	0.25	1.41
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG11	20	1.43	0.25	1.41
(1,1145)	1:127:A:LEU:H	1:129:A:ILE:HG23	20	1.43	0.25	1.41
(1,1145)	1:127:A:LEU:H	1:129:A:ILE:HG22	20	1.43	0.25	1.41
(1,3220)	1:9:A:ALA:HB1	1:117:A:LEU:HD21	20	1.42	0.61	1.41
(1,3220)	1:9:A:ALA:HB2	1:117:A:LEU:HD23	20	1.42	0.61	1.41
(1,3220)	1:9:A:ALA:HB2	1:117:A:LEU:HD21	20	1.42	0.61	1.41
(1,3220)	1:9:A:ALA:HB3	1:117:A:LEU:HD21	20	1.42	0.61	1.41
(1,3220)	1:9:A:ALA:HB3	1:117:A:LEU:HD22	20	1.42	0.61	1.41
(1,3220)	1:9:A:ALA:HB2	1:117:A:LEU:HD22	20	1.42	0.61	1.41
(1,3220)	1:9:A:ALA:HB1	1:117:A:LEU:HD22	20	1.42	0.61	1.41
(1,3220)	1:9:A:ALA:HB2	1:117:A:LEU:HD13	20	1.42	0.61	1.41
(1,3220)	1:9:A:ALA:HB1	1:117:A:LEU:HD23	20	1.42	0.61	1.41
(1,3220)	1:9:A:ALA:HB2	1:117:A:LEU:HD11	20	1.42	0.61	1.41
(1,3220)	1:9:A:ALA:HB3	1:117:A:LEU:HD23	20	1.42	0.61	1.41
(1,3511)	1:96:A:ASN:HD22	1:17:A:LEU:HD13	20	1.32	0.21	1.28
(1,3511)	1:90:A:PHE:HE2	1:17:A:LEU:HD13	20	1.32	0.21	1.28
(1,3511)	1:90:A:PHE:HE1	1:17:A:LEU:HD11	20	1.32	0.21	1.28
(1,3511)	1:90:A:PHE:HE2	1:17:A:LEU:HD12	20	1.32	0.21	1.28
(1,3511)	1:90:A:PHE:HE1	1:17:A:LEU:HD12	20	1.32	0.21	1.28
(1,3511)	1:96:A:ASN:HD21	1:17:A:LEU:HD11	20	1.32	0.21	1.28
(1,3511)	1:96:A:ASN:HD21	1:17:A:LEU:HD12	20	1.32	0.21	1.28
(1,3511)	1:96:A:ASN:HD21	1:17:A:LEU:HD13	20	1.32	0.21	1.28
(1,3511)	1:90:A:PHE:HE2	1:17:A:LEU:HD11	20	1.32	0.21	1.28

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3511)	1:90:A:PHE:HE1	1:17:A:LEU:HD13	20	1.32	0.21	1.28
(1,3753)	1:15:A:ALA:HB2	1:18:A:ILE:HG22	20	1.16	0.22	1.22
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG22	20	1.16	0.22	1.22
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG23	20	1.16	0.22	1.22
(1,3753)	1:15:A:ALA:HB2	1:18:A:ILE:HG21	20	1.16	0.22	1.22
(1,3753)	1:15:A:ALA:HB2	1:18:A:ILE:HG23	20	1.16	0.22	1.22
(1,3753)	1:15:A:ALA:HB1	1:18:A:ILE:HG23	20	1.16	0.22	1.22
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG21	20	1.16	0.22	1.22
(1,3906)	1:30:A:THR:HG22	1:95:A:PHE:HE1	20	1.11	0.29	1.14
(1,3906)	1:30:A:THR:HG21	1:95:A:PHE:HE1	20	1.11	0.29	1.14
(1,3906)	1:30:A:THR:HG23	1:95:A:PHE:HE1	20	1.11	0.29	1.14
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB2	20	0.98	0.34	0.96
(1,3586)	1:86:A:TYR:HB2	1:77:A:LEU:HD21	20	0.98	0.34	0.96
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB3	20	0.98	0.34	0.96
(1,3586)	1:86:A:TYR:HB3	1:77:A:LEU:HD22	20	0.98	0.34	0.96
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD22	20	0.94	0.17	0.9
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD23	20	0.94	0.17	0.9
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD21	20	0.94	0.17	0.9
(1,3553)	1:87:A:ALA:HB2	1:43:A:ILE:HA	20	0.93	0.37	0.86
(1,3553)	1:87:A:ALA:HB1	1:43:A:ILE:HA	20	0.93	0.37	0.86
(1,3553)	1:87:A:ALA:HB3	1:43:A:ILE:HA	20	0.93	0.37	0.86
(1,3553)	1:87:A:ALA:HB2	1:30:A:THR:HB	20	0.93	0.37	0.86
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG21	20	0.91	0.02	0.92
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG22	20	0.91	0.02	0.92
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG23	20	0.91	0.02	0.92
(1,3469)	1:58:A:THR:HA	1:58:A:THR:HG23	20	0.91	0.02	0.92
(1,3469)	1:58:A:THR:HA	1:58:A:THR:HG22	20	0.91	0.02	0.92
(1,3469)	1:58:A:THR:HA	1:58:A:THR:HG21	20	0.91	0.02	0.92
(1,3554)	1:13:A:ALA:HB2	1:104:A:ASN:HB2	20	0.84	0.22	0.92
(1,3554)	1:13:A:ALA:HB1	1:104:A:ASN:HB2	20	0.84	0.22	0.92
(1,3554)	1:13:A:ALA:HB3	1:104:A:ASN:HB2	20	0.84	0.22	0.92
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG21	20	0.79	0.12	0.82
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG22	20	0.79	0.12	0.82
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG23	20	0.79	0.12	0.82
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB3	20	0.78	0.29	0.73
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB2	20	0.78	0.29	0.73
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB1	20	0.78	0.29	0.73
(1,3574)	1:41:A:GLN:HE21	1:44:A:ALA:HB3	20	0.78	0.29	0.73
(1,3574)	1:86:A:TYR:HD1	1:44:A:ALA:HB1	20	0.78	0.29	0.73
(1,1162)	1:46:A:SER:H	1:47:A:VAL:HG11	20	0.78	0.33	0.89
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG22	20	0.78	0.33	0.89
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG11	20	0.78	0.33	0.89

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG13	20	0.78	0.33	0.89
(1,1162)	1:46:A:SER:H	1:47:A:VAL:HG21	20	0.78	0.33	0.89
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG23	20	0.78	0.33	0.89
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG21	20	0.78	0.33	0.89
(1,1162)	1:46:A:SER:H	1:47:A:VAL:HG22	20	0.78	0.33	0.89
(1,1162)	1:46:A:SER:H	1:47:A:VAL:HG23	20	0.78	0.33	0.89
(1,3231)	1:34:A:VAL:HG22	1:139:A:ASP:HA	20	0.71	0.21	0.77
(1,3231)	1:34:A:VAL:HG23	1:139:A:ASP:HA	20	0.71	0.21	0.77
(1,3231)	1:34:A:VAL:HG21	1:139:A:ASP:HA	20	0.71	0.21	0.77
(1,3231)	1:34:A:VAL:HG13	1:36:A:ARG:HA	20	0.71	0.21	0.77
(1,3231)	1:34:A:VAL:HG23	1:36:A:ARG:HA	20	0.71	0.21	0.77
(1,3231)	1:34:A:VAL:HG12	1:36:A:ARG:HA	20	0.71	0.21	0.77
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	20	0.71	0.12	0.7
(1,1007)	1:140:A:ILE:H	1:137:A:GLN:HB3	20	0.71	0.12	0.7
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB2	20	0.7	0.14	0.67
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB3	20	0.7	0.14	0.67
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB1	20	0.7	0.14	0.67
(1,1063)	1:126:A:GLY:H	1:123:A:ALA:HB3	20	0.7	0.14	0.67
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	20	0.7	0.48	0.79
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD11	20	0.69	0.2	0.71
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD22	20	0.69	0.2	0.71
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD12	20	0.69	0.2	0.71
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD23	20	0.69	0.2	0.71
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD13	20	0.69	0.2	0.71
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD21	20	0.69	0.2	0.71
(1,1034)	1:109:A:GLY:H	1:112:A:VAL:HG22	20	0.69	0.2	0.71
(1,3696)	1:129:A:ILE:HG23	1:50:A:ARG:HB3	20	0.67	0.19	0.68
(1,3696)	1:129:A:ILE:HG21	1:50:A:ARG:HB3	20	0.67	0.19	0.68
(1,3696)	1:129:A:ILE:HG22	1:50:A:ARG:HB3	20	0.67	0.19	0.68
(1,3696)	1:129:A:ILE:HG22	1:50:A:ARG:HB2	20	0.67	0.19	0.68
(1,3677)	1:13:A:ALA:HB2	1:14:A:SER:HB3	20	0.66	0.19	0.71
(1,3677)	1:13:A:ALA:HB2	1:12:A:GLY:HA3	20	0.66	0.19	0.71
(1,3677)	1:13:A:ALA:HB3	1:12:A:GLY:HA3	20	0.66	0.19	0.71
(1,3677)	1:13:A:ALA:HB2	1:14:A:SER:HB2	20	0.66	0.19	0.71
(1,3677)	1:13:A:ALA:HB3	1:14:A:SER:HB3	20	0.66	0.19	0.71
(1,3677)	1:13:A:ALA:HB1	1:12:A:GLY:HA3	20	0.66	0.19	0.71
(1,3677)	1:13:A:ALA:HB1	1:14:A:SER:HB3	20	0.66	0.19	0.71
(1,3677)	1:13:A:ALA:HB2	1:12:A:GLY:HA2	20	0.66	0.19	0.71
(1,3677)	1:13:A:ALA:HB1	1:12:A:GLY:HA2	20	0.66	0.19	0.71
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG23	20	0.65	0.05	0.66
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG22	20	0.65	0.05	0.66
(1,1136)	1:138:A:SER:H	1:136:A:VAL:HG13	20	0.65	0.05	0.66

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG21	20	0.65	0.05	0.66
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB1	20	0.62	0.09	0.63
(1,3288)	1:65:A:ASN:HA	1:67:A:ALA:HB1	20	0.62	0.09	0.63
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB2	20	0.62	0.09	0.63
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB3	20	0.62	0.09	0.63
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD13	20	0.61	0.14	0.6
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD11	20	0.61	0.14	0.6
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD12	20	0.61	0.14	0.6
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD12	20	0.56	0.25	0.54
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD13	20	0.56	0.25	0.54
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD11	20	0.56	0.25	0.54
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	20	0.54	0.13	0.54
(1,3353)	1:11:A:GLY:HA2	1:113:A:LEU:HA	20	0.54	0.13	0.54
(1,3781)	1:21:A:VAL:HG23	1:20:A:ARG:HG2	20	0.53	0.29	0.46
(1,3781)	1:21:A:VAL:HG21	1:20:A:ARG:HG3	20	0.53	0.29	0.46
(1,3781)	1:21:A:VAL:HG23	1:20:A:ARG:HG3	20	0.53	0.29	0.46
(1,3781)	1:21:A:VAL:HG22	1:20:A:ARG:HG3	20	0.53	0.29	0.46
(1,3781)	1:71:A:VAL:HG12	1:68:A:ARG:HG2	20	0.53	0.29	0.46
(1,3490)	1:17:A:LEU:HD12	1:20:A:ARG:HB2	20	0.51	0.23	0.46
(1,3490)	1:17:A:LEU:HD13	1:20:A:ARG:HB2	20	0.51	0.23	0.46
(1,3490)	1:17:A:LEU:HD11	1:20:A:ARG:HB2	20	0.51	0.23	0.46
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	20	0.49	0.09	0.46
(1,3415)	1:41:A:GLN:HA	1:42:A:GLN:HA	20	0.49	0.09	0.46
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB3	20	0.44	0.33	0.36
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB2	20	0.44	0.33	0.36
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB1	20	0.44	0.33	0.36
(1,1143)	1:127:A:LEU:H	1:124:A:ALA:HB1	20	0.44	0.33	0.36
(1,3464)	1:126:A:GLY:HA3	1:123:A:ALA:HA	20	0.43	0.15	0.45
(1,3464)	1:134:A:GLY:HA3	1:133:A:SER:HA	20	0.43	0.15	0.45
(1,3464)	1:126:A:GLY:HA2	1:125:A:GLN:HA	20	0.43	0.15	0.45
(1,3464)	1:134:A:GLY:HA2	1:133:A:SER:HA	20	0.43	0.15	0.45
(1,3287)	1:122:A:SER:HB3	1:121:A:SER:HB2	20	0.42	0.26	0.32
(1,3287)	1:122:A:SER:HB2	1:121:A:SER:HB3	20	0.42	0.26	0.32
(1,3287)	1:122:A:SER:HB3	1:121:A:SER:HB3	20	0.42	0.26	0.32
(1,3287)	1:122:A:SER:HB2	1:121:A:SER:HB2	20	0.42	0.26	0.32
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG21	20	0.41	0.04	0.41
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG23	20	0.41	0.04	0.41
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG22	20	0.41	0.04	0.41
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB2	20	0.4	0.12	0.41
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB3	20	0.4	0.12	0.41
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB1	20	0.4	0.12	0.41
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	20	0.4	0.15	0.38

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3712)	1:84:A:SER:HB3	1:85:A:ALA:HA	20	0.4	0.15	0.38
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB2	20	0.4	0.13	0.36
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB1	20	0.4	0.13	0.36
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB3	20	0.4	0.13	0.36
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG22	20	0.38	0.13	0.39
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG23	20	0.38	0.13	0.39
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG21	20	0.38	0.13	0.39
(1,3351)	1:197:A:PHE:HA	1:198:A:GLY:HA3	20	0.37	0.06	0.35
(1,3351)	1:7:A:PHE:HA	1:6:A:GLY:HA2	20	0.37	0.06	0.35
(1,3351)	1:169:A:TYR:HA	1:168:A:GLY:HA3	20	0.37	0.06	0.35
(1,3351)	1:169:A:TYR:HA	1:168:A:GLY:HA2	20	0.37	0.06	0.35
(1,3351)	1:197:A:PHE:HA	1:196:A:GLY:HA2	20	0.37	0.06	0.35
(1,3351)	1:7:A:PHE:HA	1:6:A:GLY:HA3	20	0.37	0.06	0.35
(1,3351)	1:197:A:PHE:HA	1:198:A:GLY:HA2	20	0.37	0.06	0.35
(1,3466)	1:169:A:TYR:HA	1:168:A:GLY:HA3	20	0.37	0.07	0.36
(1,3466)	1:7:A:PHE:HA	1:8:A:GLY:HA2	20	0.37	0.07	0.36
(1,3466)	1:169:A:TYR:HA	1:168:A:GLY:HA2	20	0.37	0.07	0.36
(1,3466)	1:7:A:PHE:HA	1:6:A:GLY:HA3	20	0.37	0.07	0.36
(1,3466)	1:197:A:PHE:HA	1:196:A:GLY:HA2	20	0.37	0.07	0.36
(1,3466)	1:7:A:PHE:HA	1:8:A:GLY:HA3	20	0.37	0.07	0.36
(1,3331)	1:4:A:GLN:HA	1:5:A:GLY:HA3	20	0.31	0.04	0.3
(1,3331)	1:4:A:GLN:HA	1:5:A:GLY:HA2	20	0.31	0.04	0.3
(1,3331)	1:186:A:LEU:HA	1:187:A:GLY:HA3	20	0.31	0.04	0.3
(1,3331)	1:9:A:ALA:HA	1:8:A:GLY:HA3	20	0.31	0.04	0.3
(1,3331)	1:194:A:GLN:HA	1:193:A:GLY:HA3	20	0.31	0.04	0.3
(1,3331)	1:186:A:LEU:HA	1:187:A:GLY:HA2	20	0.31	0.04	0.3
(1,3331)	1:194:A:GLN:HA	1:193:A:GLY:HA2	20	0.31	0.04	0.3
(1,3331)	1:9:A:ALA:HA	1:8:A:GLY:HA2	20	0.31	0.04	0.3
(1,3331)	1:182:A:TYR:HA	1:181:A:GLY:HA3	20	0.31	0.04	0.3
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	20	0.27	0.08	0.29
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	20	0.26	0.0	0.26
(1,3912)	1:95:A:PHE:HD2	1:95:A:PHE:HZ	20	0.26	0.0	0.26
(1,3582)	1:17:A:LEU:HD11	1:191:A:PRO:HB3	19	1.64	0.42	1.73
(1,3582)	1:17:A:LEU:HD21	1:191:A:PRO:HB2	19	1.64	0.42	1.73
(1,3582)	1:17:A:LEU:HD12	1:191:A:PRO:HB3	19	1.64	0.42	1.73
(1,3582)	1:17:A:LEU:HD12	1:191:A:PRO:HB2	19	1.64	0.42	1.73
(1,3582)	1:17:A:LEU:HD22	1:191:A:PRO:HB2	19	1.64	0.42	1.73
(1,3582)	1:17:A:LEU:HD11	1:191:A:PRO:HB2	19	1.64	0.42	1.73
(1,3582)	1:17:A:LEU:HD23	1:191:A:PRO:HB3	19	1.64	0.42	1.73
(1,3582)	1:17:A:LEU:HD13	1:191:A:PRO:HB3	19	1.64	0.42	1.73
(1,3582)	1:17:A:LEU:HD23	1:191:A:PRO:HB2	19	1.64	0.42	1.73
(1,3340)	1:120:A:VAL:HG21	1:117:A:LEU:HB3	19	1.18	0.22	1.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3340)	1:120:A:VAL:HG13	1:117:A:LEU:HB3	19	1.18	0.22	1.22
(1,3340)	1:120:A:VAL:HG11	1:117:A:LEU:HB3	19	1.18	0.22	1.22
(1,3340)	1:17:A:LEU:HD13	1:20:A:ARG:HB2	19	1.18	0.22	1.22
(1,3340)	1:120:A:VAL:HG12	1:117:A:LEU:HB3	19	1.18	0.22	1.22
(1,3340)	1:120:A:VAL:HG23	1:117:A:LEU:HB3	19	1.18	0.22	1.22
(1,3340)	1:17:A:LEU:HD12	1:20:A:ARG:HB2	19	1.18	0.22	1.22
(1,3340)	1:17:A:LEU:HD11	1:20:A:ARG:HB2	19	1.18	0.22	1.22
(1,3340)	1:120:A:VAL:HG22	1:117:A:LEU:HB3	19	1.18	0.22	1.22
(1,3623)	1:140:A:ILE:HD11	1:95:A:PHE:HE1	19	0.87	0.4	0.87
(1,3623)	1:140:A:ILE:HD12	1:95:A:PHE:HE1	19	0.87	0.4	0.87
(1,3623)	1:140:A:ILE:HD13	1:95:A:PHE:HE1	19	0.87	0.4	0.87
(1,3413)	1:100:A:LEU:HD13	1:195:A:SER:HB3	19	0.77	0.43	0.86
(1,3413)	1:99:A:VAL:HG13	1:195:A:SER:HB3	19	0.77	0.43	0.86
(1,3413)	1:99:A:VAL:HG12	1:195:A:SER:HB3	19	0.77	0.43	0.86
(1,3413)	1:100:A:LEU:HD12	1:195:A:SER:HB2	19	0.77	0.43	0.86
(1,3413)	1:100:A:LEU:HD23	1:195:A:SER:HB2	19	0.77	0.43	0.86
(1,3413)	1:100:A:LEU:HD22	1:195:A:SER:HB3	19	0.77	0.43	0.86
(1,3413)	1:99:A:VAL:HG11	1:195:A:SER:HB3	19	0.77	0.43	0.86
(1,3413)	1:99:A:VAL:HG13	1:195:A:SER:HB2	19	0.77	0.43	0.86
(1,3413)	1:100:A:LEU:HD11	1:195:A:SER:HB2	19	0.77	0.43	0.86
(1,3413)	1:100:A:LEU:HD13	1:195:A:SER:HB2	19	0.77	0.43	0.86
(1,3413)	1:100:A:LEU:HD21	1:195:A:SER:HB3	19	0.77	0.43	0.86
(1,3413)	1:100:A:LEU:HD23	1:195:A:SER:HB3	19	0.77	0.43	0.86
(1,3413)	1:100:A:LEU:HD22	1:195:A:SER:HB2	19	0.77	0.43	0.86
(1,3372)	1:53:A:GLN:HB3	1:56:A:ALA:HB3	19	0.69	0.2	0.72
(1,3372)	1:53:A:GLN:HB2	1:52:A:ALA:HB1	19	0.69	0.2	0.72
(1,3372)	1:53:A:GLN:HB2	1:52:A:ALA:HB3	19	0.69	0.2	0.72
(1,3372)	1:53:A:GLN:HB3	1:66:A:LEU:HB2	19	0.69	0.2	0.72
(1,3372)	1:53:A:GLN:HB2	1:52:A:ALA:HB2	19	0.69	0.2	0.72
(1,3372)	1:53:A:GLN:HB3	1:56:A:ALA:HB2	19	0.69	0.2	0.72
(1,3372)	1:53:A:GLN:HB3	1:56:A:ALA:HB1	19	0.69	0.2	0.72
(1,3372)	1:53:A:GLN:HB3	1:52:A:ALA:HB1	19	0.69	0.2	0.72
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD11	19	0.63	0.25	0.75
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD13	19	0.63	0.25	0.75
(1,1045)	1:45:A:SER:H	1:48:A:VAL:HG13	19	0.63	0.25	0.75
(1,1045)	1:45:A:SER:H	1:48:A:VAL:HG12	19	0.63	0.25	0.75
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD12	19	0.63	0.25	0.75
(1,3799)	1:131:A:VAL:HG12	1:51:A:ALA:HA	19	0.61	0.22	0.55
(1,3799)	1:131:A:VAL:HG11	1:51:A:ALA:HA	19	0.61	0.22	0.55
(1,3799)	1:131:A:VAL:HG13	1:51:A:ALA:HA	19	0.61	0.22	0.55
(1,3799)	1:131:A:VAL:HG22	1:51:A:ALA:HA	19	0.61	0.22	0.55
(1,3799)	1:131:A:VAL:HG12	1:135:A:SER:HB3	19	0.61	0.22	0.55

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD3	19	0.57	0.23	0.6
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	19	0.57	0.23	0.6
(1,3519)	1:17:A:LEU:HB2	1:20:A:ARG:HD2	19	0.57	0.23	0.6
(1,962)	1:117:A:LEU:H	1:113:A:LEU:HD21	19	0.47	0.26	0.35
(1,962)	1:117:A:LEU:H	1:120:A:VAL:HG22	19	0.47	0.26	0.35
(1,962)	1:117:A:LEU:H	1:120:A:VAL:HG21	19	0.47	0.26	0.35
(1,962)	1:117:A:LEU:H	1:113:A:LEU:HD11	19	0.47	0.26	0.35
(1,962)	1:117:A:LEU:H	1:113:A:LEU:HD23	19	0.47	0.26	0.35
(1,962)	1:117:A:LEU:H	1:120:A:VAL:HG12	19	0.47	0.26	0.35
(1,962)	1:117:A:LEU:H	1:120:A:VAL:HG23	19	0.47	0.26	0.35
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG21	19	0.36	0.19	0.31
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG23	19	0.36	0.19	0.31
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG22	19	0.36	0.19	0.31
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	19	0.34	0.09	0.33
(1,1151)	1:129:A:ILE:H	1:130:A:ASN:H	19	0.34	0.09	0.33
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	19	0.28	0.07	0.26
(1,3386)	1:13:A:ALA:HB2	1:14:A:SER:HA	19	0.27	0.06	0.26
(1,3386)	1:13:A:ALA:HB1	1:14:A:SER:HA	19	0.27	0.06	0.26
(1,3386)	1:13:A:ALA:HB3	1:14:A:SER:HA	19	0.27	0.06	0.26
(1,3386)	1:17:A:LEU:HB3	1:14:A:SER:HA	19	0.27	0.06	0.26
(1,3398)	1:70:A:ALA:H	1:68:A:ARG:HA	19	0.26	0.08	0.26
(1,3398)	1:71:A:VAL:H	1:68:A:ARG:HA	19	0.26	0.08	0.26
(1,3416)	1:37:A:THR:HG22	1:129:A:ILE:HD12	18	1.71	0.99	2.45
(1,3416)	1:37:A:THR:HG23	1:129:A:ILE:HD13	18	1.71	0.99	2.45
(1,3416)	1:37:A:THR:HG21	1:129:A:ILE:HD11	18	1.71	0.99	2.45
(1,3416)	1:37:A:THR:HG23	1:129:A:ILE:HD12	18	1.71	0.99	2.45
(1,3416)	1:39:A:VAL:HG11	1:129:A:ILE:HD13	18	1.71	0.99	2.45
(1,3416)	1:37:A:THR:HG23	1:129:A:ILE:HD11	18	1.71	0.99	2.45
(1,3416)	1:39:A:VAL:HG13	1:129:A:ILE:HD11	18	1.71	0.99	2.45
(1,3416)	1:39:A:VAL:HG13	1:129:A:ILE:HD13	18	1.71	0.99	2.45
(1,3416)	1:37:A:THR:HG21	1:129:A:ILE:HD12	18	1.71	0.99	2.45
(1,3320)	1:99:A:VAL:HG12	1:100:A:LEU:HB3	18	1.16	0.43	1.12
(1,3320)	1:99:A:VAL:HG13	1:100:A:LEU:HB3	18	1.16	0.43	1.12
(1,3320)	1:99:A:VAL:HG21	1:100:A:LEU:HD22	18	1.16	0.43	1.12
(1,3320)	1:99:A:VAL:HG23	1:100:A:LEU:HD23	18	1.16	0.43	1.12
(1,3320)	1:99:A:VAL:HG22	1:100:A:LEU:HD22	18	1.16	0.43	1.12
(1,3320)	1:99:A:VAL:HG23	1:100:A:LEU:HD21	18	1.16	0.43	1.12
(1,3320)	1:99:A:VAL:HG11	1:100:A:LEU:HB3	18	1.16	0.43	1.12
(1,3320)	1:99:A:VAL:HG22	1:100:A:LEU:HD21	18	1.16	0.43	1.12
(1,3320)	1:99:A:VAL:HG21	1:100:A:LEU:HD23	18	1.16	0.43	1.12
(1,3320)	1:99:A:VAL:HG22	1:100:A:LEU:HD23	18	1.16	0.43	1.12
(1,3320)	1:99:A:VAL:HG23	1:100:A:LEU:HD22	18	1.16	0.43	1.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD22	18	1.15	0.49	1.39
(1,3348)	1:132:A:ASP:H	1:35:A:LEU:HD11	18	1.15	0.49	1.39
(1,3348)	1:132:A:ASP:H	1:35:A:LEU:HD12	18	1.15	0.49	1.39
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD23	18	1.15	0.49	1.39
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD13	18	1.15	0.49	1.39
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD21	18	1.15	0.49	1.39
(1,3348)	1:132:A:ASP:H	1:35:A:LEU:HD13	18	1.15	0.49	1.39
(1,3793)	1:48:A:VAL:HG23	1:65:A:ASN:HD21	18	1.02	0.75	0.82
(1,3793)	1:48:A:VAL:HG11	1:65:A:ASN:HD21	18	1.02	0.75	0.82
(1,3793)	1:48:A:VAL:HG13	1:65:A:ASN:HD22	18	1.02	0.75	0.82
(1,3793)	1:48:A:VAL:HG21	1:65:A:ASN:HD21	18	1.02	0.75	0.82
(1,3793)	1:48:A:VAL:HG22	1:65:A:ASN:HD21	18	1.02	0.75	0.82
(1,3793)	1:48:A:VAL:HG21	1:65:A:ASN:HD22	18	1.02	0.75	0.82
(1,3793)	1:48:A:VAL:HG21	1:36:A:ARG:HE	18	1.02	0.75	0.82
(1,3793)	1:48:A:VAL:HG22	1:65:A:ASN:HD22	18	1.02	0.75	0.82
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB3	18	1.0	0.39	1.05
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB2	18	1.0	0.39	1.05
(1,3474)	1:67:A:ALA:HB3	1:69:A:PHE:HB2	18	1.0	0.39	1.05
(1,3474)	1:67:A:ALA:HB1	1:69:A:PHE:HB2	18	1.0	0.39	1.05
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB3	18	0.94	0.37	0.93
(1,3811)	1:70:A:ALA:HB3	1:51:A:ALA:HB1	18	0.94	0.37	0.93
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB1	18	0.94	0.37	0.93
(1,3811)	1:70:A:ALA:HB3	1:51:A:ALA:HB2	18	0.94	0.37	0.93
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB2	18	0.94	0.37	0.93
(1,3811)	1:70:A:ALA:HB2	1:51:A:ALA:HB3	18	0.94	0.37	0.93
(1,3811)	1:70:A:ALA:HB3	1:51:A:ALA:HB3	18	0.94	0.37	0.93
(1,3811)	1:70:A:ALA:HB2	1:51:A:ALA:HB1	18	0.94	0.37	0.93
(1,3811)	1:70:A:ALA:HB2	1:51:A:ALA:HB2	18	0.94	0.37	0.93
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD22	18	0.87	0.25	0.87
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD21	18	0.87	0.25	0.87
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD23	18	0.87	0.25	0.87
(1,3325)	1:129:A:ILE:H	1:127:A:LEU:HD21	18	0.87	0.25	0.87
(1,1070)	1:52:A:ALA:H	1:129:A:ILE:HG12	18	0.83	0.31	0.88
(1,1070)	1:67:A:ALA:H	1:70:A:ALA:HB2	18	0.83	0.31	0.88
(1,1070)	1:67:A:ALA:H	1:70:A:ALA:HB1	18	0.83	0.31	0.88
(1,1070)	1:52:A:ALA:H	1:129:A:ILE:HG13	18	0.83	0.31	0.88
(1,1070)	1:67:A:ALA:H	1:70:A:ALA:HB3	18	0.83	0.31	0.88
(1,1070)	1:67:A:ALA:H	1:71:A:VAL:HG23	18	0.83	0.31	0.88
(1,1070)	1:67:A:ALA:H	1:71:A:VAL:HG21	18	0.83	0.31	0.88
(1,1070)	1:67:A:ALA:H	1:71:A:VAL:HG12	18	0.83	0.31	0.88
(1,1070)	1:67:A:ALA:H	1:71:A:VAL:HG22	18	0.83	0.31	0.88
(1,3863)	1:129:A:ILE:HG12	1:55:A:LEU:HD11	18	0.82	0.31	0.83

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3863)	1:129:A:ILE:HG12	1:127:A:LEU:HD13	18	0.82	0.31	0.83
(1,3863)	1:129:A:ILE:HG12	1:127:A:LEU:HD12	18	0.82	0.31	0.83
(1,3863)	1:129:A:ILE:HG12	1:55:A:LEU:HD22	18	0.82	0.31	0.83
(1,3863)	1:129:A:ILE:HG13	1:55:A:LEU:HD21	18	0.82	0.31	0.83
(1,3863)	1:129:A:ILE:HG13	1:55:A:LEU:HD22	18	0.82	0.31	0.83
(1,3863)	1:129:A:ILE:HG13	1:55:A:LEU:HD11	18	0.82	0.31	0.83
(1,3863)	1:129:A:ILE:HG12	1:127:A:LEU:HD11	18	0.82	0.31	0.83
(1,3863)	1:129:A:ILE:HG12	1:55:A:LEU:HD21	18	0.82	0.31	0.83
(1,3863)	1:129:A:ILE:HG12	1:55:A:LEU:HD12	18	0.82	0.31	0.83
(1,3422)	1:35:A:LEU:HD11	1:86:A:TYR:HB3	18	0.8	0.3	0.74
(1,3422)	1:35:A:LEU:HD22	1:86:A:TYR:HB3	18	0.8	0.3	0.74
(1,3422)	1:35:A:LEU:HD23	1:132:A:ASP:HB3	18	0.8	0.3	0.74
(1,3422)	1:35:A:LEU:HD12	1:86:A:TYR:HB3	18	0.8	0.3	0.74
(1,3422)	1:35:A:LEU:HD13	1:86:A:TYR:HB3	18	0.8	0.3	0.74
(1,3422)	1:35:A:LEU:HD23	1:86:A:TYR:HB2	18	0.8	0.3	0.74
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	18	0.75	0.23	0.76
(1,952)	1:104:A:ASN:HD22	1:92:A:SER:HB2	18	0.75	0.23	0.76
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	18	0.71	0.22	0.72
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB2	18	0.71	0.22	0.72
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD21	18	0.69	0.13	0.72
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD23	18	0.69	0.13	0.72
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD11	18	0.69	0.13	0.72
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD12	18	0.69	0.13	0.72
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD13	18	0.69	0.13	0.72
(1,1096)	1:96:A:ASN:H	1:124:A:ALA:HB2	18	0.61	0.21	0.6
(1,1096)	1:96:A:ASN:H	1:93:A:ALA:HB1	18	0.61	0.21	0.6
(1,1096)	1:96:A:ASN:H	1:93:A:ALA:HB2	18	0.61	0.21	0.6
(1,1096)	1:96:A:ASN:H	1:124:A:ALA:HB3	18	0.61	0.21	0.6
(1,1096)	1:96:A:ASN:H	1:124:A:ALA:HB1	18	0.61	0.21	0.6
(1,1096)	1:96:A:ASN:H	1:93:A:ALA:HB3	18	0.61	0.21	0.6
(1,3472)	1:117:A:LEU:HB2	1:113:A:LEU:HD22	18	0.54	0.28	0.52
(1,3472)	1:78:A:PRO:HG2	1:77:A:LEU:HD23	18	0.54	0.28	0.52
(1,3472)	1:78:A:PRO:HG2	1:77:A:LEU:HD11	18	0.54	0.28	0.52
(1,3472)	1:117:A:LEU:HB2	1:113:A:LEU:HD21	18	0.54	0.28	0.52
(1,3472)	1:78:A:PRO:HG2	1:77:A:LEU:HD12	18	0.54	0.28	0.52
(1,3472)	1:78:A:PRO:HG2	1:77:A:LEU:HD13	18	0.54	0.28	0.52
(1,3334)	1:188:A:GLY:HA2	1:190:A:ALA:HA	18	0.53	0.2	0.57
(1,3334)	1:188:A:GLY:HA3	1:190:A:ALA:HA	18	0.53	0.2	0.57
(1,3334)	1:25:A:LEU:HA	1:190:A:ALA:HA	18	0.53	0.2	0.57
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB1	18	0.49	0.19	0.48
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB3	18	0.49	0.19	0.48
(1,3368)	1:69:A:PHE:H	1:70:A:ALA:HB2	18	0.49	0.19	0.48

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3368)	1:69:A:PHE:H	1:70:A:ALA:HB3	18	0.49	0.19	0.48
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB2	18	0.49	0.19	0.48
(1,3798)	1:161:A:ALA:HA	1:162:A:SER:HA	18	0.38	0.1	0.34
(1,3798)	1:154:A:ALA:HA	1:153:A:SER:HA	18	0.38	0.1	0.34
(1,3798)	1:164:A:THR:HB	1:162:A:SER:HA	18	0.38	0.1	0.34
(1,3798)	1:161:A:ALA:HA	1:153:A:SER:HA	18	0.38	0.1	0.34
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD11	18	0.37	0.21	0.36
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD22	18	0.37	0.21	0.36
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD12	18	0.37	0.21	0.36
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD23	18	0.37	0.21	0.36
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD21	18	0.37	0.21	0.36
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD13	18	0.37	0.21	0.36
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	18	0.35	0.15	0.35
(1,3352)	1:61:A:VAL:HG21	1:58:A:THR:HB	18	0.32	0.18	0.29
(1,3352)	1:61:A:VAL:HG22	1:58:A:THR:HB	18	0.32	0.18	0.29
(1,3352)	1:61:A:VAL:HG23	1:58:A:THR:HB	18	0.32	0.18	0.29
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG22	18	0.31	0.09	0.32
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG23	18	0.31	0.09	0.32
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG21	18	0.31	0.09	0.32
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG21	18	0.31	0.11	0.31
(1,949)	1:55:A:LEU:H	1:129:A:ILE:HD11	18	0.31	0.11	0.31
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG23	18	0.31	0.11	0.31
(1,949)	1:55:A:LEU:H	1:129:A:ILE:HD12	18	0.31	0.11	0.31
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG22	18	0.31	0.11	0.31
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG23	18	0.31	0.14	0.29
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG22	18	0.31	0.14	0.29
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG11	18	0.31	0.14	0.29
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG21	18	0.31	0.14	0.29
(1,3575)	1:38:A:GLY:HA2	1:136:A:VAL:HG11	18	0.31	0.14	0.29
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB3	18	0.31	0.13	0.3
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB2	18	0.31	0.13	0.3
(1,1052)	1:101:A:ASN:H	1:22:A:ALA:HB3	18	0.31	0.13	0.3
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB1	18	0.31	0.13	0.3
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	18	0.29	0.08	0.29
(1,1107)	1:109:A:GLY:H	1:112:A:VAL:HB	18	0.28	0.09	0.3
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	18	0.28	0.09	0.3
(1,3251)	1:47:A:VAL:HB	1:73:A:ALA:HB2	17	1.15	0.57	1.23
(1,3251)	1:136:A:VAL:HB	1:51:A:ALA:HB1	17	1.15	0.57	1.23
(1,3251)	1:47:A:VAL:HB	1:73:A:ALA:HB3	17	1.15	0.57	1.23
(1,3251)	1:47:A:VAL:HB	1:73:A:ALA:HB1	17	1.15	0.57	1.23
(1,3251)	1:71:A:VAL:HB	1:51:A:ALA:HB2	17	1.15	0.57	1.23
(1,3251)	1:71:A:VAL:HB	1:51:A:ALA:HB1	17	1.15	0.57	1.23

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3251)	1:71:A:VAL:HB	1:51:A:ALA:HB3	17	1.15	0.57	1.23
(1,3419)	1:31:A:LEU:HD11	1:172:A:PRO:HG3	17	1.12	0.47	1.12
(1,3419)	1:31:A:LEU:HD11	1:172:A:PRO:HG2	17	1.12	0.47	1.12
(1,3419)	1:18:A:ILE:HG13	1:172:A:PRO:HG2	17	1.12	0.47	1.12
(1,3419)	1:31:A:LEU:HD13	1:172:A:PRO:HG2	17	1.12	0.47	1.12
(1,3419)	1:31:A:LEU:HD12	1:172:A:PRO:HG3	17	1.12	0.47	1.12
(1,3419)	1:31:A:LEU:HD12	1:172:A:PRO:HG2	17	1.12	0.47	1.12
(1,3419)	1:18:A:ILE:HG13	1:172:A:PRO:HG3	17	1.12	0.47	1.12
(1,3419)	1:31:A:LEU:HD13	1:172:A:PRO:HG3	17	1.12	0.47	1.12
(1,3286)	1:48:A:VAL:HG11	1:41:A:GLN:HB3	17	0.91	0.33	0.9
(1,3286)	1:48:A:VAL:HG22	1:47:A:VAL:HB	17	0.91	0.33	0.9
(1,3286)	1:48:A:VAL:HG11	1:47:A:VAL:HB	17	0.91	0.33	0.9
(1,3286)	1:48:A:VAL:HG21	1:41:A:GLN:HB3	17	0.91	0.33	0.9
(1,3286)	1:48:A:VAL:HG13	1:47:A:VAL:HB	17	0.91	0.33	0.9
(1,3286)	1:48:A:VAL:HG13	1:41:A:GLN:HB3	17	0.91	0.33	0.9
(1,3286)	1:48:A:VAL:HG13	1:41:A:GLN:HB2	17	0.91	0.33	0.9
(1,3286)	1:48:A:VAL:HG22	1:41:A:GLN:HB3	17	0.91	0.33	0.9
(1,3286)	1:48:A:VAL:HG12	1:41:A:GLN:HB3	17	0.91	0.33	0.9
(1,3286)	1:48:A:VAL:HG21	1:47:A:VAL:HB	17	0.91	0.33	0.9
(1,3766)	1:129:A:ILE:HG12	1:120:A:VAL:HG11	17	0.85	0.52	0.62
(1,3766)	1:129:A:ILE:HG13	1:120:A:VAL:HG12	17	0.85	0.52	0.62
(1,3766)	1:129:A:ILE:HG13	1:120:A:VAL:HG13	17	0.85	0.52	0.62
(1,3766)	1:129:A:ILE:HG12	1:120:A:VAL:HG12	17	0.85	0.52	0.62
(1,3766)	1:129:A:ILE:HG12	1:120:A:VAL:HG13	17	0.85	0.52	0.62
(1,3766)	1:129:A:ILE:HG13	1:120:A:VAL:HG23	17	0.85	0.52	0.62
(1,3766)	1:129:A:ILE:HG13	1:120:A:VAL:HG21	17	0.85	0.52	0.62
(1,3766)	1:105:A:ILE:HD11	1:120:A:VAL:HG22	17	0.85	0.52	0.62
(1,3766)	1:105:A:ILE:HD13	1:120:A:VAL:HG11	17	0.85	0.52	0.62
(1,3580)	1:20:A:ARG:HD2	1:24:A:ALA:HB2	17	0.82	0.55	0.55
(1,3580)	1:101:A:ASN:HB3	1:102:A:ALA:HB2	17	0.82	0.55	0.55
(1,3580)	1:101:A:ASN:HB3	1:102:A:ALA:HB1	17	0.82	0.55	0.55
(1,3580)	1:101:A:ASN:HB2	1:102:A:ALA:HB2	17	0.82	0.55	0.55
(1,3580)	1:101:A:ASN:HB2	1:102:A:ALA:HB1	17	0.82	0.55	0.55
(1,3580)	1:101:A:ASN:HB2	1:102:A:ALA:HB3	17	0.82	0.55	0.55
(1,3580)	1:101:A:ASN:HB3	1:102:A:ALA:HB3	17	0.82	0.55	0.55
(1,3580)	1:20:A:ARG:HD3	1:24:A:ALA:HB3	17	0.82	0.55	0.55
(1,3580)	1:104:A:ASN:HB3	1:102:A:ALA:HB2	17	0.82	0.55	0.55
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB2	17	0.81	0.33	0.87
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB3	17	0.81	0.33	0.87
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB1	17	0.81	0.33	0.87
(1,3338)	1:112:A:VAL:HG22	1:111:A:ARG:HD3	17	0.57	0.23	0.6
(1,3338)	1:112:A:VAL:HG23	1:111:A:ARG:HD2	17	0.57	0.23	0.6

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3338)	1:112:A:VAL:HG23	1:111:A:ARG:HD3	17	0.57	0.23	0.6
(1,3338)	1:112:A:VAL:HG21	1:111:A:ARG:HD3	17	0.57	0.23	0.6
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG22	17	0.57	0.23	0.6
(1,3764)	1:111:A:ARG:HD2	1:112:A:VAL:HG23	17	0.57	0.23	0.6
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG23	17	0.57	0.23	0.6
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG21	17	0.57	0.23	0.6
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG21	17	0.53	0.15	0.56
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG22	17	0.53	0.15	0.56
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG23	17	0.53	0.15	0.56
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG12	17	0.53	0.15	0.56
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG13	17	0.53	0.15	0.56
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG23	17	0.45	0.16	0.44
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG22	17	0.45	0.16	0.44
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG21	17	0.45	0.16	0.44
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG23	17	0.31	0.14	0.25
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG22	17	0.31	0.14	0.25
(1,3771)	1:29:A:SER:HB3	1:30:A:THR:HG22	17	0.31	0.14	0.25
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG21	17	0.31	0.14	0.25
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	17	0.13	0.01	0.13
(1,1132)	1:59:A:LEU:H	1:59:A:LEU:HA	17	0.13	0.01	0.13
(1,3854)	1:79:A:ALA:HB1	1:77:A:LEU:HD11	16	1.96	0.55	2.0
(1,3854)	1:79:A:ALA:HB2	1:77:A:LEU:HD13	16	1.96	0.55	2.0
(1,3854)	1:85:A:ALA:HB2	1:77:A:LEU:HD21	16	1.96	0.55	2.0
(1,3854)	1:85:A:ALA:HB1	1:77:A:LEU:HD13	16	1.96	0.55	2.0
(1,3854)	1:85:A:ALA:HB3	1:77:A:LEU:HD22	16	1.96	0.55	2.0
(1,3854)	1:79:A:ALA:HB3	1:77:A:LEU:HD23	16	1.96	0.55	2.0
(1,3854)	1:79:A:ALA:HB2	1:77:A:LEU:HD22	16	1.96	0.55	2.0
(1,3854)	1:79:A:ALA:HB3	1:77:A:LEU:HD13	16	1.96	0.55	2.0
(1,3854)	1:79:A:ALA:HB3	1:77:A:LEU:HD12	16	1.96	0.55	2.0
(1,3854)	1:79:A:ALA:HB1	1:77:A:LEU:HD22	16	1.96	0.55	2.0
(1,3854)	1:85:A:ALA:HB2	1:77:A:LEU:HD22	16	1.96	0.55	2.0
(1,3854)	1:79:A:ALA:HB1	1:77:A:LEU:HD21	16	1.96	0.55	2.0
(1,3376)	1:132:A:ASP:HB3	1:136:A:VAL:HG23	16	1.36	0.76	1.59
(1,3376)	1:130:A:ASN:HB2	1:136:A:VAL:HG11	16	1.36	0.76	1.59
(1,3376)	1:130:A:ASN:HB3	1:136:A:VAL:HG11	16	1.36	0.76	1.59
(1,3376)	1:132:A:ASP:HB3	1:136:A:VAL:HG21	16	1.36	0.76	1.59
(1,3376)	1:130:A:ASN:HB2	1:136:A:VAL:HG13	16	1.36	0.76	1.59
(1,3376)	1:132:A:ASP:HB3	1:136:A:VAL:HG22	16	1.36	0.76	1.59
(1,3376)	1:130:A:ASN:HB3	1:136:A:VAL:HG12	16	1.36	0.76	1.59
(1,3849)	1:51:A:ALA:HB3	1:132:A:ASP:HB2	16	1.26	0.43	1.43
(1,3849)	1:102:A:ALA:HB2	1:104:A:ASN:HB3	16	1.26	0.43	1.43
(1,3849)	1:51:A:ALA:HB2	1:132:A:ASP:HB2	16	1.26	0.43	1.43

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3849)	1:102:A:ALA:HB1	1:104:A:ASN:HB3	16	1.26	0.43	1.43
(1,3849)	1:51:A:ALA:HB1	1:132:A:ASP:HB2	16	1.26	0.43	1.43
(1,3849)	1:102:A:ALA:HB3	1:104:A:ASN:HB3	16	1.26	0.43	1.43
(1,3849)	1:51:A:ALA:HB2	1:132:A:ASP:HB3	16	1.26	0.43	1.43
(1,3394)	1:48:A:VAL:HG11	1:41:A:GLN:HG2	16	1.12	0.57	1.25
(1,3394)	1:48:A:VAL:HG22	1:41:A:GLN:HG2	16	1.12	0.57	1.25
(1,3394)	1:48:A:VAL:HG12	1:41:A:GLN:HG3	16	1.12	0.57	1.25
(1,3394)	1:48:A:VAL:HG13	1:41:A:GLN:HG2	16	1.12	0.57	1.25
(1,3394)	1:48:A:VAL:HG12	1:41:A:GLN:HG2	16	1.12	0.57	1.25
(1,3394)	1:48:A:VAL:HG13	1:41:A:GLN:HG3	16	1.12	0.57	1.25
(1,3394)	1:43:A:ILE:HD11	1:41:A:GLN:HG2	16	1.12	0.57	1.25
(1,3394)	1:48:A:VAL:HG23	1:41:A:GLN:HG2	16	1.12	0.57	1.25
(1,3394)	1:43:A:ILE:HD12	1:41:A:GLN:HG3	16	1.12	0.57	1.25
(1,3579)	1:43:A:ILE:HD11	1:77:A:LEU:HD12	16	0.87	0.18	0.94
(1,3579)	1:43:A:ILE:HD13	1:77:A:LEU:HD12	16	0.87	0.18	0.94
(1,3579)	1:43:A:ILE:HD13	1:43:A:ILE:HG23	16	0.87	0.18	0.94
(1,3579)	1:43:A:ILE:HD13	1:43:A:ILE:HG21	16	0.87	0.18	0.94
(1,3579)	1:43:A:ILE:HD11	1:77:A:LEU:HD11	16	0.87	0.18	0.94
(1,3579)	1:43:A:ILE:HD11	1:77:A:LEU:HD22	16	0.87	0.18	0.94
(1,3579)	1:43:A:ILE:HD12	1:43:A:ILE:HG22	16	0.87	0.18	0.94
(1,3579)	1:43:A:ILE:HD11	1:43:A:ILE:HG23	16	0.87	0.18	0.94
(1,3579)	1:43:A:ILE:HD12	1:43:A:ILE:HG23	16	0.87	0.18	0.94
(1,3579)	1:43:A:ILE:HD13	1:43:A:ILE:HG22	16	0.87	0.18	0.94
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD22	16	0.75	0.32	0.86
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD21	16	0.75	0.32	0.86
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD23	16	0.75	0.32	0.86
(1,3279)	1:178:A:GLY:HA3	1:177:A:THR:HB	16	0.74	0.1	0.7
(1,3279)	1:174:A:GLY:HA3	1:177:A:THR:HB	16	0.74	0.1	0.7
(1,3279)	1:178:A:GLY:HA2	1:177:A:THR:HB	16	0.74	0.1	0.7
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG11	16	0.73	0.29	0.66
(1,3679)	1:70:A:ALA:HB2	1:61:A:VAL:HG11	16	0.73	0.29	0.66
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG22	16	0.73	0.29	0.66
(1,3679)	1:70:A:ALA:HB2	1:61:A:VAL:HG13	16	0.73	0.29	0.66
(1,3679)	1:70:A:ALA:HB1	1:61:A:VAL:HG21	16	0.73	0.29	0.66
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG23	16	0.73	0.29	0.66
(1,3679)	1:70:A:ALA:HB1	1:61:A:VAL:HG13	16	0.73	0.29	0.66
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG13	16	0.73	0.29	0.66
(1,3295)	1:39:A:VAL:HG22	1:36:A:ARG:HB3	16	0.7	0.17	0.72
(1,3295)	1:39:A:VAL:HG23	1:36:A:ARG:HB3	16	0.7	0.17	0.72
(1,3295)	1:39:A:VAL:HG22	1:43:A:ILE:HB	16	0.7	0.17	0.72
(1,3295)	1:10:A:THR:HG21	1:42:A:GLN:HB3	16	0.7	0.17	0.72
(1,3295)	1:39:A:VAL:HG21	1:43:A:ILE:HB	16	0.7	0.17	0.72

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3295)	1:10:A:THR:HG22	1:42:A:GLN:HB3	16	0.7	0.17	0.72
(1,3295)	1:10:A:THR:HG22	1:42:A:GLN:HB2	16	0.7	0.17	0.72
(1,3295)	1:10:A:THR:HG23	1:42:A:GLN:HB2	16	0.7	0.17	0.72
(1,3295)	1:39:A:VAL:HG23	1:43:A:ILE:HB	16	0.7	0.17	0.72
(1,3381)	1:177:A:THR:HG22	1:179:A:PRO:HD3	16	0.64	0.39	0.59
(1,3381)	1:177:A:THR:HG21	1:179:A:PRO:HD3	16	0.64	0.39	0.59
(1,3381)	1:177:A:THR:HG21	1:179:A:PRO:HD2	16	0.64	0.39	0.59
(1,3381)	1:177:A:THR:HG23	1:179:A:PRO:HD3	16	0.64	0.39	0.59
(1,3381)	1:177:A:THR:HG23	1:179:A:PRO:HD2	16	0.64	0.39	0.59
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD12	16	0.61	0.35	0.57
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD11	16	0.61	0.35	0.57
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD13	16	0.61	0.35	0.57
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD22	16	0.61	0.35	0.57
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD23	16	0.61	0.35	0.57
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD21	16	0.61	0.35	0.57
(1,3697)	1:13:A:ALA:HB1	1:108:A:LEU:HB3	16	0.58	0.26	0.52
(1,3697)	1:13:A:ALA:HB3	1:108:A:LEU:HB3	16	0.58	0.26	0.52
(1,3697)	1:13:A:ALA:HB2	1:108:A:LEU:HB3	16	0.58	0.26	0.52
(1,3697)	1:13:A:ALA:HB3	1:108:A:LEU:HB2	16	0.58	0.26	0.52
(1,3697)	1:13:A:ALA:HB1	1:108:A:LEU:HB2	16	0.58	0.26	0.52
(1,3639)	1:156:A:TYR:HB2	1:155:A:SER:HB2	16	0.55	0.33	0.5
(1,3639)	1:156:A:TYR:HB2	1:155:A:SER:HB3	16	0.55	0.33	0.5
(1,3639)	1:156:A:TYR:HB3	1:157:A:SER:HB3	16	0.55	0.33	0.5
(1,3639)	1:156:A:TYR:HB2	1:157:A:SER:HB2	16	0.55	0.33	0.5
(1,3639)	1:156:A:TYR:HB3	1:155:A:SER:HB2	16	0.55	0.33	0.5
(1,3639)	1:156:A:TYR:HB3	1:157:A:SER:HB2	16	0.55	0.33	0.5
(1,3639)	1:156:A:TYR:HB3	1:155:A:SER:HB3	16	0.55	0.33	0.5
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD12	16	0.51	0.3	0.52
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD11	16	0.51	0.3	0.52
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD13	16	0.51	0.3	0.52
(1,1013)	1:128:A:GLY:H	1:123:A:ALA:HB3	16	0.45	0.2	0.36
(1,1013)	1:128:A:GLY:H	1:129:A:ILE:HB	16	0.45	0.2	0.36
(1,1013)	1:128:A:GLY:H	1:123:A:ALA:HB2	16	0.45	0.2	0.36
(1,1013)	1:128:A:GLY:H	1:123:A:ALA:HB1	16	0.45	0.2	0.36
(1,975)	1:60:A:GLY:HA3	1:62:A:ASP:H	16	0.41	0.17	0.4
(1,975)	1:60:A:GLY:HA2	1:62:A:ASP:H	16	0.41	0.17	0.4
(1,975)	1:53:A:GLN:HA	1:62:A:ASP:H	16	0.41	0.17	0.4
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB1	16	0.38	0.16	0.3
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB3	16	0.38	0.16	0.3
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB2	16	0.38	0.16	0.3
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB3	16	0.38	0.08	0.4
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB2	16	0.38	0.08	0.4

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1133)	1:42:A:GLN:H	1:44:A:ALA:HB2	16	0.33	0.1	0.32
(1,1133)	1:42:A:GLN:H	1:44:A:ALA:HB1	16	0.33	0.1	0.32
(1,1133)	1:42:A:GLN:H	1:39:A:VAL:HG21	16	0.33	0.1	0.32
(1,1133)	1:42:A:GLN:H	1:44:A:ALA:HB3	16	0.33	0.1	0.32
(1,1133)	1:42:A:GLN:H	1:39:A:VAL:HG22	16	0.33	0.1	0.32
(1,1133)	1:42:A:GLN:H	1:39:A:VAL:HG23	16	0.33	0.1	0.32
(1,1138)	1:76:A:ARG:HB2	1:74:A:VAL:H	16	0.24	0.1	0.25
(1,1138)	1:147:A:LEU:HB2	1:149:A:THR:H	16	0.24	0.1	0.25
(1,1138)	1:76:A:ARG:HB3	1:74:A:VAL:H	16	0.24	0.1	0.25
(1,1138)	1:147:A:LEU:HB3	1:149:A:THR:H	16	0.24	0.1	0.25
(1,2430)	1:43:A:ILE:HD11	1:77:A:LEU:HG	15	0.78	0.37	0.82
(1,2430)	1:43:A:ILE:HD13	1:77:A:LEU:HG	15	0.78	0.37	0.82
(1,2430)	1:43:A:ILE:HD12	1:77:A:LEU:HG	15	0.78	0.37	0.82
(1,2430)	1:43:A:ILE:HD11	1:50:A:ARG:HG3	15	0.78	0.37	0.82
(1,3913)	1:99:A:VAL:HG21	1:95:A:PHE:HD2	15	0.7	0.27	0.75
(1,3913)	1:99:A:VAL:HG11	1:95:A:PHE:HD2	15	0.7	0.27	0.75
(1,3913)	1:99:A:VAL:HG23	1:95:A:PHE:HD2	15	0.7	0.27	0.75
(1,3913)	1:99:A:VAL:HG22	1:95:A:PHE:HD2	15	0.7	0.27	0.75
(1,3455)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	15	0.58	0.27	0.53
(1,3455)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	15	0.58	0.27	0.53
(1,3455)	1:44:A:ALA:HB1	1:86:A:TYR:HE2	15	0.58	0.27	0.53
(1,3455)	1:44:A:ALA:HB1	1:86:A:TYR:HE1	15	0.58	0.27	0.53
(1,3620)	1:6:A:GLY:HA3	1:7:A:PHE:HA	15	0.36	0.09	0.4
(1,3620)	1:166:A:GLY:HA2	1:163:A:SER:HA	15	0.36	0.09	0.4
(1,3620)	1:198:A:GLY:HA2	1:197:A:PHE:HA	15	0.36	0.09	0.4
(1,3620)	1:193:A:GLY:HA2	1:192:A:PHE:HA	15	0.36	0.09	0.4
(1,3620)	1:166:A:GLY:HA3	1:163:A:SER:HA	15	0.36	0.09	0.4
(1,3620)	1:6:A:GLY:HA2	1:7:A:PHE:HA	15	0.36	0.09	0.4
(1,3649)	1:129:A:ILE:HG21	1:131:A:VAL:H	15	0.3	0.1	0.28
(1,3649)	1:129:A:ILE:HG22	1:131:A:VAL:H	15	0.3	0.1	0.28
(1,3649)	1:129:A:ILE:HG23	1:131:A:VAL:H	15	0.3	0.1	0.28
(1,3649)	1:129:A:ILE:HG22	1:129:A:ILE:H	15	0.3	0.1	0.28
(1,3649)	1:129:A:ILE:HG23	1:129:A:ILE:H	15	0.3	0.1	0.28
(1,3649)	1:129:A:ILE:HG21	1:129:A:ILE:H	15	0.3	0.1	0.28
(1,3654)	1:37:A:THR:HG22	1:38:A:GLY:HA3	15	0.27	0.19	0.22
(1,3654)	1:39:A:VAL:HG13	1:38:A:GLY:HA2	15	0.27	0.19	0.22
(1,3654)	1:39:A:VAL:HG12	1:38:A:GLY:HA2	15	0.27	0.19	0.22
(1,3654)	1:39:A:VAL:HG11	1:38:A:GLY:HA2	15	0.27	0.19	0.22
(1,3654)	1:37:A:THR:HG21	1:38:A:GLY:HA3	15	0.27	0.19	0.22
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	15	0.27	0.07	0.27
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD13	14	0.77	0.28	0.78
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD11	14	0.77	0.28	0.78

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD23	14	0.77	0.28	0.78
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD21	14	0.77	0.28	0.78
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD22	14	0.77	0.28	0.78
(1,3750)	1:71:A:VAL:HG13	1:72:A:GLN:HB2	14	0.75	0.09	0.76
(1,3750)	1:71:A:VAL:HG11	1:72:A:GLN:HB2	14	0.75	0.09	0.76
(1,3750)	1:71:A:VAL:HG12	1:72:A:GLN:HB2	14	0.75	0.09	0.76
(1,3750)	1:71:A:VAL:HG12	1:72:A:GLN:HB3	14	0.75	0.09	0.76
(1,3364)	1:117:A:LEU:HD13	1:105:A:ILE:HD11	14	0.65	0.35	0.64
(1,3364)	1:108:A:LEU:HD11	1:105:A:ILE:HD11	14	0.65	0.35	0.64
(1,3364)	1:108:A:LEU:HD11	1:105:A:ILE:HD13	14	0.65	0.35	0.64
(1,3364)	1:117:A:LEU:HD11	1:105:A:ILE:HD12	14	0.65	0.35	0.64
(1,3364)	1:117:A:LEU:HD12	1:105:A:ILE:HD11	14	0.65	0.35	0.64
(1,3364)	1:117:A:LEU:HD12	1:105:A:ILE:HD12	14	0.65	0.35	0.64
(1,3364)	1:108:A:LEU:HD23	1:105:A:ILE:HD12	14	0.65	0.35	0.64
(1,3364)	1:117:A:LEU:HD23	1:105:A:ILE:HD11	14	0.65	0.35	0.64
(1,3364)	1:108:A:LEU:HD13	1:105:A:ILE:HD12	14	0.65	0.35	0.64
(1,3364)	1:117:A:LEU:HD11	1:105:A:ILE:HD11	14	0.65	0.35	0.64
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD11	14	0.61	0.37	0.57
(1,3535)	1:96:A:ASN:HB2	1:105:A:ILE:HD12	14	0.61	0.37	0.57
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD12	14	0.61	0.37	0.57
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD13	14	0.61	0.37	0.57
(1,3535)	1:96:A:ASN:HB2	1:105:A:ILE:HD13	14	0.61	0.37	0.57
(1,3672)	1:85:A:ALA:HA	1:88:A:GLN:HB3	14	0.59	0.24	0.52
(1,3672)	1:85:A:ALA:HA	1:88:A:GLN:HB2	14	0.59	0.24	0.52
(1,3672)	1:32:A:ARG:HA	1:88:A:GLN:HB3	14	0.59	0.24	0.52
(1,3734)	1:20:A:ARG:HA	1:191:A:PRO:HB3	14	0.57	0.22	0.56
(1,3734)	1:37:A:THR:HA	1:136:A:VAL:HB	14	0.57	0.22	0.56
(1,3734)	1:131:A:VAL:HA	1:136:A:VAL:HB	14	0.57	0.22	0.56
(1,3734)	1:20:A:ARG:HA	1:191:A:PRO:HB2	14	0.57	0.22	0.56
(1,3285)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	14	0.55	0.24	0.52
(1,3285)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	14	0.55	0.24	0.52
(1,3285)	1:44:A:ALA:HB1	1:86:A:TYR:HE2	14	0.55	0.24	0.52
(1,3285)	1:44:A:ALA:HB1	1:86:A:TYR:HE1	14	0.55	0.24	0.52
(1,989)	1:110:A:SER:H	1:117:A:LEU:HG	14	0.4	0.13	0.41
(1,989)	1:110:A:SER:H	1:108:A:LEU:HG	14	0.4	0.13	0.41
(1,3683)	1:56:A:ALA:HB1	1:50:A:ARG:HA	14	0.31	0.16	0.27
(1,3683)	1:56:A:ALA:HB3	1:50:A:ARG:HA	14	0.31	0.16	0.27
(1,3683)	1:56:A:ALA:HB2	1:50:A:ARG:HA	14	0.31	0.16	0.27
(1,3683)	1:51:A:ALA:HB1	1:50:A:ARG:HA	14	0.31	0.16	0.27
(1,3683)	1:51:A:ALA:HB3	1:50:A:ARG:HA	14	0.31	0.16	0.27
(1,3683)	1:51:A:ALA:HB2	1:50:A:ARG:HA	14	0.31	0.16	0.27
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB3	14	0.31	0.15	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB2	14	0.31	0.15	0.24
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA2	14	0.28	0.06	0.28
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA3	14	0.28	0.06	0.28
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG22	14	0.26	0.07	0.26
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG21	14	0.26	0.07	0.26
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG23	14	0.26	0.07	0.26
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	14	0.16	0.03	0.16
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	14	0.16	0.03	0.16
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	14	0.16	0.03	0.16
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	14	0.16	0.03	0.16
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	14	0.16	0.03	0.16
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	14	0.16	0.03	0.16
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	14	0.14	0.03	0.14
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG23	13	0.89	0.37	1.06
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG21	13	0.89	0.37	1.06
(1,3665)	1:19:A:SER:HB3	1:18:A:ILE:HG21	13	0.89	0.37	1.06
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG22	13	0.89	0.37	1.06
(1,3665)	1:19:A:SER:HB3	1:18:A:ILE:HG23	13	0.89	0.37	1.06
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA2	13	0.82	0.35	0.65
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA3	13	0.82	0.35	0.65
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB2	13	0.78	0.08	0.76
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB1	13	0.78	0.08	0.76
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB3	13	0.78	0.08	0.76
(1,3657)	1:77:A:LEU:HD23	1:73:A:ALA:HA	13	0.73	0.39	0.7
(1,3657)	1:77:A:LEU:HD12	1:73:A:ALA:HA	13	0.73	0.39	0.7
(1,3657)	1:77:A:LEU:HD13	1:73:A:ALA:HA	13	0.73	0.39	0.7
(1,3657)	1:77:A:LEU:HD22	1:73:A:ALA:HA	13	0.73	0.39	0.7
(1,3657)	1:77:A:LEU:HD21	1:73:A:ALA:HA	13	0.73	0.39	0.7
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB3	13	0.43	0.22	0.49
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB1	13	0.43	0.22	0.49
(1,3378)	1:42:A:GLN:HE21	1:115:A:ALA:HB2	13	0.43	0.22	0.49
(1,3378)	1:42:A:GLN:HE21	1:115:A:ALA:HB3	13	0.43	0.22	0.49
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB2	13	0.43	0.22	0.49
(1,3587)	1:131:A:VAL:HB	1:51:A:ALA:HB1	13	0.43	0.18	0.43
(1,3587)	1:96:A:ASN:HB2	1:124:A:ALA:HB3	13	0.43	0.18	0.43
(1,3587)	1:96:A:ASN:HB2	1:124:A:ALA:HB1	13	0.43	0.18	0.43
(1,3587)	1:96:A:ASN:HB2	1:124:A:ALA:HB2	13	0.43	0.18	0.43
(1,3587)	1:96:A:ASN:HB3	1:124:A:ALA:HB3	13	0.43	0.18	0.43
(1,3587)	1:96:A:ASN:HB3	1:124:A:ALA:HB2	13	0.43	0.18	0.43
(1,3587)	1:131:A:VAL:HB	1:51:A:ALA:HB2	13	0.43	0.18	0.43
(1,3587)	1:96:A:ASN:HB3	1:124:A:ALA:HB1	13	0.43	0.18	0.43
(1,1157)	1:121:A:SER:H	1:123:A:ALA:HB3	13	0.43	0.11	0.48

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1157)	1:121:A:SER:H	1:124:A:ALA:HB3	13	0.43	0.11	0.48
(1,1157)	1:121:A:SER:H	1:123:A:ALA:HB1	13	0.43	0.11	0.48
(1,1157)	1:121:A:SER:H	1:124:A:ALA:HB2	13	0.43	0.11	0.48
(1,1157)	1:121:A:SER:H	1:124:A:ALA:HB1	13	0.43	0.11	0.48
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD11	13	0.4	0.17	0.39
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD22	13	0.4	0.17	0.39
(1,3668)	1:105:A:ILE:HA	1:100:A:LEU:HD13	13	0.4	0.17	0.39
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD13	13	0.4	0.17	0.39
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD12	13	0.4	0.17	0.39
(1,3668)	1:105:A:ILE:HA	1:100:A:LEU:HD12	13	0.4	0.17	0.39
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG13	13	0.21	0.07	0.22
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG11	13	0.21	0.07	0.22
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG12	13	0.21	0.07	0.22
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG21	13	0.21	0.07	0.22
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG22	13	0.21	0.07	0.22
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	13	0.18	0.03	0.18
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	13	0.18	0.03	0.18
(1,3660)	1:185:A:PRO:HG2	1:186:A:LEU:HD23	12	0.92	0.4	0.86
(1,3660)	1:185:A:PRO:HG2	1:186:A:LEU:HD13	12	0.92	0.4	0.86
(1,3660)	1:172:A:PRO:HG2	1:18:A:ILE:HG13	12	0.92	0.4	0.86
(1,3660)	1:185:A:PRO:HG2	1:186:A:LEU:HD21	12	0.92	0.4	0.86
(1,3660)	1:172:A:PRO:HG3	1:18:A:ILE:HG13	12	0.92	0.4	0.86
(1,3660)	1:185:A:PRO:HG2	1:186:A:LEU:HD22	12	0.92	0.4	0.86
(1,3437)	1:101:A:ASN:HB2	1:194:A:GLN:HG3	12	0.69	0.36	0.74
(1,3437)	1:101:A:ASN:HB3	1:194:A:GLN:HG3	12	0.69	0.36	0.74
(1,3437)	1:101:A:ASN:HB2	1:194:A:GLN:HG2	12	0.69	0.36	0.74
(1,3437)	1:101:A:ASN:HB3	1:194:A:GLN:HG2	12	0.69	0.36	0.74
(1,3736)	1:191:A:PRO:HB2	1:190:A:ALA:HB2	12	0.61	0.42	0.5
(1,3736)	1:191:A:PRO:HB2	1:190:A:ALA:HB3	12	0.61	0.42	0.5
(1,3736)	1:25:A:LEU:HG	1:190:A:ALA:HB1	12	0.61	0.42	0.5
(1,3736)	1:191:A:PRO:HB2	1:190:A:ALA:HB1	12	0.61	0.42	0.5
(1,3736)	1:191:A:PRO:HB3	1:190:A:ALA:HB3	12	0.61	0.42	0.5
(1,3706)	1:88:A:GLN:HE22	1:35:A:LEU:HD22	12	0.49	0.26	0.5
(1,3706)	1:88:A:GLN:HE22	1:35:A:LEU:HD21	12	0.49	0.26	0.5
(1,3706)	1:88:A:GLN:HE22	1:35:A:LEU:HD23	12	0.49	0.26	0.5
(1,3706)	1:88:A:GLN:HE22	1:35:A:LEU:HD13	12	0.49	0.26	0.5
(1,3706)	1:88:A:GLN:HE21	1:35:A:LEU:HD22	12	0.49	0.26	0.5
(1,3706)	1:88:A:GLN:HE21	1:35:A:LEU:HD23	12	0.49	0.26	0.5
(1,3238)	1:129:A:ILE:HD12	1:128:A:GLY:HA2	12	0.48	0.2	0.55
(1,3238)	1:129:A:ILE:HD11	1:128:A:GLY:HA2	12	0.48	0.2	0.55
(1,3238)	1:129:A:ILE:HD13	1:128:A:GLY:HA2	12	0.48	0.2	0.55
(1,1031)	1:167:A:ALA:HA	1:169:A:TYR:H	12	0.42	0.21	0.38

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1031)	1:170:A:THR:HA	1:169:A:TYR:H	12	0.42	0.21	0.38
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG21	12	0.42	0.25	0.38
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG23	12	0.42	0.25	0.38
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG22	12	0.42	0.25	0.38
(1,2217)	1:56:A:ALA:HB1	1:58:A:THR:HB	12	0.17	0.02	0.18
(1,2217)	1:56:A:ALA:HB2	1:58:A:THR:HB	12	0.17	0.02	0.18
(1,2217)	1:56:A:ALA:HB3	1:58:A:THR:HB	12	0.17	0.02	0.18
(1,3473)	1:21:A:VAL:HG21	1:92:A:SER:HA	11	1.05	0.43	0.96
(1,3473)	1:21:A:VAL:HG12	1:92:A:SER:HA	11	1.05	0.43	0.96
(1,3473)	1:21:A:VAL:HG11	1:92:A:SER:HA	11	1.05	0.43	0.96
(1,3473)	1:21:A:VAL:HG22	1:92:A:SER:HA	11	1.05	0.43	0.96
(1,3473)	1:31:A:LEU:HD22	1:92:A:SER:HA	11	1.05	0.43	0.96
(1,3404)	1:31:A:LEU:HD13	1:88:A:GLN:HG3	11	1.0	0.39	1.06
(1,3404)	1:35:A:LEU:HB2	1:88:A:GLN:HG2	11	1.0	0.39	1.06
(1,3404)	1:31:A:LEU:HD12	1:88:A:GLN:HG3	11	1.0	0.39	1.06
(1,3404)	1:35:A:LEU:HB3	1:88:A:GLN:HG2	11	1.0	0.39	1.06
(1,3499)	1:55:A:LEU:HD23	1:49:A:GLN:HG2	11	0.74	0.33	0.8
(1,3499)	1:48:A:VAL:HG12	1:49:A:GLN:HG3	11	0.74	0.33	0.8
(1,3499)	1:47:A:VAL:HG12	1:49:A:GLN:HG3	11	0.74	0.33	0.8
(1,3499)	1:55:A:LEU:HD12	1:49:A:GLN:HG2	11	0.74	0.33	0.8
(1,3499)	1:48:A:VAL:HG11	1:49:A:GLN:HG2	11	0.74	0.33	0.8
(1,3499)	1:47:A:VAL:HG22	1:49:A:GLN:HG3	11	0.74	0.33	0.8
(1,3499)	1:47:A:VAL:HG13	1:49:A:GLN:HG3	11	0.74	0.33	0.8
(1,3499)	1:47:A:VAL:HG23	1:49:A:GLN:HG3	11	0.74	0.33	0.8
(1,3499)	1:47:A:VAL:HG21	1:49:A:GLN:HG3	11	0.74	0.33	0.8
(1,3499)	1:48:A:VAL:HG11	1:49:A:GLN:HG3	11	0.74	0.33	0.8
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD11	11	0.71	0.03	0.72
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD12	11	0.71	0.03	0.72
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD13	11	0.71	0.03	0.72
(1,988)	1:23:A:ASN:H	1:21:A:VAL:HG21	11	0.65	0.19	0.67
(1,988)	1:23:A:ASN:H	1:31:A:LEU:HD11	11	0.65	0.19	0.67
(1,988)	1:23:A:ASN:H	1:21:A:VAL:HG12	11	0.65	0.19	0.67
(1,988)	1:23:A:ASN:H	1:21:A:VAL:HG13	11	0.65	0.19	0.67
(1,988)	1:23:A:ASN:H	1:21:A:VAL:HG11	11	0.65	0.19	0.67
(1,3344)	1:93:A:ALA:HB1	1:105:A:ILE:HD11	11	0.61	0.45	0.36
(1,3344)	1:93:A:ALA:HB2	1:105:A:ILE:HD12	11	0.61	0.45	0.36
(1,3344)	1:93:A:ALA:HB3	1:105:A:ILE:HD13	11	0.61	0.45	0.36
(1,3344)	1:93:A:ALA:HB2	1:21:A:VAL:HG21	11	0.61	0.45	0.36
(1,3344)	1:93:A:ALA:HB3	1:105:A:ILE:HD12	11	0.61	0.45	0.36
(1,3344)	1:93:A:ALA:HB2	1:105:A:ILE:HD13	11	0.61	0.45	0.36
(1,3344)	1:93:A:ALA:HB1	1:105:A:ILE:HD13	11	0.61	0.45	0.36
(1,3344)	1:93:A:ALA:HB1	1:105:A:ILE:HD12	11	0.61	0.45	0.36

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3344)	1:93:A:ALA:HB1	1:21:A:VAL:HG21	11	0.61	0.45	0.36
(1,3344)	1:93:A:ALA:HB3	1:21:A:VAL:HG23	11	0.61	0.45	0.36
(1,3232)	1:96:A:ASN:HB3	1:105:A:ILE:HD11	11	0.55	0.36	0.44
(1,3232)	1:96:A:ASN:HB2	1:105:A:ILE:HD12	11	0.55	0.36	0.44
(1,3232)	1:96:A:ASN:HB3	1:105:A:ILE:HD12	11	0.55	0.36	0.44
(1,3232)	1:96:A:ASN:HB3	1:105:A:ILE:HD13	11	0.55	0.36	0.44
(1,3232)	1:96:A:ASN:HB2	1:105:A:ILE:HD13	11	0.55	0.36	0.44
(1,3520)	1:129:A:ILE:HG13	1:50:A:ARG:HG2	11	0.35	0.08	0.38
(1,3520)	1:129:A:ILE:HG12	1:50:A:ARG:HG2	11	0.35	0.08	0.38
(1,3520)	1:129:A:ILE:HG13	1:50:A:ARG:HG3	11	0.35	0.08	0.38
(1,3910)	1:85:A:ALA:HA	1:86:A:TYR:HD1	11	0.35	0.18	0.26
(1,3910)	1:39:A:VAL:HA	1:86:A:TYR:HD2	11	0.35	0.18	0.26
(1,3278)	1:101:A:ASN:H	1:105:A:ILE:HD12	11	0.33	0.18	0.38
(1,3278)	1:108:A:LEU:H	1:105:A:ILE:HD13	11	0.33	0.18	0.38
(1,3278)	1:101:A:ASN:H	1:105:A:ILE:HD13	11	0.33	0.18	0.38
(1,3278)	1:108:A:LEU:H	1:105:A:ILE:HD11	11	0.33	0.18	0.38
(1,3278)	1:108:A:LEU:H	1:105:A:ILE:HD12	11	0.33	0.18	0.38
(1,1008)	1:40:A:SER:H	1:42:A:GLN:HB2	11	0.32	0.17	0.34
(1,1119)	1:97:A:ALA:H	1:96:A:ASN:HB3	11	0.3	0.1	0.28
(1,1578)	1:105:A:ILE:HA	1:107:A:THR:H	11	0.15	0.05	0.14
(1,1652)	1:131:A:VAL:H	1:131:A:VAL:HA	11	0.12	0.01	0.12
(1,1012)	1:146:A:PHE:H	1:146:A:PHE:HA	11	0.11	0.0	0.11
(1,3759)	1:161:A:ALA:HB2	1:175:A:PRO:HB2	10	0.78	0.19	0.78
(1,3759)	1:161:A:ALA:HB2	1:175:A:PRO:HG2	10	0.78	0.19	0.78
(1,3759)	1:161:A:ALA:HB3	1:175:A:PRO:HB2	10	0.78	0.19	0.78
(1,3759)	1:161:A:ALA:HB1	1:175:A:PRO:HB3	10	0.78	0.19	0.78
(1,3759)	1:161:A:ALA:HB1	1:175:A:PRO:HB2	10	0.78	0.19	0.78
(1,3759)	1:161:A:ALA:HB2	1:175:A:PRO:HB3	10	0.78	0.19	0.78
(1,3785)	1:158:A:GLN:HB2	1:161:A:ALA:HB1	10	0.74	0.48	0.7
(1,3785)	1:158:A:GLN:HB2	1:159:A:ALA:HB2	10	0.74	0.48	0.7
(1,3785)	1:3:A:PRO:HB3	1:9:A:ALA:HB3	10	0.74	0.48	0.7
(1,3785)	1:158:A:GLN:HB3	1:161:A:ALA:HB1	10	0.74	0.48	0.7
(1,3785)	1:158:A:GLN:HB2	1:161:A:ALA:HB2	10	0.74	0.48	0.7
(1,3785)	1:158:A:GLN:HB2	1:159:A:ALA:HB3	10	0.74	0.48	0.7
(1,3785)	1:158:A:GLN:HB2	1:154:A:ALA:HB3	10	0.74	0.48	0.7
(1,3785)	1:3:A:PRO:HB3	1:9:A:ALA:HB2	10	0.74	0.48	0.7
(1,3592)	1:99:A:VAL:HG23	1:22:A:ALA:HB3	10	0.69	0.33	0.76
(1,3592)	1:99:A:VAL:HG11	1:22:A:ALA:HB3	10	0.69	0.33	0.76
(1,3592)	1:99:A:VAL:HG22	1:22:A:ALA:HB1	10	0.69	0.33	0.76
(1,3592)	1:99:A:VAL:HG22	1:22:A:ALA:HB2	10	0.69	0.33	0.76
(1,3592)	1:100:A:LEU:HD22	1:22:A:ALA:HB3	10	0.69	0.33	0.76
(1,3592)	1:100:A:LEU:HD21	1:22:A:ALA:HB3	10	0.69	0.33	0.76

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3592)	1:99:A:VAL:HG13	1:22:A:ALA:HB2	10	0.69	0.33	0.76
(1,3421)	1:193:A:GLY:HA3	1:191:A:PRO:HD2	10	0.69	0.42	0.55
(1,3421)	1:22:A:ALA:HA	1:191:A:PRO:HD3	10	0.69	0.42	0.55
(1,3421)	1:22:A:ALA:HA	1:191:A:PRO:HD2	10	0.69	0.42	0.55
(1,3763)	1:41:A:GLN:HB2	1:45:A:SER:HB3	10	0.62	0.31	0.62
(1,3763)	1:41:A:GLN:HB2	1:45:A:SER:HB2	10	0.62	0.31	0.62
(1,3763)	1:41:A:GLN:HB2	1:46:A:SER:HB3	10	0.62	0.31	0.62
(1,3763)	1:41:A:GLN:HB3	1:45:A:SER:HB3	10	0.62	0.31	0.62
(1,3763)	1:41:A:GLN:HB2	1:46:A:SER:HB2	10	0.62	0.31	0.62
(1,3214)	1:14:A:SER:HB2	1:18:A:ILE:HD11	10	0.44	0.36	0.24
(1,3214)	1:14:A:SER:HB3	1:18:A:ILE:HD11	10	0.44	0.36	0.24
(1,3214)	1:14:A:SER:HB2	1:18:A:ILE:HD12	10	0.44	0.36	0.24
(1,3214)	1:14:A:SER:HB3	1:18:A:ILE:HD13	10	0.44	0.36	0.24
(1,3214)	1:14:A:SER:HB3	1:18:A:ILE:HD12	10	0.44	0.36	0.24
(1,3214)	1:14:A:SER:HB3	1:100:A:LEU:HD23	10	0.44	0.36	0.24
(1,3606)	1:35:A:LEU:HD22	1:88:A:GLN:HE22	10	0.41	0.24	0.35
(1,3606)	1:35:A:LEU:HD21	1:88:A:GLN:HE22	10	0.41	0.24	0.35
(1,3606)	1:35:A:LEU:HD23	1:88:A:GLN:HE22	10	0.41	0.24	0.35
(1,3606)	1:35:A:LEU:HD23	1:86:A:TYR:HE2	10	0.41	0.24	0.35
(1,3606)	1:35:A:LEU:HD22	1:88:A:GLN:HE21	10	0.41	0.24	0.35
(1,3606)	1:35:A:LEU:HD23	1:88:A:GLN:HE21	10	0.41	0.24	0.35
(1,3606)	1:35:A:LEU:HD12	1:86:A:TYR:HE2	10	0.41	0.24	0.35
(1,1095)	1:193:A:GLY:H	1:191:A:PRO:HA	10	0.37	0.19	0.34
(1,1095)	1:193:A:GLY:H	1:194:A:GLN:HA	10	0.37	0.19	0.34
(1,1066)	1:178:A:GLY:H	1:188:A:GLY:HA3	10	0.36	0.11	0.36
(1,1066)	1:174:A:GLY:H	1:171:A:GLY:HA3	10	0.36	0.11	0.36
(1,1066)	1:174:A:GLY:H	1:171:A:GLY:HA2	10	0.36	0.11	0.36
(1,1066)	1:178:A:GLY:H	1:171:A:GLY:HA2	10	0.36	0.11	0.36
(1,3500)	1:74:A:VAL:HG22	1:73:A:ALA:HB3	10	0.3	0.1	0.34
(1,3500)	1:74:A:VAL:HG22	1:73:A:ALA:HB2	10	0.3	0.1	0.34
(1,3500)	1:74:A:VAL:HG23	1:73:A:ALA:HB1	10	0.3	0.1	0.34
(1,3500)	1:74:A:VAL:HG21	1:73:A:ALA:HB2	10	0.3	0.1	0.34
(1,3500)	1:74:A:VAL:HG21	1:73:A:ALA:HB1	10	0.3	0.1	0.34
(1,3500)	1:74:A:VAL:HG23	1:73:A:ALA:HB3	10	0.3	0.1	0.34
(1,3500)	1:74:A:VAL:HG21	1:73:A:ALA:HB3	10	0.3	0.1	0.34
(1,3909)	1:74:A:VAL:HB	1:86:A:TYR:HE2	10	0.28	0.09	0.3
(1,3833)	1:113:A:LEU:HA	1:113:A:LEU:HD12	10	0.26	0.06	0.28
(1,3833)	1:113:A:LEU:HA	1:113:A:LEU:HD11	10	0.26	0.06	0.28
(1,3833)	1:113:A:LEU:HA	1:113:A:LEU:HD13	10	0.26	0.06	0.28
(1,3530)	1:42:A:GLN:H	1:41:A:GLN:HB2	10	0.18	0.03	0.18
(1,3530)	1:42:A:GLN:H	1:41:A:GLN:HB3	10	0.18	0.03	0.18
(1,3866)	1:177:A:THR:H	1:177:A:THR:HA	10	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2090)	1:39:A:VAL:HG11	1:43:A:ILE:HB	10	0.11	0.01	0.11
(1,2090)	1:39:A:VAL:HG12	1:43:A:ILE:HB	10	0.11	0.01	0.11
(1,2090)	1:39:A:VAL:HG13	1:43:A:ILE:HB	10	0.11	0.01	0.11
(1,2090)	1:39:A:VAL:HG21	1:43:A:ILE:HB	10	0.11	0.01	0.11
(1,2090)	1:39:A:VAL:HG22	1:43:A:ILE:HB	10	0.11	0.01	0.11
(1,2090)	1:39:A:VAL:HG23	1:43:A:ILE:HB	10	0.11	0.01	0.11
(1,3632)	1:44:A:ALA:HB1	1:48:A:VAL:HB	9	1.0	0.13	1.03
(1,3632)	1:44:A:ALA:HB2	1:48:A:VAL:HB	9	1.0	0.13	1.03
(1,3632)	1:44:A:ALA:HB2	1:43:A:ILE:HB	9	1.0	0.13	1.03
(1,3632)	1:44:A:ALA:HB3	1:43:A:ILE:HB	9	1.0	0.13	1.03
(1,3632)	1:44:A:ALA:HB3	1:48:A:VAL:HB	9	1.0	0.13	1.03
(1,3632)	1:44:A:ALA:HB1	1:43:A:ILE:HB	9	1.0	0.13	1.03
(1,3423)	1:10:A:THR:H	1:42:A:GLN:HB3	9	0.66	0.25	0.52
(1,3423)	1:9:A:ALA:H	1:42:A:GLN:HB3	9	0.66	0.25	0.52
(1,3724)	1:117:A:LEU:HB3	1:105:A:ILE:HG22	9	0.52	0.21	0.6
(1,3724)	1:117:A:LEU:HB3	1:105:A:ILE:HG23	9	0.52	0.21	0.6
(1,3724)	1:117:A:LEU:HB3	1:105:A:ILE:HG21	9	0.52	0.21	0.6
(1,3481)	1:39:A:VAL:HG12	1:49:A:GLN:HA	9	0.5	0.17	0.45
(1,3481)	1:39:A:VAL:HG11	1:49:A:GLN:HA	9	0.5	0.17	0.45
(1,3652)	1:118:A:ASN:HD21	1:114:A:SER:HB3	9	0.49	0.24	0.57
(1,3652)	1:118:A:ASN:HD22	1:114:A:SER:HB2	9	0.49	0.24	0.57
(1,3652)	1:118:A:ASN:HD22	1:114:A:SER:HB3	9	0.49	0.24	0.57
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG22	9	0.49	0.29	0.29
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG13	9	0.49	0.29	0.29
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG21	9	0.49	0.29	0.29
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG23	9	0.49	0.29	0.29
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG11	9	0.49	0.29	0.29
(1,3790)	1:99:A:VAL:HG12	1:194:A:GLN:HA	9	0.49	0.24	0.47
(1,3790)	1:99:A:VAL:HG13	1:194:A:GLN:HA	9	0.49	0.24	0.47
(1,3790)	1:99:A:VAL:HG11	1:194:A:GLN:HA	9	0.49	0.24	0.47
(1,3640)	1:172:A:PRO:HB2	1:173:A:SER:HB3	9	0.44	0.17	0.41
(1,3640)	1:172:A:PRO:HB2	1:173:A:SER:HB2	9	0.44	0.17	0.41
(1,999)	1:134:A:GLY:HA3	1:132:A:ASP:H	9	0.43	0.2	0.46
(1,1148)	1:134:A:GLY:H	1:135:A:SER:HB2	9	0.4	0.19	0.34
(1,1148)	1:134:A:GLY:H	1:67:A:ALA:HA	9	0.4	0.19	0.34
(1,1148)	1:134:A:GLY:H	1:135:A:SER:HB3	9	0.4	0.19	0.34
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD2	9	0.23	0.08	0.25
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD3	9	0.23	0.08	0.25
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD11	9	0.21	0.1	0.17
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD12	9	0.21	0.1	0.17
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD13	9	0.21	0.1	0.17
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD21	9	0.21	0.1	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD22	9	0.21	0.1	0.17
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD23	9	0.21	0.1	0.17
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD11	9	0.21	0.1	0.17
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD12	9	0.21	0.1	0.17
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD13	9	0.21	0.1	0.17
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD21	9	0.21	0.1	0.17
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD22	9	0.21	0.1	0.17
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD23	9	0.21	0.1	0.17
(1,2176)	1:50:A:ARG:HD2	1:54:A:SER:HA	9	0.2	0.07	0.18
(1,2176)	1:50:A:ARG:HD3	1:54:A:SER:HA	9	0.2	0.07	0.18
(1,1087)	1:64:A:ASN:H	1:66:A:LEU:HA	9	0.18	0.05	0.18
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD2	9	0.16	0.04	0.14
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD3	9	0.16	0.04	0.14
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD2	9	0.16	0.04	0.14
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD3	9	0.16	0.04	0.14
(1,1037)	1:173:A:SER:H	1:173:A:SER:HA	9	0.12	0.02	0.12
(1,3607)	1:36:A:ARG:HE	1:116:A:LEU:HD12	8	1.08	0.33	1.06
(1,3607)	1:36:A:ARG:HE	1:116:A:LEU:HD23	8	1.08	0.33	1.06
(1,3607)	1:90:A:PHE:HE2	1:116:A:LEU:HD21	8	1.08	0.33	1.06
(1,3607)	1:36:A:ARG:HE	1:116:A:LEU:HD11	8	1.08	0.33	1.06
(1,3607)	1:36:A:ARG:HE	1:116:A:LEU:HD22	8	1.08	0.33	1.06
(1,3332)	1:52:A:ALA:HB3	1:129:A:ILE:HD11	8	0.85	0.21	0.88
(1,3332)	1:52:A:ALA:HB2	1:129:A:ILE:HD13	8	0.85	0.21	0.88
(1,3332)	1:52:A:ALA:HB2	1:66:A:LEU:HD12	8	0.85	0.21	0.88
(1,3332)	1:52:A:ALA:HB1	1:129:A:ILE:HD11	8	0.85	0.21	0.88
(1,3332)	1:52:A:ALA:HB3	1:129:A:ILE:HD12	8	0.85	0.21	0.88
(1,3332)	1:52:A:ALA:HB1	1:129:A:ILE:HD12	8	0.85	0.21	0.88
(1,3332)	1:52:A:ALA:HB3	1:66:A:LEU:HD11	8	0.85	0.21	0.88
(1,3332)	1:52:A:ALA:HB3	1:129:A:ILE:HD13	8	0.85	0.21	0.88
(1,1054)	1:56:A:ALA:H	1:55:A:LEU:HD21	8	0.83	0.34	0.92
(1,1054)	1:56:A:ALA:H	1:55:A:LEU:HD11	8	0.83	0.34	0.92
(1,1054)	1:56:A:ALA:H	1:55:A:LEU:HD23	8	0.83	0.34	0.92
(1,1054)	1:146:A:PHE:H	1:147:A:LEU:HD12	8	0.83	0.34	0.92
(1,1054)	1:146:A:PHE:H	1:147:A:LEU:HD21	8	0.83	0.34	0.92
(1,3292)	1:112:A:VAL:H	1:108:A:LEU:HG	8	0.56	0.15	0.55
(1,3292)	1:13:A:ALA:H	1:108:A:LEU:HG	8	0.56	0.15	0.55
(1,3760)	1:85:A:ALA:HA	1:82:A:ASP:HB3	8	0.52	0.19	0.48
(1,3760)	1:85:A:ALA:HA	1:86:A:TYR:HB2	8	0.52	0.19	0.48
(1,3760)	1:85:A:ALA:HA	1:82:A:ASP:HB2	8	0.52	0.19	0.48
(1,1025)	1:72:A:GLN:H	1:67:A:ALA:HA	8	0.47	0.15	0.41
(1,3599)	1:129:A:ILE:HG22	1:37:A:THR:HG23	8	0.46	0.24	0.57
(1,3599)	1:129:A:ILE:HG23	1:37:A:THR:HG23	8	0.46	0.24	0.57

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3599)	1:129:A:ILE:HG22	1:37:A:THR:HG21	8	0.46	0.24	0.57
(1,3599)	1:129:A:ILE:HG22	1:39:A:VAL:HG13	8	0.46	0.24	0.57
(1,3599)	1:129:A:ILE:HG22	1:39:A:VAL:HG11	8	0.46	0.24	0.57
(1,3599)	1:129:A:ILE:HG23	1:37:A:THR:HG22	8	0.46	0.24	0.57
(1,3735)	1:48:A:VAL:HG22	1:46:A:SER:H	8	0.43	0.24	0.38
(1,3735)	1:48:A:VAL:HG23	1:46:A:SER:H	8	0.43	0.24	0.38
(1,3735)	1:48:A:VAL:HG21	1:46:A:SER:H	8	0.43	0.24	0.38
(1,3559)	1:156:A:TYR:HA	1:157:A:SER:HB2	8	0.4	0.15	0.34
(1,3559)	1:156:A:TYR:HA	1:155:A:SER:HB2	8	0.4	0.15	0.34
(1,3559)	1:156:A:TYR:HA	1:157:A:SER:HB3	8	0.4	0.15	0.34
(1,3559)	1:156:A:TYR:HA	1:155:A:SER:HB3	8	0.4	0.15	0.34
(1,815)	1:132:A:ASP:HB2	1:135:A:SER:H	8	0.27	0.18	0.21
(1,815)	1:132:A:ASP:HB3	1:135:A:SER:H	8	0.27	0.18	0.21
(1,920)	1:149:A:THR:HB	1:180:A:SER:H	8	0.23	0.14	0.18
(1,2105)	1:41:A:GLN:HB2	1:44:A:ALA:HA	8	0.2	0.1	0.16
(1,2105)	1:41:A:GLN:HB3	1:44:A:ALA:HA	8	0.2	0.1	0.16
(1,2163)	1:50:A:ARG:HD2	1:52:A:ALA:HA	8	0.18	0.04	0.16
(1,2163)	1:50:A:ARG:HD3	1:52:A:ALA:HA	8	0.18	0.04	0.16
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD11	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD12	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD13	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD21	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD22	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD23	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD11	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD12	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD13	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD21	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD22	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD23	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD11	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD12	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD13	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD21	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD22	8	0.17	0.04	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD23	8	0.17	0.04	0.18
(1,433)	1:79:A:ALA:HA	1:80:A:GLY:H	8	0.16	0.04	0.16
(1,1483)	1:79:A:ALA:HA	1:80:A:GLY:H	8	0.16	0.04	0.16
(1,320)	1:62:A:ASP:HA	1:63:A:GLY:H	8	0.16	0.03	0.16
(1,1411)	1:62:A:ASP:HA	1:63:A:GLY:H	8	0.16	0.03	0.16
(1,851)	1:137:A:GLN:HB2	1:141:A:SER:H	8	0.14	0.03	0.14
(1,851)	1:137:A:GLN:HB3	1:141:A:SER:H	8	0.14	0.03	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG2	8	0.12	0.01	0.12
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG3	8	0.12	0.01	0.12
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG2	8	0.12	0.01	0.12
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG3	8	0.12	0.01	0.12
(1,3689)	1:97:A:ALA:HB1	1:100:A:LEU:HD21	7	0.78	0.47	0.89
(1,3689)	1:97:A:ALA:HB3	1:100:A:LEU:HD21	7	0.78	0.47	0.89
(1,3689)	1:97:A:ALA:HB2	1:100:A:LEU:HD23	7	0.78	0.47	0.89
(1,3689)	1:97:A:ALA:HB2	1:100:A:LEU:HD22	7	0.78	0.47	0.89
(1,3689)	1:97:A:ALA:HB3	1:100:A:LEU:HD22	7	0.78	0.47	0.89
(1,1168)	1:22:A:ALA:H	1:99:A:VAL:HG13	7	0.58	0.42	0.26
(1,1168)	1:22:A:ALA:H	1:99:A:VAL:HG12	7	0.58	0.42	0.26
(1,1168)	1:22:A:ALA:H	1:99:A:VAL:HG11	7	0.58	0.42	0.26
(1,3836)	1:71:A:VAL:HG12	1:66:A:LEU:HA	7	0.52	0.1	0.58
(1,3836)	1:71:A:VAL:HG23	1:66:A:LEU:HA	7	0.52	0.1	0.58
(1,3836)	1:71:A:VAL:HG13	1:66:A:LEU:HA	7	0.52	0.1	0.58
(1,3836)	1:71:A:VAL:HG21	1:66:A:LEU:HA	7	0.52	0.1	0.58
(1,3820)	1:101:A:ASN:HB2	1:104:A:ASN:HB2	7	0.47	0.29	0.37
(1,3820)	1:101:A:ASN:HB2	1:104:A:ASN:HB3	7	0.47	0.29	0.37
(1,3336)	1:137:A:GLN:HG3	1:136:A:VAL:HB	7	0.4	0.12	0.38
(1,3336)	1:137:A:GLN:HG2	1:136:A:VAL:HB	7	0.4	0.12	0.38
(1,3336)	1:21:A:VAL:HB	1:191:A:PRO:HB2	7	0.4	0.12	0.38
(1,1130)	1:186:A:LEU:H	1:187:A:GLY:HA3	7	0.37	0.15	0.32
(1,1130)	1:186:A:LEU:H	1:187:A:GLY:HA2	7	0.37	0.15	0.32
(1,3537)	1:39:A:VAL:H	1:129:A:ILE:HG22	7	0.32	0.14	0.28
(1,3537)	1:39:A:VAL:H	1:129:A:ILE:HG23	7	0.32	0.14	0.28
(1,3537)	1:39:A:VAL:H	1:129:A:ILE:HG21	7	0.32	0.14	0.28
(1,960)	1:67:A:ALA:H	1:70:A:ALA:HB2	7	0.3	0.12	0.26
(1,960)	1:67:A:ALA:H	1:70:A:ALA:HB1	7	0.3	0.12	0.26
(1,960)	1:67:A:ALA:H	1:70:A:ALA:HB3	7	0.3	0.12	0.26
(1,960)	1:67:A:ALA:H	1:71:A:VAL:HG21	7	0.3	0.12	0.26
(1,960)	1:67:A:ALA:H	1:71:A:VAL:HG13	7	0.3	0.12	0.26
(1,3796)	1:124:A:ALA:HB2	1:120:A:VAL:HA	7	0.23	0.12	0.19
(1,3796)	1:124:A:ALA:HB3	1:120:A:VAL:HA	7	0.23	0.12	0.19
(1,3796)	1:124:A:ALA:HB1	1:120:A:VAL:HA	7	0.23	0.12	0.19
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB1	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB2	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB3	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB1	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB2	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB3	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB1	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB2	7	0.2	0.05	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB3	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB1	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB2	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB3	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB1	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB2	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB3	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB1	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB2	7	0.2	0.05	0.17
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB3	7	0.2	0.05	0.17
(1,788)	1:129:A:ILE:HB	1:130:A:ASN:H	7	0.18	0.05	0.18
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD11	7	0.17	0.05	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD12	7	0.17	0.05	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD13	7	0.17	0.05	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD21	7	0.17	0.05	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD22	7	0.17	0.05	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD23	7	0.17	0.05	0.15
(1,3515)	1:31:A:LEU:HD23	1:31:A:LEU:HA	7	0.16	0.03	0.17
(1,3515)	1:31:A:LEU:HD22	1:31:A:LEU:HA	7	0.16	0.03	0.17
(1,3515)	1:31:A:LEU:HD21	1:31:A:LEU:HA	7	0.16	0.03	0.17
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB2	7	0.16	0.04	0.16
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB3	7	0.16	0.04	0.16
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB2	7	0.16	0.04	0.16
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB3	7	0.16	0.04	0.16
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB2	7	0.16	0.04	0.16
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB3	7	0.16	0.04	0.16
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB2	7	0.16	0.04	0.16
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB3	7	0.16	0.04	0.16
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB2	7	0.16	0.04	0.16
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB3	7	0.16	0.04	0.16
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB2	7	0.16	0.04	0.16
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB3	7	0.16	0.04	0.16
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE21	7	0.15	0.04	0.14
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE22	7	0.15	0.04	0.14
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG21	7	0.15	0.03	0.15
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG22	7	0.15	0.03	0.15
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG23	7	0.15	0.03	0.15
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG21	7	0.15	0.03	0.15
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG22	7	0.15	0.03	0.15
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG23	7	0.15	0.03	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	7	0.14	0.02	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	7	0.14	0.02	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	7	0.14	0.02	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	7	0.14	0.02	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	7	0.14	0.02	0.15
(1,1154)	1:106:A:ASP:H	1:105:A:ILE:HG13	7	0.13	0.02	0.12
(1,1156)	1:34:A:VAL:H	1:34:A:VAL:HA	7	0.12	0.01	0.12
(1,1156)	1:31:A:LEU:H	1:31:A:LEU:HA	7	0.12	0.01	0.12
(1,1017)	1:102:A:ALA:H	1:105:A:ILE:HD12	6	0.93	0.43	0.96
(1,1017)	1:102:A:ALA:H	1:105:A:ILE:HD13	6	0.93	0.43	0.96
(1,1017)	1:102:A:ALA:H	1:105:A:ILE:HD11	6	0.93	0.43	0.96
(1,3768)	1:172:A:PRO:HG3	1:24:A:ALA:HB3	6	0.88	0.33	1.03
(1,3768)	1:172:A:PRO:HG2	1:24:A:ALA:HB1	6	0.88	0.33	1.03
(1,3768)	1:172:A:PRO:HG3	1:18:A:ILE:HB	6	0.88	0.33	1.03
(1,3319)	1:61:A:VAL:HG11	1:65:A:ASN:HB2	6	0.69	0.36	0.8
(1,3319)	1:61:A:VAL:HG13	1:65:A:ASN:HB2	6	0.69	0.36	0.8
(1,3319)	1:61:A:VAL:HG22	1:65:A:ASN:HB2	6	0.69	0.36	0.8
(1,3319)	1:61:A:VAL:HG23	1:65:A:ASN:HB2	6	0.69	0.36	0.8
(1,3319)	1:61:A:VAL:HG21	1:65:A:ASN:HB2	6	0.69	0.36	0.8

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3281)	1:77:A:LEU:HB2	1:74:A:VAL:HG11	6	0.46	0.43	0.32
(1,3281)	1:77:A:LEU:HB3	1:74:A:VAL:HG11	6	0.46	0.43	0.32
(1,3281)	1:77:A:LEU:HB2	1:74:A:VAL:HG13	6	0.46	0.43	0.32
(1,3281)	1:77:A:LEU:HB3	1:74:A:VAL:HG12	6	0.46	0.43	0.32
(1,3281)	1:77:A:LEU:HB2	1:74:A:VAL:HG12	6	0.46	0.43	0.32
(1,3495)	1:48:A:VAL:HB	1:74:A:VAL:HG22	6	0.4	0.08	0.38
(1,3495)	1:48:A:VAL:HB	1:74:A:VAL:HG21	6	0.4	0.08	0.38
(1,3495)	1:48:A:VAL:HB	1:74:A:VAL:HG23	6	0.4	0.08	0.38
(1,1065)	1:50:A:ARG:HB2	1:50:A:ARG:HE	6	0.35	0.14	0.32
(1,1065)	1:50:A:ARG:HB3	1:50:A:ARG:HE	6	0.35	0.14	0.32
(1,1065)	1:111:A:ARG:HB2	1:111:A:ARG:HE	6	0.35	0.14	0.32
(1,1084)	1:105:A:ILE:H	1:105:A:ILE:HD13	6	0.31	0.08	0.3
(1,1084)	1:105:A:ILE:H	1:105:A:ILE:HD11	6	0.31	0.08	0.3
(1,1084)	1:105:A:ILE:H	1:105:A:ILE:HD12	6	0.31	0.08	0.3
(1,3268)	1:9:A:ALA:HA	1:113:A:LEU:HG	6	0.3	0.12	0.28
(1,3268)	1:10:A:THR:HA	1:113:A:LEU:HG	6	0.3	0.12	0.28
(1,3907)	1:77:A:LEU:HD11	1:86:A:TYR:HD2	6	0.27	0.09	0.26
(1,3907)	1:43:A:ILE:HG23	1:86:A:TYR:HD2	6	0.27	0.09	0.26
(1,3907)	1:77:A:LEU:HD23	1:86:A:TYR:HD2	6	0.27	0.09	0.26
(1,3907)	1:77:A:LEU:HD21	1:86:A:TYR:HD1	6	0.27	0.09	0.26
(1,1803)	1:177:A:THR:H	1:175:A:PRO:HA	6	0.24	0.21	0.16
(1,1803)	1:177:A:THR:H	1:179:A:PRO:HA	6	0.24	0.21	0.16
(1,3387)	1:125:A:GLN:HA	1:128:A:GLY:HA2	6	0.24	0.14	0.16
(1,3387)	1:125:A:GLN:HA	1:98:A:GLY:HA3	6	0.24	0.14	0.16
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB2	6	0.23	0.07	0.24
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB3	6	0.23	0.07	0.24
(1,1123)	1:132:A:ASP:H	1:136:A:VAL:HB	6	0.22	0.1	0.18
(1,1123)	1:132:A:ASP:H	1:71:A:VAL:HB	6	0.22	0.1	0.18
(1,3844)	1:175:A:PRO:HD2	1:177:A:THR:HB	6	0.2	0.04	0.2
(1,1904)	1:20:A:ARG:HA	1:24:A:ALA:HA	6	0.18	0.1	0.14
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE1	6	0.18	0.11	0.15
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE2	6	0.18	0.11	0.15
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE1	6	0.18	0.11	0.15
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE2	6	0.18	0.11	0.15
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE1	6	0.18	0.11	0.15
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE2	6	0.18	0.11	0.15
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE1	6	0.18	0.11	0.15
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE2	6	0.18	0.11	0.15
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE1	6	0.18	0.11	0.15
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE2	6	0.18	0.11	0.15
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE1	6	0.18	0.11	0.15
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE2	6	0.18	0.11	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3778)	1:129:A:ILE:HG23	1:130:A:ASN:HB2	6	0.18	0.08	0.15
(1,3778)	1:129:A:ILE:HG23	1:130:A:ASN:HB3	6	0.18	0.08	0.15
(1,3778)	1:129:A:ILE:HG22	1:130:A:ASN:HB3	6	0.18	0.08	0.15
(1,3778)	1:129:A:ILE:HG21	1:130:A:ASN:HB2	6	0.18	0.08	0.15
(1,3778)	1:129:A:ILE:HG22	1:130:A:ASN:HB2	6	0.18	0.08	0.15
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB2	6	0.17	0.05	0.16
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB3	6	0.17	0.05	0.16
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB2	6	0.17	0.05	0.16
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB3	6	0.17	0.05	0.16
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD21	6	0.16	0.06	0.16
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD22	6	0.16	0.06	0.16
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD21	6	0.16	0.06	0.16
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD22	6	0.16	0.06	0.16
(1,957)	1:109:A:GLY:H	1:108:A:LEU:HB2	6	0.16	0.05	0.16
(1,957)	1:109:A:GLY:H	1:108:A:LEU:HB3	6	0.16	0.05	0.16
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD1	6	0.16	0.03	0.16
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD2	6	0.16	0.03	0.16
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD1	6	0.16	0.03	0.16
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD2	6	0.16	0.03	0.16
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD1	6	0.16	0.03	0.16
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD2	6	0.16	0.03	0.16
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG21	6	0.16	0.03	0.16
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG22	6	0.16	0.03	0.16
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG23	6	0.16	0.03	0.16
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG21	6	0.16	0.03	0.16
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG22	6	0.16	0.03	0.16
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG23	6	0.16	0.03	0.16
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB2	6	0.15	0.04	0.16
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB3	6	0.15	0.04	0.16
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB2	6	0.15	0.04	0.16
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB3	6	0.15	0.04	0.16
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB2	6	0.15	0.04	0.16
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB3	6	0.15	0.04	0.16
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB2	6	0.15	0.04	0.16
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB3	6	0.15	0.04	0.16
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB2	6	0.15	0.04	0.16
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB3	6	0.15	0.04	0.16
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB2	6	0.15	0.04	0.16
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB3	6	0.15	0.04	0.16
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB2	6	0.15	0.02	0.15
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB3	6	0.15	0.02	0.15
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG21	6	0.14	0.04	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG22	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG23	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG21	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG22	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG23	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG21	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG22	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG23	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG21	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG22	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG23	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG21	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG22	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG23	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG21	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG22	6	0.14	0.04	0.14
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG23	6	0.14	0.04	0.14
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB2	6	0.14	0.03	0.13
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB3	6	0.14	0.03	0.13
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB2	6	0.14	0.03	0.13
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB3	6	0.14	0.03	0.13
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB2	6	0.14	0.03	0.13
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB3	6	0.14	0.03	0.13
(1,455)	1:83:A:THR:HG21	1:84:A:SER:H	6	0.13	0.02	0.14
(1,455)	1:83:A:THR:HG22	1:84:A:SER:H	6	0.13	0.02	0.14
(1,455)	1:83:A:THR:HG23	1:84:A:SER:H	6	0.13	0.02	0.14
(1,3005)	1:37:A:THR:HG21	1:136:A:VAL:HA	6	0.13	0.03	0.14
(1,3005)	1:37:A:THR:HG22	1:136:A:VAL:HA	6	0.13	0.03	0.14
(1,3005)	1:37:A:THR:HG23	1:136:A:VAL:HA	6	0.13	0.03	0.14
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG2	6	0.13	0.02	0.12
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG3	6	0.13	0.02	0.12
(1,1707)	1:149:A:THR:H	1:149:A:THR:HA	6	0.12	0.0	0.12
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB2	6	0.12	0.01	0.12
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB3	6	0.12	0.01	0.12
(1,3707)	1:86:A:TYR:HB2	1:43:A:ILE:HG21	5	0.6	0.24	0.48
(1,3707)	1:86:A:TYR:HB3	1:43:A:ILE:HG22	5	0.6	0.24	0.48
(1,3707)	1:86:A:TYR:HB3	1:43:A:ILE:HG23	5	0.6	0.24	0.48
(1,3707)	1:86:A:TYR:HB3	1:43:A:ILE:HG21	5	0.6	0.24	0.48
(1,3545)	1:55:A:LEU:HD21	1:49:A:GLN:HB3	5	0.58	0.37	0.41
(1,3545)	1:55:A:LEU:HD22	1:49:A:GLN:HB3	5	0.58	0.37	0.41
(1,3545)	1:55:A:LEU:HD23	1:49:A:GLN:HB3	5	0.58	0.37	0.41
(1,3545)	1:55:A:LEU:HD13	1:49:A:GLN:HB3	5	0.58	0.37	0.41

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3545)	1:48:A:VAL:HG13	1:41:A:GLN:HB3	5	0.58	0.37	0.41
(1,3791)	1:44:A:ALA:HB1	1:74:A:VAL:HA	5	0.47	0.23	0.49
(1,3791)	1:44:A:ALA:HB2	1:74:A:VAL:HA	5	0.47	0.23	0.49
(1,3791)	1:44:A:ALA:HB3	1:74:A:VAL:HA	5	0.47	0.23	0.49
(1,3622)	1:50:A:ARG:H	1:55:A:LEU:HD22	5	0.46	0.25	0.38
(1,3622)	1:122:A:SER:H	1:55:A:LEU:HD21	5	0.46	0.25	0.38
(1,3622)	1:122:A:SER:H	1:55:A:LEU:HD12	5	0.46	0.25	0.38
(1,3622)	1:50:A:ARG:H	1:55:A:LEU:HD21	5	0.46	0.25	0.38
(1,3407)	1:113:A:LEU:HB3	1:9:A:ALA:HB3	5	0.46	0.24	0.58
(1,3407)	1:113:A:LEU:HB3	1:9:A:ALA:HB2	5	0.46	0.24	0.58
(1,3407)	1:113:A:LEU:HB3	1:9:A:ALA:HB1	5	0.46	0.24	0.58
(1,3695)	1:150:A:SER:HB3	1:147:A:LEU:HA	5	0.35	0.14	0.42
(1,3695)	1:195:A:SER:HB2	1:102:A:ALA:HA	5	0.35	0.14	0.42
(1,3695)	1:150:A:SER:HB2	1:147:A:LEU:HA	5	0.35	0.14	0.42
(1,3643)	1:94:A:LEU:HG	1:116:A:LEU:HD21	5	0.31	0.14	0.33
(1,3643)	1:42:A:GLN:HB2	1:116:A:LEU:HD23	5	0.31	0.14	0.33
(1,3643)	1:42:A:GLN:HB2	1:116:A:LEU:HD21	5	0.31	0.14	0.33
(1,3643)	1:42:A:GLN:HB2	1:116:A:LEU:HD12	5	0.31	0.14	0.33
(1,3655)	1:87:A:ALA:HB1	1:35:A:LEU:HA	5	0.31	0.16	0.25
(1,3655)	1:87:A:ALA:HB3	1:39:A:VAL:HA	5	0.31	0.16	0.25
(1,3655)	1:87:A:ALA:HB2	1:35:A:LEU:HA	5	0.31	0.16	0.25
(1,3655)	1:87:A:ALA:HB2	1:39:A:VAL:HA	5	0.31	0.16	0.25
(1,3655)	1:87:A:ALA:HB3	1:35:A:LEU:HA	5	0.31	0.16	0.25
(1,326)	1:64:A:ASN:H	1:64:A:ASN:HD21	5	0.28	0.02	0.29
(1,326)	1:64:A:ASN:H	1:64:A:ASN:HD22	5	0.28	0.02	0.29
(1,1039)	1:90:A:PHE:H	1:18:A:ILE:HB	5	0.28	0.09	0.28
(1,3617)	1:124:A:ALA:HB3	1:125:A:GLN:HB2	5	0.28	0.11	0.31
(1,3617)	1:124:A:ALA:HB2	1:125:A:GLN:HB2	5	0.28	0.11	0.31
(1,3604)	1:57:A:SER:HA	1:53:A:GLN:HB3	5	0.23	0.11	0.21
(1,3604)	1:57:A:SER:HA	1:53:A:GLN:HB2	5	0.23	0.11	0.21
(1,3911)	1:18:A:ILE:HG22	1:90:A:PHE:HE1	5	0.23	0.07	0.21
(1,3434)	1:135:A:SER:HA	1:139:A:ASP:HB2	5	0.19	0.05	0.19
(1,781)	1:127:A:LEU:H	1:129:A:ILE:H	5	0.19	0.06	0.16
(1,1116)	1:93:A:ALA:H	1:94:A:LEU:HD21	5	0.19	0.1	0.15
(1,1116)	1:93:A:ALA:H	1:100:A:LEU:HD12	5	0.19	0.1	0.15
(1,1116)	1:93:A:ALA:H	1:100:A:LEU:HD23	5	0.19	0.1	0.15
(1,1116)	1:93:A:ALA:H	1:94:A:LEU:HD23	5	0.19	0.1	0.15
(1,2112)	1:41:A:GLN:HE21	1:45:A:SER:HA	5	0.18	0.06	0.2
(1,2112)	1:41:A:GLN:HE22	1:45:A:SER:HA	5	0.18	0.06	0.2
(1,3450)	1:93:A:ALA:HB2	1:92:A:SER:HB3	5	0.17	0.06	0.14
(1,3450)	1:93:A:ALA:HB1	1:92:A:SER:HB2	5	0.17	0.06	0.14
(1,3450)	1:93:A:ALA:HB3	1:92:A:SER:HB3	5	0.17	0.06	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3450)	1:93:A:ALA:HB3	1:92:A:SER:HB2	5	0.17	0.06	0.14
(1,2981)	1:71:A:VAL:HB	1:134:A:GLY:HA2	5	0.17	0.04	0.17
(1,2981)	1:71:A:VAL:HB	1:134:A:GLY:HA3	5	0.17	0.04	0.17
(1,588)	1:101:A:ASN:H	1:104:A:ASN:HD21	5	0.16	0.03	0.15
(1,588)	1:101:A:ASN:H	1:104:A:ASN:HD22	5	0.16	0.03	0.15
(1,2609)	1:23:A:ASN:HD21	1:97:A:ALA:HA	5	0.15	0.02	0.15
(1,2609)	1:23:A:ASN:HD22	1:97:A:ALA:HA	5	0.15	0.02	0.15
(1,728)	1:116:A:LEU:H	1:120:A:VAL:H	5	0.14	0.04	0.13
(1,877)	1:147:A:LEU:H	1:150:A:SER:HB2	5	0.14	0.02	0.13
(1,877)	1:147:A:LEU:H	1:150:A:SER:HB3	5	0.14	0.02	0.13
(1,3892)	1:37:A:THR:HG21	1:95:A:PHE:HE1	5	0.14	0.02	0.14
(1,3892)	1:37:A:THR:HG21	1:95:A:PHE:HE2	5	0.14	0.02	0.14
(1,3892)	1:37:A:THR:HG22	1:95:A:PHE:HE1	5	0.14	0.02	0.14
(1,3892)	1:37:A:THR:HG22	1:95:A:PHE:HE2	5	0.14	0.02	0.14
(1,3892)	1:37:A:THR:HG23	1:95:A:PHE:HE1	5	0.14	0.02	0.14
(1,3892)	1:37:A:THR:HG23	1:95:A:PHE:HE2	5	0.14	0.02	0.14
(1,295)	1:50:A:ARG:HB2	1:57:A:SER:H	5	0.14	0.04	0.13
(1,295)	1:50:A:ARG:HB3	1:57:A:SER:H	5	0.14	0.04	0.13
(1,589)	1:101:A:ASN:H	1:104:A:ASN:H	5	0.14	0.02	0.12
(1,2210)	1:54:A:SER:HA	1:57:A:SER:HB2	5	0.14	0.02	0.14
(1,2210)	1:54:A:SER:HA	1:57:A:SER:HB3	5	0.14	0.02	0.14
(1,2280)	1:62:A:ASP:HA	1:66:A:LEU:HG	5	0.13	0.03	0.12
(1,3021)	1:28:A:THR:HG21	1:139:A:ASP:HA	5	0.13	0.02	0.13
(1,3021)	1:28:A:THR:HG22	1:139:A:ASP:HA	5	0.13	0.02	0.13
(1,3021)	1:28:A:THR:HG23	1:139:A:ASP:HA	5	0.13	0.02	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG11	5	0.12	0.01	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG12	5	0.12	0.01	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG13	5	0.12	0.01	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG21	5	0.12	0.01	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG22	5	0.12	0.01	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG23	5	0.12	0.01	0.13
(1,3711)	1:149:A:THR:H	1:149:A:THR:HA	5	0.12	0.0	0.12
(1,3786)	1:15:A:ALA:H	1:16:A:GLY:HA3	5	0.11	0.01	0.11
(1,1078)	1:56:A:ALA:H	1:50:A:ARG:HE	4	0.72	0.24	0.8
(1,1078)	1:56:A:ALA:H	1:53:A:GLN:HE21	4	0.72	0.24	0.8
(1,3647)	1:35:A:LEU:HG	1:131:A:VAL:HG22	4	0.7	0.54	0.5
(1,3647)	1:35:A:LEU:HG	1:131:A:VAL:HG23	4	0.7	0.54	0.5
(1,3852)	1:48:A:VAL:HG23	1:35:A:LEU:HD11	4	0.55	0.25	0.46
(1,3852)	1:48:A:VAL:HG13	1:35:A:LEU:HD11	4	0.55	0.25	0.46
(1,3852)	1:48:A:VAL:HG11	1:35:A:LEU:HD23	4	0.55	0.25	0.46
(1,3852)	1:48:A:VAL:HG23	1:35:A:LEU:HD22	4	0.55	0.25	0.46
(1,1075)	1:48:A:VAL:H	1:73:A:ALA:HB3	4	0.5	0.31	0.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1075)	1:48:A:VAL:H	1:73:A:ALA:HB1	4	0.5	0.31	0.44
(1,1075)	1:48:A:VAL:H	1:56:A:ALA:HB1	4	0.5	0.31	0.44
(1,3589)	1:117:A:LEU:HB3	1:105:A:ILE:HG13	4	0.44	0.24	0.39
(1,3589)	1:117:A:LEU:HB3	1:105:A:ILE:HG12	4	0.44	0.24	0.39
(1,3561)	1:111:A:ARG:HD3	1:111:A:ARG:HA	4	0.43	0.07	0.4
(1,3561)	1:50:A:ARG:HD2	1:50:A:ARG:HA	4	0.43	0.07	0.4
(1,3561)	1:50:A:ARG:HD3	1:50:A:ARG:HA	4	0.43	0.07	0.4
(1,923)	1:182:A:TYR:H	1:185:A:PRO:HD2	4	0.42	0.28	0.38
(1,923)	1:182:A:TYR:H	1:185:A:PRO:HD3	4	0.42	0.28	0.38
(1,3692)	1:117:A:LEU:HG	1:105:A:ILE:HG21	4	0.4	0.36	0.23
(1,3692)	1:117:A:LEU:HG	1:105:A:ILE:HG23	4	0.4	0.36	0.23
(1,3748)	1:50:A:ARG:HD2	1:55:A:LEU:HA	4	0.4	0.2	0.38
(1,3748)	1:36:A:ARG:HD2	1:91:A:SER:HB3	4	0.4	0.2	0.38
(1,3748)	1:36:A:ARG:HD2	1:91:A:SER:HB2	4	0.4	0.2	0.38
(1,3748)	1:36:A:ARG:HD3	1:91:A:SER:HB3	4	0.4	0.2	0.38
(1,901)	1:163:A:SER:H	1:163:A:SER:HB2	4	0.35	0.16	0.38
(1,901)	1:163:A:SER:H	1:163:A:SER:HB3	4	0.35	0.16	0.38
(1,1113)	1:65:A:ASN:HD21	1:47:A:VAL:HB	4	0.32	0.12	0.32
(1,3583)	1:74:A:VAL:HG23	1:44:A:ALA:HA	4	0.32	0.1	0.32
(1,3583)	1:74:A:VAL:HG22	1:44:A:ALA:HA	4	0.32	0.1	0.32
(1,3583)	1:74:A:VAL:HG21	1:44:A:ALA:HA	4	0.32	0.1	0.32
(1,3645)	1:25:A:LEU:HD11	1:180:A:SER:H	4	0.3	0.1	0.28
(1,3645)	1:94:A:LEU:HD11	1:40:A:SER:H	4	0.3	0.1	0.28
(1,1091)	1:104:A:ASN:H	1:105:A:ILE:HD13	4	0.27	0.06	0.25
(1,1091)	1:104:A:ASN:H	1:105:A:ILE:HD11	4	0.27	0.06	0.25
(1,942)	1:194:A:GLN:H	1:194:A:GLN:HB2	4	0.26	0.13	0.24
(1,942)	1:194:A:GLN:H	1:194:A:GLN:HB3	4	0.26	0.13	0.24
(1,3722)	1:59:A:LEU:HB2	1:61:A:VAL:HG21	4	0.21	0.08	0.21
(1,3722)	1:59:A:LEU:HB2	1:61:A:VAL:HG22	4	0.21	0.08	0.21
(1,3187)	1:186:A:LEU:HD11	1:191:A:PRO:HD2	4	0.21	0.02	0.21
(1,3187)	1:186:A:LEU:HD11	1:191:A:PRO:HD3	4	0.21	0.02	0.21
(1,3187)	1:186:A:LEU:HD12	1:191:A:PRO:HD2	4	0.21	0.02	0.21
(1,3187)	1:186:A:LEU:HD12	1:191:A:PRO:HD3	4	0.21	0.02	0.21
(1,3187)	1:186:A:LEU:HD13	1:191:A:PRO:HD2	4	0.21	0.02	0.21
(1,3187)	1:186:A:LEU:HD13	1:191:A:PRO:HD3	4	0.21	0.02	0.21
(1,3187)	1:186:A:LEU:HD21	1:191:A:PRO:HD2	4	0.21	0.02	0.21
(1,3187)	1:186:A:LEU:HD21	1:191:A:PRO:HD3	4	0.21	0.02	0.21
(1,3187)	1:186:A:LEU:HD22	1:191:A:PRO:HD2	4	0.21	0.02	0.21
(1,3187)	1:186:A:LEU:HD22	1:191:A:PRO:HD3	4	0.21	0.02	0.21
(1,3187)	1:186:A:LEU:HD23	1:191:A:PRO:HD2	4	0.21	0.02	0.21
(1,3187)	1:186:A:LEU:HD23	1:191:A:PRO:HD3	4	0.21	0.02	0.21
(1,3095)	1:146:A:PHE:HB2	1:150:A:SER:HA	4	0.21	0.09	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3095)	1:146:A:PHE:HB3	1:150:A:SER:HA	4	0.21	0.09	0.18
(1,3670)	1:23:A:ASN:H	1:26:A:ALA:HB1	4	0.21	0.09	0.18
(1,3670)	1:23:A:ASN:H	1:26:A:ALA:HB3	4	0.21	0.09	0.18
(1,3203)	1:186:A:LEU:HB2	1:194:A:GLN:HG2	4	0.2	0.09	0.16
(1,3203)	1:186:A:LEU:HB2	1:194:A:GLN:HG3	4	0.2	0.09	0.16
(1,3203)	1:186:A:LEU:HB3	1:194:A:GLN:HG2	4	0.2	0.09	0.16
(1,3203)	1:186:A:LEU:HB3	1:194:A:GLN:HG3	4	0.2	0.09	0.16
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD11	4	0.19	0.05	0.18
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD12	4	0.19	0.05	0.18
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD13	4	0.19	0.05	0.18
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD21	4	0.19	0.05	0.18
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD22	4	0.19	0.05	0.18
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD23	4	0.19	0.05	0.18
(1,1028)	1:71:A:VAL:H	1:66:A:LEU:HA	4	0.19	0.06	0.19
(1,1028)	1:71:A:VAL:H	1:72:A:GLN:HA	4	0.19	0.06	0.19
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG11	4	0.18	0.04	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG12	4	0.18	0.04	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG13	4	0.18	0.04	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG21	4	0.18	0.04	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG22	4	0.18	0.04	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG23	4	0.18	0.04	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG11	4	0.18	0.04	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG12	4	0.18	0.04	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG13	4	0.18	0.04	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG21	4	0.18	0.04	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG22	4	0.18	0.04	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG23	4	0.18	0.04	0.2
(1,2398)	1:76:A:ARG:HA	1:76:A:ARG:HD2	4	0.17	0.03	0.17
(1,2398)	1:76:A:ARG:HA	1:76:A:ARG:HD3	4	0.17	0.03	0.17
(1,771)	1:127:A:LEU:H	1:128:A:GLY:HA2	4	0.16	0.02	0.17
(1,771)	1:127:A:LEU:H	1:128:A:GLY:HA3	4	0.16	0.02	0.17
(1,897)	1:156:A:TYR:HA	1:160:A:SER:H	4	0.16	0.09	0.12
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG21	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG22	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG23	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG21	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG22	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG23	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG21	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG22	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG23	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG21	4	0.15	0.05	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG22	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG23	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG21	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG22	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG23	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG21	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG22	4	0.15	0.05	0.14
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG23	4	0.15	0.05	0.14
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG11	4	0.15	0.03	0.15
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG12	4	0.15	0.03	0.15
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG13	4	0.15	0.03	0.15
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG21	4	0.15	0.03	0.15
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG22	4	0.15	0.03	0.15
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG23	4	0.15	0.03	0.15
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG11	4	0.15	0.03	0.15
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG12	4	0.15	0.03	0.15
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG13	4	0.15	0.03	0.15
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG21	4	0.15	0.03	0.15
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG22	4	0.15	0.03	0.15
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG23	4	0.15	0.03	0.15
(1,2517)	1:87:A:ALA:HB1	1:88:A:GLN:HE21	4	0.15	0.03	0.15
(1,2517)	1:87:A:ALA:HB1	1:88:A:GLN:HE22	4	0.15	0.03	0.15
(1,2517)	1:87:A:ALA:HB2	1:88:A:GLN:HE21	4	0.15	0.03	0.15
(1,2517)	1:87:A:ALA:HB2	1:88:A:GLN:HE22	4	0.15	0.03	0.15
(1,2517)	1:87:A:ALA:HB3	1:88:A:GLN:HE21	4	0.15	0.03	0.15
(1,2517)	1:87:A:ALA:HB3	1:88:A:GLN:HE22	4	0.15	0.03	0.15
(1,221)	1:2:A:GLY:H	1:45:A:SER:HA	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD11	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD12	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD13	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD21	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD22	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD23	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD11	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD12	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD13	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD21	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD22	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD23	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD11	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD12	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD13	4	0.15	0.01	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD21	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD22	4	0.15	0.01	0.15
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD23	4	0.15	0.01	0.15
(1,2444)	1:77:A:LEU:HG	1:78:A:PRO:HG2	4	0.15	0.03	0.15
(1,2444)	1:77:A:LEU:HG	1:78:A:PRO:HG3	4	0.15	0.03	0.15
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG21	4	0.15	0.03	0.16
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG22	4	0.15	0.03	0.16
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG23	4	0.15	0.03	0.16
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG21	4	0.15	0.03	0.16
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG22	4	0.15	0.03	0.16
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG23	4	0.15	0.03	0.16
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG21	4	0.15	0.03	0.16
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG22	4	0.15	0.03	0.16
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG23	4	0.15	0.03	0.16
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD11	4	0.14	0.03	0.14
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD12	4	0.14	0.03	0.14
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD13	4	0.14	0.03	0.14
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD21	4	0.14	0.03	0.14
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD22	4	0.14	0.03	0.14
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD23	4	0.14	0.03	0.14
(1,899)	1:162:A:SER:H	1:162:A:SER:HB2	4	0.14	0.0	0.14
(1,899)	1:162:A:SER:H	1:162:A:SER:HB3	4	0.14	0.0	0.14
(1,2241)	1:58:A:THR:HG21	1:61:A:VAL:HB	4	0.14	0.03	0.14
(1,2241)	1:58:A:THR:HG22	1:61:A:VAL:HB	4	0.14	0.03	0.14
(1,2241)	1:58:A:THR:HG23	1:61:A:VAL:HB	4	0.14	0.03	0.14
(1,597)	1:21:A:VAL:HG11	1:104:A:ASN:HD21	4	0.14	0.02	0.14
(1,597)	1:21:A:VAL:HG11	1:104:A:ASN:HD22	4	0.14	0.02	0.14
(1,597)	1:21:A:VAL:HG12	1:104:A:ASN:HD21	4	0.14	0.02	0.14
(1,597)	1:21:A:VAL:HG12	1:104:A:ASN:HD22	4	0.14	0.02	0.14
(1,597)	1:21:A:VAL:HG13	1:104:A:ASN:HD21	4	0.14	0.02	0.14
(1,597)	1:21:A:VAL:HG13	1:104:A:ASN:HD22	4	0.14	0.02	0.14
(1,597)	1:21:A:VAL:HG21	1:104:A:ASN:HD21	4	0.14	0.02	0.14
(1,597)	1:21:A:VAL:HG21	1:104:A:ASN:HD22	4	0.14	0.02	0.14
(1,597)	1:21:A:VAL:HG22	1:104:A:ASN:HD21	4	0.14	0.02	0.14
(1,597)	1:21:A:VAL:HG22	1:104:A:ASN:HD22	4	0.14	0.02	0.14
(1,597)	1:21:A:VAL:HG23	1:104:A:ASN:HD21	4	0.14	0.02	0.14
(1,597)	1:21:A:VAL:HG23	1:104:A:ASN:HD22	4	0.14	0.02	0.14
(1,801)	1:131:A:VAL:HB	1:132:A:ASP:H	4	0.13	0.01	0.14
(1,1660)	1:131:A:VAL:HB	1:132:A:ASP:H	4	0.13	0.01	0.14
(1,268)	1:50:A:ARG:HG2	1:53:A:GLN:H	4	0.13	0.02	0.12
(1,268)	1:50:A:ARG:HG3	1:53:A:GLN:H	4	0.13	0.02	0.12
(1,1354)	1:50:A:ARG:H	1:50:A:ARG:HD2	4	0.13	0.01	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1354)	1:50:A:ARG:H	1:50:A:ARG:HD3	4	0.13	0.01	0.13
(1,276)	1:50:A:ARG:HB2	1:54:A:SER:H	4	0.12	0.04	0.11
(1,276)	1:50:A:ARG:HB3	1:54:A:SER:H	4	0.12	0.04	0.11
(1,2492)	1:77:A:LEU:HD11	1:86:A:TYR:HA	4	0.12	0.01	0.12
(1,2492)	1:77:A:LEU:HD12	1:86:A:TYR:HA	4	0.12	0.01	0.12
(1,2492)	1:77:A:LEU:HD13	1:86:A:TYR:HA	4	0.12	0.01	0.12
(1,2492)	1:77:A:LEU:HD21	1:86:A:TYR:HA	4	0.12	0.01	0.12
(1,2492)	1:77:A:LEU:HD22	1:86:A:TYR:HA	4	0.12	0.01	0.12
(1,2492)	1:77:A:LEU:HD23	1:86:A:TYR:HA	4	0.12	0.01	0.12
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB1	4	0.12	0.02	0.12
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB2	4	0.12	0.02	0.12
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB3	4	0.12	0.02	0.12
(1,1281)	1:33:A:THR:HB	1:34:A:VAL:H	4	0.12	0.02	0.12
(1,1989)	1:33:A:THR:HB	1:34:A:VAL:H	4	0.12	0.02	0.12
(1,2645)	1:22:A:ALA:HA	1:100:A:LEU:HB2	4	0.12	0.01	0.12
(1,2645)	1:22:A:ALA:HA	1:100:A:LEU:HB3	4	0.12	0.01	0.12
(1,1777)	1:165:A:SER:H	1:165:A:SER:HA	4	0.12	0.01	0.12
(1,1777)	1:153:A:SER:H	1:153:A:SER:HA	4	0.12	0.01	0.12
(1,2835)	1:110:A:SER:HA	1:117:A:LEU:HA	4	0.12	0.02	0.11
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD11	4	0.12	0.0	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD12	4	0.12	0.0	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD13	4	0.12	0.0	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD21	4	0.12	0.0	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD22	4	0.12	0.0	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD23	4	0.12	0.0	0.12
(1,1957)	1:30:A:THR:HG21	1:31:A:LEU:H	4	0.11	0.0	0.11
(1,1957)	1:30:A:THR:HG22	1:31:A:LEU:H	4	0.11	0.0	0.11
(1,1957)	1:30:A:THR:HG23	1:31:A:LEU:H	4	0.11	0.0	0.11
(1,3213)	1:129:A:ILE:HD13	1:50:A:ARG:HG2	3	0.69	0.36	0.92
(1,3213)	1:129:A:ILE:HD12	1:50:A:ARG:HG2	3	0.69	0.36	0.92
(1,3454)	1:35:A:LEU:HD11	1:131:A:VAL:HG11	3	0.46	0.2	0.37
(1,3454)	1:35:A:LEU:HD13	1:34:A:VAL:HG13	3	0.46	0.2	0.37
(1,3454)	1:35:A:LEU:HD13	1:131:A:VAL:HG11	3	0.46	0.2	0.37
(1,1169)	1:42:A:GLN:HE21	1:42:A:GLN:HA	3	0.33	0.3	0.13
(1,3150)	1:182:A:TYR:HB2	1:183:A:PRO:HB2	3	0.27	0.03	0.27
(1,3150)	1:182:A:TYR:HB2	1:183:A:PRO:HB3	3	0.27	0.03	0.27
(1,3150)	1:182:A:TYR:HB3	1:183:A:PRO:HB2	3	0.27	0.03	0.27
(1,3150)	1:182:A:TYR:HB3	1:183:A:PRO:HB3	3	0.27	0.03	0.27
(1,3374)	1:93:A:ALA:HB3	1:90:A:PHE:HA	3	0.26	0.07	0.27
(1,3374)	1:93:A:ALA:HB2	1:90:A:PHE:HA	3	0.26	0.07	0.27
(1,3090)	1:27:A:ASN:HB2	1:149:A:THR:HG21	3	0.26	0.09	0.23
(1,3090)	1:27:A:ASN:HB2	1:149:A:THR:HG22	3	0.26	0.09	0.23

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3090)	1:27:A:ASN:HB2	1:149:A:THR:HG23	3	0.26	0.09	0.23
(1,3090)	1:27:A:ASN:HB3	1:149:A:THR:HG21	3	0.26	0.09	0.23
(1,3090)	1:27:A:ASN:HB3	1:149:A:THR:HG22	3	0.26	0.09	0.23
(1,3090)	1:27:A:ASN:HB3	1:149:A:THR:HG23	3	0.26	0.09	0.23
(1,3400)	1:140:A:ILE:HD11	1:141:A:SER:HB3	3	0.25	0.13	0.21
(1,3400)	1:140:A:ILE:HD13	1:37:A:THR:HB	3	0.25	0.13	0.21
(1,3400)	1:140:A:ILE:HD13	1:141:A:SER:HB3	3	0.25	0.13	0.21
(1,3470)	1:100:A:LEU:HD13	1:105:A:ILE:HG12	3	0.25	0.09	0.24
(1,3470)	1:100:A:LEU:HD11	1:105:A:ILE:HG12	3	0.25	0.09	0.24
(1,3616)	1:31:A:LEU:HD21	1:26:A:ALA:HB3	3	0.24	0.1	0.19
(1,3616)	1:31:A:LEU:HD21	1:26:A:ALA:HB2	3	0.24	0.1	0.19
(1,3616)	1:31:A:LEU:HD23	1:26:A:ALA:HB1	3	0.24	0.1	0.19
(1,3509)	1:170:A:THR:HA	1:170:A:THR:HB	3	0.23	0.0	0.23
(1,3509)	1:10:A:THR:HA	1:10:A:THR:HB	3	0.23	0.0	0.23
(1,3322)	1:108:A:LEU:HD22	1:107:A:THR:HB	3	0.22	0.04	0.22
(1,3082)	1:147:A:LEU:HB2	1:148:A:SER:HB2	3	0.22	0.01	0.21
(1,3082)	1:147:A:LEU:HB2	1:148:A:SER:HB3	3	0.22	0.01	0.21
(1,3082)	1:147:A:LEU:HB3	1:148:A:SER:HB2	3	0.22	0.01	0.21
(1,3082)	1:147:A:LEU:HB3	1:148:A:SER:HB3	3	0.22	0.01	0.21
(1,3543)	1:17:A:LEU:HD13	1:93:A:ALA:HA	3	0.21	0.13	0.14
(1,3543)	1:17:A:LEU:HD11	1:93:A:ALA:HA	3	0.21	0.13	0.14
(1,2869)	1:55:A:LEU:HB2	1:120:A:VAL:HA	3	0.2	0.05	0.17
(1,2869)	1:55:A:LEU:HB3	1:120:A:VAL:HA	3	0.2	0.05	0.17
(1,3430)	1:50:A:ARG:HD3	1:56:A:ALA:HB1	3	0.19	0.04	0.21
(1,3430)	1:50:A:ARG:HD3	1:124:A:ALA:HB1	3	0.19	0.04	0.21
(1,3430)	1:50:A:ARG:HD3	1:124:A:ALA:HB2	3	0.19	0.04	0.21
(1,914)	1:170:A:THR:H	1:175:A:PRO:HD2	3	0.19	0.05	0.2
(1,914)	1:170:A:THR:H	1:175:A:PRO:HD3	3	0.19	0.05	0.2
(1,3132)	1:161:A:ALA:HB1	1:175:A:PRO:HB2	3	0.19	0.04	0.17
(1,3132)	1:161:A:ALA:HB1	1:175:A:PRO:HB3	3	0.19	0.04	0.17
(1,3132)	1:161:A:ALA:HB2	1:175:A:PRO:HB2	3	0.19	0.04	0.17
(1,3132)	1:161:A:ALA:HB2	1:175:A:PRO:HB3	3	0.19	0.04	0.17
(1,3132)	1:161:A:ALA:HB3	1:175:A:PRO:HB2	3	0.19	0.04	0.17
(1,3132)	1:161:A:ALA:HB3	1:175:A:PRO:HB3	3	0.19	0.04	0.17
(1,927)	1:179:A:PRO:HD2	1:187:A:GLY:H	3	0.19	0.05	0.17
(1,927)	1:179:A:PRO:HD3	1:187:A:GLY:H	3	0.19	0.05	0.17
(1,688)	1:10:A:THR:H	1:116:A:LEU:HB2	3	0.18	0.05	0.15
(1,688)	1:10:A:THR:H	1:116:A:LEU:HB3	3	0.18	0.05	0.15
(1,3202)	1:99:A:VAL:HG11	1:194:A:GLN:HA	3	0.18	0.06	0.15
(1,3202)	1:99:A:VAL:HG12	1:194:A:GLN:HA	3	0.18	0.06	0.15
(1,3202)	1:99:A:VAL:HG13	1:194:A:GLN:HA	3	0.18	0.06	0.15
(1,3202)	1:99:A:VAL:HG21	1:194:A:GLN:HA	3	0.18	0.06	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3202)	1:99:A:VAL:HG22	1:194:A:GLN:HA	3	0.18	0.06	0.15
(1,3202)	1:99:A:VAL:HG23	1:194:A:GLN:HA	3	0.18	0.06	0.15
(1,11)	1:4:A:GLN:H	1:8:A:GLY:H	3	0.18	0.03	0.2
(1,917)	1:161:A:ALA:H	1:177:A:THR:HB	3	0.18	0.06	0.18
(1,3458)	1:23:A:ASN:HB2	1:24:A:ALA:HB2	3	0.18	0.08	0.14
(1,3458)	1:23:A:ASN:HB2	1:24:A:ALA:HB3	3	0.18	0.08	0.14
(1,3458)	1:132:A:ASP:HB3	1:67:A:ALA:HB1	3	0.18	0.08	0.14
(1,893)	1:153:A:SER:HB2	1:158:A:GLN:H	3	0.18	0.04	0.2
(1,893)	1:153:A:SER:HB3	1:158:A:GLN:H	3	0.18	0.04	0.2
(1,2496)	1:35:A:LEU:HD11	1:86:A:TYR:HD1	3	0.18	0.04	0.16
(1,2496)	1:35:A:LEU:HD11	1:86:A:TYR:HD2	3	0.18	0.04	0.16
(1,2496)	1:35:A:LEU:HD12	1:86:A:TYR:HD1	3	0.18	0.04	0.16
(1,2496)	1:35:A:LEU:HD12	1:86:A:TYR:HD2	3	0.18	0.04	0.16
(1,2496)	1:35:A:LEU:HD13	1:86:A:TYR:HD1	3	0.18	0.04	0.16
(1,2496)	1:35:A:LEU:HD13	1:86:A:TYR:HD2	3	0.18	0.04	0.16
(1,2496)	1:35:A:LEU:HD21	1:86:A:TYR:HD1	3	0.18	0.04	0.16
(1,2496)	1:35:A:LEU:HD21	1:86:A:TYR:HD2	3	0.18	0.04	0.16
(1,2496)	1:35:A:LEU:HD22	1:86:A:TYR:HD1	3	0.18	0.04	0.16
(1,2496)	1:35:A:LEU:HD22	1:86:A:TYR:HD2	3	0.18	0.04	0.16
(1,2496)	1:35:A:LEU:HD23	1:86:A:TYR:HD1	3	0.18	0.04	0.16
(1,2496)	1:35:A:LEU:HD23	1:86:A:TYR:HD2	3	0.18	0.04	0.16
(1,2970)	1:37:A:THR:HA	1:131:A:VAL:HB	3	0.18	0.05	0.18
(1,3198)	1:190:A:ALA:HB1	1:194:A:GLN:HB2	3	0.17	0.04	0.18
(1,3198)	1:190:A:ALA:HB1	1:194:A:GLN:HB3	3	0.17	0.04	0.18
(1,3198)	1:190:A:ALA:HB2	1:194:A:GLN:HB2	3	0.17	0.04	0.18
(1,3198)	1:190:A:ALA:HB2	1:194:A:GLN:HB3	3	0.17	0.04	0.18
(1,3198)	1:190:A:ALA:HB3	1:194:A:GLN:HB2	3	0.17	0.04	0.18
(1,3198)	1:190:A:ALA:HB3	1:194:A:GLN:HB3	3	0.17	0.04	0.18
(1,3146)	1:25:A:LEU:HD11	1:178:A:GLY:HA2	3	0.17	0.06	0.14
(1,3146)	1:25:A:LEU:HD11	1:178:A:GLY:HA3	3	0.17	0.06	0.14
(1,3146)	1:25:A:LEU:HD12	1:178:A:GLY:HA2	3	0.17	0.06	0.14
(1,3146)	1:25:A:LEU:HD12	1:178:A:GLY:HA3	3	0.17	0.06	0.14
(1,3146)	1:25:A:LEU:HD13	1:178:A:GLY:HA2	3	0.17	0.06	0.14
(1,3146)	1:25:A:LEU:HD13	1:178:A:GLY:HA3	3	0.17	0.06	0.14
(1,3146)	1:25:A:LEU:HD21	1:178:A:GLY:HA2	3	0.17	0.06	0.14
(1,3146)	1:25:A:LEU:HD21	1:178:A:GLY:HA3	3	0.17	0.06	0.14
(1,3146)	1:25:A:LEU:HD22	1:178:A:GLY:HA2	3	0.17	0.06	0.14
(1,3146)	1:25:A:LEU:HD22	1:178:A:GLY:HA3	3	0.17	0.06	0.14
(1,3146)	1:25:A:LEU:HD23	1:178:A:GLY:HA2	3	0.17	0.06	0.14
(1,3146)	1:25:A:LEU:HD23	1:178:A:GLY:HA3	3	0.17	0.06	0.14
(1,878)	1:153:A:SER:H	1:153:A:SER:HB2	3	0.17	0.04	0.19
(1,878)	1:153:A:SER:H	1:153:A:SER:HB3	3	0.17	0.04	0.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,885)	1:154:A:ALA:HA	1:156:A:TYR:H	3	0.16	0.04	0.18
(1,352)	1:66:A:LEU:HG	1:67:A:ALA:H	3	0.16	0.04	0.18
(1,203)	1:10:A:THR:H	1:42:A:GLN:HB2	3	0.16	0.04	0.15
(1,203)	1:10:A:THR:H	1:42:A:GLN:HB3	3	0.16	0.04	0.15
(1,1824)	1:4:A:GLN:HG2	1:7:A:PHE:HB2	3	0.16	0.05	0.12
(1,1824)	1:4:A:GLN:HG2	1:7:A:PHE:HB3	3	0.16	0.05	0.12
(1,1824)	1:4:A:GLN:HG3	1:7:A:PHE:HB2	3	0.16	0.05	0.12
(1,1824)	1:4:A:GLN:HG3	1:7:A:PHE:HB3	3	0.16	0.05	0.12
(1,2558)	1:21:A:VAL:HG11	1:93:A:ALA:HA	3	0.16	0.06	0.12
(1,2558)	1:21:A:VAL:HG12	1:93:A:ALA:HA	3	0.16	0.06	0.12
(1,2558)	1:21:A:VAL:HG13	1:93:A:ALA:HA	3	0.16	0.06	0.12
(1,2558)	1:21:A:VAL:HG21	1:93:A:ALA:HA	3	0.16	0.06	0.12
(1,2558)	1:21:A:VAL:HG22	1:93:A:ALA:HA	3	0.16	0.06	0.12
(1,2558)	1:21:A:VAL:HG23	1:93:A:ALA:HA	3	0.16	0.06	0.12
(1,1023)	1:164:A:THR:HA	1:166:A:GLY:H	3	0.15	0.03	0.15
(1,342)	1:60:A:GLY:HA2	1:65:A:ASN:HD21	3	0.15	0.02	0.15
(1,342)	1:60:A:GLY:HA2	1:65:A:ASN:HD22	3	0.15	0.02	0.15
(1,342)	1:60:A:GLY:HA3	1:65:A:ASN:HD21	3	0.15	0.02	0.15
(1,342)	1:60:A:GLY:HA3	1:65:A:ASN:HD22	3	0.15	0.02	0.15
(1,3103)	1:157:A:SER:HB2	1:158:A:GLN:HG2	3	0.15	0.05	0.13
(1,3103)	1:157:A:SER:HB2	1:158:A:GLN:HG3	3	0.15	0.05	0.13
(1,3103)	1:157:A:SER:HB3	1:158:A:GLN:HG2	3	0.15	0.05	0.13
(1,3103)	1:157:A:SER:HB3	1:158:A:GLN:HG3	3	0.15	0.05	0.13
(1,3003)	1:131:A:VAL:HG11	1:136:A:VAL:HB	3	0.15	0.04	0.15
(1,3003)	1:131:A:VAL:HG12	1:136:A:VAL:HB	3	0.15	0.04	0.15
(1,3003)	1:131:A:VAL:HG13	1:136:A:VAL:HB	3	0.15	0.04	0.15
(1,3003)	1:131:A:VAL:HG21	1:136:A:VAL:HB	3	0.15	0.04	0.15
(1,3003)	1:131:A:VAL:HG22	1:136:A:VAL:HB	3	0.15	0.04	0.15
(1,3003)	1:131:A:VAL:HG23	1:136:A:VAL:HB	3	0.15	0.04	0.15
(1,609)	1:101:A:ASN:H	1:105:A:ILE:H	3	0.14	0.03	0.15
(1,933)	1:20:A:ARG:H	1:191:A:PRO:HG2	3	0.14	0.02	0.13
(1,933)	1:20:A:ARG:H	1:191:A:PRO:HG3	3	0.14	0.02	0.13
(1,1097)	1:66:A:LEU:H	1:63:A:GLY:HA2	3	0.14	0.02	0.15
(1,3186)	1:20:A:ARG:H	1:191:A:PRO:HG2	3	0.14	0.02	0.13
(1,3186)	1:20:A:ARG:H	1:191:A:PRO:HG3	3	0.14	0.02	0.13
(1,315)	1:53:A:GLN:HE21	1:61:A:VAL:HB	3	0.13	0.02	0.14
(1,315)	1:53:A:GLN:HE22	1:61:A:VAL:HB	3	0.13	0.02	0.14
(1,1127)	1:163:A:SER:H	1:162:A:SER:HA	3	0.13	0.01	0.13
(1,1403)	1:53:A:GLN:HE21	1:61:A:VAL:HB	3	0.13	0.02	0.14
(1,1403)	1:53:A:GLN:HE22	1:61:A:VAL:HB	3	0.13	0.02	0.14
(1,2086)	1:40:A:SER:HB2	1:43:A:ILE:HG21	3	0.13	0.02	0.13
(1,2086)	1:40:A:SER:HB2	1:43:A:ILE:HG22	3	0.13	0.02	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2086)	1:40:A:SER:HB2	1:43:A:ILE:HG23	3	0.13	0.02	0.13
(1,2086)	1:40:A:SER:HB3	1:43:A:ILE:HG21	3	0.13	0.02	0.13
(1,2086)	1:40:A:SER:HB3	1:43:A:ILE:HG22	3	0.13	0.02	0.13
(1,2086)	1:40:A:SER:HB3	1:43:A:ILE:HG23	3	0.13	0.02	0.13
(1,3184)	1:20:A:ARG:HA	1:191:A:PRO:HD2	3	0.13	0.02	0.12
(1,3184)	1:20:A:ARG:HA	1:191:A:PRO:HD3	3	0.13	0.02	0.12
(1,946)	1:196:A:GLY:H	1:197:A:PHE:HA	3	0.13	0.02	0.12
(1,2961)	1:38:A:GLY:HA2	1:130:A:ASN:HA	3	0.13	0.03	0.11
(1,2961)	1:38:A:GLY:HA3	1:130:A:ASN:HA	3	0.13	0.03	0.11
(1,3124)	1:31:A:LEU:HD11	1:172:A:PRO:HD2	3	0.13	0.02	0.14
(1,3124)	1:31:A:LEU:HD11	1:172:A:PRO:HD3	3	0.13	0.02	0.14
(1,3124)	1:31:A:LEU:HD12	1:172:A:PRO:HD2	3	0.13	0.02	0.14
(1,3124)	1:31:A:LEU:HD12	1:172:A:PRO:HD3	3	0.13	0.02	0.14
(1,3124)	1:31:A:LEU:HD13	1:172:A:PRO:HD2	3	0.13	0.02	0.14
(1,3124)	1:31:A:LEU:HD13	1:172:A:PRO:HD3	3	0.13	0.02	0.14
(1,3124)	1:31:A:LEU:HD21	1:172:A:PRO:HD2	3	0.13	0.02	0.14
(1,3124)	1:31:A:LEU:HD21	1:172:A:PRO:HD3	3	0.13	0.02	0.14
(1,3124)	1:31:A:LEU:HD22	1:172:A:PRO:HD2	3	0.13	0.02	0.14
(1,3124)	1:31:A:LEU:HD22	1:172:A:PRO:HD3	3	0.13	0.02	0.14
(1,3124)	1:31:A:LEU:HD23	1:172:A:PRO:HD2	3	0.13	0.02	0.14
(1,3124)	1:31:A:LEU:HD23	1:172:A:PRO:HD3	3	0.13	0.02	0.14
(1,258)	1:49:A:GLN:HB2	1:51:A:ALA:H	3	0.13	0.02	0.12
(1,258)	1:49:A:GLN:HB3	1:51:A:ALA:H	3	0.13	0.02	0.12
(1,332)	1:61:A:VAL:HA	1:64:A:ASN:H	3	0.13	0.02	0.12
(1,876)	1:148:A:SER:H	1:149:A:THR:H	3	0.13	0.01	0.12
(1,824)	1:37:A:THR:HG21	1:136:A:VAL:H	3	0.12	0.01	0.11
(1,824)	1:37:A:THR:HG22	1:136:A:VAL:H	3	0.12	0.01	0.11
(1,824)	1:37:A:THR:HG23	1:136:A:VAL:H	3	0.12	0.01	0.11
(1,648)	1:108:A:LEU:HD11	1:110:A:SER:H	3	0.11	0.0	0.11
(1,648)	1:108:A:LEU:HD12	1:110:A:SER:H	3	0.11	0.0	0.11
(1,648)	1:108:A:LEU:HD13	1:110:A:SER:H	3	0.11	0.0	0.11
(1,648)	1:108:A:LEU:HD21	1:110:A:SER:H	3	0.11	0.0	0.11
(1,648)	1:108:A:LEU:HD22	1:110:A:SER:H	3	0.11	0.0	0.11
(1,648)	1:108:A:LEU:HD23	1:110:A:SER:H	3	0.11	0.0	0.11
(1,256)	1:50:A:ARG:H	1:51:A:ALA:H	3	0.11	0.01	0.1
(1,257)	1:50:A:ARG:H	1:51:A:ALA:H	3	0.11	0.01	0.1
(1,2607)	1:96:A:ASN:HB2	1:97:A:ALA:HB1	3	0.11	0.01	0.1
(1,2607)	1:96:A:ASN:HB2	1:97:A:ALA:HB2	3	0.11	0.01	0.1
(1,2607)	1:96:A:ASN:HB2	1:97:A:ALA:HB3	3	0.11	0.01	0.1
(1,2607)	1:96:A:ASN:HB3	1:97:A:ALA:HB1	3	0.11	0.01	0.1
(1,2607)	1:96:A:ASN:HB3	1:97:A:ALA:HB2	3	0.11	0.01	0.1
(1,2607)	1:96:A:ASN:HB3	1:97:A:ALA:HB3	3	0.11	0.01	0.1

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6)	1:6:A:GLY:HA2	1:7:A:PHE:H	3	0.11	0.0	0.11
(1,6)	1:6:A:GLY:HA3	1:7:A:PHE:H	3	0.11	0.0	0.11
(1,2670)	1:103:A:SER:H	1:104:A:ASN:HA	3	0.11	0.0	0.11
(1,3513)	1:51:A:ALA:HB1	1:71:A:VAL:HA	2	0.82	0.26	0.82
(1,3513)	1:85:A:ALA:HB1	1:81:A:SER:HB2	2	0.82	0.26	0.82
(1,3355)	1:28:A:THR:HG22	1:34:A:VAL:HB	2	0.62	0.46	0.62
(1,3355)	1:28:A:THR:HG23	1:34:A:VAL:HB	2	0.62	0.46	0.62
(1,1024)	1:101:A:ASN:H	1:21:A:VAL:HG21	2	0.57	0.02	0.57
(1,1024)	1:101:A:ASN:H	1:21:A:VAL:HG11	2	0.57	0.02	0.57
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD11	2	0.52	0.02	0.52
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD12	2	0.52	0.02	0.52
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD13	2	0.52	0.02	0.52
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD21	2	0.52	0.02	0.52
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD22	2	0.52	0.02	0.52
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD23	2	0.52	0.02	0.52
(1,3342)	1:55:A:LEU:HD23	1:123:A:ALA:HB2	2	0.49	0.14	0.49
(1,3342)	1:129:A:ILE:HD13	1:123:A:ALA:HB2	2	0.49	0.14	0.49
(1,3770)	1:10:A:THR:H	1:10:A:THR:HG21	2	0.46	0.17	0.46
(1,3770)	1:149:A:THR:H	1:149:A:THR:HG23	2	0.46	0.17	0.46
(1,1049)	1:42:A:GLN:H	1:9:A:ALA:HB3	2	0.45	0.27	0.45
(1,1049)	1:42:A:GLN:H	1:9:A:ALA:HB1	2	0.45	0.27	0.45
(1,3427)	1:113:A:LEU:HD21	1:94:A:LEU:HD22	2	0.44	0.26	0.44
(1,3427)	1:113:A:LEU:HD13	1:94:A:LEU:HD21	2	0.44	0.26	0.44
(1,1976)	1:32:A:ARG:HG2	1:33:A:THR:HA	2	0.42	0.31	0.42
(1,1976)	1:32:A:ARG:HG3	1:33:A:THR:HA	2	0.42	0.31	0.42
(1,3106)	1:154:A:ALA:HB1	1:158:A:GLN:HB2	2	0.4	0.05	0.4
(1,3106)	1:154:A:ALA:HB1	1:158:A:GLN:HB3	2	0.4	0.05	0.4
(1,3106)	1:154:A:ALA:HB2	1:158:A:GLN:HB2	2	0.4	0.05	0.4
(1,3106)	1:154:A:ALA:HB2	1:158:A:GLN:HB3	2	0.4	0.05	0.4
(1,3106)	1:154:A:ALA:HB3	1:158:A:GLN:HB2	2	0.4	0.05	0.4
(1,3106)	1:154:A:ALA:HB3	1:158:A:GLN:HB3	2	0.4	0.05	0.4
(1,3497)	1:90:A:PHE:HA	1:92:A:SER:HB2	2	0.4	0.02	0.4
(1,3756)	1:156:A:TYR:HB2	1:157:A:SER:HA	2	0.37	0.16	0.37
(1,3173)	1:177:A:THR:HG21	1:190:A:ALA:HA	2	0.36	0.2	0.36
(1,3173)	1:177:A:THR:HG22	1:190:A:ALA:HA	2	0.36	0.2	0.36
(1,3173)	1:177:A:THR:HG23	1:190:A:ALA:HA	2	0.36	0.2	0.36
(1,3465)	1:56:A:ALA:HB1	1:48:A:VAL:HA	2	0.3	0.05	0.3
(1,1801)	1:66:A:LEU:H	1:61:A:VAL:HG11	2	0.3	0.01	0.3
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD11	2	0.3	0.12	0.3
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD12	2	0.3	0.12	0.3
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD13	2	0.3	0.12	0.3
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD21	2	0.3	0.12	0.3

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD22	2	0.3	0.12	0.3
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD23	2	0.3	0.12	0.3
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD11	2	0.3	0.12	0.3
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD12	2	0.3	0.12	0.3
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD13	2	0.3	0.12	0.3
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD21	2	0.3	0.12	0.3
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD22	2	0.3	0.12	0.3
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD23	2	0.3	0.12	0.3
(1,3246)	1:75:A:SER:H	1:74:A:VAL:HG13	2	0.28	0.0	0.28
(1,3246)	1:75:A:SER:H	1:74:A:VAL:HG22	2	0.28	0.0	0.28
(1,3726)	1:75:A:SER:H	1:74:A:VAL:HG13	2	0.28	0.0	0.28
(1,3726)	1:75:A:SER:H	1:74:A:VAL:HG22	2	0.28	0.0	0.28
(1,919)	1:180:A:SER:H	1:180:A:SER:HB2	2	0.28	0.1	0.28
(1,919)	1:180:A:SER:H	1:180:A:SER:HB3	2	0.28	0.1	0.28
(1,961)	1:10:A:THR:H	1:117:A:LEU:H	2	0.28	0.06	0.28
(1,961)	1:10:A:THR:H	1:113:A:LEU:H	2	0.28	0.06	0.28
(1,3091)	1:25:A:LEU:HD11	1:149:A:THR:HG21	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD11	1:149:A:THR:HG22	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD11	1:149:A:THR:HG23	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD12	1:149:A:THR:HG21	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD12	1:149:A:THR:HG22	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD12	1:149:A:THR:HG23	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD13	1:149:A:THR:HG21	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD13	1:149:A:THR:HG22	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD13	1:149:A:THR:HG23	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD21	1:149:A:THR:HG21	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD21	1:149:A:THR:HG22	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD21	1:149:A:THR:HG23	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD22	1:149:A:THR:HG21	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD22	1:149:A:THR:HG22	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD22	1:149:A:THR:HG23	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD23	1:149:A:THR:HG21	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD23	1:149:A:THR:HG22	2	0.28	0.02	0.28
(1,3091)	1:25:A:LEU:HD23	1:149:A:THR:HG23	2	0.28	0.02	0.28
(1,141)	1:29:A:SER:H	1:32:A:ARG:HD2	2	0.26	0.03	0.26
(1,141)	1:29:A:SER:H	1:32:A:ARG:HD3	2	0.26	0.03	0.26
(1,3110)	1:156:A:TYR:HB2	1:159:A:ALA:HB1	2	0.26	0.03	0.26
(1,3110)	1:156:A:TYR:HB2	1:159:A:ALA:HB2	2	0.26	0.03	0.26
(1,3110)	1:156:A:TYR:HB2	1:159:A:ALA:HB3	2	0.26	0.03	0.26
(1,3110)	1:156:A:TYR:HB3	1:159:A:ALA:HB1	2	0.26	0.03	0.26
(1,3110)	1:156:A:TYR:HB3	1:159:A:ALA:HB2	2	0.26	0.03	0.26
(1,3110)	1:156:A:TYR:HB3	1:159:A:ALA:HB3	2	0.26	0.03	0.26

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,925)	1:185:A:PRO:HG2	1:186:A:LEU:H	2	0.26	0.02	0.26
(1,925)	1:185:A:PRO:HG3	1:186:A:LEU:H	2	0.26	0.02	0.26
(1,3840)	1:125:A:GLN:HA	1:97:A:ALA:HA	2	0.24	0.12	0.24
(1,928)	1:178:A:GLY:HA2	1:187:A:GLY:H	2	0.22	0.08	0.22
(1,928)	1:178:A:GLY:HA3	1:187:A:GLY:H	2	0.22	0.08	0.22
(1,3480)	1:47:A:VAL:HG13	1:69:A:PHE:HB3	2	0.22	0.12	0.22
(1,3480)	1:47:A:VAL:HG23	1:69:A:PHE:HB3	2	0.22	0.12	0.22
(1,3405)	1:18:A:ILE:HG13	1:89:A:ALA:HB1	2	0.22	0.01	0.22
(1,3405)	1:18:A:ILE:HG13	1:89:A:ALA:HB3	2	0.22	0.01	0.22
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD11	2	0.21	0.04	0.21
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD12	2	0.21	0.04	0.21
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD13	2	0.21	0.04	0.21
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD21	2	0.21	0.04	0.21
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD22	2	0.21	0.04	0.21
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD23	2	0.21	0.04	0.21
(1,892)	1:153:A:SER:H	1:158:A:GLN:HB2	2	0.2	0.06	0.2
(1,892)	1:153:A:SER:H	1:158:A:GLN:HB3	2	0.2	0.06	0.2
(1,3136)	1:163:A:SER:HB2	1:175:A:PRO:HD2	2	0.2	0.01	0.2
(1,3136)	1:163:A:SER:HB2	1:175:A:PRO:HD3	2	0.2	0.01	0.2
(1,3136)	1:163:A:SER:HB3	1:175:A:PRO:HD2	2	0.2	0.01	0.2
(1,3136)	1:163:A:SER:HB3	1:175:A:PRO:HD3	2	0.2	0.01	0.2
(1,365)	1:68:A:ARG:HG2	1:69:A:PHE:H	2	0.2	0.01	0.2
(1,365)	1:68:A:ARG:HG3	1:69:A:PHE:H	2	0.2	0.01	0.2
(1,2980)	1:131:A:VAL:HG11	1:134:A:GLY:HA2	2	0.18	0.01	0.18
(1,2980)	1:131:A:VAL:HG11	1:134:A:GLY:HA3	2	0.18	0.01	0.18
(1,2980)	1:131:A:VAL:HG12	1:134:A:GLY:HA2	2	0.18	0.01	0.18
(1,2980)	1:131:A:VAL:HG12	1:134:A:GLY:HA3	2	0.18	0.01	0.18
(1,2980)	1:131:A:VAL:HG13	1:134:A:GLY:HA2	2	0.18	0.01	0.18
(1,2980)	1:131:A:VAL:HG13	1:134:A:GLY:HA3	2	0.18	0.01	0.18
(1,2980)	1:131:A:VAL:HG21	1:134:A:GLY:HA2	2	0.18	0.01	0.18
(1,2980)	1:131:A:VAL:HG21	1:134:A:GLY:HA3	2	0.18	0.01	0.18
(1,2980)	1:131:A:VAL:HG22	1:134:A:GLY:HA2	2	0.18	0.01	0.18
(1,2980)	1:131:A:VAL:HG22	1:134:A:GLY:HA3	2	0.18	0.01	0.18
(1,2980)	1:131:A:VAL:HG23	1:134:A:GLY:HA2	2	0.18	0.01	0.18
(1,2980)	1:131:A:VAL:HG23	1:134:A:GLY:HA3	2	0.18	0.01	0.18
(1,875)	1:148:A:SER:HB2	1:149:A:THR:H	2	0.18	0.04	0.18
(1,875)	1:148:A:SER:HB3	1:149:A:THR:H	2	0.18	0.04	0.18
(1,2447)	1:77:A:LEU:HB2	1:78:A:PRO:HG2	2	0.17	0.0	0.17
(1,2447)	1:77:A:LEU:HB2	1:78:A:PRO:HG3	2	0.17	0.0	0.17
(1,2447)	1:77:A:LEU:HB3	1:78:A:PRO:HG2	2	0.17	0.0	0.17
(1,2447)	1:77:A:LEU:HB3	1:78:A:PRO:HG3	2	0.17	0.0	0.17
(1,123)	1:31:A:LEU:H	1:31:A:LEU:HG	2	0.17	0.01	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG11	2	0.17	0.05	0.17
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG12	2	0.17	0.05	0.17
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG13	2	0.17	0.05	0.17
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG21	2	0.17	0.05	0.17
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG22	2	0.17	0.05	0.17
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG23	2	0.17	0.05	0.17
(1,3087)	1:148:A:SER:HB2	1:149:A:THR:HB	2	0.17	0.07	0.17
(1,3087)	1:148:A:SER:HB3	1:149:A:THR:HB	2	0.17	0.07	0.17
(1,3525)	1:92:A:SER:HA	1:95:A:PHE:HD2	2	0.17	0.01	0.17
(1,945)	1:194:A:GLN:HG2	1:196:A:GLY:H	2	0.16	0.01	0.16
(1,945)	1:194:A:GLN:HG3	1:196:A:GLY:H	2	0.16	0.01	0.16
(1,555)	1:99:A:VAL:H	1:100:A:LEU:HG	2	0.16	0.04	0.16
(1,3185)	1:20:A:ARG:HD2	1:191:A:PRO:HA	2	0.16	0.04	0.16
(1,3185)	1:20:A:ARG:HD3	1:191:A:PRO:HA	2	0.16	0.04	0.16
(1,1002)	1:92:A:SER:H	1:21:A:VAL:HB	2	0.16	0.05	0.16
(1,3169)	1:178:A:GLY:HA2	1:190:A:ALA:HA	2	0.16	0.03	0.16
(1,3169)	1:178:A:GLY:HA3	1:190:A:ALA:HA	2	0.16	0.03	0.16
(1,3171)	1:178:A:GLY:HA2	1:190:A:ALA:HA	2	0.16	0.03	0.16
(1,3171)	1:178:A:GLY:HA3	1:190:A:ALA:HA	2	0.16	0.03	0.16
(1,3516)	1:58:A:THR:HA	1:59:A:LEU:HG	2	0.16	0.05	0.16
(1,312)	1:59:A:LEU:HB2	1:61:A:VAL:H	2	0.16	0.02	0.16
(1,312)	1:59:A:LEU:HB3	1:61:A:VAL:H	2	0.16	0.02	0.16
(1,313)	1:59:A:LEU:HB2	1:61:A:VAL:H	2	0.16	0.02	0.16
(1,313)	1:59:A:LEU:HB3	1:61:A:VAL:H	2	0.16	0.02	0.16
(1,1401)	1:59:A:LEU:HB2	1:61:A:VAL:H	2	0.16	0.02	0.16
(1,1401)	1:59:A:LEU:HB3	1:61:A:VAL:H	2	0.16	0.02	0.16
(1,3111)	1:158:A:GLN:HA	1:161:A:ALA:HB1	2	0.16	0.02	0.16
(1,3111)	1:158:A:GLN:HA	1:161:A:ALA:HB2	2	0.16	0.02	0.16
(1,3111)	1:158:A:GLN:HA	1:161:A:ALA:HB3	2	0.16	0.02	0.16
(1,362)	1:66:A:LEU:HG	1:68:A:ARG:H	2	0.16	0.02	0.16
(1,968)	1:127:A:LEU:H	1:127:A:LEU:HD21	2	0.15	0.01	0.15
(1,968)	1:127:A:LEU:H	1:127:A:LEU:HD23	2	0.15	0.01	0.15
(1,2520)	1:85:A:ALA:HA	1:88:A:GLN:HB2	2	0.15	0.01	0.15
(1,2520)	1:85:A:ALA:HA	1:88:A:GLN:HB3	2	0.15	0.01	0.15
(1,708)	1:117:A:LEU:HD11	1:118:A:ASN:HD21	2	0.15	0.0	0.15
(1,708)	1:117:A:LEU:HD11	1:118:A:ASN:HD22	2	0.15	0.0	0.15
(1,708)	1:117:A:LEU:HD12	1:118:A:ASN:HD21	2	0.15	0.0	0.15
(1,708)	1:117:A:LEU:HD12	1:118:A:ASN:HD22	2	0.15	0.0	0.15
(1,708)	1:117:A:LEU:HD13	1:118:A:ASN:HD21	2	0.15	0.0	0.15
(1,708)	1:117:A:LEU:HD13	1:118:A:ASN:HD22	2	0.15	0.0	0.15
(1,708)	1:117:A:LEU:HD21	1:118:A:ASN:HD21	2	0.15	0.0	0.15
(1,708)	1:117:A:LEU:HD21	1:118:A:ASN:HD22	2	0.15	0.0	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,708)	1:117:A:LEU:HD22	1:118:A:ASN:HD21	2	0.15	0.0	0.15
(1,708)	1:117:A:LEU:HD22	1:118:A:ASN:HD22	2	0.15	0.0	0.15
(1,708)	1:117:A:LEU:HD23	1:118:A:ASN:HD21	2	0.15	0.0	0.15
(1,708)	1:117:A:LEU:HD23	1:118:A:ASN:HD22	2	0.15	0.0	0.15
(1,711)	1:117:A:LEU:HD11	1:118:A:ASN:HD21	2	0.15	0.0	0.15
(1,711)	1:117:A:LEU:HD11	1:118:A:ASN:HD22	2	0.15	0.0	0.15
(1,711)	1:117:A:LEU:HD12	1:118:A:ASN:HD21	2	0.15	0.0	0.15
(1,711)	1:117:A:LEU:HD12	1:118:A:ASN:HD22	2	0.15	0.0	0.15
(1,711)	1:117:A:LEU:HD13	1:118:A:ASN:HD21	2	0.15	0.0	0.15
(1,711)	1:117:A:LEU:HD13	1:118:A:ASN:HD22	2	0.15	0.0	0.15
(1,711)	1:117:A:LEU:HD21	1:118:A:ASN:HD21	2	0.15	0.0	0.15
(1,711)	1:117:A:LEU:HD21	1:118:A:ASN:HD22	2	0.15	0.0	0.15
(1,711)	1:117:A:LEU:HD22	1:118:A:ASN:HD21	2	0.15	0.0	0.15
(1,711)	1:117:A:LEU:HD22	1:118:A:ASN:HD22	2	0.15	0.0	0.15
(1,711)	1:117:A:LEU:HD23	1:118:A:ASN:HD21	2	0.15	0.0	0.15
(1,711)	1:117:A:LEU:HD23	1:118:A:ASN:HD22	2	0.15	0.0	0.15
(1,783)	1:50:A:ARG:HD2	1:129:A:ILE:H	2	0.15	0.04	0.15
(1,783)	1:50:A:ARG:HD3	1:129:A:ILE:H	2	0.15	0.04	0.15
(1,2846)	1:117:A:LEU:HG	1:118:A:ASN:HD21	2	0.15	0.03	0.15
(1,2846)	1:117:A:LEU:HG	1:118:A:ASN:HD22	2	0.15	0.03	0.15
(1,3145)	1:170:A:THR:HB	1:177:A:THR:HG21	2	0.15	0.03	0.15
(1,3145)	1:170:A:THR:HB	1:177:A:THR:HG22	2	0.15	0.03	0.15
(1,3145)	1:170:A:THR:HB	1:177:A:THR:HG23	2	0.15	0.03	0.15
(1,594)	1:100:A:LEU:HD11	1:104:A:ASN:H	2	0.15	0.03	0.15
(1,594)	1:100:A:LEU:HD12	1:104:A:ASN:H	2	0.15	0.03	0.15
(1,594)	1:100:A:LEU:HD13	1:104:A:ASN:H	2	0.15	0.03	0.15
(1,594)	1:100:A:LEU:HD21	1:104:A:ASN:H	2	0.15	0.03	0.15
(1,594)	1:100:A:LEU:HD22	1:104:A:ASN:H	2	0.15	0.03	0.15
(1,594)	1:100:A:LEU:HD23	1:104:A:ASN:H	2	0.15	0.03	0.15
(1,778)	1:128:A:GLY:H	1:129:A:ILE:HG12	2	0.15	0.0	0.15
(1,778)	1:128:A:GLY:H	1:129:A:ILE:HG13	2	0.15	0.0	0.15
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG11	2	0.15	0.02	0.15
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG12	2	0.15	0.02	0.15
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG13	2	0.15	0.02	0.15
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG21	2	0.15	0.02	0.15
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG22	2	0.15	0.02	0.15
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG23	2	0.15	0.02	0.15
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG11	2	0.15	0.02	0.15
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG12	2	0.15	0.02	0.15
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG13	2	0.15	0.02	0.15
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG21	2	0.15	0.02	0.15
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG22	2	0.15	0.02	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG23	2	0.15	0.02	0.15
(1,2600)	1:93:A:ALA:HB1	1:96:A:ASN:HB2	2	0.15	0.04	0.15
(1,2600)	1:93:A:ALA:HB1	1:96:A:ASN:HB3	2	0.15	0.04	0.15
(1,2600)	1:93:A:ALA:HB2	1:96:A:ASN:HB2	2	0.15	0.04	0.15
(1,2600)	1:93:A:ALA:HB2	1:96:A:ASN:HB3	2	0.15	0.04	0.15
(1,2600)	1:93:A:ALA:HB3	1:96:A:ASN:HB2	2	0.15	0.04	0.15
(1,2600)	1:93:A:ALA:HB3	1:96:A:ASN:HB3	2	0.15	0.04	0.15
(1,2731)	1:108:A:LEU:HG	1:109:A:GLY:HA2	2	0.15	0.03	0.15
(1,2731)	1:108:A:LEU:HG	1:109:A:GLY:HA3	2	0.15	0.03	0.15
(1,3482)	1:56:A:ALA:H	1:55:A:LEU:HD12	2	0.15	0.0	0.15
(1,3482)	1:56:A:ALA:H	1:55:A:LEU:HD11	2	0.15	0.0	0.15
(1,3512)	1:74:A:VAL:HB	1:75:A:SER:HB2	2	0.15	0.02	0.15
(1,3512)	1:53:A:GLN:HB3	1:57:A:SER:HB3	2	0.15	0.02	0.15
(1,3876)	1:44:A:ALA:HB1	1:86:A:TYR:HE1	2	0.15	0.02	0.15
(1,3876)	1:44:A:ALA:HB1	1:86:A:TYR:HE2	2	0.15	0.02	0.15
(1,3876)	1:44:A:ALA:HB2	1:86:A:TYR:HE1	2	0.15	0.02	0.15
(1,3876)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	2	0.15	0.02	0.15
(1,3876)	1:44:A:ALA:HB3	1:86:A:TYR:HE1	2	0.15	0.02	0.15
(1,3876)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	2	0.15	0.02	0.15
(1,1736)	1:176:A:SER:HA	1:177:A:THR:H	2	0.14	0.04	0.14
(1,2084)	1:41:A:GLN:HB2	1:43:A:ILE:HD11	2	0.14	0.01	0.14
(1,2084)	1:41:A:GLN:HB2	1:43:A:ILE:HD12	2	0.14	0.01	0.14
(1,2084)	1:41:A:GLN:HB2	1:43:A:ILE:HD13	2	0.14	0.01	0.14
(1,2084)	1:41:A:GLN:HB3	1:43:A:ILE:HD11	2	0.14	0.01	0.14
(1,2084)	1:41:A:GLN:HB3	1:43:A:ILE:HD12	2	0.14	0.01	0.14
(1,2084)	1:41:A:GLN:HB3	1:43:A:ILE:HD13	2	0.14	0.01	0.14
(1,2287)	1:66:A:LEU:HD11	1:67:A:ALA:HA	2	0.14	0.03	0.14
(1,2287)	1:66:A:LEU:HD12	1:67:A:ALA:HA	2	0.14	0.03	0.14
(1,2287)	1:66:A:LEU:HD13	1:67:A:ALA:HA	2	0.14	0.03	0.14
(1,2287)	1:66:A:LEU:HD21	1:67:A:ALA:HA	2	0.14	0.03	0.14
(1,2287)	1:66:A:LEU:HD22	1:67:A:ALA:HA	2	0.14	0.03	0.14
(1,2287)	1:66:A:LEU:HD23	1:67:A:ALA:HA	2	0.14	0.03	0.14
(1,3060)	1:137:A:GLN:HG2	1:141:A:SER:HA	2	0.14	0.01	0.14
(1,3060)	1:137:A:GLN:HG3	1:141:A:SER:HA	2	0.14	0.01	0.14
(1,3492)	1:120:A:VAL:HB	1:124:A:ALA:HB3	2	0.14	0.01	0.14
(1,3492)	1:120:A:VAL:HB	1:124:A:ALA:HB2	2	0.14	0.01	0.14
(1,106)	1:27:A:ASN:H	1:27:A:ASN:HD21	2	0.14	0.02	0.14
(1,106)	1:27:A:ASN:H	1:27:A:ASN:HD22	2	0.14	0.02	0.14
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG11	2	0.14	0.01	0.14
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG12	2	0.14	0.01	0.14
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG13	2	0.14	0.01	0.14
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG21	2	0.14	0.01	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG22	2	0.14	0.01	0.14
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG23	2	0.14	0.01	0.14
(1,561)	1:22:A:ALA:H	1:100:A:LEU:HA	2	0.14	0.02	0.14
(1,1868)	1:18:A:ILE:HB	1:19:A:SER:HB2	2	0.14	0.02	0.14
(1,1868)	1:18:A:ILE:HB	1:19:A:SER:HB3	2	0.14	0.02	0.14
(1,2898)	1:124:A:ALA:HB1	1:125:A:GLN:HG2	2	0.14	0.01	0.14
(1,2898)	1:124:A:ALA:HB1	1:125:A:GLN:HG3	2	0.14	0.01	0.14
(1,2898)	1:124:A:ALA:HB2	1:125:A:GLN:HG2	2	0.14	0.01	0.14
(1,2898)	1:124:A:ALA:HB2	1:125:A:GLN:HG3	2	0.14	0.01	0.14
(1,2898)	1:124:A:ALA:HB3	1:125:A:GLN:HG2	2	0.14	0.01	0.14
(1,2898)	1:124:A:ALA:HB3	1:125:A:GLN:HG3	2	0.14	0.01	0.14
(1,3122)	1:20:A:ARG:HG2	1:171:A:GLY:HA2	2	0.14	0.02	0.14
(1,3122)	1:20:A:ARG:HG2	1:171:A:GLY:HA3	2	0.14	0.02	0.14
(1,3122)	1:20:A:ARG:HG3	1:171:A:GLY:HA2	2	0.14	0.02	0.14
(1,3122)	1:20:A:ARG:HG3	1:171:A:GLY:HA3	2	0.14	0.02	0.14
(1,3199)	1:99:A:VAL:HG11	1:194:A:GLN:HG2	2	0.14	0.04	0.14
(1,3199)	1:99:A:VAL:HG11	1:194:A:GLN:HG3	2	0.14	0.04	0.14
(1,3199)	1:99:A:VAL:HG12	1:194:A:GLN:HG2	2	0.14	0.04	0.14
(1,3199)	1:99:A:VAL:HG12	1:194:A:GLN:HG3	2	0.14	0.04	0.14
(1,3199)	1:99:A:VAL:HG13	1:194:A:GLN:HG2	2	0.14	0.04	0.14
(1,3199)	1:99:A:VAL:HG13	1:194:A:GLN:HG3	2	0.14	0.04	0.14
(1,3199)	1:99:A:VAL:HG21	1:194:A:GLN:HG2	2	0.14	0.04	0.14
(1,3199)	1:99:A:VAL:HG21	1:194:A:GLN:HG3	2	0.14	0.04	0.14
(1,3199)	1:99:A:VAL:HG22	1:194:A:GLN:HG2	2	0.14	0.04	0.14
(1,3199)	1:99:A:VAL:HG22	1:194:A:GLN:HG3	2	0.14	0.04	0.14
(1,3199)	1:99:A:VAL:HG23	1:194:A:GLN:HG2	2	0.14	0.04	0.14
(1,3199)	1:99:A:VAL:HG23	1:194:A:GLN:HG3	2	0.14	0.04	0.14
(1,3200)	1:99:A:VAL:HG11	1:194:A:GLN:HG2	2	0.14	0.04	0.14
(1,3200)	1:99:A:VAL:HG11	1:194:A:GLN:HG3	2	0.14	0.04	0.14
(1,3200)	1:99:A:VAL:HG12	1:194:A:GLN:HG2	2	0.14	0.04	0.14
(1,3200)	1:99:A:VAL:HG12	1:194:A:GLN:HG3	2	0.14	0.04	0.14
(1,3200)	1:99:A:VAL:HG13	1:194:A:GLN:HG2	2	0.14	0.04	0.14
(1,3200)	1:99:A:VAL:HG13	1:194:A:GLN:HG3	2	0.14	0.04	0.14
(1,3200)	1:99:A:VAL:HG21	1:194:A:GLN:HG2	2	0.14	0.04	0.14
(1,3200)	1:99:A:VAL:HG21	1:194:A:GLN:HG3	2	0.14	0.04	0.14
(1,3200)	1:99:A:VAL:HG22	1:194:A:GLN:HG2	2	0.14	0.04	0.14
(1,3200)	1:99:A:VAL:HG22	1:194:A:GLN:HG3	2	0.14	0.04	0.14
(1,3200)	1:99:A:VAL:HG23	1:194:A:GLN:HG2	2	0.14	0.04	0.14
(1,3200)	1:99:A:VAL:HG23	1:194:A:GLN:HG3	2	0.14	0.04	0.14
(1,524)	1:37:A:THR:H	1:95:A:PHE:HB2	2	0.13	0.02	0.13
(1,524)	1:37:A:THR:H	1:95:A:PHE:HB3	2	0.13	0.02	0.13
(1,598)	1:96:A:ASN:HD21	1:104:A:ASN:HD21	2	0.13	0.02	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,598)	1:96:A:ASN:HD21	1:104:A:ASN:HD22	2	0.13	0.02	0.13
(1,598)	1:96:A:ASN:HD22	1:104:A:ASN:HD21	2	0.13	0.02	0.13
(1,598)	1:96:A:ASN:HD22	1:104:A:ASN:HD22	2	0.13	0.02	0.13
(1,940)	1:191:A:PRO:HD2	1:193:A:GLY:H	2	0.12	0.01	0.12
(1,940)	1:191:A:PRO:HD3	1:193:A:GLY:H	2	0.12	0.01	0.12
(1,2720)	1:107:A:THR:HG21	1:108:A:LEU:HB2	2	0.12	0.02	0.12
(1,2720)	1:107:A:THR:HG21	1:108:A:LEU:HB3	2	0.12	0.02	0.12
(1,2720)	1:107:A:THR:HG22	1:108:A:LEU:HB2	2	0.12	0.02	0.12
(1,2720)	1:107:A:THR:HG22	1:108:A:LEU:HB3	2	0.12	0.02	0.12
(1,2720)	1:107:A:THR:HG23	1:108:A:LEU:HB2	2	0.12	0.02	0.12
(1,2720)	1:107:A:THR:HG23	1:108:A:LEU:HB3	2	0.12	0.02	0.12
(1,23)	1:11:A:GLY:HA2	1:14:A:SER:H	2	0.12	0.02	0.12
(1,23)	1:11:A:GLY:HA3	1:14:A:SER:H	2	0.12	0.02	0.12
(1,559)	1:99:A:VAL:HB	1:100:A:LEU:H	2	0.12	0.02	0.12
(1,1551)	1:99:A:VAL:HB	1:100:A:LEU:H	2	0.12	0.02	0.12
(1,2906)	1:105:A:ILE:HG21	1:125:A:GLN:HG2	2	0.12	0.01	0.12
(1,2906)	1:105:A:ILE:HG21	1:125:A:GLN:HG3	2	0.12	0.01	0.12
(1,2906)	1:105:A:ILE:HG22	1:125:A:GLN:HG2	2	0.12	0.01	0.12
(1,2906)	1:105:A:ILE:HG22	1:125:A:GLN:HG3	2	0.12	0.01	0.12
(1,2906)	1:105:A:ILE:HG23	1:125:A:GLN:HG2	2	0.12	0.01	0.12
(1,2906)	1:105:A:ILE:HG23	1:125:A:GLN:HG3	2	0.12	0.01	0.12
(1,3166)	1:186:A:LEU:HD11	1:190:A:ALA:H	2	0.12	0.01	0.12
(1,3166)	1:186:A:LEU:HD12	1:190:A:ALA:H	2	0.12	0.01	0.12
(1,3166)	1:186:A:LEU:HD13	1:190:A:ALA:H	2	0.12	0.01	0.12
(1,3166)	1:186:A:LEU:HD21	1:190:A:ALA:H	2	0.12	0.01	0.12
(1,3166)	1:186:A:LEU:HD22	1:190:A:ALA:H	2	0.12	0.01	0.12
(1,3166)	1:186:A:LEU:HD23	1:190:A:ALA:H	2	0.12	0.01	0.12
(1,101)	1:27:A:ASN:H	1:27:A:ASN:HB2	2	0.12	0.02	0.12
(1,101)	1:27:A:ASN:H	1:27:A:ASN:HB3	2	0.12	0.02	0.12
(1,633)	1:14:A:SER:H	1:108:A:LEU:HB2	2	0.12	0.02	0.12
(1,633)	1:14:A:SER:H	1:108:A:LEU:HB3	2	0.12	0.02	0.12
(1,1257)	1:27:A:ASN:H	1:27:A:ASN:HB2	2	0.12	0.02	0.12
(1,1257)	1:27:A:ASN:H	1:27:A:ASN:HB3	2	0.12	0.02	0.12
(1,1833)	1:13:A:ALA:HA	1:16:A:GLY:HA2	2	0.12	0.0	0.12
(1,1833)	1:13:A:ALA:HA	1:16:A:GLY:HA3	2	0.12	0.0	0.12
(1,69)	1:21:A:VAL:HG11	1:22:A:ALA:H	2	0.11	0.01	0.11
(1,69)	1:21:A:VAL:HG12	1:22:A:ALA:H	2	0.11	0.01	0.11
(1,69)	1:21:A:VAL:HG13	1:22:A:ALA:H	2	0.11	0.01	0.11
(1,69)	1:21:A:VAL:HG21	1:22:A:ALA:H	2	0.11	0.01	0.11
(1,69)	1:21:A:VAL:HG22	1:22:A:ALA:H	2	0.11	0.01	0.11
(1,69)	1:21:A:VAL:HG23	1:22:A:ALA:H	2	0.11	0.01	0.11
(1,913)	1:169:A:TYR:H	1:175:A:PRO:HD2	2	0.11	0.0	0.11

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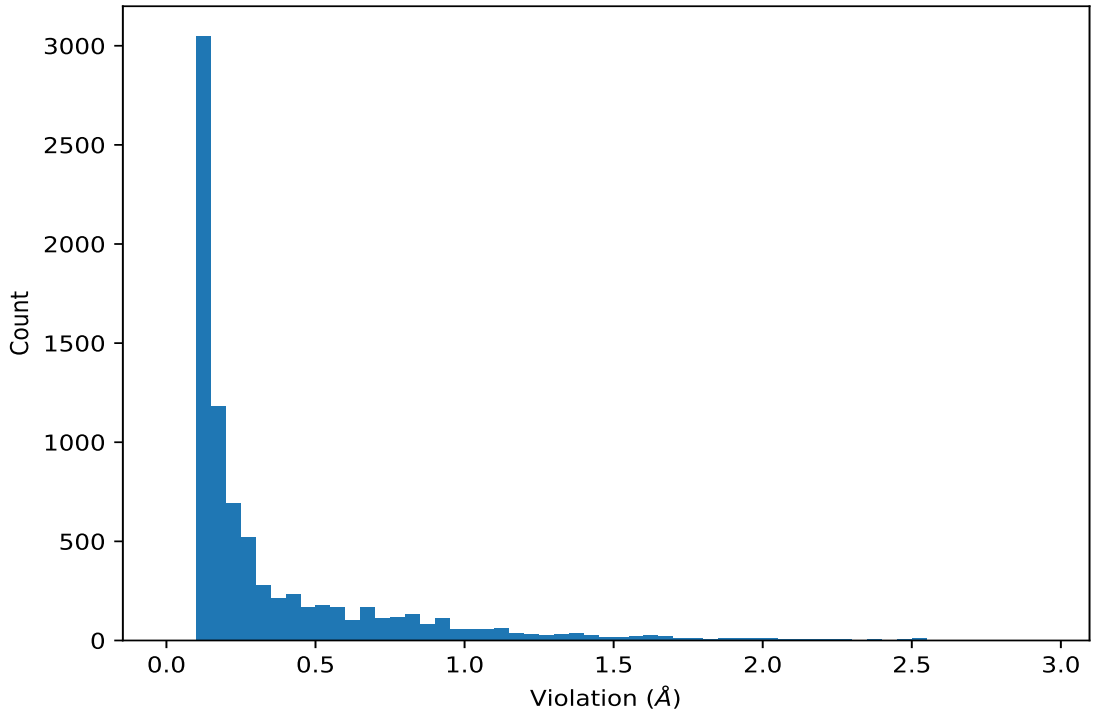
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,913)	1:169:A:TYR:H	1:175:A:PRO:HD3	2	0.11	0.0	0.11
(1,2484)	1:83:A:THR:HG21	1:86:A:TYR:H	2	0.11	0.0	0.11
(1,2484)	1:83:A:THR:HG22	1:86:A:TYR:H	2	0.11	0.0	0.11
(1,2484)	1:83:A:THR:HG23	1:86:A:TYR:H	2	0.11	0.0	0.11
(1,3471)	1:76:A:ARG:HA	1:72:A:GLN:HA	2	0.11	0.0	0.11
(1,192)	1:36:A:ARG:HG2	1:40:A:SER:H	2	0.11	0.0	0.11
(1,192)	1:36:A:ARG:HG3	1:40:A:SER:H	2	0.11	0.0	0.11
(1,2206)	1:47:A:VAL:HA	1:59:A:LEU:HB2	2	0.11	0.0	0.11
(1,2206)	1:47:A:VAL:HA	1:59:A:LEU:HB3	2	0.11	0.0	0.11
(1,2322)	1:59:A:LEU:HD11	1:69:A:PHE:HB2	2	0.11	0.0	0.11
(1,2322)	1:59:A:LEU:HD11	1:69:A:PHE:HB3	2	0.11	0.0	0.11
(1,2322)	1:59:A:LEU:HD12	1:69:A:PHE:HB2	2	0.11	0.0	0.11
(1,2322)	1:59:A:LEU:HD12	1:69:A:PHE:HB3	2	0.11	0.0	0.11
(1,2322)	1:59:A:LEU:HD13	1:69:A:PHE:HB2	2	0.11	0.0	0.11
(1,2322)	1:59:A:LEU:HD13	1:69:A:PHE:HB3	2	0.11	0.0	0.11
(1,2322)	1:59:A:LEU:HD21	1:69:A:PHE:HB2	2	0.11	0.0	0.11
(1,2322)	1:59:A:LEU:HD21	1:69:A:PHE:HB3	2	0.11	0.0	0.11
(1,2322)	1:59:A:LEU:HD22	1:69:A:PHE:HB2	2	0.11	0.0	0.11
(1,2322)	1:59:A:LEU:HD22	1:69:A:PHE:HB3	2	0.11	0.0	0.11
(1,2322)	1:59:A:LEU:HD23	1:69:A:PHE:HB2	2	0.11	0.0	0.11
(1,2322)	1:59:A:LEU:HD23	1:69:A:PHE:HB3	2	0.11	0.0	0.11
(1,2601)	1:22:A:ALA:HB1	1:96:A:ASN:HA	2	0.11	0.0	0.11
(1,2601)	1:22:A:ALA:HB2	1:96:A:ASN:HA	2	0.11	0.0	0.11
(1,2601)	1:22:A:ALA:HB3	1:96:A:ASN:HA	2	0.11	0.0	0.11
(1,3206)	1:194:A:GLN:HG2	1:197:A:PHE:HB2	2	0.11	0.0	0.11
(1,3206)	1:194:A:GLN:HG2	1:197:A:PHE:HB3	2	0.11	0.0	0.11
(1,3206)	1:194:A:GLN:HG3	1:197:A:PHE:HB2	2	0.11	0.0	0.11
(1,3206)	1:194:A:GLN:HG3	1:197:A:PHE:HB3	2	0.11	0.0	0.11
(1,3207)	1:194:A:GLN:HG2	1:197:A:PHE:HB2	2	0.11	0.0	0.11
(1,3207)	1:194:A:GLN:HG2	1:197:A:PHE:HB3	2	0.11	0.0	0.11
(1,3207)	1:194:A:GLN:HG3	1:197:A:PHE:HB2	2	0.11	0.0	0.11
(1,3207)	1:194:A:GLN:HG3	1:197:A:PHE:HB3	2	0.11	0.0	0.11
(1,1030)	1:65:A:ASN:H	1:65:A:ASN:HA	2	0.1	0.0	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG11	2	0.1	0.0	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG12	2	0.1	0.0	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG13	2	0.1	0.0	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG21	2	0.1	0.0	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG22	2	0.1	0.0	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG23	2	0.1	0.0	0.1
(1,3135)	1:170:A:THR:HB	1:175:A:PRO:HD2	2	0.1	0.0	0.1
(1,3135)	1:170:A:THR:HB	1:175:A:PRO:HD3	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)
(1,3275)	1:55:A:LEU:HD21	1:121:A:SER:HB2	7	2.95
(1,3854)	1:79:A:ALA:HB3	1:77:A:LEU:HD12	17	2.91
(1,3275)	1:113:A:LEU:HD22	1:121:A:SER:HB3	18	2.91
(1,3644)	1:113:A:LEU:HD21	1:17:A:LEU:HD13	13	2.83
(1,3416)	1:37:A:THR:HG22	1:129:A:ILE:HD12	7	2.76
(1,3416)	1:37:A:THR:HG23	1:129:A:ILE:HD12	5	2.75
(1,3275)	1:113:A:LEU:HD22	1:121:A:SER:HB2	9	2.74
(1,3644)	1:113:A:LEU:HD13	1:17:A:LEU:HD11	2	2.7
(1,3275)	1:113:A:LEU:HD13	1:121:A:SER:HB3	20	2.69
(1,3754)	1:23:A:ASN:HD21	1:17:A:LEU:HD11	10	2.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3376)	1:132:A:ASP:HB3	1:136:A:VAL:HG22	9	2.6
(1,3854)	1:79:A:ALA:HB2	1:77:A:LEU:HD13	2	2.58
(1,3416)	1:39:A:VAL:HG11	1:129:A:ILE:HD13	15	2.58
(1,3275)	1:55:A:LEU:HD23	1:121:A:SER:HB3	5	2.55
(1,3416)	1:37:A:THR:HG23	1:129:A:ILE:HD13	2	2.54
(1,3416)	1:37:A:THR:HG23	1:129:A:ILE:HD12	17	2.54
(1,3644)	1:113:A:LEU:HD12	1:17:A:LEU:HD12	14	2.53
(1,3416)	1:37:A:THR:HG23	1:129:A:ILE:HD12	4	2.53
(1,3275)	1:55:A:LEU:HD11	1:121:A:SER:HB3	3	2.53
(1,3754)	1:90:A:PHE:HE1	1:17:A:LEU:HD12	8	2.52
(1,3416)	1:39:A:VAL:HG13	1:129:A:ILE:HD11	9	2.51
(1,3854)	1:79:A:ALA:HB3	1:77:A:LEU:HD13	14	2.5
(1,3416)	1:37:A:THR:HG23	1:129:A:ILE:HD12	19	2.5
(1,3416)	1:37:A:THR:HG21	1:129:A:ILE:HD12	20	2.5
(1,3754)	1:96:A:ASN:HD21	1:17:A:LEU:HD12	17	2.49
(1,3275)	1:113:A:LEU:HD12	1:121:A:SER:HB3	15	2.48
(1,3275)	1:55:A:LEU:HD12	1:121:A:SER:HB3	11	2.47
(1,3793)	1:48:A:VAL:HG21	1:65:A:ASN:HD22	11	2.46
(1,3754)	1:90:A:PHE:HE1	1:17:A:LEU:HD11	4	2.46
(1,3582)	1:17:A:LEU:HD11	1:191:A:PRO:HB2	8	2.45
(1,3754)	1:96:A:ASN:HD21	1:17:A:LEU:HD11	9	2.44
(1,3644)	1:113:A:LEU:HD23	1:17:A:LEU:HD11	4	2.39
(1,3416)	1:37:A:THR:HG21	1:129:A:ILE:HD11	14	2.39
(1,3754)	1:23:A:ASN:HD21	1:17:A:LEU:HD12	1	2.38
(1,3754)	1:96:A:ASN:HD21	1:17:A:LEU:HD12	12	2.37
(1,3275)	1:55:A:LEU:HD13	1:121:A:SER:HB2	14	2.36
(1,3275)	1:55:A:LEU:HD22	1:121:A:SER:HB2	17	2.36
(1,3854)	1:79:A:ALA:HB2	1:77:A:LEU:HD13	6	2.35
(1,3761)	1:112:A:VAL:HG23	1:13:A:ALA:HB1	16	2.34
(1,3754)	1:90:A:PHE:HE2	1:17:A:LEU:HD11	20	2.31
(1,3854)	1:85:A:ALA:HB1	1:77:A:LEU:HD13	8	2.3
(1,3754)	1:90:A:PHE:HE1	1:17:A:LEU:HD12	19	2.3
(1,3376)	1:130:A:ASN:HB3	1:136:A:VAL:HG11	19	2.28
(1,3275)	1:55:A:LEU:HD11	1:121:A:SER:HB2	10	2.28
(1,3754)	1:96:A:ASN:HD22	1:17:A:LEU:HD13	5	2.27
(1,3754)	1:96:A:ASN:HD22	1:17:A:LEU:HD13	16	2.26
(1,3761)	1:112:A:VAL:HG22	1:13:A:ALA:HB2	13	2.25
(1,3754)	1:90:A:PHE:HE2	1:17:A:LEU:HD12	6	2.25
(1,3793)	1:48:A:VAL:HG21	1:36:A:ARG:HE	12	2.24
(1,3644)	1:113:A:LEU:HD12	1:17:A:LEU:HD12	12	2.24
(1,3754)	1:90:A:PHE:HE1	1:17:A:LEU:HD11	3	2.22
(1,3220)	1:9:A:ALA:HB3	1:117:A:LEU:HD21	5	2.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3854)	1:79:A:ALA:HB1	1:77:A:LEU:HD11	1	2.2
(1,3854)	1:85:A:ALA:HB3	1:77:A:LEU:HD22	10	2.2
(1,3754)	1:23:A:ASN:HD21	1:17:A:LEU:HD11	11	2.19
(1,3761)	1:112:A:VAL:HG22	1:13:A:ALA:HB2	6	2.18
(1,3644)	1:113:A:LEU:HD13	1:17:A:LEU:HD12	19	2.18
(1,3754)	1:96:A:ASN:HD21	1:17:A:LEU:HD13	13	2.16
(1,3754)	1:90:A:PHE:HE1	1:17:A:LEU:HD13	18	2.15
(1,3644)	1:113:A:LEU:HD22	1:17:A:LEU:HD13	7	2.15
(1,3251)	1:71:A:VAL:HB	1:51:A:ALA:HB3	19	2.15
(1,3766)	1:129:A:ILE:HG12	1:120:A:VAL:HG11	14	2.11
(1,3754)	1:90:A:PHE:HE2	1:17:A:LEU:HD11	14	2.11
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	1	2.11
(1,3644)	1:113:A:LEU:HD12	1:17:A:LEU:HD22	11	2.11
(1,3220)	1:9:A:ALA:HB3	1:117:A:LEU:HD23	16	2.11
(1,3644)	1:113:A:LEU:HD23	1:17:A:LEU:HD13	1	2.1
(1,3582)	1:17:A:LEU:HD22	1:191:A:PRO:HB2	16	2.1
(1,3582)	1:17:A:LEU:HD12	1:191:A:PRO:HB2	15	2.09
(1,3754)	1:90:A:PHE:HE1	1:17:A:LEU:HD13	15	2.08
(1,3220)	1:9:A:ALA:HB2	1:117:A:LEU:HD21	9	2.08
(1,3572)	1:85:A:ALA:HB2	1:80:A:GLY:HA2	5	2.07
(1,3582)	1:17:A:LEU:HD21	1:191:A:PRO:HB2	20	2.06
(1,3419)	1:31:A:LEU:HD13	1:172:A:PRO:HG3	17	2.05
(1,3220)	1:9:A:ALA:HB2	1:117:A:LEU:HD21	3	2.04
(1,3761)	1:112:A:VAL:HG21	1:13:A:ALA:HB1	14	2.03
(1,3376)	1:130:A:ASN:HB3	1:136:A:VAL:HG11	5	2.03
(1,3572)	1:85:A:ALA:HB2	1:80:A:GLY:HA3	17	2.02
(1,3572)	1:85:A:ALA:HB2	1:80:A:GLY:HA3	19	2.02
(1,3854)	1:79:A:ALA:HB1	1:77:A:LEU:HD22	18	2.01
(1,3687)	1:89:A:ALA:HB3	1:87:A:ALA:HB3	3	2.01
(1,3687)	1:89:A:ALA:HB3	1:87:A:ALA:HB2	16	2.01
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD12	14	2.01
(1,3220)	1:9:A:ALA:HB1	1:117:A:LEU:HD22	15	2.0
(1,3854)	1:79:A:ALA:HB3	1:77:A:LEU:HD23	11	1.99
(1,3793)	1:48:A:VAL:HG21	1:65:A:ASN:HD21	6	1.99
(1,3754)	1:90:A:PHE:HE1	1:17:A:LEU:HD12	7	1.99
(1,3644)	1:113:A:LEU:HD23	1:17:A:LEU:HD12	17	1.99
(1,3572)	1:85:A:ALA:HB3	1:80:A:GLY:HA3	1	1.98
(1,3220)	1:9:A:ALA:HB2	1:117:A:LEU:HD13	10	1.98
(1,3761)	1:112:A:VAL:HG22	1:13:A:ALA:HB3	19	1.97
(1,3582)	1:17:A:LEU:HD11	1:191:A:PRO:HB2	7	1.97
(1,3251)	1:47:A:VAL:HB	1:73:A:ALA:HB2	6	1.97
(1,3220)	1:9:A:ALA:HB1	1:117:A:LEU:HD21	20	1.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3376)	1:130:A:ASN:HB2	1:136:A:VAL:HG13	8	1.96
(1,3376)	1:130:A:ASN:HB3	1:136:A:VAL:HG12	16	1.96
(1,3906)	1:30:A:THR:HG23	1:95:A:PHE:HE1	14	1.95
(1,3849)	1:102:A:ALA:HB1	1:104:A:ASN:HB3	5	1.95
(1,3754)	1:90:A:PHE:HE2	1:17:A:LEU:HD13	2	1.95
(1,3687)	1:89:A:ALA:HB2	1:87:A:ALA:HB2	9	1.95
(1,3320)	1:99:A:VAL:HG12	1:100:A:LEU:HB3	1	1.95
(1,3644)	1:113:A:LEU:HD11	1:17:A:LEU:HD13	8	1.94
(1,3572)	1:85:A:ALA:HB3	1:80:A:GLY:HA2	11	1.94
(1,3275)	1:55:A:LEU:HD12	1:121:A:SER:HB2	1	1.94
(1,3572)	1:85:A:ALA:HB2	1:80:A:GLY:HA3	18	1.93
(1,3275)	1:55:A:LEU:HD21	1:121:A:SER:HB2	8	1.93
(1,3376)	1:130:A:ASN:HB2	1:136:A:VAL:HG11	2	1.92
(1,3854)	1:85:A:ALA:HB2	1:77:A:LEU:HD22	19	1.91
(1,3220)	1:9:A:ALA:HB1	1:117:A:LEU:HD23	12	1.91
(1,3854)	1:79:A:ALA:HB2	1:77:A:LEU:HD22	12	1.89
(1,3793)	1:48:A:VAL:HG22	1:65:A:ASN:HD22	17	1.89
(1,3572)	1:85:A:ALA:HB1	1:80:A:GLY:HA2	3	1.89
(1,3419)	1:31:A:LEU:HD13	1:172:A:PRO:HG2	4	1.89
(1,3320)	1:99:A:VAL:HG13	1:100:A:LEU:HB3	8	1.89
(1,3493)	1:23:A:ASN:HB3	1:18:A:ILE:HD12	7	1.88
(1,3793)	1:48:A:VAL:HG11	1:65:A:ASN:HD21	3	1.87
(1,3687)	1:89:A:ALA:HB2	1:87:A:ALA:HB2	15	1.87
(1,3761)	1:112:A:VAL:HG22	1:13:A:ALA:HB1	2	1.86
(1,3582)	1:17:A:LEU:HD12	1:191:A:PRO:HB2	4	1.86
(1,3376)	1:130:A:ASN:HB2	1:136:A:VAL:HG11	7	1.86
(1,3275)	1:55:A:LEU:HD23	1:121:A:SER:HB2	16	1.86
(1,3644)	1:113:A:LEU:HD13	1:17:A:LEU:HD11	18	1.85
(1,3553)	1:87:A:ALA:HB2	1:30:A:THR:HB	10	1.85
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD13	19	1.84
(1,3394)	1:48:A:VAL:HG22	1:41:A:GLN:HG2	3	1.84
(1,3348)	1:132:A:ASP:H	1:35:A:LEU:HD12	6	1.84
(1,3687)	1:89:A:ALA:HB3	1:87:A:ALA:HB1	14	1.83
(1,3582)	1:17:A:LEU:HD13	1:191:A:PRO:HB3	11	1.82
(1,3854)	1:79:A:ALA:HB3	1:77:A:LEU:HD23	16	1.81
(1,3761)	1:112:A:VAL:HG21	1:13:A:ALA:HB2	15	1.81
(1,3275)	1:55:A:LEU:HD22	1:121:A:SER:HB3	4	1.81
(1,3687)	1:89:A:ALA:HB3	1:87:A:ALA:HB3	11	1.8
(1,3572)	1:85:A:ALA:HB1	1:80:A:GLY:HA3	4	1.79
(1,3394)	1:48:A:VAL:HG11	1:41:A:GLN:HG2	7	1.79
(1,3687)	1:89:A:ALA:HB2	1:87:A:ALA:HB3	4	1.78
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG12	17	1.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3251)	1:136:A:VAL:HB	1:51:A:ALA:HB1	16	1.77
(1,3687)	1:89:A:ALA:HB2	1:87:A:ALA:HB1	8	1.76
(1,3687)	1:89:A:ALA:HB1	1:87:A:ALA:HB1	18	1.76
(1,3582)	1:17:A:LEU:HD23	1:191:A:PRO:HB2	12	1.76
(1,3376)	1:130:A:ASN:HB3	1:136:A:VAL:HG12	17	1.76
(1,1145)	1:127:A:LEU:H	1:129:A:ILE:HG23	15	1.76
(1,3811)	1:70:A:ALA:HB2	1:51:A:ALA:HB3	10	1.75
(1,3511)	1:90:A:PHE:HE1	1:17:A:LEU:HD11	10	1.75
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD13	17	1.75
(1,3419)	1:31:A:LEU:HD13	1:172:A:PRO:HG2	8	1.75
(1,3849)	1:102:A:ALA:HB1	1:104:A:ASN:HB3	8	1.74
(1,3582)	1:17:A:LEU:HD12	1:191:A:PRO:HB2	18	1.74
(1,3582)	1:17:A:LEU:HD13	1:191:A:PRO:HB3	17	1.73
(1,3761)	1:112:A:VAL:HG22	1:13:A:ALA:HB1	17	1.72
(1,3394)	1:48:A:VAL:HG13	1:41:A:GLN:HG2	14	1.72
(1,3275)	1:55:A:LEU:HD23	1:121:A:SER:HB3	13	1.72
(1,3849)	1:102:A:ALA:HB2	1:104:A:ASN:HB3	2	1.71
(1,3761)	1:112:A:VAL:HG21	1:13:A:ALA:HB3	10	1.71
(1,3761)	1:112:A:VAL:HG21	1:13:A:ALA:HB1	18	1.71
(1,3572)	1:85:A:ALA:HB1	1:80:A:GLY:HA3	12	1.71
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG13	20	1.71
(1,3644)	1:113:A:LEU:HD13	1:17:A:LEU:HD11	15	1.7
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD23	17	1.7
(1,3220)	1:9:A:ALA:HB3	1:117:A:LEU:HD21	4	1.7
(1,3854)	1:79:A:ALA:HB3	1:77:A:LEU:HD23	15	1.69
(1,3644)	1:113:A:LEU:HD23	1:17:A:LEU:HD11	3	1.69
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD23	12	1.69
(1,3582)	1:17:A:LEU:HD22	1:191:A:PRO:HB2	5	1.69
(1,3493)	1:23:A:ASN:HB3	1:18:A:ILE:HD12	3	1.69
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD22	12	1.69
(1,3275)	1:55:A:LEU:HD21	1:121:A:SER:HB3	6	1.69
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG11	9	1.69
(1,3511)	1:96:A:ASN:HD22	1:17:A:LEU:HD13	1	1.68
(1,3413)	1:100:A:LEU:HD23	1:195:A:SER:HB3	18	1.68
(1,3394)	1:48:A:VAL:HG12	1:41:A:GLN:HG3	4	1.68
(1,3761)	1:112:A:VAL:HG22	1:13:A:ALA:HB1	8	1.67
(1,3687)	1:89:A:ALA:HB2	1:87:A:ALA:HB3	20	1.67
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG12	5	1.67
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD22	4	1.66
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD21	11	1.66
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD23	19	1.66
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD21	20	1.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD12	1	1.66
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD12	2	1.66
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD13	10	1.66
(1,3404)	1:31:A:LEU:HD13	1:88:A:GLN:HG3	8	1.66
(1,3736)	1:191:A:PRO:HB2	1:190:A:ALA:HB3	2	1.65
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD21	1	1.65
(1,3602)	1:36:A:ARG:HA	1:94:A:LEU:HD13	2	1.65
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD22	6	1.65
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD12	9	1.65
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD21	18	1.65
(1,3320)	1:99:A:VAL:HG13	1:100:A:LEU:HB3	10	1.65
(1,3687)	1:89:A:ALA:HB3	1:87:A:ALA:HB1	17	1.64
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD21	7	1.64
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB2	4	1.64
(1,1143)	1:127:A:LEU:H	1:124:A:ALA:HB1	19	1.64
(1,1017)	1:102:A:ALA:H	1:105:A:ILE:HD13	14	1.64
(1,3849)	1:102:A:ALA:HB1	1:104:A:ASN:HB3	14	1.63
(1,3572)	1:85:A:ALA:HB1	1:80:A:GLY:HA3	9	1.63
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD13	12	1.63
(1,3251)	1:136:A:VAL:HB	1:51:A:ALA:HB1	10	1.63
(1,3687)	1:89:A:ALA:HB1	1:87:A:ALA:HB2	6	1.62
(1,3580)	1:101:A:ASN:HB3	1:102:A:ALA:HB1	3	1.62
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD22	5	1.61
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD22	16	1.61
(1,3421)	1:22:A:ALA:HA	1:191:A:PRO:HD2	19	1.61
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD22	9	1.61
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG11	6	1.61
(1,3849)	1:102:A:ALA:HB2	1:104:A:ASN:HB3	16	1.6
(1,3623)	1:140:A:ILE:HD13	1:95:A:PHE:HE1	18	1.6
(1,3580)	1:101:A:ASN:HB3	1:102:A:ALA:HB3	11	1.6
(1,3553)	1:87:A:ALA:HB3	1:43:A:ILE:HA	14	1.6
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD12	4	1.6
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD12	16	1.6
(1,3320)	1:99:A:VAL:HG11	1:100:A:LEU:HB3	9	1.6
(1,3761)	1:112:A:VAL:HG22	1:13:A:ALA:HB3	3	1.59
(1,3647)	1:35:A:LEU:HG	1:131:A:VAL:HG22	10	1.59
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD11	13	1.59
(1,3572)	1:85:A:ALA:HB3	1:80:A:GLY:HA3	13	1.59
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD12	18	1.59
(1,3394)	1:48:A:VAL:HG12	1:41:A:GLN:HG2	6	1.59
(1,3394)	1:43:A:ILE:HD11	1:41:A:GLN:HG2	15	1.59
(1,3251)	1:136:A:VAL:HB	1:51:A:ALA:HB1	9	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD22	8	1.58
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD11	15	1.58
(1,3582)	1:17:A:LEU:HD23	1:191:A:PRO:HB3	10	1.58
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD13	13	1.58
(1,3473)	1:21:A:VAL:HG11	1:92:A:SER:HA	10	1.58
(1,3785)	1:158:A:GLN:HB2	1:159:A:ALA:HB2	4	1.57
(1,3607)	1:36:A:ARG:HE	1:116:A:LEU:HD23	4	1.57
(1,3660)	1:185:A:PRO:HG2	1:186:A:LEU:HD21	4	1.56
(1,1145)	1:127:A:LEU:H	1:129:A:ILE:HG22	19	1.56
(1,3687)	1:89:A:ALA:HB1	1:87:A:ALA:HB3	1	1.55
(1,3511)	1:90:A:PHE:HE1	1:17:A:LEU:HD12	11	1.55
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD22	5	1.55
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG13	3	1.55
(1,3580)	1:101:A:ASN:HB3	1:102:A:ALA:HB1	4	1.54
(1,3473)	1:31:A:LEU:HD22	1:92:A:SER:HA	20	1.54
(1,3849)	1:51:A:ALA:HB1	1:132:A:ASP:HB2	9	1.53
(1,3766)	1:105:A:ILE:HD11	1:120:A:VAL:HG22	13	1.53
(1,3689)	1:97:A:ALA:HB3	1:100:A:LEU:HD22	16	1.53
(1,3687)	1:89:A:ALA:HB2	1:87:A:ALA:HB1	12	1.53
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD12	14	1.53
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD13	5	1.53
(1,3286)	1:48:A:VAL:HG11	1:47:A:VAL:HB	3	1.53
(1,3582)	1:17:A:LEU:HD21	1:191:A:PRO:HB2	14	1.52
(1,3511)	1:90:A:PHE:HE1	1:17:A:LEU:HD12	8	1.52
(1,3607)	1:36:A:ARG:HE	1:116:A:LEU:HD22	20	1.51
(1,3582)	1:17:A:LEU:HD11	1:191:A:PRO:HB3	1	1.51
(1,3580)	1:101:A:ASN:HB3	1:102:A:ALA:HB1	5	1.51
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG12	14	1.51
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD13	8	1.5
(1,3473)	1:21:A:VAL:HG12	1:92:A:SER:HA	12	1.5
(1,3394)	1:48:A:VAL:HG13	1:41:A:GLN:HG2	5	1.5
(1,3251)	1:47:A:VAL:HB	1:73:A:ALA:HB3	4	1.5
(1,3849)	1:102:A:ALA:HB1	1:104:A:ASN:HB3	7	1.49
(1,3849)	1:102:A:ALA:HB3	1:104:A:ASN:HB3	17	1.49
(1,3644)	1:113:A:LEU:HD22	1:17:A:LEU:HD13	16	1.49
(1,3623)	1:140:A:ILE:HD13	1:95:A:PHE:HE1	3	1.49
(1,3511)	1:96:A:ASN:HD21	1:17:A:LEU:HD12	17	1.49
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD21	17	1.49
(1,3781)	1:21:A:VAL:HG23	1:20:A:ARG:HG2	1	1.48
(1,3623)	1:140:A:ILE:HD12	1:95:A:PHE:HE1	17	1.48
(1,3572)	1:85:A:ALA:HB1	1:80:A:GLY:HA2	8	1.48
(1,3761)	1:112:A:VAL:HG23	1:13:A:ALA:HB1	12	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3580)	1:104:A:ASN:HB3	1:102:A:ALA:HB2	13	1.47
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD12	10	1.46
(1,3572)	1:85:A:ALA:HB1	1:80:A:GLY:HA3	7	1.46
(1,3511)	1:90:A:PHE:HE1	1:17:A:LEU:HD11	4	1.46
(1,3474)	1:67:A:ALA:HB1	1:69:A:PHE:HB2	20	1.46
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA3	7	1.46
(1,3348)	1:132:A:ASP:H	1:35:A:LEU:HD11	2	1.46
(1,3286)	1:48:A:VAL:HG21	1:41:A:GLN:HB3	4	1.46
(1,3275)	1:55:A:LEU:HD13	1:121:A:SER:HB2	2	1.46
(1,3660)	1:185:A:PRO:HG2	1:186:A:LEU:HD13	17	1.45
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD13	10	1.45
(1,3340)	1:17:A:LEU:HD13	1:20:A:ARG:HB2	9	1.45
(1,3340)	1:120:A:VAL:HG13	1:117:A:LEU:HB3	14	1.45
(1,3761)	1:112:A:VAL:HG23	1:13:A:ALA:HB1	7	1.44
(1,3511)	1:96:A:ASN:HD21	1:17:A:LEU:HD11	9	1.44
(1,3422)	1:35:A:LEU:HD23	1:86:A:TYR:HB2	10	1.44
(1,3419)	1:18:A:ILE:HG13	1:172:A:PRO:HG3	11	1.44
(1,3419)	1:31:A:LEU:HD11	1:172:A:PRO:HG3	18	1.44
(1,3381)	1:177:A:THR:HG23	1:179:A:PRO:HD2	14	1.44
(1,3340)	1:120:A:VAL:HG11	1:117:A:LEU:HB3	18	1.44
(1,3320)	1:99:A:VAL:HG13	1:100:A:LEU:HB3	2	1.44
(1,3906)	1:30:A:THR:HG21	1:95:A:PHE:HE1	11	1.43
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB3	5	1.43
(1,3582)	1:17:A:LEU:HD13	1:191:A:PRO:HB3	19	1.43
(1,3572)	1:85:A:ALA:HB2	1:80:A:GLY:HA3	14	1.43
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA3	11	1.43
(1,3906)	1:30:A:THR:HG23	1:95:A:PHE:HE1	16	1.42
(1,3679)	1:70:A:ALA:HB1	1:61:A:VAL:HG13	13	1.42
(1,3657)	1:77:A:LEU:HD22	1:73:A:ALA:HA	9	1.42
(1,3474)	1:67:A:ALA:HB3	1:69:A:PHE:HB2	5	1.42
(1,3376)	1:132:A:ASP:HB3	1:136:A:VAL:HG21	6	1.42
(1,3220)	1:9:A:ALA:HB2	1:117:A:LEU:HD22	7	1.42
(1,3793)	1:48:A:VAL:HG21	1:65:A:ASN:HD21	8	1.41
(1,3474)	1:67:A:ALA:HB3	1:69:A:PHE:HB2	10	1.41
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG11	8	1.41
(1,1145)	1:127:A:LEU:H	1:129:A:ILE:HG23	13	1.41
(1,3811)	1:70:A:ALA:HB3	1:51:A:ALA:HB3	19	1.4
(1,3644)	1:113:A:LEU:HD23	1:17:A:LEU:HD12	10	1.4
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB2	6	1.4
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD13	9	1.4
(1,3220)	1:9:A:ALA:HB2	1:117:A:LEU:HD23	2	1.4
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG22	2	1.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3753)	1:15:A:ALA:HB2	1:18:A:ILE:HG23	16	1.39
(1,3687)	1:89:A:ALA:HB3	1:87:A:ALA:HB2	2	1.39
(1,3437)	1:101:A:ASN:HB3	1:194:A:GLN:HG3	2	1.39
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD22	7	1.39
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD21	16	1.39
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD23	20	1.39
(1,3320)	1:99:A:VAL:HG12	1:100:A:LEU:HB3	16	1.39
(1,3281)	1:77:A:LEU:HB3	1:74:A:VAL:HG11	5	1.39
(1,3761)	1:112:A:VAL:HG23	1:13:A:ALA:HB2	4	1.38
(1,3644)	1:113:A:LEU:HD11	1:17:A:LEU:HD11	20	1.38
(1,3602)	1:95:A:PHE:HA	1:94:A:LEU:HD13	3	1.38
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD11	9	1.38
(1,3340)	1:120:A:VAL:HG21	1:117:A:LEU:HB3	1	1.38
(1,3340)	1:120:A:VAL:HG13	1:117:A:LEU:HB3	11	1.38
(1,2430)	1:43:A:ILE:HD11	1:50:A:ARG:HG3	20	1.38
(1,3849)	1:51:A:ALA:HB1	1:132:A:ASP:HB2	12	1.37
(1,3644)	1:113:A:LEU:HD21	1:17:A:LEU:HD11	9	1.37
(1,3553)	1:87:A:ALA:HB2	1:43:A:ILE:HA	13	1.37
(1,3511)	1:96:A:ASN:HD21	1:17:A:LEU:HD12	12	1.37
(1,3474)	1:67:A:ALA:HB1	1:69:A:PHE:HB2	17	1.37
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG13	16	1.37
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB3	5	1.36
(1,3766)	1:129:A:ILE:HG12	1:120:A:VAL:HG11	5	1.36
(1,3340)	1:17:A:LEU:HD12	1:20:A:ARG:HB2	16	1.36
(1,3220)	1:9:A:ALA:HB3	1:117:A:LEU:HD21	17	1.36
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD21	11	1.36
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG22	11	1.35
(1,3660)	1:185:A:PRO:HG2	1:186:A:LEU:HD21	5	1.35
(1,3404)	1:31:A:LEU:HD13	1:88:A:GLN:HG3	1	1.35
(1,3251)	1:47:A:VAL:HB	1:73:A:ALA:HB1	11	1.35
(1,1168)	1:22:A:ALA:H	1:99:A:VAL:HG13	10	1.35
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG11	6	1.34
(1,3473)	1:21:A:VAL:HG11	1:92:A:SER:HA	16	1.34
(1,3413)	1:100:A:LEU:HD23	1:195:A:SER:HB2	5	1.34
(1,3220)	1:9:A:ALA:HB3	1:117:A:LEU:HD22	6	1.34
(1,3220)	1:9:A:ALA:HB2	1:117:A:LEU:HD11	13	1.34
(1,1070)	1:52:A:ALA:H	1:129:A:ILE:HG13	5	1.34
(1,3753)	1:15:A:ALA:HB2	1:18:A:ILE:HG22	13	1.33
(1,3639)	1:156:A:TYR:HB2	1:157:A:SER:HB2	6	1.33
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG22	4	1.32
(1,3545)	1:55:A:LEU:HD13	1:49:A:GLN:HB3	15	1.32
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG12	2	1.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3906)	1:30:A:THR:HG22	1:95:A:PHE:HE1	13	1.31
(1,3766)	1:129:A:ILE:HG12	1:120:A:VAL:HG11	19	1.31
(1,3761)	1:112:A:VAL:HG23	1:13:A:ALA:HB1	20	1.31
(1,3687)	1:89:A:ALA:HB2	1:87:A:ALA:HB2	10	1.31
(1,3623)	1:140:A:ILE:HD12	1:95:A:PHE:HE1	11	1.31
(1,3580)	1:20:A:ARG:HD3	1:24:A:ALA:HB3	20	1.31
(1,3511)	1:90:A:PHE:HE2	1:17:A:LEU:HD11	20	1.31
(1,3394)	1:48:A:VAL:HG22	1:41:A:GLN:HG2	11	1.31
(1,3340)	1:120:A:VAL:HG23	1:117:A:LEU:HB3	12	1.31
(1,3340)	1:17:A:LEU:HD13	1:20:A:ARG:HB2	15	1.31
(1,2430)	1:43:A:ILE:HD13	1:77:A:LEU:HG	9	1.31
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG12	10	1.31
(1,3811)	1:70:A:ALA:HB2	1:51:A:ALA:HB2	15	1.3
(1,3657)	1:77:A:LEU:HD12	1:73:A:ALA:HA	3	1.3
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB2	17	1.3
(1,3511)	1:90:A:PHE:HE1	1:17:A:LEU:HD12	19	1.3
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD13	20	1.3
(1,3474)	1:67:A:ALA:HB3	1:69:A:PHE:HB2	3	1.3
(1,3344)	1:93:A:ALA:HB3	1:21:A:VAL:HG23	19	1.3
(1,3251)	1:136:A:VAL:HB	1:51:A:ALA:HB1	2	1.3
(1,3753)	1:15:A:ALA:HB2	1:18:A:ILE:HG23	7	1.29
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB3	8	1.29
(1,3572)	1:85:A:ALA:HB2	1:80:A:GLY:HA3	2	1.29
(1,3854)	1:85:A:ALA:HB2	1:77:A:LEU:HD21	13	1.28
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD12	15	1.28
(1,3473)	1:21:A:VAL:HG12	1:92:A:SER:HA	5	1.28
(1,3404)	1:31:A:LEU:HD12	1:88:A:GLN:HG3	7	1.28
(1,3344)	1:93:A:ALA:HB3	1:105:A:ILE:HD12	10	1.28
(1,3286)	1:48:A:VAL:HG22	1:41:A:GLN:HB3	11	1.28
(1,3753)	1:15:A:ALA:HB2	1:18:A:ILE:HG22	17	1.27
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD22	18	1.27
(1,3511)	1:96:A:ASN:HD22	1:17:A:LEU:HD13	5	1.27
(1,3364)	1:108:A:LEU:HD23	1:105:A:ILE:HD12	12	1.27
(1,3286)	1:48:A:VAL:HG13	1:47:A:VAL:HB	6	1.27
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG13	1	1.27
(1,1145)	1:127:A:LEU:H	1:129:A:ILE:HG23	12	1.27
(1,3753)	1:15:A:ALA:HB2	1:18:A:ILE:HG21	5	1.26
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB2	1	1.26
(1,3511)	1:96:A:ASN:HD22	1:17:A:LEU:HD13	16	1.26
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD11	6	1.26
(1,3474)	1:67:A:ALA:HB3	1:69:A:PHE:HB2	7	1.26
(1,3906)	1:30:A:THR:HG21	1:95:A:PHE:HE1	9	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3863)	1:129:A:ILE:HG12	1:55:A:LEU:HD11	3	1.25
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG22	15	1.25
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB2	8	1.25
(1,3511)	1:90:A:PHE:HE2	1:17:A:LEU:HD12	6	1.25
(1,3472)	1:117:A:LEU:HB2	1:113:A:LEU:HD22	19	1.25
(1,3419)	1:31:A:LEU:HD12	1:172:A:PRO:HG3	5	1.25
(1,3416)	1:39:A:VAL:HG13	1:129:A:ILE:HD13	18	1.25
(1,3332)	1:52:A:ALA:HB1	1:129:A:ILE:HD11	12	1.25
(1,3906)	1:30:A:THR:HG21	1:95:A:PHE:HE1	8	1.24
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB1	4	1.24
(1,3759)	1:161:A:ALA:HB2	1:175:A:PRO:HB3	18	1.24
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG23	1	1.24
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG21	3	1.24
(1,3413)	1:100:A:LEU:HD22	1:195:A:SER:HB3	19	1.24
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG12	11	1.24
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD22	9	1.24
(1,3763)	1:41:A:GLN:HB3	1:45:A:SER:HB3	18	1.23
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG22	19	1.23
(1,3687)	1:89:A:ALA:HB2	1:87:A:ALA:HB3	13	1.23
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG23	4	1.23
(1,3592)	1:99:A:VAL:HG22	1:22:A:ALA:HB2	20	1.23
(1,3574)	1:86:A:TYR:HD1	1:44:A:ALA:HB1	13	1.23
(1,3381)	1:177:A:THR:HG22	1:179:A:PRO:HD3	20	1.23
(1,3340)	1:120:A:VAL:HG12	1:117:A:LEU:HB3	8	1.23
(1,3251)	1:47:A:VAL:HB	1:73:A:ALA:HB3	3	1.23
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG21	10	1.23
(1,3906)	1:30:A:THR:HG22	1:95:A:PHE:HE1	3	1.22
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB3	1	1.22
(1,3768)	1:172:A:PRO:HG2	1:24:A:ALA:HB1	3	1.22
(1,3696)	1:129:A:ILE:HG22	1:50:A:ARG:HB3	14	1.22
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG23	17	1.22
(1,3511)	1:90:A:PHE:HE1	1:17:A:LEU:HD11	3	1.22
(1,3422)	1:35:A:LEU:HD12	1:86:A:TYR:HB3	20	1.22
(1,3340)	1:17:A:LEU:HD13	1:20:A:ARG:HB2	4	1.22
(1,3340)	1:120:A:VAL:HG13	1:117:A:LEU:HB3	10	1.22
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG12	7	1.22
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG23	12	1.21
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG21	18	1.21
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB3	20	1.21
(1,3553)	1:87:A:ALA:HB2	1:43:A:ILE:HA	11	1.21
(1,3493)	1:23:A:ASN:HB2	1:18:A:ILE:HD11	11	1.21
(1,3419)	1:18:A:ILE:HG13	1:172:A:PRO:HG3	16	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3906)	1:30:A:THR:HG23	1:95:A:PHE:HE1	20	1.2
(1,3863)	1:129:A:ILE:HG12	1:55:A:LEU:HD12	18	1.2
(1,3753)	1:15:A:ALA:HB2	1:18:A:ILE:HG21	6	1.2
(1,3660)	1:185:A:PRO:HG2	1:186:A:LEU:HD22	16	1.2
(1,3607)	1:36:A:ARG:HE	1:116:A:LEU:HD11	10	1.2
(1,3574)	1:41:A:GLN:HE21	1:44:A:ALA:HB3	10	1.2
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD13	9	1.2
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB3	12	1.2
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA3	18	1.2
(1,1054)	1:56:A:ALA:H	1:55:A:LEU:HD11	17	1.2
(1,3913)	1:99:A:VAL:HG21	1:95:A:PHE:HD2	1	1.19
(1,3849)	1:51:A:ALA:HB2	1:132:A:ASP:HB2	15	1.19
(1,3644)	1:113:A:LEU:HD12	1:17:A:LEU:HD13	6	1.19
(1,3632)	1:44:A:ALA:HB2	1:43:A:ILE:HB	17	1.19
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB3	9	1.19
(1,3394)	1:48:A:VAL:HG12	1:41:A:GLN:HG2	19	1.19
(1,3811)	1:70:A:ALA:HB3	1:51:A:ALA:HB3	12	1.18
(1,3785)	1:158:A:GLN:HB2	1:161:A:ALA:HB2	9	1.18
(1,3761)	1:112:A:VAL:HG22	1:13:A:ALA:HB3	5	1.18
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	13	1.18
(1,3422)	1:35:A:LEU:HD12	1:86:A:TYR:HB3	17	1.18
(1,3340)	1:120:A:VAL:HG22	1:117:A:LEU:HB3	20	1.18
(1,3320)	1:99:A:VAL:HG21	1:100:A:LEU:HD22	17	1.18
(1,2430)	1:43:A:ILE:HD11	1:77:A:LEU:HG	10	1.18
(1,1162)	1:46:A:SER:H	1:47:A:VAL:HG22	14	1.18
(1,1070)	1:52:A:ALA:H	1:129:A:ILE:HG12	16	1.18
(1,3906)	1:30:A:THR:HG23	1:95:A:PHE:HE1	12	1.17
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD23	12	1.17
(1,3320)	1:99:A:VAL:HG22	1:100:A:LEU:HD23	18	1.17
(1,3906)	1:30:A:THR:HG23	1:95:A:PHE:HE1	10	1.16
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB1	6	1.16
(1,3582)	1:17:A:LEU:HD21	1:191:A:PRO:HB2	2	1.16
(1,3511)	1:96:A:ASN:HD21	1:17:A:LEU:HD13	13	1.16
(1,3404)	1:35:A:LEU:HB2	1:88:A:GLN:HG2	3	1.16
(1,3404)	1:31:A:LEU:HD12	1:88:A:GLN:HG3	13	1.16
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD22	17	1.16
(1,3214)	1:14:A:SER:HB2	1:18:A:ILE:HD11	18	1.16
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG13	18	1.16
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD21	19	1.16
(1,952)	1:104:A:ASN:HD22	1:92:A:SER:HB2	4	1.16
(1,3766)	1:105:A:ILE:HD13	1:120:A:VAL:HG11	20	1.15
(1,3687)	1:89:A:ALA:HB2	1:87:A:ALA:HB2	5	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3632)	1:44:A:ALA:HB2	1:43:A:ILE:HB	16	1.15
(1,3511)	1:90:A:PHE:HE1	1:17:A:LEU:HD13	18	1.15
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD22	1	1.15
(1,3319)	1:61:A:VAL:HG22	1:65:A:ASN:HB2	9	1.15
(1,1070)	1:67:A:ALA:H	1:70:A:ALA:HB3	8	1.15
(1,3863)	1:129:A:ILE:HG13	1:55:A:LEU:HD22	19	1.14
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG23	3	1.14
(1,3413)	1:99:A:VAL:HG13	1:195:A:SER:HB2	20	1.14
(1,3344)	1:93:A:ALA:HB2	1:105:A:ILE:HD12	5	1.14
(1,3906)	1:30:A:THR:HG22	1:95:A:PHE:HE1	1	1.13
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB2	19	1.13
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB1	20	1.13
(1,3863)	1:129:A:ILE:HG12	1:55:A:LEU:HD21	12	1.13
(1,3799)	1:131:A:VAL:HG22	1:51:A:ALA:HA	16	1.13
(1,3768)	1:172:A:PRO:HG3	1:24:A:ALA:HB3	19	1.13
(1,3766)	1:129:A:ILE:HG12	1:120:A:VAL:HG11	2	1.13
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG22	8	1.13
(1,3455)	1:44:A:ALA:HB1	1:86:A:TYR:HE1	10	1.13
(1,3455)	1:44:A:ALA:HB1	1:86:A:TYR:HE1	13	1.13
(1,3419)	1:31:A:LEU:HD12	1:172:A:PRO:HG3	6	1.13
(1,3364)	1:117:A:LEU:HD11	1:105:A:ILE:HD11	19	1.13
(1,3300)	1:35:A:LEU:HB2	1:136:A:VAL:HG22	3	1.13
(1,3285)	1:44:A:ALA:HB1	1:86:A:TYR:HE1	13	1.13
(1,1045)	1:45:A:SER:H	1:48:A:VAL:HG13	5	1.13
(1,3811)	1:70:A:ALA:HB3	1:51:A:ALA:HB1	3	1.12
(1,3811)	1:70:A:ALA:HB2	1:51:A:ALA:HB1	13	1.12
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG23	9	1.12
(1,3753)	1:15:A:ALA:HB1	1:18:A:ILE:HG23	18	1.12
(1,3660)	1:185:A:PRO:HG2	1:186:A:LEU:HD13	2	1.12
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD12	18	1.12
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD13	11	1.12
(1,3421)	1:193:A:GLY:HA3	1:191:A:PRO:HD2	12	1.12
(1,3419)	1:31:A:LEU:HD12	1:172:A:PRO:HG2	10	1.12
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA2	8	1.12
(1,3376)	1:130:A:ASN:HB3	1:136:A:VAL:HG11	18	1.12
(1,3340)	1:17:A:LEU:HD11	1:20:A:ARG:HB2	19	1.12
(1,3320)	1:99:A:VAL:HG23	1:100:A:LEU:HD21	7	1.12
(1,3286)	1:48:A:VAL:HG22	1:47:A:VAL:HB	19	1.12
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG23	9	1.12
(1,1162)	1:46:A:SER:H	1:47:A:VAL:HG23	15	1.12
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD22	15	1.12
(1,3785)	1:158:A:GLN:HB2	1:161:A:ALA:HB1	1	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3697)	1:13:A:ALA:HB1	1:108:A:LEU:HB3	16	1.11
(1,3689)	1:97:A:ALA:HB3	1:100:A:LEU:HD21	2	1.11
(1,3580)	1:20:A:ARG:HD3	1:24:A:ALA:HB3	12	1.11
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB3	20	1.11
(1,3511)	1:90:A:PHE:HE2	1:17:A:LEU:HD11	14	1.11
(1,3437)	1:101:A:ASN:HB2	1:194:A:GLN:HG3	20	1.11
(1,3381)	1:177:A:THR:HG21	1:179:A:PRO:HD3	3	1.11
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD23	6	1.11
(1,3320)	1:99:A:VAL:HG22	1:100:A:LEU:HD21	11	1.11
(1,3320)	1:99:A:VAL:HG23	1:100:A:LEU:HD21	13	1.11
(1,3766)	1:129:A:ILE:HG12	1:120:A:VAL:HG13	8	1.1
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	19	1.1
(1,3553)	1:87:A:ALA:HB2	1:43:A:ILE:HA	3	1.1
(1,3553)	1:87:A:ALA:HB1	1:43:A:ILE:HA	6	1.1
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD21	18	1.1
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD21	19	1.1
(1,2430)	1:43:A:ILE:HD11	1:77:A:LEU:HG	4	1.1
(1,1070)	1:52:A:ALA:H	1:129:A:ILE:HG12	14	1.1
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD23	12	1.1
(1,952)	1:104:A:ASN:HD22	1:92:A:SER:HB2	8	1.1
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB1	16	1.09
(1,3863)	1:129:A:ILE:HG12	1:55:A:LEU:HD11	1	1.09
(1,3863)	1:129:A:ILE:HG12	1:55:A:LEU:HD22	13	1.09
(1,3793)	1:48:A:VAL:HG21	1:65:A:ASN:HD21	13	1.09
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG23	11	1.09
(1,3657)	1:77:A:LEU:HD23	1:73:A:ALA:HA	17	1.09
(1,3632)	1:44:A:ALA:HB3	1:48:A:VAL:HB	12	1.09
(1,3607)	1:36:A:ARG:HE	1:116:A:LEU:HD11	17	1.09
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB2	5	1.09
(1,3554)	1:13:A:ALA:HB1	1:104:A:ASN:HB2	2	1.09
(1,3513)	1:85:A:ALA:HB1	1:81:A:SER:HB2	7	1.09
(1,3348)	1:132:A:ASP:H	1:35:A:LEU:HD11	13	1.09
(1,3251)	1:47:A:VAL:HB	1:73:A:ALA:HB3	20	1.09
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	4	1.09
(1,1054)	1:56:A:ALA:H	1:55:A:LEU:HD11	5	1.09
(1,3863)	1:129:A:ILE:HG12	1:55:A:LEU:HD22	16	1.08
(1,3793)	1:48:A:VAL:HG13	1:65:A:ASN:HD22	4	1.08
(1,3781)	1:21:A:VAL:HG23	1:20:A:ARG:HG3	13	1.08
(1,3768)	1:172:A:PRO:HG3	1:18:A:ILE:HB	15	1.08
(1,3582)	1:17:A:LEU:HD12	1:191:A:PRO:HB3	3	1.08
(1,3511)	1:90:A:PHE:HE1	1:17:A:LEU:HD13	15	1.08
(1,3499)	1:47:A:VAL:HG12	1:49:A:GLN:HG3	15	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD21	16	1.08
(1,3413)	1:99:A:VAL:HG12	1:195:A:SER:HB3	3	1.08
(1,3355)	1:28:A:THR:HG23	1:34:A:VAL:HB	7	1.08
(1,1070)	1:67:A:ALA:H	1:70:A:ALA:HB2	7	1.08
(1,1054)	1:56:A:ALA:H	1:55:A:LEU:HD11	16	1.08
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD11	6	1.08
(1,3913)	1:99:A:VAL:HG23	1:95:A:PHE:HD2	13	1.07
(1,3632)	1:44:A:ALA:HB1	1:43:A:ILE:HB	13	1.07
(1,3623)	1:140:A:ILE:HD11	1:95:A:PHE:HE1	1	1.07
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB2	2	1.07
(1,3586)	1:86:A:TYR:HB2	1:77:A:LEU:HD21	3	1.07
(1,3553)	1:87:A:ALA:HB3	1:43:A:ILE:HA	12	1.07
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD11	4	1.07
(1,3413)	1:100:A:LEU:HD22	1:195:A:SER:HB3	6	1.07
(1,3372)	1:53:A:GLN:HB3	1:56:A:ALA:HB3	12	1.07
(1,3364)	1:108:A:LEU:HD13	1:105:A:ILE:HD12	15	1.07
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD22	1	1.07
(1,3232)	1:96:A:ASN:HB3	1:105:A:ILE:HD11	4	1.07
(1,1162)	1:46:A:SER:H	1:47:A:VAL:HG21	20	1.07
(1,3764)	1:111:A:ARG:HD2	1:112:A:VAL:HG23	2	1.06
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	7	1.06
(1,3672)	1:85:A:ALA:HA	1:88:A:GLN:HB3	4	1.06
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG23	13	1.06
(1,3572)	1:85:A:ALA:HB2	1:80:A:GLY:HA3	6	1.06
(1,3554)	1:13:A:ALA:HB1	1:104:A:ASN:HB2	7	1.06
(1,3553)	1:87:A:ALA:HB1	1:43:A:ILE:HA	15	1.06
(1,3499)	1:48:A:VAL:HG11	1:49:A:GLN:HG2	7	1.06
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB2	2	1.06
(1,3423)	1:9:A:ALA:H	1:42:A:GLN:HB3	7	1.06
(1,3421)	1:22:A:ALA:HA	1:191:A:PRO:HD3	17	1.06
(1,3404)	1:31:A:LEU:HD12	1:88:A:GLN:HG3	4	1.06
(1,3338)	1:112:A:VAL:HG23	1:111:A:ARG:HD2	2	1.06
(1,3320)	1:99:A:VAL:HG23	1:100:A:LEU:HD22	19	1.06
(1,962)	1:117:A:LEU:H	1:113:A:LEU:HD11	15	1.06
(1,3785)	1:3:A:PRO:HB3	1:9:A:ALA:HB2	18	1.05
(1,3657)	1:77:A:LEU:HD12	1:73:A:ALA:HA	20	1.05
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD3	1	1.05
(1,3413)	1:100:A:LEU:HD23	1:195:A:SER:HB3	14	1.05
(1,3906)	1:30:A:THR:HG23	1:95:A:PHE:HE1	18	1.04
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG21	20	1.04
(1,3736)	1:191:A:PRO:HB2	1:190:A:ALA:HB3	4	1.04
(1,3689)	1:97:A:ALA:HB3	1:100:A:LEU:HD21	9	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3554)	1:13:A:ALA:HB2	1:104:A:ASN:HB2	1	1.04
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD12	3	1.04
(1,3499)	1:48:A:VAL:HG12	1:49:A:GLN:HG3	4	1.04
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD22	1	1.04
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD21	2	1.04
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD22	17	1.04
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB3	16	1.04
(1,1162)	1:46:A:SER:H	1:47:A:VAL:HG11	1	1.04
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB2	15	1.03
(1,3785)	1:158:A:GLN:HB2	1:161:A:ALA:HB1	17	1.03
(1,3632)	1:44:A:ALA:HB1	1:48:A:VAL:HB	3	1.03
(1,3623)	1:140:A:ILE:HD11	1:95:A:PHE:HE1	9	1.03
(1,3623)	1:140:A:ILE:HD13	1:95:A:PHE:HE1	19	1.03
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD13	12	1.03
(1,3423)	1:10:A:THR:H	1:42:A:GLN:HB3	13	1.03
(1,3340)	1:120:A:VAL:HG13	1:117:A:LEU:HB3	7	1.03
(1,3232)	1:96:A:ASN:HB3	1:105:A:ILE:HD13	12	1.03
(1,1162)	1:46:A:SER:H	1:47:A:VAL:HG21	5	1.03
(1,1034)	1:109:A:GLY:H	1:112:A:VAL:HG22	15	1.03
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB3	8	1.02
(1,3854)	1:79:A:ALA:HB1	1:77:A:LEU:HD21	20	1.02
(1,3692)	1:117:A:LEU:HG	1:105:A:ILE:HG23	10	1.02
(1,3687)	1:89:A:ALA:HB1	1:87:A:ALA:HB2	7	1.02
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG23	10	1.02
(1,3607)	1:90:A:PHE:HE2	1:116:A:LEU:HD21	5	1.02
(1,3579)	1:43:A:ILE:HD13	1:43:A:ILE:HG21	19	1.02
(1,3554)	1:13:A:ALA:HB2	1:104:A:ASN:HB2	9	1.02
(1,3554)	1:13:A:ALA:HB1	1:104:A:ASN:HB2	11	1.02
(1,3422)	1:35:A:LEU:HD12	1:86:A:TYR:HB3	5	1.02
(1,3416)	1:37:A:THR:HG23	1:129:A:ILE:HD11	10	1.02
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD13	19	1.02
(1,3394)	1:48:A:VAL:HG13	1:41:A:GLN:HG3	8	1.02
(1,3279)	1:178:A:GLY:HA3	1:177:A:THR:HB	6	1.02
(1,2430)	1:43:A:ILE:HD13	1:77:A:LEU:HG	8	1.02
(1,3734)	1:37:A:THR:HA	1:136:A:VAL:HB	20	1.01
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	8	1.01
(1,3639)	1:156:A:TYR:HB3	1:157:A:SER:HB2	19	1.01
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB2	6	1.01
(1,3554)	1:13:A:ALA:HB2	1:104:A:ASN:HB2	4	1.01
(1,3472)	1:117:A:LEU:HB2	1:113:A:LEU:HD22	4	1.01
(1,3372)	1:53:A:GLN:HB2	1:52:A:ALA:HB1	3	1.01
(1,3364)	1:108:A:LEU:HD11	1:105:A:ILE:HD11	2	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG22	2	1.01
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG23	18	1.01
(1,1070)	1:67:A:ALA:H	1:71:A:VAL:HG23	18	1.01
(1,3863)	1:129:A:ILE:HG13	1:55:A:LEU:HD21	7	1.0
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD13	15	1.0
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD22	3	1.0
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB2	14	1.0
(1,3422)	1:35:A:LEU:HD23	1:132:A:ASP:HB3	4	1.0
(1,3231)	1:34:A:VAL:HG22	1:139:A:ASP:HA	11	1.0
(1,1017)	1:102:A:ALA:H	1:105:A:ILE:HD11	20	1.0
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD22	16	1.0
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	5	1.0
(1,3906)	1:30:A:THR:HG23	1:95:A:PHE:HE1	15	0.99
(1,3572)	1:85:A:ALA:HB2	1:88:A:GLN:HA	10	0.99
(1,3511)	1:90:A:PHE:HE1	1:17:A:LEU:HD12	7	0.99
(1,3413)	1:100:A:LEU:HD22	1:195:A:SER:HB2	17	0.99
(1,3404)	1:31:A:LEU:HD12	1:88:A:GLN:HG3	10	0.99
(1,3309)	1:85:A:ALA:HA	1:86:A:TYR:HB3	10	0.99
(1,2430)	1:43:A:ILE:HD11	1:77:A:LEU:HG	18	0.99
(1,1096)	1:96:A:ASN:H	1:93:A:ALA:HB1	10	0.99
(1,1017)	1:102:A:ALA:H	1:105:A:ILE:HD12	18	0.99
(1,3849)	1:51:A:ALA:HB3	1:132:A:ASP:HB2	6	0.98
(1,3820)	1:101:A:ASN:HB2	1:104:A:ASN:HB2	8	0.98
(1,3768)	1:172:A:PRO:HG3	1:24:A:ALA:HB3	13	0.98
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	2	0.98
(1,3707)	1:86:A:TYR:HB3	1:43:A:ILE:HG23	20	0.98
(1,3696)	1:129:A:ILE:HG22	1:50:A:ARG:HB3	15	0.98
(1,3579)	1:43:A:ILE:HD11	1:77:A:LEU:HD12	1	0.98
(1,3579)	1:43:A:ILE:HD11	1:43:A:ILE:HG23	11	0.98
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB3	11	0.98
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD22	5	0.98
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD12	1	0.98
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD11	13	0.98
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG23	14	0.98
(1,3319)	1:61:A:VAL:HG23	1:65:A:ASN:HB2	14	0.98
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	11	0.98
(1,1096)	1:96:A:ASN:H	1:93:A:ALA:HB1	3	0.98
(1,1075)	1:48:A:VAL:H	1:56:A:ALA:HB1	14	0.98
(1,1070)	1:67:A:ALA:H	1:70:A:ALA:HB1	3	0.98
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	15	0.98
(1,3863)	1:129:A:ILE:HG13	1:55:A:LEU:HD22	8	0.97
(1,3852)	1:48:A:VAL:HG11	1:35:A:LEU:HD23	10	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3660)	1:172:A:PRO:HG2	1:18:A:ILE:HG13	3	0.97
(1,3579)	1:43:A:ILE:HD13	1:43:A:ILE:HG21	4	0.97
(1,3579)	1:43:A:ILE:HD12	1:43:A:ILE:HG23	13	0.97
(1,3579)	1:43:A:ILE:HD12	1:43:A:ILE:HG22	16	0.97
(1,3554)	1:13:A:ALA:HB3	1:104:A:ASN:HB2	12	0.97
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD12	6	0.97
(1,3419)	1:18:A:ILE:HG13	1:172:A:PRO:HG2	3	0.97
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD23	8	0.97
(1,3340)	1:120:A:VAL:HG12	1:117:A:LEU:HB3	6	0.97
(1,3231)	1:34:A:VAL:HG13	1:36:A:ARG:HA	5	0.97
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG22	2	0.97
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	16	0.97
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	20	0.97
(1,3582)	1:17:A:LEU:HD11	1:191:A:PRO:HB3	13	0.96
(1,3554)	1:13:A:ALA:HB2	1:104:A:ASN:HB2	5	0.96
(1,3499)	1:47:A:VAL:HG22	1:49:A:GLN:HG3	16	0.96
(1,3473)	1:21:A:VAL:HG12	1:92:A:SER:HA	6	0.96
(1,3422)	1:35:A:LEU:HD22	1:86:A:TYR:HB3	2	0.96
(1,3344)	1:93:A:ALA:HB1	1:105:A:ILE:HD12	16	0.96
(1,3340)	1:120:A:VAL:HG11	1:117:A:LEU:HB3	3	0.96
(1,3320)	1:99:A:VAL:HG23	1:100:A:LEU:HD23	20	0.96
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD12	4	0.96
(1,3213)	1:129:A:ILE:HD13	1:50:A:ARG:HG2	20	0.96
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB2	12	0.96
(1,1078)	1:56:A:ALA:H	1:50:A:ARG:HE	20	0.96
(1,1063)	1:126:A:GLY:H	1:123:A:ALA:HB3	4	0.96
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB2	19	0.96
(1,1054)	1:146:A:PHE:H	1:147:A:LEU:HD21	20	0.96
(1,3799)	1:131:A:VAL:HG12	1:51:A:ALA:HA	6	0.95
(1,3793)	1:48:A:VAL:HG23	1:65:A:ASN:HD21	1	0.95
(1,3706)	1:88:A:GLN:HE22	1:35:A:LEU:HD13	10	0.95
(1,3592)	1:100:A:LEU:HD22	1:22:A:ALA:HB3	10	0.95
(1,3579)	1:43:A:ILE:HD13	1:43:A:ILE:HG21	18	0.95
(1,3519)	1:17:A:LEU:HB2	1:20:A:ARG:HD2	19	0.95
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD13	3	0.95
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD21	13	0.95
(1,3511)	1:90:A:PHE:HE2	1:17:A:LEU:HD13	2	0.95
(1,3490)	1:17:A:LEU:HD11	1:20:A:ARG:HB2	6	0.95
(1,3473)	1:21:A:VAL:HG12	1:92:A:SER:HA	14	0.95
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD21	20	0.95
(1,3295)	1:39:A:VAL:HG21	1:43:A:ILE:HB	17	0.95
(1,3286)	1:48:A:VAL:HG12	1:41:A:GLN:HB3	13	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG21	17	0.95
(1,3214)	1:14:A:SER:HB3	1:100:A:LEU:HD23	10	0.95
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG22	17	0.95
(1,1070)	1:67:A:ALA:H	1:70:A:ALA:HB2	9	0.95
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD22	5	0.95
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB2	4	0.94
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB3	7	0.94
(1,3763)	1:41:A:GLN:HB2	1:46:A:SER:HB3	10	0.94
(1,3672)	1:85:A:ALA:HA	1:88:A:GLN:HB2	2	0.94
(1,3579)	1:43:A:ILE:HD11	1:43:A:ILE:HG23	12	0.94
(1,3579)	1:43:A:ILE:HD13	1:43:A:ILE:HG22	14	0.94
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG22	15	0.94
(1,3437)	1:101:A:ASN:HB2	1:194:A:GLN:HG2	5	0.94
(1,3332)	1:52:A:ALA:HB3	1:129:A:ILE:HD12	13	0.94
(1,3287)	1:122:A:SER:HB2	1:121:A:SER:HB3	3	0.94
(1,3286)	1:48:A:VAL:HG13	1:41:A:GLN:HB2	10	0.94
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD12	16	0.94
(1,1017)	1:102:A:ALA:H	1:105:A:ILE:HD12	17	0.94
(1,1013)	1:128:A:GLY:H	1:123:A:ALA:HB2	12	0.94
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	14	0.94
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD21	4	0.94
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD23	20	0.94
(1,962)	1:117:A:LEU:H	1:120:A:VAL:HG22	9	0.94
(1,3913)	1:99:A:VAL:HG22	1:95:A:PHE:HD2	18	0.93
(1,3766)	1:129:A:ILE:HG13	1:120:A:VAL:HG23	9	0.93
(1,3554)	1:13:A:ALA:HB1	1:104:A:ASN:HB2	20	0.93
(1,3553)	1:87:A:ALA:HB2	1:30:A:THR:HB	16	0.93
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD12	8	0.93
(1,3499)	1:48:A:VAL:HG11	1:49:A:GLN:HG3	20	0.93
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB2	15	0.93
(1,3473)	1:21:A:VAL:HG11	1:92:A:SER:HA	9	0.93
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG21	2	0.93
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG23	5	0.93
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG22	18	0.93
(1,3455)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	8	0.93
(1,3413)	1:100:A:LEU:HD13	1:195:A:SER:HB2	12	0.93
(1,3285)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	8	0.93
(1,3232)	1:96:A:ASN:HB3	1:105:A:ILE:HD12	8	0.93
(1,3231)	1:34:A:VAL:HG13	1:36:A:ARG:HA	19	0.93
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB2	3	0.93
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	12	0.93
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD13	12	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3906)	1:30:A:THR:HG23	1:95:A:PHE:HE1	6	0.92
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB3	11	0.92
(1,3759)	1:161:A:ALA:HB3	1:175:A:PRO:HB2	6	0.92
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	6	0.92
(1,3696)	1:129:A:ILE:HG21	1:50:A:ARG:HB3	2	0.92
(1,3679)	1:70:A:ALA:HB2	1:61:A:VAL:HG11	3	0.92
(1,3639)	1:156:A:TYR:HB2	1:155:A:SER:HB2	20	0.92
(1,3632)	1:44:A:ALA:HB2	1:43:A:ILE:HB	6	0.92
(1,3554)	1:13:A:ALA:HB2	1:104:A:ASN:HB2	6	0.92
(1,3554)	1:13:A:ALA:HB1	1:104:A:ASN:HB2	14	0.92
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG21	1	0.92
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG22	3	0.92
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG21	9	0.92
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG22	11	0.92
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG23	12	0.92
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG23	13	0.92
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG22	16	0.92
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG22	20	0.92
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD12	9	0.92
(1,3332)	1:52:A:ALA:HB1	1:129:A:ILE:HD12	14	0.92
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD22	11	0.92
(1,3286)	1:48:A:VAL:HG13	1:41:A:GLN:HB3	9	0.92
(1,3213)	1:129:A:ILE:HD12	1:50:A:ARG:HG2	14	0.92
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB2	17	0.92
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD13	20	0.92
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	12	0.92
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD22	10	0.92
(1,3799)	1:131:A:VAL:HG13	1:51:A:ALA:HA	11	0.91
(1,3799)	1:131:A:VAL:HG13	1:51:A:ALA:HA	19	0.91
(1,3632)	1:44:A:ALA:HB2	1:48:A:VAL:HB	4	0.91
(1,3623)	1:140:A:ILE:HD12	1:95:A:PHE:HE1	2	0.91
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB3	12	0.91
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG21	6	0.91
(1,3469)	1:58:A:THR:HA	1:58:A:THR:HG22	14	0.91
(1,3437)	1:101:A:ASN:HB3	1:194:A:GLN:HG2	16	0.91
(1,3332)	1:52:A:ALA:HB3	1:129:A:ILE:HD11	1	0.91
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD21	2	0.91
(1,3231)	1:34:A:VAL:HG13	1:36:A:ARG:HA	14	0.91
(1,1162)	1:46:A:SER:H	1:47:A:VAL:HG21	7	0.91
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB3	10	0.91
(1,3906)	1:30:A:THR:HG22	1:95:A:PHE:HE1	2	0.9
(1,3677)	1:13:A:ALA:HB2	1:12:A:GLY:HA3	7	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3607)	1:36:A:ARG:HE	1:116:A:LEU:HD12	3	0.9
(1,3592)	1:99:A:VAL:HG22	1:22:A:ALA:HB2	13	0.9
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB2	16	0.9
(1,3554)	1:13:A:ALA:HB3	1:104:A:ASN:HB2	19	0.9
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG23	10	0.9
(1,3469)	1:58:A:THR:HA	1:58:A:THR:HG21	15	0.9
(1,3469)	1:58:A:THR:HA	1:58:A:THR:HG21	19	0.9
(1,3295)	1:39:A:VAL:HG23	1:43:A:ILE:HB	19	0.9
(1,3286)	1:48:A:VAL:HG13	1:41:A:GLN:HB2	18	0.9
(1,3251)	1:47:A:VAL:HB	1:73:A:ALA:HB2	15	0.9
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG23	19	0.9
(1,1168)	1:22:A:ALA:H	1:99:A:VAL:HG13	20	0.9
(1,1096)	1:96:A:ASN:H	1:93:A:ALA:HB2	8	0.9
(1,1070)	1:52:A:ALA:H	1:129:A:ILE:HG12	1	0.9
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB1	7	0.9
(1,3790)	1:99:A:VAL:HG13	1:194:A:GLN:HA	8	0.89
(1,3750)	1:71:A:VAL:HG12	1:72:A:GLN:HB3	11	0.89
(1,3689)	1:97:A:ALA:HB2	1:100:A:LEU:HD22	10	0.89
(1,3623)	1:140:A:ILE:HD12	1:95:A:PHE:HE1	4	0.89
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB2	18	0.89
(1,3579)	1:43:A:ILE:HD13	1:43:A:ILE:HG21	15	0.89
(1,3579)	1:43:A:ILE:HD13	1:43:A:ILE:HG23	17	0.89
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB2	2	0.89
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB3	11	0.89
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG23	4	0.89
(1,3469)	1:33:A:THR:HA	1:33:A:THR:HG21	7	0.89
(1,3469)	1:58:A:THR:HA	1:58:A:THR:HG23	8	0.89
(1,3419)	1:31:A:LEU:HD12	1:172:A:PRO:HG3	7	0.89
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG21	11	0.89
(1,1054)	1:56:A:ALA:H	1:55:A:LEU:HD23	6	0.89
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	12	0.89
(1,3736)	1:191:A:PRO:HB2	1:190:A:ALA:HB2	7	0.88
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG11	1	0.88
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB2	13	0.88
(1,3579)	1:43:A:ILE:HD12	1:43:A:ILE:HG22	9	0.88
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB3	3	0.88
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD11	20	0.88
(1,3416)	1:39:A:VAL:HG11	1:129:A:ILE:HD13	6	0.88
(1,3404)	1:35:A:LEU:HB3	1:88:A:GLN:HG2	12	0.88
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA2	12	0.88
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG22	13	0.88
(1,3232)	1:96:A:ASN:HB3	1:105:A:ILE:HD11	20	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3231)	1:34:A:VAL:HG12	1:36:A:ARG:HA	9	0.88
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	19	0.88
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD12	14	0.88
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD21	10	0.88
(1,988)	1:23:A:ASN:H	1:21:A:VAL:HG12	6	0.88
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD21	13	0.88
(1,962)	1:117:A:LEU:H	1:120:A:VAL:HG22	3	0.88
(1,3913)	1:99:A:VAL:HG21	1:95:A:PHE:HD2	8	0.87
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB2	18	0.87
(1,3753)	1:15:A:ALA:HB3	1:18:A:ILE:HG22	14	0.87
(1,3750)	1:71:A:VAL:HG13	1:72:A:GLN:HB2	6	0.87
(1,3679)	1:70:A:ALA:HB1	1:61:A:VAL:HG21	10	0.87
(1,3677)	1:13:A:ALA:HB1	1:12:A:GLY:HA3	9	0.87
(1,3623)	1:140:A:ILE:HD11	1:95:A:PHE:HE1	10	0.87
(1,3623)	1:140:A:ILE:HD13	1:95:A:PHE:HE1	15	0.87
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD21	13	0.87
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD23	14	0.87
(1,3423)	1:10:A:THR:H	1:42:A:GLN:HB3	5	0.87
(1,3419)	1:31:A:LEU:HD11	1:172:A:PRO:HG3	1	0.87
(1,3381)	1:177:A:THR:HG23	1:179:A:PRO:HD3	17	0.87
(1,3372)	1:53:A:GLN:HB3	1:56:A:ALA:HB2	17	0.87
(1,3340)	1:120:A:VAL:HG21	1:117:A:LEU:HB3	17	0.87
(1,3319)	1:61:A:VAL:HG11	1:65:A:ASN:HB2	2	0.87
(1,3279)	1:178:A:GLY:HA2	1:177:A:THR:HB	18	0.87
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG21	19	0.87
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD12	15	0.87
(1,1017)	1:102:A:ALA:H	1:105:A:ILE:HD12	3	0.87
(1,1007)	1:140:A:ILE:H	1:137:A:GLN:HB3	3	0.87
(1,988)	1:23:A:ASN:H	1:21:A:VAL:HG11	16	0.87
(1,3913)	1:99:A:VAL:HG21	1:95:A:PHE:HD2	2	0.86
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB3	2	0.86
(1,3764)	1:111:A:ARG:HD2	1:112:A:VAL:HG23	5	0.86
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	3	0.86
(1,3697)	1:13:A:ALA:HB3	1:108:A:LEU:HB2	10	0.86
(1,3632)	1:44:A:ALA:HB3	1:43:A:ILE:HB	8	0.86
(1,3623)	1:140:A:ILE:HD11	1:95:A:PHE:HE1	6	0.86
(1,3607)	1:36:A:ARG:HE	1:116:A:LEU:HD12	7	0.86
(1,3592)	1:99:A:VAL:HG22	1:22:A:ALA:HB1	7	0.86
(1,3579)	1:43:A:ILE:HD11	1:77:A:LEU:HD11	6	0.86
(1,3553)	1:87:A:ALA:HB3	1:43:A:ILE:HA	8	0.86
(1,3413)	1:100:A:LEU:HD23	1:195:A:SER:HB2	11	0.86
(1,3352)	1:61:A:VAL:HG22	1:58:A:THR:HB	7	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3338)	1:112:A:VAL:HG23	1:111:A:ARG:HD2	5	0.86
(1,3320)	1:99:A:VAL:HG22	1:100:A:LEU:HD22	6	0.86
(1,3295)	1:39:A:VAL:HG22	1:43:A:ILE:HB	10	0.86
(1,3286)	1:48:A:VAL:HG22	1:47:A:VAL:HB	2	0.86
(1,3275)	1:55:A:LEU:HD23	1:121:A:SER:HB2	19	0.86
(1,3231)	1:34:A:VAL:HG21	1:139:A:ASP:HA	3	0.86
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG22	10	0.86
(1,2430)	1:43:A:ILE:HD13	1:77:A:LEU:HG	13	0.86
(1,1168)	1:22:A:ALA:H	1:99:A:VAL:HG12	14	0.86
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD12	18	0.86
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD23	3	0.86
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD21	18	0.86
(1,3906)	1:30:A:THR:HG21	1:95:A:PHE:HE1	4	0.85
(1,3820)	1:101:A:ASN:HB2	1:104:A:ASN:HB2	15	0.85
(1,3760)	1:85:A:ALA:HA	1:82:A:ASP:HB2	10	0.85
(1,3759)	1:161:A:ALA:HB1	1:175:A:PRO:HB3	7	0.85
(1,3750)	1:71:A:VAL:HG12	1:72:A:GLN:HB3	18	0.85
(1,3697)	1:13:A:ALA:HB1	1:108:A:LEU:HB2	18	0.85
(1,3677)	1:13:A:ALA:HB2	1:12:A:GLY:HA3	20	0.85
(1,3622)	1:122:A:SER:H	1:55:A:LEU:HD12	15	0.85
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB3	15	0.85
(1,3553)	1:87:A:ALA:HB1	1:43:A:ILE:HA	9	0.85
(1,3394)	1:48:A:VAL:HG12	1:41:A:GLN:HG2	13	0.85
(1,3372)	1:53:A:GLN:HB2	1:52:A:ALA:HB1	20	0.85
(1,3332)	1:52:A:ALA:HB2	1:66:A:LEU:HD12	11	0.85
(1,3320)	1:99:A:VAL:HG21	1:100:A:LEU:HD22	3	0.85
(1,1070)	1:52:A:ALA:H	1:129:A:ILE:HG12	13	0.85
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB3	20	0.85
(1,1054)	1:56:A:ALA:H	1:55:A:LEU:HD11	8	0.85
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD13	2	0.85
(1,1031)	1:170:A:THR:HA	1:169:A:TYR:H	18	0.85
(1,988)	1:23:A:ASN:H	1:31:A:LEU:HD11	10	0.85
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB2	17	0.84
(1,3759)	1:161:A:ALA:HB2	1:175:A:PRO:HB3	12	0.84
(1,3677)	1:13:A:ALA:HB2	1:12:A:GLY:HA3	2	0.84
(1,3672)	1:85:A:ALA:HA	1:88:A:GLN:HB2	16	0.84
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD23	19	0.84
(1,3469)	1:58:A:THR:HA	1:58:A:THR:HG21	17	0.84
(1,3381)	1:177:A:THR:HG23	1:179:A:PRO:HD3	9	0.84
(1,3372)	1:53:A:GLN:HB3	1:56:A:ALA:HB2	10	0.84
(1,3275)	1:55:A:LEU:HD22	1:121:A:SER:HB2	12	0.84
(1,3238)	1:129:A:ILE:HD12	1:128:A:GLY:HA2	11	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3231)	1:34:A:VAL:HG23	1:139:A:ASP:HA	18	0.84
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG21	4	0.84
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG22	18	0.84
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB2	16	0.84
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD12	15	0.84
(1,1007)	1:140:A:ILE:H	1:137:A:GLN:HB3	18	0.84
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD22	2	0.84
(1,3791)	1:44:A:ALA:HB1	1:74:A:VAL:HA	4	0.83
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG23	17	0.83
(1,3750)	1:71:A:VAL:HG11	1:72:A:GLN:HB2	20	0.83
(1,3734)	1:37:A:THR:HA	1:136:A:VAL:HB	10	0.83
(1,3734)	1:37:A:THR:HA	1:136:A:VAL:HB	13	0.83
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	18	0.83
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB3	14	0.83
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB3	1	0.83
(1,3381)	1:177:A:THR:HG21	1:179:A:PRO:HD3	13	0.83
(1,3372)	1:53:A:GLN:HB3	1:56:A:ALA:HB3	13	0.83
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB1	16	0.83
(1,3338)	1:112:A:VAL:HG23	1:111:A:ARG:HD3	17	0.83
(1,3334)	1:188:A:GLY:HA3	1:190:A:ALA:HA	19	0.83
(1,3332)	1:52:A:ALA:HB3	1:66:A:LEU:HD11	16	0.83
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD21	16	0.83
(1,3279)	1:178:A:GLY:HA2	1:177:A:THR:HB	15	0.83
(1,3231)	1:34:A:VAL:HG21	1:139:A:ASP:HA	4	0.83
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG23	6	0.83
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB2	2	0.83
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD13	1	0.83
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB2	9	0.83
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD21	7	0.83
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	2	0.83
(1,3906)	1:30:A:THR:HG22	1:95:A:PHE:HE1	7	0.82
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD21	1	0.82
(1,3736)	1:191:A:PRO:HB2	1:190:A:ALA:HB2	8	0.82
(1,3706)	1:88:A:GLN:HE22	1:35:A:LEU:HD21	2	0.82
(1,3657)	1:77:A:LEU:HD21	1:73:A:ALA:HA	14	0.82
(1,3652)	1:118:A:ASN:HD22	1:114:A:SER:HB2	12	0.82
(1,3606)	1:35:A:LEU:HD21	1:88:A:GLN:HE22	2	0.82
(1,3554)	1:13:A:ALA:HB3	1:104:A:ASN:HB2	8	0.82
(1,3553)	1:87:A:ALA:HB2	1:43:A:ILE:HA	20	0.82
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD13	8	0.82
(1,3473)	1:21:A:VAL:HG21	1:92:A:SER:HA	15	0.82
(1,3422)	1:35:A:LEU:HD13	1:86:A:TYR:HB3	9	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3404)	1:35:A:LEU:HB3	1:88:A:GLN:HG2	17	0.82
(1,3381)	1:177:A:THR:HG22	1:179:A:PRO:HD3	6	0.82
(1,3378)	1:42:A:GLN:HE21	1:115:A:ALA:HB2	6	0.82
(1,3340)	1:120:A:VAL:HG13	1:117:A:LEU:HB3	5	0.82
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD21	8	0.82
(1,3295)	1:39:A:VAL:HG21	1:43:A:ILE:HB	14	0.82
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG21	14	0.82
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG22	15	0.82
(1,2430)	1:43:A:ILE:HD12	1:77:A:LEU:HG	12	0.82
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	17	0.82
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD13	19	0.82
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	13	0.82
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD23	6	0.82
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB2	3	0.81
(1,3763)	1:41:A:GLN:HB2	1:45:A:SER:HB3	12	0.81
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	17	0.81
(1,3706)	1:88:A:GLN:HE21	1:35:A:LEU:HD22	14	0.81
(1,3677)	1:13:A:ALA:HB1	1:12:A:GLY:HA3	10	0.81
(1,3606)	1:35:A:LEU:HD22	1:88:A:GLN:HE21	14	0.81
(1,3592)	1:100:A:LEU:HD21	1:22:A:ALA:HB3	14	0.81
(1,3589)	1:117:A:LEU:HB3	1:105:A:ILE:HG13	20	0.81
(1,3422)	1:35:A:LEU:HD11	1:86:A:TYR:HB3	1	0.81
(1,3419)	1:18:A:ILE:HG13	1:172:A:PRO:HG3	19	0.81
(1,3415)	1:41:A:GLN:HA	1:42:A:GLN:HA	17	0.81
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	6	0.81
(1,3334)	1:188:A:GLY:HA2	1:190:A:ALA:HA	1	0.81
(1,3279)	1:178:A:GLY:HA2	1:177:A:THR:HB	12	0.81
(1,3251)	1:47:A:VAL:HB	1:73:A:ALA:HB1	7	0.81
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG23	16	0.81
(1,3220)	1:9:A:ALA:HB2	1:117:A:LEU:HD22	19	0.81
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB2	1	0.81
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB2	18	0.81
(1,1078)	1:56:A:ALA:H	1:53:A:GLN:HE21	5	0.81
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD13	7	0.81
(1,1045)	1:45:A:SER:H	1:48:A:VAL:HG13	3	0.81
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD11	18	0.81
(1,988)	1:23:A:ASN:H	1:21:A:VAL:HG12	14	0.81
(1,923)	1:182:A:TYR:H	1:185:A:PRO:HD2	16	0.81
(1,923)	1:182:A:TYR:H	1:185:A:PRO:HD3	16	0.81
(1,3913)	1:99:A:VAL:HG23	1:95:A:PHE:HD2	7	0.8
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD13	18	0.8
(1,3759)	1:161:A:ALA:HB2	1:175:A:PRO:HG2	5	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3750)	1:71:A:VAL:HG12	1:72:A:GLN:HB2	10	0.8
(1,3696)	1:129:A:ILE:HG23	1:50:A:ARG:HB3	13	0.8
(1,3599)	1:129:A:ILE:HG23	1:37:A:THR:HG22	19	0.8
(1,3579)	1:43:A:ILE:HD13	1:43:A:ILE:HG23	3	0.8
(1,3553)	1:87:A:ALA:HB3	1:43:A:ILE:HA	17	0.8
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD23	12	0.8
(1,3499)	1:55:A:LEU:HD12	1:49:A:GLN:HG2	6	0.8
(1,3490)	1:17:A:LEU:HD12	1:20:A:ARG:HB2	2	0.8
(1,3490)	1:17:A:LEU:HD11	1:20:A:ARG:HB2	14	0.8
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD12	14	0.8
(1,3378)	1:42:A:GLN:HE21	1:115:A:ALA:HB3	14	0.8
(1,3295)	1:39:A:VAL:HG22	1:43:A:ILE:HB	7	0.8
(1,3231)	1:34:A:VAL:HG22	1:139:A:ASP:HA	1	0.8
(1,3231)	1:34:A:VAL:HG23	1:139:A:ASP:HA	2	0.8
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG22	7	0.8
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG21	8	0.8
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD22	9	0.8
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	5	0.8
(1,962)	1:117:A:LEU:H	1:120:A:VAL:HG21	5	0.8
(1,3913)	1:99:A:VAL:HG21	1:95:A:PHE:HD2	3	0.79
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG22	18	0.79
(1,3750)	1:71:A:VAL:HG13	1:72:A:GLN:HB2	4	0.79
(1,3697)	1:13:A:ALA:HB2	1:108:A:LEU:HB3	15	0.79
(1,3654)	1:39:A:VAL:HG13	1:38:A:GLY:HA2	9	0.79
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB1	4	0.79
(1,3554)	1:13:A:ALA:HB1	1:104:A:ASN:HB2	16	0.79
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD23	6	0.79
(1,3459)	1:35:A:LEU:HD21	1:136:A:VAL:HG22	3	0.79
(1,3372)	1:53:A:GLN:HB2	1:52:A:ALA:HB1	2	0.79
(1,3372)	1:53:A:GLN:HB3	1:66:A:LEU:HB2	5	0.79
(1,3338)	1:112:A:VAL:HG22	1:111:A:ARG:HD3	18	0.79
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD22	5	0.79
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD23	13	0.79
(1,3320)	1:99:A:VAL:HG21	1:100:A:LEU:HD23	14	0.79
(1,3287)	1:122:A:SER:HB2	1:121:A:SER:HB2	17	0.79
(1,3286)	1:48:A:VAL:HG13	1:41:A:GLN:HB3	8	0.79
(1,1078)	1:56:A:ALA:H	1:50:A:ARG:HE	17	0.79
(1,1070)	1:67:A:ALA:H	1:71:A:VAL:HG23	10	0.79
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD23	14	0.79
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	16	0.79
(1,3849)	1:51:A:ALA:HB3	1:132:A:ASP:HB2	1	0.78
(1,3799)	1:131:A:VAL:HG12	1:135:A:SER:HB3	17	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3724)	1:117:A:LEU:HB3	1:105:A:ILE:HG22	12	0.78
(1,3707)	1:86:A:TYR:HB2	1:43:A:ILE:HG21	10	0.78
(1,3697)	1:13:A:ALA:HB1	1:108:A:LEU:HB3	13	0.78
(1,3677)	1:13:A:ALA:HB2	1:12:A:GLY:HA3	11	0.78
(1,3672)	1:85:A:ALA:HA	1:88:A:GLN:HB3	7	0.78
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD12	13	0.78
(1,3632)	1:44:A:ALA:HB1	1:48:A:VAL:HB	11	0.78
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG11	3	0.78
(1,3554)	1:13:A:ALA:HB2	1:104:A:ASN:HB2	15	0.78
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG23	4	0.78
(1,3490)	1:17:A:LEU:HD12	1:20:A:ARG:HB2	18	0.78
(1,3472)	1:78:A:PRO:HG2	1:77:A:LEU:HD23	2	0.78
(1,3437)	1:101:A:ASN:HB3	1:194:A:GLN:HG3	18	0.78
(1,3372)	1:53:A:GLN:HB2	1:52:A:ALA:HB2	6	0.78
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB3	12	0.78
(1,3348)	1:132:A:ASP:H	1:35:A:LEU:HD13	18	0.78
(1,3295)	1:39:A:VAL:HG21	1:43:A:ILE:HB	9	0.78
(1,3295)	1:39:A:VAL:HG23	1:36:A:ARG:HB3	18	0.78
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG21	9	0.78
(1,1096)	1:96:A:ASN:H	1:93:A:ALA:HB2	14	0.78
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD13	16	0.78
(1,1007)	1:140:A:ILE:H	1:137:A:GLN:HB3	16	0.78
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD22	1	0.78
(1,3906)	1:30:A:THR:HG21	1:95:A:PHE:HE1	5	0.77
(1,3854)	1:85:A:ALA:HB2	1:77:A:LEU:HD21	7	0.77
(1,3799)	1:131:A:VAL:HG11	1:51:A:ALA:HA	12	0.77
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD11	13	0.77
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	11	0.77
(1,3657)	1:77:A:LEU:HD12	1:73:A:ALA:HA	8	0.77
(1,3639)	1:156:A:TYR:HB3	1:157:A:SER:HB3	16	0.77
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD23	4	0.77
(1,3481)	1:39:A:VAL:HG12	1:49:A:GLN:HA	1	0.77
(1,3437)	1:101:A:ASN:HB2	1:194:A:GLN:HG2	11	0.77
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD21	20	0.77
(1,3376)	1:132:A:ASP:HB3	1:136:A:VAL:HG22	10	0.77
(1,3286)	1:48:A:VAL:HG22	1:47:A:VAL:HB	14	0.77
(1,3279)	1:178:A:GLY:HA3	1:177:A:THR:HB	14	0.77
(1,2430)	1:43:A:ILE:HD11	1:77:A:LEU:HG	19	0.77
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB2	7	0.77
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB3	5	0.77
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB3	10	0.77
(1,1045)	1:45:A:SER:H	1:48:A:VAL:HG12	12	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1025)	1:72:A:GLN:H	1:67:A:ALA:HA	7	0.77
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	6	0.77
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD13	12	0.76
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD12	19	0.76
(1,3759)	1:161:A:ALA:HB2	1:175:A:PRO:HB2	14	0.76
(1,3750)	1:71:A:VAL:HG11	1:72:A:GLN:HB2	13	0.76
(1,3697)	1:13:A:ALA:HB3	1:108:A:LEU:HB3	17	0.76
(1,3677)	1:13:A:ALA:HB1	1:12:A:GLY:HA2	17	0.76
(1,3652)	1:118:A:ASN:HD22	1:114:A:SER:HB2	5	0.76
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	3	0.76
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	13	0.76
(1,3499)	1:47:A:VAL:HG21	1:49:A:GLN:HG3	19	0.76
(1,3364)	1:108:A:LEU:HD11	1:105:A:ILE:HD13	4	0.76
(1,3364)	1:117:A:LEU:HD12	1:105:A:ILE:HD11	9	0.76
(1,3279)	1:178:A:GLY:HA3	1:177:A:THR:HB	5	0.76
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB3	13	0.76
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB2	14	0.76
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD11	1	0.76
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD13	9	0.76
(1,999)	1:134:A:GLY:HA3	1:132:A:ASP:H	3	0.76
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD22	8	0.76
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	13	0.76
(1,3913)	1:99:A:VAL:HG11	1:95:A:PHE:HD2	15	0.75
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB2	1	0.75
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD21	3	0.75
(1,3750)	1:71:A:VAL:HG11	1:72:A:GLN:HB2	2	0.75
(1,3750)	1:71:A:VAL:HG12	1:72:A:GLN:HB2	16	0.75
(1,3736)	1:191:A:PRO:HB3	1:190:A:ALA:HB3	18	0.75
(1,3735)	1:48:A:VAL:HG23	1:46:A:SER:H	5	0.75
(1,3697)	1:13:A:ALA:HB1	1:108:A:LEU:HB3	2	0.75
(1,3677)	1:13:A:ALA:HB2	1:12:A:GLY:HA2	13	0.75
(1,3665)	1:19:A:SER:HB3	1:18:A:ILE:HG21	6	0.75
(1,3660)	1:172:A:PRO:HG2	1:18:A:ILE:HG13	9	0.75
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD12	12	0.75
(1,3640)	1:172:A:PRO:HB2	1:173:A:SER:HB3	13	0.75
(1,3499)	1:47:A:VAL:HG13	1:49:A:GLN:HG3	17	0.75
(1,3422)	1:35:A:LEU:HD13	1:86:A:TYR:HB3	6	0.75
(1,3419)	1:18:A:ILE:HG13	1:172:A:PRO:HG2	9	0.75
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB1	14	0.75
(1,3292)	1:13:A:ALA:H	1:108:A:LEU:HG	2	0.75
(1,3287)	1:122:A:SER:HB2	1:121:A:SER:HB2	14	0.75
(1,3251)	1:47:A:VAL:HB	1:73:A:ALA:HB2	13	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG23	13	0.75
(1,1169)	1:42:A:GLN:HE21	1:42:A:GLN:HA	4	0.75
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG21	2	0.75
(1,1096)	1:96:A:ASN:H	1:93:A:ALA:HB1	4	0.75
(1,1070)	1:67:A:ALA:H	1:71:A:VAL:HG12	12	0.75
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD13	13	0.75
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD11	14	0.75
(1,1045)	1:45:A:SER:H	1:48:A:VAL:HG13	16	0.75
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD13	8	0.75
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD11	17	0.75
(1,975)	1:60:A:GLY:HA2	1:62:A:ASP:H	3	0.75
(1,3906)	1:30:A:THR:HG23	1:95:A:PHE:HE1	17	0.74
(1,3849)	1:51:A:ALA:HB2	1:132:A:ASP:HB3	18	0.74
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD11	16	0.74
(1,3763)	1:41:A:GLN:HB2	1:45:A:SER:HB3	4	0.74
(1,3735)	1:48:A:VAL:HG22	1:46:A:SER:H	7	0.74
(1,3724)	1:117:A:LEU:HB3	1:105:A:ILE:HG21	15	0.74
(1,3696)	1:129:A:ILE:HG23	1:50:A:ARG:HB3	17	0.74
(1,3687)	1:89:A:ALA:HB1	1:87:A:ALA:HB2	19	0.74
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD12	16	0.74
(1,3553)	1:87:A:ALA:HB1	1:43:A:ILE:HA	2	0.74
(1,3490)	1:17:A:LEU:HD13	1:20:A:ARG:HB2	3	0.74
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB2	18	0.74
(1,3454)	1:35:A:LEU:HD13	1:131:A:VAL:HG11	7	0.74
(1,3422)	1:35:A:LEU:HD12	1:86:A:TYR:HB3	12	0.74
(1,3334)	1:188:A:GLY:HA3	1:190:A:ALA:HA	16	0.74
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD23	3	0.74
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD22	4	0.74
(1,3295)	1:10:A:THR:HG23	1:42:A:GLN:HB2	16	0.74
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB1	20	0.74
(1,3231)	1:34:A:VAL:HG13	1:36:A:ARG:HA	6	0.74
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG21	1	0.74
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	6	0.74
(1,1145)	1:127:A:LEU:H	1:120:A:VAL:HG12	4	0.74
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG22	6	0.74
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB2	11	0.74
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD11	5	0.74
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD11	2	0.74
(1,815)	1:132:A:ASP:HB2	1:135:A:SER:H	19	0.74
(1,815)	1:132:A:ASP:HB3	1:135:A:SER:H	19	0.74
(1,3913)	1:99:A:VAL:HG23	1:95:A:PHE:HD2	20	0.73
(1,3696)	1:129:A:ILE:HG23	1:50:A:ARG:HB3	16	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3677)	1:13:A:ALA:HB2	1:12:A:GLY:HA3	15	0.73
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD12	3	0.73
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD13	4	0.73
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD11	18	0.73
(1,3587)	1:96:A:ASN:HB2	1:124:A:ALA:HB3	4	0.73
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB3	11	0.73
(1,3559)	1:156:A:TYR:HA	1:155:A:SER:HB2	16	0.73
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	10	0.73
(1,3407)	1:113:A:LEU:HB3	1:9:A:ALA:HB3	5	0.73
(1,3279)	1:178:A:GLY:HA2	1:177:A:THR:HB	13	0.73
(1,3231)	1:34:A:VAL:HG13	1:36:A:ARG:HA	12	0.73
(1,1976)	1:32:A:ARG:HG2	1:33:A:THR:HA	8	0.73
(1,1976)	1:32:A:ARG:HG3	1:33:A:THR:HA	8	0.73
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG23	14	0.73
(1,3910)	1:85:A:ALA:HA	1:86:A:TYR:HD1	10	0.72
(1,3849)	1:51:A:ALA:HB1	1:132:A:ASP:HB2	20	0.72
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD23	2	0.72
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD11	5	0.72
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD21	11	0.72
(1,3763)	1:41:A:GLN:HB2	1:45:A:SER:HB3	16	0.72
(1,3758)	1:120:A:VAL:HG23	1:124:A:ALA:HB3	13	0.72
(1,3734)	1:37:A:THR:HA	1:136:A:VAL:HB	12	0.72
(1,3696)	1:129:A:ILE:HG23	1:50:A:ARG:HB3	7	0.72
(1,3672)	1:32:A:ARG:HA	1:88:A:GLN:HB3	20	0.72
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD11	10	0.72
(1,3644)	1:113:A:LEU:HD22	1:17:A:LEU:HD13	5	0.72
(1,3592)	1:99:A:VAL:HG23	1:22:A:ALA:HB3	1	0.72
(1,3580)	1:101:A:ASN:HB2	1:102:A:ALA:HB1	18	0.72
(1,3553)	1:87:A:ALA:HB3	1:43:A:ILE:HA	18	0.72
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD22	18	0.72
(1,3472)	1:117:A:LEU:HB2	1:113:A:LEU:HD22	14	0.72
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD13	14	0.72
(1,3372)	1:53:A:GLN:HB3	1:66:A:LEU:HB2	8	0.72
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	14	0.72
(1,3340)	1:120:A:VAL:HG13	1:117:A:LEU:HB3	2	0.72
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG11	16	0.72
(1,3320)	1:99:A:VAL:HG23	1:100:A:LEU:HD23	5	0.72
(1,3319)	1:61:A:VAL:HG23	1:65:A:ASN:HB2	17	0.72
(1,3292)	1:13:A:ALA:H	1:108:A:LEU:HG	10	0.72
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB1	3	0.72
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD11	9	0.72
(1,1070)	1:67:A:ALA:H	1:70:A:ALA:HB2	2	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1049)	1:42:A:GLN:H	1:9:A:ALA:HB3	17	0.72
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD11	18	0.72
(1,1013)	1:128:A:GLY:H	1:123:A:ALA:HB3	13	0.72
(1,3906)	1:30:A:THR:HG22	1:95:A:PHE:HE1	19	0.71
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB3	13	0.71
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB2	14	0.71
(1,3790)	1:99:A:VAL:HG11	1:194:A:GLN:HA	7	0.71
(1,3753)	1:15:A:ALA:HB2	1:18:A:ILE:HG22	1	0.71
(1,3750)	1:71:A:VAL:HG11	1:72:A:GLN:HB2	7	0.71
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	20	0.71
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB3	7	0.71
(1,3679)	1:70:A:ALA:HB2	1:61:A:VAL:HG13	5	0.71
(1,3677)	1:13:A:ALA:HB3	1:12:A:GLY:HA3	3	0.71
(1,3677)	1:13:A:ALA:HB2	1:12:A:GLY:HA3	14	0.71
(1,3639)	1:156:A:TYR:HB3	1:155:A:SER:HB3	10	0.71
(1,3582)	1:17:A:LEU:HD22	1:191:A:PRO:HB2	9	0.71
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD11	13	0.71
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	6	0.71
(1,3490)	1:17:A:LEU:HD11	1:20:A:ARG:HB2	10	0.71
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD23	8	0.71
(1,3422)	1:35:A:LEU:HD11	1:86:A:TYR:HB3	18	0.71
(1,3421)	1:193:A:GLY:HA3	1:191:A:PRO:HD2	20	0.71
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA2	9	0.71
(1,3372)	1:53:A:GLN:HB3	1:56:A:ALA:HB3	1	0.71
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	9	0.71
(1,3334)	1:188:A:GLY:HA3	1:190:A:ALA:HA	6	0.71
(1,3334)	1:188:A:GLY:HA3	1:190:A:ALA:HA	13	0.71
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB1	13	0.71
(1,3279)	1:178:A:GLY:HA3	1:177:A:THR:HB	20	0.71
(1,3232)	1:96:A:ASN:HB3	1:105:A:ILE:HD11	13	0.71
(1,3231)	1:34:A:VAL:HG12	1:36:A:ARG:HA	13	0.71
(1,3220)	1:9:A:ALA:HB1	1:117:A:LEU:HD22	8	0.71
(1,1803)	1:177:A:THR:H	1:179:A:PRO:HA	12	0.71
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG13	6	0.71
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG23	8	0.71
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB2	6	0.71
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB1	15	0.71
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	1	0.71
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	2	0.71
(1,1007)	1:140:A:ILE:H	1:137:A:GLN:HB3	4	0.71
(1,3849)	1:51:A:ALA:HB2	1:132:A:ASP:HB2	4	0.7
(1,3818)	1:87:A:ALA:HB1	1:86:A:TYR:HA	10	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3793)	1:48:A:VAL:HG22	1:65:A:ASN:HD21	16	0.7
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD21	9	0.7
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD12	20	0.7
(1,3677)	1:13:A:ALA:HB1	1:12:A:GLY:HA3	16	0.7
(1,3672)	1:85:A:ALA:HA	1:88:A:GLN:HB3	8	0.7
(1,3660)	1:185:A:PRO:HG2	1:186:A:LEU:HD21	7	0.7
(1,3657)	1:77:A:LEU:HD23	1:73:A:ALA:HA	1	0.7
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD13	7	0.7
(1,3623)	1:140:A:ILE:HD11	1:95:A:PHE:HE1	16	0.7
(1,3572)	1:85:A:ALA:HB3	1:80:A:GLY:HA3	20	0.7
(1,3553)	1:87:A:ALA:HB2	1:43:A:ILE:HA	4	0.7
(1,3437)	1:101:A:ASN:HB2	1:194:A:GLN:HG3	3	0.7
(1,3427)	1:113:A:LEU:HD13	1:94:A:LEU:HD21	5	0.7
(1,3423)	1:9:A:ALA:H	1:42:A:GLN:HB3	10	0.7
(1,3409)	1:88:A:GLN:HB2	1:84:A:SER:HA	10	0.7
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB1	14	0.7
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB3	17	0.7
(1,3279)	1:178:A:GLY:HA3	1:177:A:THR:HB	11	0.7
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG22	17	0.7
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	18	0.7
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG22	2	0.7
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG21	7	0.7
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB2	20	0.7
(1,1095)	1:193:A:GLY:H	1:194:A:GLN:HA	13	0.7
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD13	10	0.7
(1,1070)	1:67:A:ALA:H	1:71:A:VAL:HG21	11	0.7
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD12	13	0.7
(1,1031)	1:170:A:THR:HA	1:169:A:TYR:H	4	0.7
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	7	0.7
(1,988)	1:23:A:ASN:H	1:31:A:LEU:HD11	5	0.7
(1,3863)	1:129:A:ILE:HG12	1:55:A:LEU:HD22	20	0.69
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD11	4	0.69
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD21	14	0.69
(1,3696)	1:129:A:ILE:HG22	1:50:A:ARG:HB2	12	0.69
(1,3623)	1:140:A:ILE:HD11	1:95:A:PHE:HE1	7	0.69
(1,3554)	1:13:A:ALA:HB3	1:104:A:ASN:HB2	3	0.69
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	18	0.69
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB1	18	0.69
(1,3334)	1:188:A:GLY:HA3	1:190:A:ALA:HA	17	0.69
(1,3295)	1:10:A:THR:HG21	1:42:A:GLN:HB3	8	0.69
(1,3292)	1:112:A:VAL:H	1:108:A:LEU:HG	4	0.69
(1,3288)	1:65:A:ASN:HA	1:67:A:ALA:HB1	2	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB2	4	0.69
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB2	8	0.69
(1,3238)	1:129:A:ILE:HD11	1:128:A:GLY:HA2	16	0.69
(1,3231)	1:34:A:VAL:HG23	1:139:A:ASP:HA	16	0.69
(1,3214)	1:14:A:SER:HB3	1:18:A:ILE:HD13	6	0.69
(1,1148)	1:134:A:GLY:H	1:67:A:ALA:HA	10	0.69
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG23	7	0.69
(1,1096)	1:96:A:ASN:H	1:93:A:ALA:HB3	11	0.69
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD13	5	0.69
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB2	5	0.69
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD12	7	0.69
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	19	0.69
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD11	17	0.68
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG22	14	0.68
(1,3760)	1:85:A:ALA:HA	1:86:A:TYR:HB2	7	0.68
(1,3696)	1:129:A:ILE:HG23	1:50:A:ARG:HB3	1	0.68
(1,3696)	1:129:A:ILE:HG21	1:50:A:ARG:HB3	8	0.68
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD11	2	0.68
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD12	5	0.68
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD13	8	0.68
(1,3639)	1:156:A:TYR:HB3	1:157:A:SER:HB2	8	0.68
(1,3554)	1:13:A:ALA:HB3	1:104:A:ASN:HB2	17	0.68
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD13	1	0.68
(1,3490)	1:17:A:LEU:HD12	1:20:A:ARG:HB2	5	0.68
(1,3422)	1:35:A:LEU:HD11	1:86:A:TYR:HB3	15	0.68
(1,3413)	1:100:A:LEU:HD21	1:195:A:SER:HB3	13	0.68
(1,3394)	1:48:A:VAL:HG12	1:41:A:GLN:HG2	12	0.68
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	4	0.68
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	8	0.68
(1,3287)	1:122:A:SER:HB2	1:121:A:SER:HB3	9	0.68
(1,3279)	1:178:A:GLY:HA3	1:177:A:THR:HB	1	0.68
(1,3279)	1:174:A:GLY:HA3	1:177:A:THR:HB	2	0.68
(1,3279)	1:178:A:GLY:HA3	1:177:A:THR:HB	9	0.68
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG22	12	0.68
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG23	15	0.68
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG21	18	0.68
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD13	13	0.68
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB2	1	0.68
(1,1013)	1:128:A:GLY:H	1:129:A:ILE:HB	19	0.68
(1,974)	1:26:A:ALA:H	1:31:A:LEU:HD23	17	0.68
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB3	2	0.67
(1,3790)	1:99:A:VAL:HG13	1:194:A:GLN:HA	19	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3781)	1:21:A:VAL:HG21	1:20:A:ARG:HG3	20	0.67
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG22	14	0.67
(1,3760)	1:85:A:ALA:HA	1:86:A:TYR:HB2	8	0.67
(1,3750)	1:71:A:VAL:HG12	1:72:A:GLN:HB2	3	0.67
(1,3724)	1:117:A:LEU:HB3	1:105:A:ILE:HG22	19	0.67
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	2	0.67
(1,3696)	1:129:A:ILE:HG21	1:50:A:ARG:HB3	19	0.67
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG23	11	0.67
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG13	20	0.67
(1,3599)	1:129:A:ILE:HG22	1:39:A:VAL:HG13	9	0.67
(1,3579)	1:43:A:ILE:HD13	1:77:A:LEU:HD12	2	0.67
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB2	14	0.67
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG22	18	0.67
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD11	14	0.67
(1,3481)	1:39:A:VAL:HG12	1:49:A:GLN:HA	10	0.67
(1,3481)	1:39:A:VAL:HG11	1:49:A:GLN:HA	17	0.67
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB2	9	0.67
(1,3472)	1:78:A:PRO:HG2	1:77:A:LEU:HD11	5	0.67
(1,3464)	1:126:A:GLY:HA2	1:125:A:GLN:HA	10	0.67
(1,3338)	1:112:A:VAL:HG22	1:111:A:ARG:HD3	14	0.67
(1,3334)	1:188:A:GLY:HA2	1:190:A:ALA:HA	15	0.67
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD22	7	0.67
(1,3325)	1:126:A:GLY:H	1:127:A:LEU:HD23	10	0.67
(1,3295)	1:39:A:VAL:HG22	1:36:A:ARG:HB3	1	0.67
(1,3279)	1:178:A:GLY:HA2	1:177:A:THR:HB	19	0.67
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG22	5	0.67
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG21	12	0.67
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG23	13	0.67
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB2	7	0.67
(1,1096)	1:96:A:ASN:H	1:124:A:ALA:HB2	18	0.67
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD11	15	0.67
(1,988)	1:23:A:ASN:H	1:21:A:VAL:HG13	9	0.67
(1,975)	1:60:A:GLY:HA2	1:62:A:ASP:H	20	0.67
(1,3799)	1:131:A:VAL:HG12	1:51:A:ALA:HA	5	0.66
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG22	10	0.66
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG21	16	0.66
(1,3750)	1:71:A:VAL:HG12	1:72:A:GLN:HB3	17	0.66
(1,3735)	1:48:A:VAL:HG21	1:46:A:SER:H	20	0.66
(1,3657)	1:77:A:LEU:HD22	1:73:A:ALA:HA	5	0.66
(1,3652)	1:118:A:ASN:HD22	1:114:A:SER:HB2	17	0.66
(1,3587)	1:96:A:ASN:HB3	1:124:A:ALA:HB2	11	0.66
(1,3472)	1:117:A:LEU:HB2	1:113:A:LEU:HD21	10	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3437)	1:101:A:ASN:HB2	1:194:A:GLN:HG3	13	0.66
(1,3368)	1:69:A:PHE:H	1:70:A:ALA:HB2	4	0.66
(1,3338)	1:112:A:VAL:HG22	1:111:A:ARG:HD3	10	0.66
(1,3338)	1:112:A:VAL:HG21	1:111:A:ARG:HD3	16	0.66
(1,3334)	1:188:A:GLY:HA2	1:190:A:ALA:HA	8	0.66
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB1	12	0.66
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG22	3	0.66
(1,1114)	1:69:A:PHE:H	1:70:A:ALA:HB2	4	0.66
(1,1096)	1:96:A:ASN:H	1:124:A:ALA:HB2	2	0.66
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD11	16	0.66
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB3	16	0.66
(1,988)	1:23:A:ASN:H	1:21:A:VAL:HG12	12	0.66
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	14	0.66
(1,3863)	1:129:A:ILE:HG12	1:127:A:LEU:HD12	4	0.65
(1,3863)	1:129:A:ILE:HG13	1:55:A:LEU:HD11	9	0.65
(1,3863)	1:129:A:ILE:HG12	1:55:A:LEU:HD11	11	0.65
(1,3781)	1:21:A:VAL:HG23	1:20:A:ARG:HG3	7	0.65
(1,3781)	1:21:A:VAL:HG22	1:20:A:ARG:HG3	17	0.65
(1,3759)	1:161:A:ALA:HB2	1:175:A:PRO:HB3	13	0.65
(1,3748)	1:36:A:ARG:HD2	1:91:A:SER:HB2	3	0.65
(1,3696)	1:129:A:ILE:HG22	1:50:A:ARG:HB3	6	0.65
(1,3660)	1:185:A:PRO:HG2	1:186:A:LEU:HD13	6	0.65
(1,3472)	1:117:A:LEU:HB2	1:113:A:LEU:HD22	9	0.65
(1,3464)	1:126:A:GLY:HA2	1:125:A:GLN:HA	4	0.65
(1,3464)	1:134:A:GLY:HA2	1:133:A:SER:HA	16	0.65
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD13	13	0.65
(1,3422)	1:35:A:LEU:HD23	1:132:A:ASP:HB3	3	0.65
(1,3422)	1:35:A:LEU:HD11	1:86:A:TYR:HB3	8	0.65
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA3	17	0.65
(1,3376)	1:132:A:ASP:HB3	1:136:A:VAL:HG22	12	0.65
(1,3376)	1:130:A:ASN:HB3	1:136:A:VAL:HG12	20	0.65
(1,3364)	1:117:A:LEU:HD11	1:105:A:ILE:HD12	5	0.65
(1,3287)	1:122:A:SER:HB2	1:121:A:SER:HB2	12	0.65
(1,3279)	1:178:A:GLY:HA3	1:177:A:THR:HB	10	0.65
(1,1148)	1:134:A:GLY:H	1:67:A:ALA:HA	6	0.65
(1,1130)	1:186:A:LEU:H	1:187:A:GLY:HA3	11	0.65
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB1	17	0.65
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD12	20	0.65
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	11	0.65
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	15	0.65
(1,1007)	1:140:A:ILE:H	1:137:A:GLN:HB3	20	0.65
(1,962)	1:117:A:LEU:H	1:120:A:VAL:HG21	8	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD11	7	0.64
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG23	3	0.64
(1,3724)	1:117:A:LEU:HB3	1:105:A:ILE:HG23	20	0.64
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG11	2	0.64
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG11	14	0.64
(1,3679)	1:70:A:ALA:HB2	1:61:A:VAL:HG13	19	0.64
(1,3677)	1:13:A:ALA:HB1	1:12:A:GLY:HA3	19	0.64
(1,3647)	1:35:A:LEU:HG	1:131:A:VAL:HG22	8	0.64
(1,3640)	1:172:A:PRO:HB2	1:173:A:SER:HB2	17	0.64
(1,3622)	1:122:A:SER:H	1:55:A:LEU:HD21	6	0.64
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB2	12	0.64
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB1	15	0.64
(1,3421)	1:193:A:GLY:HA3	1:191:A:PRO:HD2	11	0.64
(1,3407)	1:113:A:LEU:HB3	1:9:A:ALA:HB1	12	0.64
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA3	15	0.64
(1,3338)	1:112:A:VAL:HG23	1:111:A:ARG:HD3	3	0.64
(1,3295)	1:39:A:VAL:HG23	1:36:A:ARG:HB3	4	0.64
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB2	3	0.64
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB2	18	0.64
(1,3286)	1:48:A:VAL:HG12	1:41:A:GLN:HB3	12	0.64
(1,2430)	1:43:A:ILE:HD13	1:77:A:LEU:HG	5	0.64
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG23	10	0.64
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG23	18	0.64
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG21	16	0.64
(1,1095)	1:193:A:GLY:H	1:194:A:GLN:HA	7	0.64
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB3	2	0.64
(1,1007)	1:140:A:ILE:H	1:137:A:GLN:HB3	6	0.64
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	8	0.64
(1,975)	1:60:A:GLY:HA2	1:62:A:ASP:H	6	0.64
(1,3913)	1:99:A:VAL:HG11	1:95:A:PHE:HD2	4	0.63
(1,3910)	1:39:A:VAL:HA	1:86:A:TYR:HD2	20	0.63
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB2	9	0.63
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB1	8	0.63
(1,3770)	1:10:A:THR:H	1:10:A:THR:HG21	1	0.63
(1,3652)	1:118:A:ASN:HD22	1:114:A:SER:HB2	2	0.63
(1,3648)	1:25:A:LEU:H	1:25:A:LEU:HD13	15	0.63
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB3	18	0.63
(1,3572)	1:85:A:ALA:HB3	1:80:A:GLY:HA3	16	0.63
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	7	0.63
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA3	4	0.63
(1,3364)	1:117:A:LEU:HD13	1:105:A:ILE:HD11	7	0.63
(1,3344)	1:93:A:ALA:HB1	1:21:A:VAL:HG21	17	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3342)	1:55:A:LEU:HD23	1:123:A:ALA:HB2	19	0.63
(1,3336)	1:137:A:GLN:HG2	1:136:A:VAL:HB	4	0.63
(1,3287)	1:122:A:SER:HB2	1:121:A:SER:HB3	11	0.63
(1,3287)	1:122:A:SER:HB3	1:121:A:SER:HB2	18	0.63
(1,3279)	1:178:A:GLY:HA2	1:177:A:THR:HB	7	0.63
(1,3278)	1:108:A:LEU:H	1:105:A:ILE:HD13	18	0.63
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG22	3	0.63
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG21	6	0.63
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG22	20	0.63
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD11	2	0.63
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD13	18	0.63
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD13	12	0.63
(1,1013)	1:128:A:GLY:H	1:129:A:ILE:HB	7	0.63
(1,999)	1:134:A:GLY:HA3	1:132:A:ASP:H	4	0.63
(1,3836)	1:71:A:VAL:HG13	1:66:A:LEU:HA	19	0.62
(1,3766)	1:129:A:ILE:HG13	1:120:A:VAL:HG21	10	0.62
(1,3750)	1:71:A:VAL:HG11	1:72:A:GLN:HB2	9	0.62
(1,3734)	1:131:A:VAL:HA	1:136:A:VAL:HB	5	0.62
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	15	0.62
(1,3665)	1:19:A:SER:HB3	1:18:A:ILE:HG23	16	0.62
(1,3655)	1:87:A:ALA:HB3	1:35:A:LEU:HA	19	0.62
(1,3654)	1:39:A:VAL:HG11	1:38:A:GLY:HA2	19	0.62
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB2	6	0.62
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	14	0.62
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA2	3	0.62
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB1	7	0.62
(1,1148)	1:134:A:GLY:H	1:135:A:SER:HB3	17	0.62
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG23	19	0.62
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB3	6	0.62
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD11	7	0.62
(1,1025)	1:72:A:GLN:H	1:67:A:ALA:HA	5	0.62
(1,1008)	1:40:A:SER:H	1:42:A:GLN:HB2	4	0.62
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	10	0.62
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	11	0.62
(1,3836)	1:71:A:VAL:HG12	1:66:A:LEU:HA	15	0.61
(1,3759)	1:161:A:ALA:HB2	1:175:A:PRO:HB2	3	0.61
(1,3759)	1:161:A:ALA:HB1	1:175:A:PRO:HB2	9	0.61
(1,3750)	1:71:A:VAL:HG13	1:72:A:GLN:HB2	1	0.61
(1,3639)	1:156:A:TYR:HB2	1:155:A:SER:HB2	1	0.61
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB2	16	0.61
(1,3554)	1:13:A:ALA:HB1	1:104:A:ASN:HB2	13	0.61
(1,3455)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	18	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD13	8	0.61
(1,3419)	1:31:A:LEU:HD13	1:172:A:PRO:HG2	20	0.61
(1,3381)	1:177:A:THR:HG21	1:179:A:PRO:HD3	10	0.61
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB2	10	0.61
(1,3295)	1:10:A:THR:HG22	1:42:A:GLN:HB2	13	0.61
(1,3295)	1:39:A:VAL:HG23	1:43:A:ILE:HB	20	0.61
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB1	5	0.61
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB1	9	0.61
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB1	11	0.61
(1,3285)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	18	0.61
(1,3238)	1:129:A:ILE:HD11	1:128:A:GLY:HA2	6	0.61
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG23	20	0.61
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG23	4	0.61
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG22	15	0.61
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG21	4	0.61
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG23	17	0.61
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD11	10	0.61
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB2	12	0.61
(1,1031)	1:167:A:ALA:HA	1:169:A:TYR:H	9	0.61
(1,3790)	1:99:A:VAL:HG12	1:194:A:GLN:HA	3	0.6
(1,3781)	1:21:A:VAL:HG23	1:20:A:ARG:HG3	3	0.6
(1,3766)	1:129:A:ILE:HG13	1:120:A:VAL:HG13	6	0.6
(1,3766)	1:129:A:ILE:HG12	1:120:A:VAL:HG11	15	0.6
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG21	4	0.6
(1,3724)	1:117:A:LEU:HB3	1:105:A:ILE:HG22	8	0.6
(1,3696)	1:129:A:ILE:HG21	1:50:A:ARG:HB3	5	0.6
(1,3677)	1:13:A:ALA:HB2	1:12:A:GLY:HA3	6	0.6
(1,3592)	1:99:A:VAL:HG13	1:22:A:ALA:HB2	18	0.6
(1,3587)	1:131:A:VAL:HB	1:51:A:ALA:HB1	2	0.6
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	20	0.6
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD11	15	0.6
(1,3372)	1:53:A:GLN:HB2	1:52:A:ALA:HB2	9	0.6
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB1	6	0.6
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	1	0.6
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	15	0.6
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG22	1	0.6
(1,3338)	1:112:A:VAL:HG21	1:111:A:ARG:HD3	4	0.6
(1,3334)	1:188:A:GLY:HA3	1:190:A:ALA:HA	7	0.6
(1,3332)	1:52:A:ALA:HB2	1:129:A:ILE:HD13	3	0.6
(1,3295)	1:39:A:VAL:HG23	1:36:A:ARG:HB3	12	0.6
(1,3292)	1:13:A:ALA:H	1:108:A:LEU:HG	18	0.6
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB2	16	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3238)	1:129:A:ILE:HD12	1:128:A:GLY:HA2	1	0.6
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD12	10	0.6
(1,3220)	1:9:A:ALA:HB1	1:117:A:LEU:HD21	1	0.6
(1,3220)	1:9:A:ALA:HB3	1:117:A:LEU:HD22	11	0.6
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG21	3	0.6
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB2	4	0.6
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG21	9	0.6
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG23	10	0.6
(1,1096)	1:96:A:ASN:H	1:93:A:ALA:HB2	17	0.6
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD13	8	0.6
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD13	4	0.6
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD11	8	0.6
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB1	3	0.6
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB3	16	0.6
(1,3734)	1:20:A:ARG:HA	1:191:A:PRO:HB2	15	0.59
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB2	16	0.59
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG11	16	0.59
(1,3623)	1:140:A:ILE:HD11	1:95:A:PHE:HE1	8	0.59
(1,3599)	1:129:A:ILE:HG22	1:37:A:THR:HG23	18	0.59
(1,3464)	1:126:A:GLY:HA3	1:123:A:ALA:HA	20	0.59
(1,3455)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	2	0.59
(1,3455)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	17	0.59
(1,3416)	1:37:A:THR:HG23	1:129:A:ILE:HD11	8	0.59
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	12	0.59
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD12	1	0.59
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB3	1	0.59
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB3	7	0.59
(1,3287)	1:122:A:SER:HB2	1:121:A:SER:HB2	15	0.59
(1,3285)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	2	0.59
(1,3285)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	17	0.59
(1,3251)	1:71:A:VAL:HB	1:51:A:ALA:HB2	14	0.59
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG22	15	0.59
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG23	4	0.59
(1,1096)	1:96:A:ASN:H	1:93:A:ALA:HB2	5	0.59
(1,1096)	1:96:A:ASN:H	1:124:A:ALA:HB3	15	0.59
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD13	20	0.59
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD13	9	0.59
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB2	8	0.59
(1,1024)	1:101:A:ASN:H	1:21:A:VAL:HG11	2	0.59
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	20	0.59
(1,3836)	1:71:A:VAL:HG12	1:66:A:LEU:HA	5	0.58
(1,3836)	1:71:A:VAL:HG13	1:66:A:LEU:HA	14	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3798)	1:161:A:ALA:HA	1:162:A:SER:HA	3	0.58
(1,3689)	1:97:A:ALA:HB2	1:100:A:LEU:HD23	8	0.58
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD13	16	0.58
(1,3640)	1:172:A:PRO:HB2	1:173:A:SER:HB2	16	0.58
(1,3599)	1:129:A:ILE:HG22	1:39:A:VAL:HG11	15	0.58
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD21	16	0.58
(1,3460)	1:85:A:ALA:HB3	1:84:A:SER:HA	10	0.58
(1,3422)	1:35:A:LEU:HD13	1:86:A:TYR:HB3	13	0.58
(1,3407)	1:113:A:LEU:HB3	1:9:A:ALA:HB1	13	0.58
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA2	10	0.58
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB2	19	0.58
(1,3279)	1:178:A:GLY:HA3	1:177:A:THR:HB	4	0.58
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG21	20	0.58
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG21	16	0.58
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	2	0.58
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG23	1	0.58
(1,1136)	1:138:A:SER:H	1:136:A:VAL:HG13	3	0.58
(1,1070)	1:52:A:ALA:H	1:129:A:ILE:HG13	15	0.58
(1,1066)	1:174:A:GLY:H	1:171:A:GLY:HA2	15	0.58
(1,1065)	1:50:A:ARG:HB2	1:50:A:ARG:HE	20	0.58
(1,989)	1:110:A:SER:H	1:108:A:LEU:HG	10	0.58
(1,989)	1:110:A:SER:H	1:117:A:LEU:HG	16	0.58
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	7	0.58
(1,920)	1:149:A:THR:HB	1:180:A:SER:H	20	0.58
(1,3849)	1:51:A:ALA:HB2	1:132:A:ASP:HB2	13	0.57
(1,3798)	1:154:A:ALA:HA	1:153:A:SER:HA	20	0.57
(1,3734)	1:20:A:ARG:HA	1:191:A:PRO:HB3	6	0.57
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB2	11	0.57
(1,3652)	1:118:A:ASN:HD21	1:114:A:SER:HB3	6	0.57
(1,3599)	1:129:A:ILE:HG22	1:37:A:THR:HG21	7	0.57
(1,3592)	1:99:A:VAL:HG23	1:22:A:ALA:HB3	8	0.57
(1,3472)	1:117:A:LEU:HB2	1:113:A:LEU:HD22	1	0.57
(1,3464)	1:126:A:GLY:HA3	1:123:A:ALA:HA	13	0.57
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	5	0.57
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD12	8	0.57
(1,3381)	1:177:A:THR:HG22	1:179:A:PRO:HD3	8	0.57
(1,3352)	1:61:A:VAL:HG23	1:58:A:THR:HB	10	0.57
(1,3238)	1:129:A:ILE:HD13	1:128:A:GLY:HA2	13	0.57
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	20	0.57
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG23	4	0.57
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG11	3	0.57
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG21	20	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,999)	1:134:A:GLY:HA3	1:132:A:ASP:H	15	0.57
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB2	12	0.56
(1,3863)	1:129:A:ILE:HG13	1:55:A:LEU:HD22	17	0.56
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB2	6	0.56
(1,3799)	1:131:A:VAL:HG13	1:51:A:ALA:HA	9	0.56
(1,3791)	1:44:A:ALA:HB2	1:74:A:VAL:HA	5	0.56
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD12	10	0.56
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	4	0.56
(1,3697)	1:13:A:ALA:HB2	1:108:A:LEU:HB3	6	0.56
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB1	1	0.56
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB3	10	0.56
(1,3683)	1:51:A:ALA:HB1	1:50:A:ARG:HA	7	0.56
(1,3683)	1:51:A:ALA:HB2	1:50:A:ARG:HA	10	0.56
(1,3513)	1:51:A:ALA:HB1	1:71:A:VAL:HA	8	0.56
(1,3472)	1:117:A:LEU:HB2	1:113:A:LEU:HD22	18	0.56
(1,3455)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	12	0.56
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD13	11	0.56
(1,3348)	1:140:A:ILE:H	1:35:A:LEU:HD21	14	0.56
(1,3285)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	12	0.56
(1,3220)	1:9:A:ALA:HB1	1:117:A:LEU:HD23	18	0.56
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG21	20	0.56
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB2	13	0.56
(1,1157)	1:121:A:SER:H	1:123:A:ALA:HB3	14	0.56
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG22	17	0.56
(1,1096)	1:96:A:ASN:H	1:124:A:ALA:HB1	7	0.56
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB3	10	0.56
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD12	12	0.56
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD11	1	0.56
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD13	11	0.56
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD11	19	0.56
(1,1025)	1:72:A:GLN:H	1:67:A:ALA:HA	20	0.56
(1,1007)	1:140:A:ILE:H	1:137:A:GLN:HB3	17	0.56
(1,989)	1:110:A:SER:H	1:108:A:LEU:HG	17	0.56
(1,923)	1:182:A:TYR:H	1:185:A:PRO:HD2	6	0.56
(1,923)	1:182:A:TYR:H	1:185:A:PRO:HD3	6	0.56
(1,3863)	1:129:A:ILE:HG12	1:127:A:LEU:HD11	10	0.55
(1,3799)	1:131:A:VAL:HG11	1:51:A:ALA:HA	4	0.55
(1,3799)	1:131:A:VAL:HG12	1:51:A:ALA:HA	10	0.55
(1,3736)	1:191:A:PRO:HB2	1:190:A:ALA:HB2	12	0.55
(1,3734)	1:20:A:ARG:HA	1:191:A:PRO:HB3	14	0.55
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	9	0.55
(1,3706)	1:88:A:GLN:HE21	1:35:A:LEU:HD22	15	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3668)	1:105:A:ILE:HA	1:100:A:LEU:HD12	17	0.55
(1,3606)	1:35:A:LEU:HD22	1:88:A:GLN:HE21	15	0.55
(1,3587)	1:96:A:ASN:HB2	1:124:A:ALA:HB1	7	0.55
(1,3580)	1:101:A:ASN:HB2	1:102:A:ALA:HB3	10	0.55
(1,3559)	1:156:A:TYR:HA	1:155:A:SER:HB2	14	0.55
(1,3537)	1:39:A:VAL:H	1:129:A:ILE:HG22	10	0.55
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	16	0.55
(1,3372)	1:53:A:GLN:HB2	1:52:A:ALA:HB3	4	0.55
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	2	0.55
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB1	1	0.55
(1,3238)	1:129:A:ILE:HD11	1:128:A:GLY:HA2	18	0.55
(1,3173)	1:177:A:THR:HG21	1:190:A:ALA:HA	17	0.55
(1,3173)	1:177:A:THR:HG22	1:190:A:ALA:HA	17	0.55
(1,3173)	1:177:A:THR:HG23	1:190:A:ALA:HA	17	0.55
(1,1157)	1:121:A:SER:H	1:124:A:ALA:HB1	17	0.55
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG21	11	0.55
(1,1136)	1:19:A:SER:H	1:18:A:ILE:HG23	11	0.55
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB2	18	0.55
(1,1024)	1:101:A:ASN:H	1:21:A:VAL:HG21	8	0.55
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB2	1	0.54
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB1	18	0.54
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB3	20	0.54
(1,3799)	1:131:A:VAL:HG13	1:51:A:ALA:HA	18	0.54
(1,3781)	1:21:A:VAL:HG21	1:20:A:ARG:HG3	12	0.54
(1,3760)	1:85:A:ALA:HA	1:82:A:ASP:HB3	4	0.54
(1,3753)	1:15:A:ALA:HB2	1:18:A:ILE:HG22	10	0.54
(1,3706)	1:88:A:GLN:HE22	1:35:A:LEU:HD21	19	0.54
(1,3677)	1:13:A:ALA:HB2	1:12:A:GLY:HA3	18	0.54
(1,3639)	1:156:A:TYR:HB2	1:155:A:SER:HB2	11	0.54
(1,3561)	1:111:A:ARG:HD3	1:111:A:ARG:HA	9	0.54
(1,3481)	1:39:A:VAL:HG11	1:49:A:GLN:HA	8	0.54
(1,3466)	1:7:A:PHE:HA	1:6:A:GLY:HA3	15	0.54
(1,3372)	1:53:A:GLN:HB3	1:66:A:LEU:HB2	14	0.54
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	5	0.54
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	19	0.54
(1,3351)	1:7:A:PHE:HA	1:6:A:GLY:HA3	15	0.54
(1,3334)	1:188:A:GLY:HA3	1:190:A:ALA:HA	18	0.54
(1,3286)	1:48:A:VAL:HG21	1:47:A:VAL:HB	15	0.54
(1,3238)	1:129:A:ILE:HD12	1:128:A:GLY:HA2	12	0.54
(1,3214)	1:14:A:SER:HB2	1:18:A:ILE:HD11	1	0.54
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD11	5	0.54
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD12	5	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD13	5	0.54
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD21	5	0.54
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD22	5	0.54
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD23	5	0.54
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG21	8	0.54
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB2	6	0.54
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	5	0.54
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	7	0.54
(1,3798)	1:161:A:ALA:HA	1:162:A:SER:HA	6	0.53
(1,3763)	1:41:A:GLN:HB2	1:45:A:SER:HB3	11	0.53
(1,3759)	1:161:A:ALA:HB1	1:175:A:PRO:HB2	10	0.53
(1,3756)	1:156:A:TYR:HB2	1:157:A:SER:HA	20	0.53
(1,3734)	1:20:A:ARG:HA	1:191:A:PRO:HB3	9	0.53
(1,3706)	1:88:A:GLN:HE22	1:35:A:LEU:HD22	7	0.53
(1,3696)	1:129:A:ILE:HG22	1:50:A:ARG:HB3	9	0.53
(1,3683)	1:51:A:ALA:HB3	1:50:A:ARG:HA	8	0.53
(1,3660)	1:172:A:PRO:HG3	1:18:A:ILE:HG13	13	0.53
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	12	0.53
(1,3455)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	1	0.53
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD11	2	0.53
(1,3422)	1:35:A:LEU:HD11	1:86:A:TYR:HB3	14	0.53
(1,3419)	1:18:A:ILE:HG13	1:172:A:PRO:HG3	13	0.53
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	6	0.53
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	10	0.53
(1,3348)	1:132:A:ASP:H	1:35:A:LEU:HD13	15	0.53
(1,3285)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	1	0.53
(1,3255)	1:124:A:ALA:HB2	1:96:A:ASN:HB3	9	0.53
(1,1814)	1:104:A:ASN:HD22	1:108:A:LEU:HG	15	0.53
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG22	18	0.53
(1,1157)	1:121:A:SER:H	1:123:A:ALA:HB3	10	0.53
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG21	16	0.53
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB2	6	0.53
(1,1095)	1:193:A:GLY:H	1:191:A:PRO:HA	6	0.53
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB2	11	0.53
(1,1031)	1:170:A:THR:HA	1:169:A:TYR:H	11	0.53
(1,1013)	1:128:A:GLY:H	1:123:A:ALA:HB2	6	0.53
(1,988)	1:23:A:ASN:H	1:21:A:VAL:HG11	13	0.53
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	17	0.53
(1,3863)	1:129:A:ILE:HG12	1:127:A:LEU:HD13	2	0.52
(1,3761)	1:112:A:VAL:HG22	1:13:A:ALA:HB3	9	0.52
(1,3748)	1:50:A:ARG:HD2	1:55:A:LEU:HA	10	0.52
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	1	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3696)	1:129:A:ILE:HG23	1:50:A:ARG:HB3	4	0.52
(1,3695)	1:150:A:SER:HB3	1:147:A:LEU:HA	2	0.52
(1,3683)	1:56:A:ALA:HB1	1:50:A:ARG:HA	1	0.52
(1,3672)	1:85:A:ALA:HA	1:88:A:GLN:HB3	1	0.52
(1,3657)	1:77:A:LEU:HD21	1:73:A:ALA:HA	6	0.52
(1,3587)	1:96:A:ASN:HB2	1:124:A:ALA:HB3	20	0.52
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB2	17	0.52
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	2	0.52
(1,3455)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	11	0.52
(1,3423)	1:10:A:THR:H	1:42:A:GLN:HB3	3	0.52
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	14	0.52
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	3	0.52
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	11	0.52
(1,3332)	1:52:A:ALA:HB3	1:129:A:ILE:HD13	18	0.52
(1,3288)	1:65:A:ASN:HA	1:67:A:ALA:HB1	15	0.52
(1,3287)	1:122:A:SER:HB3	1:121:A:SER:HB2	1	0.52
(1,3285)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	11	0.52
(1,3231)	1:34:A:VAL:HG22	1:139:A:ASP:HA	20	0.52
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD13	12	0.52
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD13	15	0.52
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG23	18	0.52
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG21	6	0.52
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG21	13	0.52
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB2	3	0.52
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD11	19	0.52
(1,1008)	1:40:A:SER:H	1:42:A:GLN:HB2	11	0.52
(1,999)	1:134:A:GLY:HA3	1:132:A:ASP:H	1	0.52
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	15	0.52
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG21	14	0.52
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB1	11	0.51
(1,3781)	1:21:A:VAL:HG21	1:20:A:ARG:HG3	11	0.51
(1,3764)	1:111:A:ARG:HD2	1:112:A:VAL:HG23	13	0.51
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG21	20	0.51
(1,3696)	1:129:A:ILE:HG22	1:50:A:ARG:HB3	11	0.51
(1,3677)	1:13:A:ALA:HB2	1:14:A:SER:HB3	1	0.51
(1,3672)	1:85:A:ALA:HA	1:88:A:GLN:HB2	13	0.51
(1,3672)	1:32:A:ARG:HA	1:88:A:GLN:HB3	18	0.51
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG22	17	0.51
(1,3587)	1:96:A:ASN:HB2	1:124:A:ALA:HB2	19	0.51
(1,3553)	1:87:A:ALA:HB1	1:43:A:ILE:HA	19	0.51
(1,3545)	1:55:A:LEU:HD23	1:49:A:GLN:HB3	7	0.51
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	11	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3490)	1:17:A:LEU:HD12	1:20:A:ARG:HB2	1	0.51
(1,3423)	1:9:A:ALA:H	1:42:A:GLN:HB3	6	0.51
(1,3422)	1:35:A:LEU:HD11	1:86:A:TYR:HB3	16	0.51
(1,3404)	1:35:A:LEU:HB3	1:88:A:GLN:HG2	16	0.51
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA2	2	0.51
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB3	5	0.51
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB1	16	0.51
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB1	11	0.51
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	16	0.51
(1,3338)	1:112:A:VAL:HG23	1:111:A:ARG:HD2	13	0.51
(1,3338)	1:112:A:VAL:HG21	1:111:A:ARG:HD3	20	0.51
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD11	10	0.51
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD12	10	0.51
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD13	10	0.51
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD21	10	0.51
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD22	10	0.51
(1,2226)	1:59:A:LEU:HA	1:59:A:LEU:HD23	10	0.51
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG22	5	0.51
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG11	17	0.51
(1,1157)	1:121:A:SER:H	1:123:A:ALA:HB3	3	0.51
(1,1130)	1:186:A:LEU:H	1:187:A:GLY:HA2	8	0.51
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB1	9	0.51
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD11	11	0.51
(1,1070)	1:67:A:ALA:H	1:71:A:VAL:HG22	17	0.51
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD23	5	0.51
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	9	0.51
(1,975)	1:53:A:GLN:HA	1:62:A:ASP:H	19	0.51
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	9	0.51
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	3	0.51
(1,3910)	1:85:A:ALA:HA	1:86:A:TYR:HD1	11	0.5
(1,3799)	1:131:A:VAL:HG11	1:51:A:ALA:HA	13	0.5
(1,3798)	1:154:A:ALA:HA	1:153:A:SER:HA	7	0.5
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB2	5	0.5
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB1	14	0.5
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB1	18	0.5
(1,3724)	1:117:A:LEU:HB3	1:105:A:ILE:HG23	4	0.5
(1,3696)	1:129:A:ILE:HG23	1:50:A:ARG:HB3	18	0.5
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG13	17	0.5
(1,3677)	1:13:A:ALA:HB1	1:12:A:GLY:HA3	8	0.5
(1,3553)	1:87:A:ALA:HB2	1:43:A:ILE:HA	1	0.5
(1,3490)	1:17:A:LEU:HD11	1:20:A:ARG:HB2	11	0.5
(1,3464)	1:126:A:GLY:HA3	1:123:A:ALA:HA	1	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3464)	1:126:A:GLY:HA3	1:123:A:ALA:HA	12	0.5
(1,3455)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	6	0.5
(1,3455)	1:44:A:ALA:HB1	1:86:A:TYR:HE2	7	0.5
(1,3455)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	14	0.5
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB3	5	0.5
(1,3334)	1:188:A:GLY:HA2	1:190:A:ALA:HA	4	0.5
(1,3292)	1:112:A:VAL:H	1:108:A:LEU:HG	9	0.5
(1,3286)	1:48:A:VAL:HG21	1:47:A:VAL:HB	20	0.5
(1,3285)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	6	0.5
(1,3285)	1:44:A:ALA:HB1	1:86:A:TYR:HE2	7	0.5
(1,3285)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	14	0.5
(1,3268)	1:9:A:ALA:HA	1:113:A:LEU:HG	9	0.5
(1,3251)	1:71:A:VAL:HB	1:51:A:ALA:HB2	8	0.5
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD11	9	0.5
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG21	19	0.5
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG22	11	0.5
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG13	4	0.5
(1,1157)	1:121:A:SER:H	1:123:A:ALA:HB3	2	0.5
(1,1151)	1:129:A:ILE:H	1:130:A:ASN:H	11	0.5
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	19	0.5
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG21	1	0.5
(1,1133)	1:42:A:GLN:H	1:44:A:ALA:HB1	9	0.5
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD11	6	0.5
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB3	14	0.5
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD12	6	0.5
(1,1052)	1:101:A:ASN:H	1:22:A:ALA:HB3	14	0.5
(1,1013)	1:128:A:GLY:H	1:123:A:ALA:HB3	11	0.5
(1,1007)	1:140:A:ILE:H	1:136:A:VAL:HB	19	0.5
(1,988)	1:23:A:ASN:H	1:21:A:VAL:HG11	20	0.5
(1,901)	1:163:A:SER:H	1:163:A:SER:HB2	14	0.5
(1,901)	1:163:A:SER:H	1:163:A:SER:HB3	14	0.5
(1,3836)	1:71:A:VAL:HG12	1:66:A:LEU:HA	8	0.49
(1,3791)	1:44:A:ALA:HB3	1:74:A:VAL:HA	11	0.49
(1,3766)	1:129:A:ILE:HG13	1:120:A:VAL:HG12	12	0.49
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	19	0.49
(1,3697)	1:13:A:ALA:HB1	1:108:A:LEU:HB3	7	0.49
(1,3620)	1:6:A:GLY:HA3	1:7:A:PHE:HA	3	0.49
(1,3607)	1:36:A:ARG:HE	1:116:A:LEU:HD12	2	0.49
(1,3580)	1:101:A:ASN:HB3	1:102:A:ALA:HB2	2	0.49
(1,3495)	1:48:A:VAL:HB	1:74:A:VAL:HG22	3	0.49
(1,3495)	1:48:A:VAL:HB	1:74:A:VAL:HG22	4	0.49
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	13	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD13	18	0.49
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB3	13	0.49
(1,3372)	1:53:A:GLN:HB3	1:56:A:ALA:HB1	11	0.49
(1,3336)	1:137:A:GLN:HG2	1:136:A:VAL:HB	15	0.49
(1,3292)	1:112:A:VAL:H	1:108:A:LEU:HG	11	0.49
(1,3231)	1:34:A:VAL:HG21	1:139:A:ASP:HA	8	0.49
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD11	8	0.49
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	8	0.49
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	9	0.49
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	15	0.49
(1,1157)	1:121:A:SER:H	1:123:A:ALA:HB3	8	0.49
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	15	0.49
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB3	1	0.49
(1,1096)	1:96:A:ASN:H	1:93:A:ALA:HB2	9	0.49
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD13	13	0.49
(1,975)	1:60:A:GLY:HA2	1:62:A:ASP:H	16	0.49
(1,960)	1:67:A:ALA:H	1:71:A:VAL:HG13	19	0.49
(1,901)	1:163:A:SER:H	1:163:A:SER:HB2	4	0.49
(1,901)	1:163:A:SER:H	1:163:A:SER:HB3	4	0.49
(1,3799)	1:131:A:VAL:HG11	1:51:A:ALA:HA	20	0.48
(1,3796)	1:124:A:ALA:HB3	1:120:A:VAL:HA	4	0.48
(1,3781)	1:21:A:VAL:HG22	1:20:A:ARG:HG3	14	0.48
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG21	20	0.48
(1,3707)	1:86:A:TYR:HB3	1:43:A:ILE:HG23	17	0.48
(1,3706)	1:88:A:GLN:HE22	1:35:A:LEU:HD21	17	0.48
(1,3696)	1:129:A:ILE:HG23	1:50:A:ARG:HB3	10	0.48
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG21	2	0.48
(1,3640)	1:172:A:PRO:HB2	1:173:A:SER:HB2	6	0.48
(1,3606)	1:35:A:LEU:HD21	1:88:A:GLN:HE22	17	0.48
(1,3589)	1:117:A:LEU:HB3	1:105:A:ILE:HG12	15	0.48
(1,3520)	1:129:A:ILE:HG12	1:50:A:ARG:HG2	18	0.48
(1,3466)	1:169:A:TYR:HA	1:168:A:GLY:HA3	1	0.48
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	19	0.48
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	20	0.48
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD11	6	0.48
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	17	0.48
(1,3353)	1:11:A:GLY:HA2	1:113:A:LEU:HA	18	0.48
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG23	19	0.48
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG11	11	0.48
(1,1157)	1:121:A:SER:H	1:124:A:ALA:HB3	5	0.48
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB1	15	0.48
(1,1096)	1:96:A:ASN:H	1:124:A:ALA:HB2	20	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1065)	1:111:A:ARG:HB2	1:111:A:ARG:HE	17	0.48
(1,989)	1:110:A:SER:H	1:108:A:LEU:HG	13	0.48
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	9	0.48
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG22	20	0.48
(1,3913)	1:99:A:VAL:HG22	1:95:A:PHE:HD2	10	0.47
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB3	2	0.47
(1,3852)	1:48:A:VAL:HG23	1:35:A:LEU:HD11	8	0.47
(1,3793)	1:48:A:VAL:HG22	1:65:A:ASN:HD21	19	0.47
(1,3790)	1:99:A:VAL:HG13	1:194:A:GLN:HA	2	0.47
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG22	8	0.47
(1,3735)	1:48:A:VAL:HG21	1:46:A:SER:H	15	0.47
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG13	18	0.47
(1,3668)	1:105:A:ILE:HA	1:100:A:LEU:HD13	10	0.47
(1,3657)	1:77:A:LEU:HD13	1:73:A:ALA:HA	4	0.47
(1,3649)	1:129:A:ILE:HG22	1:131:A:VAL:H	18	0.47
(1,3643)	1:42:A:GLN:HB2	1:116:A:LEU:HD23	6	0.47
(1,3620)	1:6:A:GLY:HA3	1:7:A:PHE:HA	5	0.47
(1,3583)	1:74:A:VAL:HG23	1:44:A:ALA:HA	8	0.47
(1,3580)	1:101:A:ASN:HB2	1:102:A:ALA:HB1	17	0.47
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG21	14	0.47
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG21	11	0.47
(1,3472)	1:78:A:PRO:HG2	1:77:A:LEU:HD12	11	0.47
(1,3466)	1:169:A:TYR:HA	1:168:A:GLY:HA3	14	0.47
(1,3416)	1:39:A:VAL:HG13	1:129:A:ILE:HD11	11	0.47
(1,3372)	1:53:A:GLN:HB2	1:52:A:ALA:HB3	19	0.47
(1,3352)	1:61:A:VAL:HG23	1:58:A:THR:HB	19	0.47
(1,3351)	1:169:A:TYR:HA	1:168:A:GLY:HA3	14	0.47
(1,3286)	1:48:A:VAL:HG11	1:41:A:GLN:HB3	1	0.47
(1,3286)	1:48:A:VAL:HG22	1:47:A:VAL:HB	7	0.47
(1,3278)	1:108:A:LEU:H	1:105:A:ILE:HD13	3	0.47
(1,3278)	1:108:A:LEU:H	1:105:A:ILE:HD13	17	0.47
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD23	5	0.47
(1,1194)	1:4:A:GLN:H	1:7:A:PHE:HB2	6	0.47
(1,1194)	1:4:A:GLN:H	1:7:A:PHE:HB3	6	0.47
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG23	2	0.47
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	10	0.47
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG23	5	0.47
(1,1133)	1:42:A:GLN:H	1:39:A:VAL:HG23	14	0.47
(1,1113)	1:65:A:ASN:HD21	1:47:A:VAL:HB	12	0.47
(1,1075)	1:48:A:VAL:H	1:73:A:ALA:HB3	10	0.47
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD13	3	0.47
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD13	17	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,962)	1:117:A:LEU:H	1:120:A:VAL:HG22	2	0.47
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG21	15	0.47
(1,232)	1:45:A:SER:HA	1:47:A:VAL:H	19	0.47
(1,3852)	1:48:A:VAL:HG23	1:35:A:LEU:HD22	11	0.46
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB3	16	0.46
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB3	18	0.46
(1,3781)	1:21:A:VAL:HG21	1:20:A:ARG:HG3	2	0.46
(1,3781)	1:71:A:VAL:HG12	1:68:A:ARG:HG2	8	0.46
(1,3781)	1:21:A:VAL:HG22	1:20:A:ARG:HG3	9	0.46
(1,3768)	1:172:A:PRO:HG3	1:24:A:ALA:HB3	12	0.46
(1,3734)	1:20:A:ARG:HA	1:191:A:PRO:HB3	1	0.46
(1,3712)	1:84:A:SER:HB3	1:85:A:ALA:HA	11	0.46
(1,3639)	1:156:A:TYR:HB2	1:155:A:SER:HB2	9	0.46
(1,3620)	1:6:A:GLY:HA3	1:7:A:PHE:HA	18	0.46
(1,3580)	1:20:A:ARG:HD2	1:24:A:ALA:HB2	1	0.46
(1,3490)	1:17:A:LEU:HD11	1:20:A:ARG:HB2	12	0.46
(1,3472)	1:117:A:LEU:HB2	1:113:A:LEU:HD22	17	0.46
(1,3466)	1:169:A:TYR:HA	1:168:A:GLY:HA2	5	0.46
(1,3464)	1:134:A:GLY:HA3	1:133:A:SER:HA	5	0.46
(1,3464)	1:126:A:GLY:HA3	1:123:A:ALA:HA	15	0.46
(1,3423)	1:9:A:ALA:H	1:42:A:GLN:HB3	12	0.46
(1,3421)	1:22:A:ALA:HA	1:191:A:PRO:HD3	13	0.46
(1,3421)	1:193:A:GLY:HA3	1:191:A:PRO:HD2	15	0.46
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	2	0.46
(1,3351)	1:169:A:TYR:HA	1:168:A:GLY:HA2	5	0.46
(1,3336)	1:137:A:GLN:HG3	1:136:A:VAL:HB	1	0.46
(1,3278)	1:101:A:ASN:H	1:105:A:ILE:HD13	11	0.46
(1,3231)	1:34:A:VAL:HG22	1:139:A:ASP:HA	10	0.46
(1,2430)	1:43:A:ILE:HD13	1:77:A:LEU:HG	16	0.46
(1,2105)	1:41:A:GLN:HB2	1:44:A:ALA:HA	18	0.46
(1,2105)	1:41:A:GLN:HB3	1:44:A:ALA:HA	18	0.46
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB2	19	0.46
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB2	8	0.46
(1,1045)	1:45:A:SER:H	1:43:A:ILE:HD12	10	0.46
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	14	0.46
(1,999)	1:134:A:GLY:HA3	1:132:A:ASP:H	11	0.46
(1,962)	1:117:A:LEU:H	1:113:A:LEU:HD21	4	0.46
(1,960)	1:67:A:ALA:H	1:70:A:ALA:HB1	5	0.46
(1,3793)	1:48:A:VAL:HG23	1:65:A:ASN:HD21	7	0.45
(1,3790)	1:99:A:VAL:HG13	1:194:A:GLN:HA	17	0.45
(1,3696)	1:129:A:ILE:HG23	1:50:A:ARG:HB3	20	0.45
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB2	20	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG21	20	0.45
(1,3645)	1:25:A:LEU:HD11	1:180:A:SER:H	19	0.45
(1,3643)	1:94:A:LEU:HG	1:116:A:LEU:HD21	5	0.45
(1,3620)	1:6:A:GLY:HA2	1:7:A:PHE:HA	20	0.45
(1,3490)	1:17:A:LEU:HD13	1:20:A:ARG:HB2	9	0.45
(1,3481)	1:39:A:VAL:HG12	1:49:A:GLN:HA	9	0.45
(1,3464)	1:134:A:GLY:HA3	1:133:A:SER:HA	7	0.45
(1,3464)	1:134:A:GLY:HA3	1:133:A:SER:HA	9	0.45
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	11	0.45
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB3	3	0.45
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	20	0.45
(1,3352)	1:61:A:VAL:HG22	1:58:A:THR:HB	8	0.45
(1,3352)	1:61:A:VAL:HG22	1:58:A:THR:HB	11	0.45
(1,3295)	1:39:A:VAL:HG22	1:43:A:ILE:HB	5	0.45
(1,3278)	1:101:A:ASN:H	1:105:A:ILE:HD13	5	0.45
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD11	2	0.45
(1,3222)	1:43:A:ILE:HB	1:39:A:VAL:HG22	5	0.45
(1,3106)	1:154:A:ALA:HB1	1:158:A:GLN:HB2	5	0.45
(1,3106)	1:154:A:ALA:HB1	1:158:A:GLN:HB3	5	0.45
(1,3106)	1:154:A:ALA:HB2	1:158:A:GLN:HB2	5	0.45
(1,3106)	1:154:A:ALA:HB2	1:158:A:GLN:HB3	5	0.45
(1,3106)	1:154:A:ALA:HB3	1:158:A:GLN:HB2	5	0.45
(1,3106)	1:154:A:ALA:HB3	1:158:A:GLN:HB3	5	0.45
(1,1662)	1:132:A:ASP:HA	1:133:A:SER:H	19	0.45
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG13	13	0.45
(1,1119)	1:97:A:ALA:H	1:96:A:ASN:HB3	11	0.45
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB2	20	0.45
(1,1084)	1:105:A:ILE:H	1:105:A:ILE:HD13	18	0.45
(1,1066)	1:174:A:GLY:H	1:171:A:GLY:HA2	8	0.45
(1,1031)	1:170:A:THR:HA	1:169:A:TYR:H	2	0.45
(1,975)	1:60:A:GLY:HA2	1:62:A:ASP:H	15	0.45
(1,942)	1:194:A:GLN:H	1:194:A:GLN:HB2	18	0.45
(1,942)	1:194:A:GLN:H	1:194:A:GLN:HB3	18	0.45
(1,803)	1:132:A:ASP:HA	1:133:A:SER:H	19	0.45
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB3	11	0.44
(1,3781)	1:21:A:VAL:HG21	1:20:A:ARG:HG3	18	0.44
(1,3766)	1:129:A:ILE:HG12	1:120:A:VAL:HG12	7	0.44
(1,3736)	1:191:A:PRO:HB2	1:190:A:ALA:HB1	9	0.44
(1,3734)	1:20:A:ARG:HA	1:191:A:PRO:HB3	16	0.44
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	9	0.44
(1,3713)	1:50:A:ARG:H	1:48:A:VAL:HG22	16	0.44
(1,3707)	1:86:A:TYR:HB3	1:43:A:ILE:HG22	16	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3697)	1:13:A:ALA:HB3	1:108:A:LEU:HB3	3	0.44
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG23	4	0.44
(1,3639)	1:156:A:TYR:HB3	1:157:A:SER:HB3	5	0.44
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB2	7	0.44
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB1	7	0.44
(1,3537)	1:39:A:VAL:H	1:129:A:ILE:HG23	17	0.44
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD13	6	0.44
(1,3520)	1:129:A:ILE:HG12	1:50:A:ARG:HG2	14	0.44
(1,3495)	1:48:A:VAL:HB	1:74:A:VAL:HG21	6	0.44
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD23	11	0.44
(1,3472)	1:117:A:LEU:HB2	1:113:A:LEU:HD21	7	0.44
(1,3464)	1:134:A:GLY:HA3	1:133:A:SER:HA	8	0.44
(1,3437)	1:101:A:ASN:HB2	1:194:A:GLN:HG2	4	0.44
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	1	0.44
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	3	0.44
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	8	0.44
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	9	0.44
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	15	0.44
(1,3387)	1:125:A:GLN:HA	1:98:A:GLY:HA3	19	0.44
(1,3364)	1:108:A:LEU:HD11	1:105:A:ILE:HD11	8	0.44
(1,3364)	1:117:A:LEU:HD11	1:105:A:ILE:HD12	11	0.44
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	7	0.44
(1,3351)	1:7:A:PHE:HA	1:6:A:GLY:HA2	2	0.44
(1,3281)	1:77:A:LEU:HB2	1:74:A:VAL:HG12	10	0.44
(1,3232)	1:96:A:ASN:HB3	1:105:A:ILE:HD13	6	0.44
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG21	12	0.44
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG21	15	0.44
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG23	3	0.44
(1,1157)	1:121:A:SER:H	1:124:A:ALA:HB2	9	0.44
(1,1148)	1:134:A:GLY:H	1:67:A:ALA:HA	3	0.44
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB2	10	0.44
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB3	4	0.44
(1,1063)	1:126:A:GLY:H	1:124:A:ALA:HB3	13	0.44
(1,1008)	1:40:A:SER:H	1:42:A:GLN:HB2	1	0.44
(1,3907)	1:77:A:LEU:HD23	1:86:A:TYR:HD2	19	0.43
(1,3798)	1:161:A:ALA:HA	1:162:A:SER:HA	11	0.43
(1,3771)	1:29:A:SER:HB3	1:30:A:THR:HG22	9	0.43
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	3	0.43
(1,3712)	1:84:A:SER:HB3	1:85:A:ALA:HA	7	0.43
(1,3695)	1:195:A:SER:HB2	1:102:A:ALA:HA	9	0.43
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD13	11	0.43
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG21	3	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG23	16	0.43
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG22	20	0.43
(1,3587)	1:96:A:ASN:HB3	1:124:A:ALA:HB1	15	0.43
(1,3553)	1:87:A:ALA:HB1	1:43:A:ILE:HA	7	0.43
(1,3537)	1:39:A:VAL:H	1:129:A:ILE:HG23	19	0.43
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD13	11	0.43
(1,3500)	1:74:A:VAL:HG22	1:73:A:ALA:HB3	2	0.43
(1,3464)	1:134:A:GLY:HA3	1:133:A:SER:HA	14	0.43
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD13	19	0.43
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	7	0.43
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	18	0.43
(1,3400)	1:140:A:ILE:HD11	1:141:A:SER:HB3	17	0.43
(1,3364)	1:117:A:LEU:HD12	1:105:A:ILE:HD12	16	0.43
(1,3334)	1:188:A:GLY:HA2	1:190:A:ALA:HA	12	0.43
(1,3292)	1:112:A:VAL:H	1:108:A:LEU:HG	1	0.43
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB2	10	0.43
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG22	14	0.43
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG21	12	0.43
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG22	20	0.43
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG21	4	0.43
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB3	17	0.43
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB1	13	0.43
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB1	19	0.43
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB1	20	0.43
(1,1066)	1:174:A:GLY:H	1:171:A:GLY:HA2	13	0.43
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB1	19	0.43
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	17	0.43
(1,1008)	1:40:A:SER:H	1:42:A:GLN:HB2	14	0.43
(1,989)	1:110:A:SER:H	1:117:A:LEU:HG	5	0.43
(1,989)	1:110:A:SER:H	1:108:A:LEU:HG	14	0.43
(1,3909)	1:74:A:VAL:HB	1:86:A:TYR:HE2	4	0.42
(1,3799)	1:131:A:VAL:HG12	1:51:A:ALA:HA	15	0.42
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB3	12	0.42
(1,3695)	1:150:A:SER:HB3	1:147:A:LEU:HA	7	0.42
(1,3649)	1:129:A:ILE:HG23	1:129:A:ILE:H	12	0.42
(1,3649)	1:129:A:ILE:HG23	1:129:A:ILE:H	19	0.42
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG23	7	0.42
(1,3620)	1:166:A:GLY:HA2	1:163:A:SER:HA	6	0.42
(1,3604)	1:57:A:SER:HA	1:53:A:GLN:HB3	19	0.42
(1,3587)	1:96:A:ASN:HB2	1:124:A:ALA:HB1	17	0.42
(1,3586)	1:86:A:TYR:HB3	1:35:A:LEU:HB3	19	0.42
(1,3561)	1:50:A:ARG:HD3	1:50:A:ARG:HA	7	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3553)	1:87:A:ALA:HB1	1:43:A:ILE:HA	5	0.42
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG23	7	0.42
(1,3520)	1:129:A:ILE:HG13	1:50:A:ARG:HG2	9	0.42
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD13	6	0.42
(1,3502)	1:39:A:VAL:HG22	1:36:A:ARG:HG3	10	0.42
(1,3497)	1:90:A:PHE:HA	1:92:A:SER:HB2	10	0.42
(1,3490)	1:17:A:LEU:HD13	1:20:A:ARG:HB2	20	0.42
(1,3398)	1:71:A:VAL:H	1:68:A:ARG:HA	8	0.42
(1,3288)	1:114:A:SER:HA	1:115:A:ALA:HB3	6	0.42
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE1	8	0.42
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE2	8	0.42
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE1	8	0.42
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE2	8	0.42
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE1	8	0.42
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE2	8	0.42
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE1	8	0.42
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE2	8	0.42
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE1	8	0.42
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE2	8	0.42
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE1	8	0.42
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE2	8	0.42
(1,2144)	1:47:A:VAL:HG11	1:49:A:GLN:HG2	9	0.42
(1,2144)	1:47:A:VAL:HG11	1:49:A:GLN:HG3	9	0.42
(1,2144)	1:47:A:VAL:HG12	1:49:A:GLN:HG2	9	0.42
(1,2144)	1:47:A:VAL:HG12	1:49:A:GLN:HG3	9	0.42
(1,2144)	1:47:A:VAL:HG13	1:49:A:GLN:HG2	9	0.42
(1,2144)	1:47:A:VAL:HG13	1:49:A:GLN:HG3	9	0.42
(1,2144)	1:47:A:VAL:HG21	1:49:A:GLN:HG2	9	0.42
(1,2144)	1:47:A:VAL:HG21	1:49:A:GLN:HG3	9	0.42
(1,2144)	1:47:A:VAL:HG22	1:49:A:GLN:HG2	9	0.42
(1,2144)	1:47:A:VAL:HG22	1:49:A:GLN:HG3	9	0.42
(1,2144)	1:47:A:VAL:HG23	1:49:A:GLN:HG2	9	0.42
(1,2144)	1:47:A:VAL:HG23	1:49:A:GLN:HG3	9	0.42
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	10	0.42
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB2	16	0.42
(1,1133)	1:42:A:GLN:H	1:44:A:ALA:HB2	1	0.42
(1,1119)	1:97:A:ALA:H	1:96:A:ASN:HB3	9	0.42
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB2	6	0.42
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB2	11	0.42
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB3	14	0.42
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	18	0.42
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB3	15	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1039)	1:90:A:PHE:H	1:18:A:ILE:HB	1	0.42
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD13	14	0.42
(1,989)	1:110:A:SER:H	1:117:A:LEU:HG	2	0.42
(1,975)	1:60:A:GLY:HA2	1:62:A:ASP:H	5	0.42
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	3	0.42
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	17	0.42
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG21	1	0.42
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD11	8	0.42
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD12	8	0.42
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD13	8	0.42
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD21	8	0.42
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD22	8	0.42
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD23	8	0.42
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD11	8	0.42
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD12	8	0.42
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD13	8	0.42
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD21	8	0.42
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD22	8	0.42
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD23	8	0.42
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB1	16	0.41
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG22	1	0.41
(1,3761)	1:112:A:VAL:HG21	1:13:A:ALA:HB1	11	0.41
(1,3760)	1:85:A:ALA:HA	1:82:A:ASP:HB3	19	0.41
(1,3712)	1:84:A:SER:HB3	1:85:A:ALA:HA	17	0.41
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG11	9	0.41
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD13	12	0.41
(1,3660)	1:172:A:PRO:HG3	1:18:A:ILE:HG13	12	0.41
(1,3649)	1:129:A:ILE:HG21	1:129:A:ILE:H	15	0.41
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG21	5	0.41
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG21	8	0.41
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG21	12	0.41
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG21	14	0.41
(1,3640)	1:172:A:PRO:HB2	1:173:A:SER:HB2	3	0.41
(1,3620)	1:6:A:GLY:HA3	1:7:A:PHE:HA	9	0.41
(1,3620)	1:6:A:GLY:HA3	1:7:A:PHE:HA	16	0.41
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG23	15	0.41
(1,3545)	1:55:A:LEU:HD21	1:49:A:GLN:HB3	4	0.41
(1,3499)	1:47:A:VAL:HG12	1:49:A:GLN:HG3	5	0.41
(1,3423)	1:9:A:ALA:H	1:42:A:GLN:HB3	4	0.41
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	4	0.41
(1,3415)	1:97:A:ALA:HA	1:96:A:ASN:HA	10	0.41
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD13	12	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3387)	1:125:A:GLN:HA	1:128:A:GLY:HA2	12	0.41
(1,3372)	1:53:A:GLN:HB3	1:56:A:ALA:HB2	7	0.41
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB1	20	0.41
(1,3351)	1:7:A:PHE:HA	1:6:A:GLY:HA3	9	0.41
(1,3338)	1:112:A:VAL:HG22	1:111:A:ARG:HD3	1	0.41
(1,3268)	1:9:A:ALA:HA	1:113:A:LEU:HG	15	0.41
(1,3231)	1:34:A:VAL:HG22	1:139:A:ASP:HA	15	0.41
(1,3194)	1:190:A:ALA:HB1	1:192:A:PHE:HA	19	0.41
(1,3194)	1:190:A:ALA:HB2	1:192:A:PHE:HA	19	0.41
(1,3194)	1:190:A:ALA:HB3	1:192:A:PHE:HA	19	0.41
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG23	1	0.41
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG22	14	0.41
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG23	19	0.41
(1,1157)	1:121:A:SER:H	1:124:A:ALA:HB3	6	0.41
(1,1138)	1:76:A:ARG:HB2	1:74:A:VAL:H	16	0.41
(1,1133)	1:42:A:GLN:H	1:44:A:ALA:HB2	18	0.41
(1,1123)	1:132:A:ASP:H	1:136:A:VAL:HB	9	0.41
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB2	12	0.41
(1,1075)	1:48:A:VAL:H	1:73:A:ALA:HB1	5	0.41
(1,1066)	1:174:A:GLY:H	1:171:A:GLY:HA3	16	0.41
(1,1025)	1:72:A:GLN:H	1:67:A:ALA:HA	9	0.41
(1,1025)	1:72:A:GLN:H	1:67:A:ALA:HA	15	0.41
(1,988)	1:23:A:ASN:H	1:21:A:VAL:HG21	4	0.41
(1,975)	1:60:A:GLY:HA2	1:62:A:ASP:H	10	0.41
(1,3820)	1:101:A:ASN:HB2	1:104:A:ASN:HB2	6	0.4
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB3	3	0.4
(1,3799)	1:131:A:VAL:HG12	1:51:A:ALA:HA	7	0.4
(1,3799)	1:131:A:VAL:HG12	1:51:A:ALA:HA	8	0.4
(1,3781)	1:21:A:VAL:HG23	1:20:A:ARG:HG3	10	0.4
(1,3760)	1:85:A:ALA:HA	1:82:A:ASP:HB2	13	0.4
(1,3697)	1:13:A:ALA:HB3	1:108:A:LEU:HB3	5	0.4
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG21	1	0.4
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG22	9	0.4
(1,3639)	1:156:A:TYR:HB3	1:155:A:SER:HB3	13	0.4
(1,3620)	1:193:A:GLY:HA2	1:192:A:PHE:HA	14	0.4
(1,3617)	1:124:A:ALA:HB3	1:125:A:GLN:HB2	2	0.4
(1,3520)	1:129:A:ILE:HG13	1:50:A:ARG:HG2	10	0.4
(1,3490)	1:17:A:LEU:HD12	1:20:A:ARG:HB2	7	0.4
(1,3481)	1:39:A:VAL:HG12	1:49:A:GLN:HA	2	0.4
(1,3466)	1:169:A:TYR:HA	1:168:A:GLY:HA3	10	0.4
(1,3464)	1:134:A:GLY:HA3	1:133:A:SER:HA	2	0.4
(1,3413)	1:99:A:VAL:HG11	1:195:A:SER:HB3	7	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3381)	1:177:A:THR:HG22	1:179:A:PRO:HD3	15	0.4
(1,3372)	1:53:A:GLN:HB2	1:52:A:ALA:HB3	15	0.4
(1,3231)	1:34:A:VAL:HG22	1:139:A:ASP:HA	17	0.4
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG21	9	0.4
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG22	9	0.4
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG21	7	0.4
(1,1113)	1:65:A:ASN:HD21	1:47:A:VAL:HB	17	0.4
(1,1096)	1:96:A:ASN:H	1:124:A:ALA:HB3	6	0.4
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB3	7	0.4
(1,1031)	1:167:A:ALA:HA	1:169:A:TYR:H	1	0.4
(1,1025)	1:72:A:GLN:H	1:67:A:ALA:HA	1	0.4
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	19	0.4
(1,1013)	1:128:A:GLY:H	1:129:A:ILE:HB	4	0.4
(1,989)	1:110:A:SER:H	1:108:A:LEU:HG	9	0.4
(1,989)	1:110:A:SER:H	1:117:A:LEU:HG	18	0.4
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA2	12	0.4
(1,3913)	1:99:A:VAL:HG22	1:95:A:PHE:HD2	11	0.39
(1,3836)	1:71:A:VAL:HG23	1:66:A:LEU:HA	7	0.39
(1,3799)	1:131:A:VAL:HG12	1:51:A:ALA:HA	1	0.39
(1,3799)	1:131:A:VAL:HG12	1:51:A:ALA:HA	2	0.39
(1,3793)	1:48:A:VAL:HG22	1:65:A:ASN:HD22	15	0.39
(1,3768)	1:172:A:PRO:HG3	1:24:A:ALA:HB3	2	0.39
(1,3766)	1:129:A:ILE:HG12	1:120:A:VAL:HG11	17	0.39
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	20	0.39
(1,3696)	1:129:A:ILE:HG22	1:50:A:ARG:HB3	3	0.39
(1,3677)	1:13:A:ALA:HB3	1:14:A:SER:HB3	5	0.39
(1,3677)	1:13:A:ALA:HB1	1:14:A:SER:HB3	12	0.39
(1,3672)	1:32:A:ARG:HA	1:88:A:GLN:HB3	5	0.39
(1,3671)	1:87:A:ALA:HB2	1:94:A:LEU:HD12	10	0.39
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD11	2	0.39
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD13	14	0.39
(1,3649)	1:129:A:ILE:HG23	1:129:A:ILE:H	11	0.39
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG21	10	0.39
(1,3606)	1:35:A:LEU:HD12	1:86:A:TYR:HE2	19	0.39
(1,3559)	1:156:A:TYR:HA	1:155:A:SER:HB3	19	0.39
(1,3543)	1:17:A:LEU:HD13	1:93:A:ALA:HA	8	0.39
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG21	9	0.39
(1,3520)	1:129:A:ILE:HG12	1:50:A:ARG:HG2	3	0.39
(1,3500)	1:74:A:VAL:HG21	1:73:A:ALA:HB1	13	0.39
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB3	1	0.39
(1,3413)	1:100:A:LEU:HD11	1:195:A:SER:HB2	9	0.39
(1,3394)	1:48:A:VAL:HG13	1:41:A:GLN:HG3	9	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3372)	1:53:A:GLN:HB3	1:52:A:ALA:HB1	16	0.39
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB2	13	0.39
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB1	17	0.39
(1,3331)	1:194:A:GLN:HA	1:193:A:GLY:HA3	6	0.39
(1,3238)	1:129:A:ILE:HD11	1:128:A:GLY:HA2	3	0.39
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD11	1	0.39
(1,2430)	1:43:A:ILE:HD12	1:77:A:LEU:HG	11	0.39
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG22	2	0.39
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG22	13	0.39
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG22	10	0.39
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG23	13	0.39
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG23	8	0.39
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB3	7	0.39
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB1	9	0.39
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB1	20	0.39
(1,1116)	1:93:A:ALA:H	1:100:A:LEU:HD12	7	0.39
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB2	3	0.39
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB2	16	0.39
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	20	0.39
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD12	3	0.39
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD12	7	0.39
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB3	2	0.39
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	14	0.39
(1,1066)	1:174:A:GLY:H	1:171:A:GLY:HA3	11	0.39
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	8	0.39
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD22	3	0.39
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	1	0.39
(1,975)	1:60:A:GLY:HA3	1:62:A:ASP:H	18	0.39
(1,962)	1:117:A:LEU:H	1:113:A:LEU:HD11	6	0.39
(1,3910)	1:85:A:ALA:HA	1:86:A:TYR:HD1	13	0.38
(1,3811)	1:70:A:ALA:HB3	1:51:A:ALA:HB2	5	0.38
(1,3799)	1:131:A:VAL:HG11	1:51:A:ALA:HA	3	0.38
(1,3798)	1:161:A:ALA:HA	1:162:A:SER:HA	15	0.38
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB1	17	0.38
(1,3785)	1:158:A:GLN:HB3	1:161:A:ALA:HB1	7	0.38
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG23	13	0.38
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG21	12	0.38
(1,3654)	1:39:A:VAL:HG13	1:38:A:GLY:HA2	2	0.38
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG21	6	0.38
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG23	18	0.38
(1,3623)	1:140:A:ILE:HD11	1:95:A:PHE:HE1	5	0.38
(1,3622)	1:50:A:ARG:H	1:55:A:LEU:HD21	18	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3616)	1:31:A:LEU:HD23	1:26:A:ALA:HB1	11	0.38
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG23	1	0.38
(1,3561)	1:50:A:ARG:HD2	1:50:A:ARG:HA	11	0.38
(1,3520)	1:129:A:ILE:HG13	1:50:A:ARG:HG2	5	0.38
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	17	0.38
(1,3517)	1:140:A:ILE:HG22	1:30:A:THR:HG22	14	0.38
(1,3497)	1:90:A:PHE:HA	1:92:A:SER:HB2	14	0.38
(1,3473)	1:21:A:VAL:HG22	1:92:A:SER:HA	13	0.38
(1,3472)	1:78:A:PRO:HG2	1:77:A:LEU:HD11	12	0.38
(1,3466)	1:7:A:PHE:HA	1:8:A:GLY:HA2	2	0.38
(1,3466)	1:7:A:PHE:HA	1:8:A:GLY:HA2	9	0.38
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD11	10	0.38
(1,3413)	1:99:A:VAL:HG13	1:195:A:SER:HB2	8	0.38
(1,3398)	1:70:A:ALA:H	1:68:A:ARG:HA	12	0.38
(1,3398)	1:71:A:VAL:H	1:68:A:ARG:HA	15	0.38
(1,3386)	1:13:A:ALA:HB3	1:14:A:SER:HA	17	0.38
(1,3376)	1:130:A:ASN:HB3	1:136:A:VAL:HG12	14	0.38
(1,3351)	1:197:A:PHE:HA	1:198:A:GLY:HA3	1	0.38
(1,3338)	1:112:A:VAL:HG21	1:111:A:ARG:HD3	12	0.38
(1,3336)	1:137:A:GLN:HG2	1:136:A:VAL:HB	17	0.38
(1,3278)	1:108:A:LEU:H	1:105:A:ILE:HD12	20	0.38
(1,3090)	1:27:A:ASN:HB2	1:149:A:THR:HG21	2	0.38
(1,3090)	1:27:A:ASN:HB2	1:149:A:THR:HG22	2	0.38
(1,3090)	1:27:A:ASN:HB2	1:149:A:THR:HG23	2	0.38
(1,3090)	1:27:A:ASN:HB3	1:149:A:THR:HG21	2	0.38
(1,3090)	1:27:A:ASN:HB3	1:149:A:THR:HG22	2	0.38
(1,3090)	1:27:A:ASN:HB3	1:149:A:THR:HG23	2	0.38
(1,1904)	1:20:A:ARG:HA	1:24:A:ALA:HA	3	0.38
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	9	0.38
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	18	0.38
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG13	14	0.38
(1,1138)	1:147:A:LEU:HB3	1:149:A:THR:H	12	0.38
(1,1133)	1:42:A:GLN:H	1:44:A:ALA:HB3	4	0.38
(1,1130)	1:186:A:LEU:H	1:187:A:GLY:HA3	3	0.38
(1,1119)	1:97:A:ALA:H	1:96:A:ASN:HB3	10	0.38
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB2	5	0.38
(1,1095)	1:193:A:GLY:H	1:191:A:PRO:HA	12	0.38
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD12	20	0.38
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG22	6	0.38
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	16	0.38
(1,919)	1:180:A:SER:H	1:180:A:SER:HB2	6	0.38
(1,919)	1:180:A:SER:H	1:180:A:SER:HB3	6	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3913)	1:99:A:VAL:HG23	1:95:A:PHE:HD2	19	0.37
(1,3909)	1:74:A:VAL:HB	1:86:A:TYR:HE2	9	0.37
(1,3836)	1:71:A:VAL:HG21	1:66:A:LEU:HA	20	0.37
(1,3820)	1:101:A:ASN:HB2	1:104:A:ASN:HB3	9	0.37
(1,3798)	1:161:A:ALA:HA	1:162:A:SER:HA	10	0.37
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB2	13	0.37
(1,3679)	1:70:A:ALA:HB3	1:61:A:VAL:HG22	4	0.37
(1,3652)	1:118:A:ASN:HD22	1:114:A:SER:HB3	11	0.37
(1,3617)	1:124:A:ALA:HB2	1:125:A:GLN:HB2	8	0.37
(1,3554)	1:13:A:ALA:HB2	1:104:A:ASN:HB2	10	0.37
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG23	8	0.37
(1,3500)	1:74:A:VAL:HG21	1:73:A:ALA:HB1	19	0.37
(1,3481)	1:39:A:VAL:HG12	1:49:A:GLN:HA	18	0.37
(1,3454)	1:35:A:LEU:HD11	1:131:A:VAL:HG11	2	0.37
(1,3421)	1:22:A:ALA:HA	1:191:A:PRO:HD2	18	0.37
(1,3394)	1:48:A:VAL:HG11	1:41:A:GLN:HG2	2	0.37
(1,3381)	1:177:A:THR:HG22	1:179:A:PRO:HD3	2	0.37
(1,3331)	1:4:A:GLN:HA	1:5:A:GLY:HA2	12	0.37
(1,2430)	1:43:A:ILE:HD11	1:77:A:LEU:HG	14	0.37
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD11	4	0.37
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD12	4	0.37
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD13	4	0.37
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD21	4	0.37
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD22	4	0.37
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD23	4	0.37
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD11	4	0.37
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD12	4	0.37
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD13	4	0.37
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD21	4	0.37
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD22	4	0.37
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD23	4	0.37
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG23	9	0.37
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG21	10	0.37
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	4	0.37
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG21	9	0.37
(1,1138)	1:76:A:ARG:HB2	1:74:A:VAL:H	2	0.37
(1,1119)	1:97:A:ALA:H	1:96:A:ASN:HB3	15	0.37
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB3	2	0.37
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	10	0.37
(1,1096)	1:96:A:ASN:H	1:124:A:ALA:HB3	16	0.37
(1,1095)	1:193:A:GLY:H	1:194:A:GLN:HA	8	0.37
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD12	2	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	8	0.37
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	18	0.37
(1,1045)	1:45:A:SER:H	1:48:A:VAL:HG12	4	0.37
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	18	0.37
(1,1031)	1:167:A:ALA:HA	1:169:A:TYR:H	5	0.37
(1,1008)	1:40:A:SER:H	1:42:A:GLN:HB2	15	0.37
(1,989)	1:110:A:SER:H	1:108:A:LEU:HG	6	0.37
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA3	13	0.37
(1,962)	1:117:A:LEU:H	1:113:A:LEU:HD21	11	0.37
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	2	0.37
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	13	0.37
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG23	11	0.37
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG23	16	0.37
(1,3840)	1:125:A:GLN:HA	1:97:A:ALA:HA	3	0.36
(1,3798)	1:161:A:ALA:HA	1:162:A:SER:HA	2	0.36
(1,3763)	1:41:A:GLN:HB2	1:45:A:SER:HB3	13	0.36
(1,3763)	1:41:A:GLN:HB2	1:46:A:SER:HB2	19	0.36
(1,3724)	1:117:A:LEU:HB3	1:105:A:ILE:HG21	9	0.36
(1,3712)	1:84:A:SER:HB3	1:85:A:ALA:HA	13	0.36
(1,3706)	1:88:A:GLN:HE22	1:35:A:LEU:HD22	13	0.36
(1,3697)	1:13:A:ALA:HB3	1:108:A:LEU:HB3	19	0.36
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB3	17	0.36
(1,3670)	1:23:A:ASN:H	1:26:A:ALA:HB3	3	0.36
(1,3649)	1:129:A:ILE:HG23	1:131:A:VAL:H	5	0.36
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG23	13	0.36
(1,3587)	1:96:A:ASN:HB2	1:124:A:ALA:HB3	5	0.36
(1,3561)	1:50:A:ARG:HD2	1:50:A:ARG:HA	6	0.36
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	5	0.36
(1,3500)	1:74:A:VAL:HG22	1:73:A:ALA:HB3	10	0.36
(1,3500)	1:74:A:VAL:HG23	1:73:A:ALA:HB3	14	0.36
(1,3490)	1:17:A:LEU:HD12	1:20:A:ARG:HB2	16	0.36
(1,3470)	1:100:A:LEU:HD11	1:105:A:ILE:HG12	11	0.36
(1,3466)	1:7:A:PHE:HA	1:6:A:GLY:HA3	7	0.36
(1,3466)	1:7:A:PHE:HA	1:8:A:GLY:HA3	13	0.36
(1,3466)	1:169:A:TYR:HA	1:168:A:GLY:HA2	18	0.36
(1,3386)	1:13:A:ALA:HB1	1:14:A:SER:HA	16	0.36
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB2	17	0.36
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB1	1	0.36
(1,3352)	1:61:A:VAL:HG23	1:58:A:THR:HB	6	0.36
(1,3351)	1:7:A:PHE:HA	1:6:A:GLY:HA3	7	0.36
(1,3351)	1:169:A:TYR:HA	1:168:A:GLY:HA2	18	0.36
(1,3344)	1:93:A:ALA:HB1	1:105:A:ILE:HD11	1	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3334)	1:25:A:LEU:HA	1:190:A:ALA:HA	10	0.36
(1,3331)	1:194:A:GLN:HA	1:193:A:GLY:HA2	17	0.36
(1,3281)	1:77:A:LEU:HB3	1:74:A:VAL:HG12	9	0.36
(1,3095)	1:146:A:PHE:HB2	1:150:A:SER:HA	11	0.36
(1,3095)	1:146:A:PHE:HB3	1:150:A:SER:HA	11	0.36
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD2	8	0.36
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD3	8	0.36
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	7	0.36
(1,1133)	1:42:A:GLN:H	1:44:A:ALA:HB3	13	0.36
(1,1091)	1:104:A:ASN:H	1:105:A:ILE:HD11	14	0.36
(1,1084)	1:105:A:ILE:H	1:105:A:ILE:HD13	3	0.36
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD13	17	0.36
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB3	2	0.36
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	11	0.36
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	3	0.36
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	9	0.36
(1,1013)	1:128:A:GLY:H	1:129:A:ILE:HB	8	0.36
(1,1013)	1:128:A:GLY:H	1:123:A:ALA:HB1	15	0.36
(1,1013)	1:128:A:GLY:H	1:123:A:ALA:HB2	16	0.36
(1,989)	1:110:A:SER:H	1:117:A:LEU:HG	4	0.36
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG21	5	0.36
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	16	0.36
(1,3909)	1:74:A:VAL:HB	1:86:A:TYR:HE2	11	0.35
(1,3863)	1:129:A:ILE:HG12	1:55:A:LEU:HD22	6	0.35
(1,3811)	1:70:A:ALA:HB1	1:51:A:ALA:HB3	9	0.35
(1,3798)	1:161:A:ALA:HA	1:153:A:SER:HA	13	0.35
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB3	3	0.35
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB3	4	0.35
(1,3785)	1:158:A:GLN:HB2	1:159:A:ALA:HB3	14	0.35
(1,3781)	1:71:A:VAL:HG12	1:68:A:ARG:HG2	15	0.35
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG21	15	0.35
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG23	19	0.35
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG22	15	0.35
(1,3647)	1:35:A:LEU:HG	1:131:A:VAL:HG23	2	0.35
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG23	11	0.35
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG21	15	0.35
(1,3641)	1:141:A:SER:H	1:140:A:ILE:HG23	19	0.35
(1,3559)	1:156:A:TYR:HA	1:157:A:SER:HB3	9	0.35
(1,3545)	1:55:A:LEU:HD22	1:49:A:GLN:HB3	5	0.35
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB3	19	0.35
(1,3466)	1:169:A:TYR:HA	1:168:A:GLY:HA3	3	0.35
(1,3466)	1:169:A:TYR:HA	1:168:A:GLY:HA3	12	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3466)	1:169:A:TYR:HA	1:168:A:GLY:HA3	20	0.35
(1,3465)	1:56:A:ALA:HB1	1:48:A:VAL:HA	10	0.35
(1,3464)	1:134:A:GLY:HA2	1:133:A:SER:HA	6	0.35
(1,3423)	1:9:A:ALA:H	1:42:A:GLN:HB3	16	0.35
(1,3416)	1:37:A:THR:HG21	1:129:A:ILE:HD11	3	0.35
(1,3413)	1:100:A:LEU:HD13	1:195:A:SER:HB3	1	0.35
(1,3386)	1:13:A:ALA:HB3	1:14:A:SER:HA	8	0.35
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB3	19	0.35
(1,3351)	1:169:A:TYR:HA	1:168:A:GLY:HA3	3	0.35
(1,3351)	1:169:A:TYR:HA	1:168:A:GLY:HA3	12	0.35
(1,3351)	1:197:A:PHE:HA	1:198:A:GLY:HA2	13	0.35
(1,3351)	1:169:A:TYR:HA	1:168:A:GLY:HA3	16	0.35
(1,3351)	1:169:A:TYR:HA	1:168:A:GLY:HA3	20	0.35
(1,3342)	1:129:A:ILE:HD13	1:123:A:ALA:HB2	4	0.35
(1,3338)	1:112:A:VAL:HG23	1:111:A:ARG:HD3	19	0.35
(1,3334)	1:188:A:GLY:HA2	1:190:A:ALA:HA	5	0.35
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG11	7	0.35
(1,3203)	1:186:A:LEU:HB2	1:194:A:GLN:HG2	8	0.35
(1,3203)	1:186:A:LEU:HB2	1:194:A:GLN:HG3	8	0.35
(1,3203)	1:186:A:LEU:HB3	1:194:A:GLN:HG2	8	0.35
(1,3203)	1:186:A:LEU:HB3	1:194:A:GLN:HG3	8	0.35
(1,3106)	1:154:A:ALA:HB1	1:158:A:GLN:HB2	4	0.35
(1,3106)	1:154:A:ALA:HB1	1:158:A:GLN:HB3	4	0.35
(1,3106)	1:154:A:ALA:HB2	1:158:A:GLN:HB2	4	0.35
(1,3106)	1:154:A:ALA:HB2	1:158:A:GLN:HB3	4	0.35
(1,3106)	1:154:A:ALA:HB3	1:158:A:GLN:HB2	4	0.35
(1,3106)	1:154:A:ALA:HB3	1:158:A:GLN:HB3	4	0.35
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD11	11	0.35
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD12	11	0.35
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD13	11	0.35
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD21	11	0.35
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD22	11	0.35
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD23	11	0.35
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD11	11	0.35
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD12	11	0.35
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD13	11	0.35
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD21	11	0.35
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD22	11	0.35
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD23	11	0.35
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	12	0.35
(1,1138)	1:76:A:ARG:HB2	1:74:A:VAL:H	11	0.35
(1,1119)	1:97:A:ALA:H	1:96:A:ASN:HB3	2	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB2	7	0.35
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB3	13	0.35
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	13	0.35
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	17	0.35
(1,1065)	1:50:A:ARG:HB2	1:50:A:ARG:HE	5	0.35
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	8	0.35
(1,962)	1:117:A:LEU:H	1:113:A:LEU:HD21	1	0.35
(1,962)	1:117:A:LEU:H	1:113:A:LEU:HD21	18	0.35
(1,3833)	1:113:A:LEU:HA	1:113:A:LEU:HD12	17	0.34
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB2	15	0.34
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB1	20	0.34
(1,3761)	1:112:A:VAL:HG21	1:13:A:ALA:HB2	1	0.34
(1,3707)	1:86:A:TYR:HB3	1:43:A:ILE:HG21	19	0.34
(1,3697)	1:13:A:ALA:HB2	1:108:A:LEU:HB3	4	0.34
(1,3697)	1:13:A:ALA:HB3	1:108:A:LEU:HB2	9	0.34
(1,3672)	1:32:A:ARG:HA	1:88:A:GLN:HB3	6	0.34
(1,3672)	1:32:A:ARG:HA	1:88:A:GLN:HB3	11	0.34
(1,3660)	1:185:A:PRO:HG2	1:186:A:LEU:HD23	1	0.34
(1,3583)	1:74:A:VAL:HG23	1:44:A:ALA:HA	7	0.34
(1,3559)	1:156:A:TYR:HA	1:157:A:SER:HB2	4	0.34
(1,3466)	1:169:A:TYR:HA	1:168:A:GLY:HA3	4	0.34
(1,3466)	1:7:A:PHE:HA	1:8:A:GLY:HA3	17	0.34
(1,3413)	1:100:A:LEU:HD13	1:195:A:SER:HB2	16	0.34
(1,3374)	1:93:A:ALA:HB2	1:90:A:PHE:HA	18	0.34
(1,3331)	1:4:A:GLN:HA	1:5:A:GLY:HA2	4	0.34
(1,3331)	1:186:A:LEU:HA	1:187:A:GLY:HA2	10	0.34
(1,3331)	1:4:A:GLN:HA	1:5:A:GLY:HA3	16	0.34
(1,3287)	1:122:A:SER:HB2	1:121:A:SER:HB2	20	0.34
(1,3238)	1:129:A:ILE:HD13	1:128:A:GLY:HA2	10	0.34
(1,2430)	1:43:A:ILE:HD11	1:77:A:LEU:HG	15	0.34
(1,2176)	1:50:A:ARG:HD2	1:54:A:SER:HA	6	0.34
(1,2176)	1:50:A:ARG:HD3	1:54:A:SER:HA	6	0.34
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG21	20	0.34
(1,1148)	1:134:A:GLY:H	1:67:A:ALA:HA	12	0.34
(1,1133)	1:42:A:GLN:H	1:44:A:ALA:HB2	19	0.34
(1,1107)	1:109:A:GLY:H	1:112:A:VAL:HB	1	0.34
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	1	0.34
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	4	0.34
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	7	0.34
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	13	0.34
(1,1066)	1:178:A:GLY:H	1:171:A:GLY:HA2	18	0.34
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB2	5	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1034)	1:109:A:GLY:H	1:113:A:LEU:HD12	4	0.34
(1,1025)	1:72:A:GLN:H	1:67:A:ALA:HA	19	0.34
(1,1008)	1:40:A:SER:H	1:42:A:GLN:HB2	7	0.34
(1,975)	1:60:A:GLY:HA3	1:62:A:ASP:H	2	0.34
(1,975)	1:60:A:GLY:HA2	1:62:A:ASP:H	11	0.34
(1,975)	1:60:A:GLY:HA3	1:62:A:ASP:H	13	0.34
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG22	3	0.34
(1,962)	1:117:A:LEU:H	1:120:A:VAL:HG12	13	0.34
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	3	0.34
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	17	0.34
(1,3907)	1:77:A:LEU:HD23	1:86:A:TYR:HD2	16	0.33
(1,3798)	1:161:A:ALA:HA	1:162:A:SER:HA	17	0.33
(1,3793)	1:48:A:VAL:HG21	1:65:A:ASN:HD21	9	0.33
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	6	0.33
(1,3683)	1:56:A:ALA:HB2	1:50:A:ARG:HA	6	0.33
(1,3672)	1:32:A:ARG:HA	1:88:A:GLN:HB3	9	0.33
(1,3654)	1:39:A:VAL:HG12	1:38:A:GLY:HA2	17	0.33
(1,3643)	1:42:A:GLN:HB2	1:116:A:LEU:HD12	8	0.33
(1,3620)	1:6:A:GLY:HA3	1:7:A:PHE:HA	19	0.33
(1,3575)	1:38:A:GLY:HA2	1:136:A:VAL:HG11	8	0.33
(1,3545)	1:48:A:VAL:HG13	1:41:A:GLN:HB3	17	0.33
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG23	14	0.33
(1,3495)	1:48:A:VAL:HB	1:74:A:VAL:HG23	13	0.33
(1,3495)	1:48:A:VAL:HB	1:74:A:VAL:HG23	16	0.33
(1,3480)	1:47:A:VAL:HG13	1:69:A:PHE:HB3	5	0.33
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD13	4	0.33
(1,3386)	1:13:A:ALA:HB2	1:14:A:SER:HA	15	0.33
(1,3351)	1:197:A:PHE:HA	1:196:A:GLY:HA2	6	0.33
(1,3336)	1:137:A:GLN:HG2	1:136:A:VAL:HB	16	0.33
(1,3331)	1:4:A:GLN:HA	1:5:A:GLY:HA3	1	0.33
(1,3331)	1:4:A:GLN:HA	1:5:A:GLY:HA2	14	0.33
(1,3315)	1:156:A:TYR:HB2	1:157:A:SER:HB2	6	0.33
(1,3278)	1:108:A:LEU:H	1:105:A:ILE:HD11	14	0.33
(1,3225)	1:120:A:VAL:HB	1:116:A:LEU:HG	13	0.33
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD11	12	0.33
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD12	12	0.33
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD13	12	0.33
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD21	12	0.33
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD22	12	0.33
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD23	12	0.33
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD11	12	0.33
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD12	12	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD13	12	0.33
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD21	12	0.33
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD22	12	0.33
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD23	12	0.33
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG23	17	0.33
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG23	13	0.33
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG23	17	0.33
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	3	0.33
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	5	0.33
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB3	11	0.33
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB3	1	0.33
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	5	0.33
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	16	0.33
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD12	1	0.33
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB1	16	0.33
(1,1071)	1:108:A:LEU:H	1:105:A:ILE:HD11	14	0.33
(1,1054)	1:146:A:PHE:H	1:147:A:LEU:HD12	7	0.33
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB2	9	0.33
(1,1031)	1:167:A:ALA:HA	1:169:A:TYR:H	19	0.33
(1,1013)	1:128:A:GLY:H	1:123:A:ALA:HB3	1	0.33
(1,999)	1:134:A:GLY:HA3	1:132:A:ASP:H	18	0.33
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG21	7	0.33
(1,962)	1:117:A:LEU:H	1:120:A:VAL:HG22	20	0.33
(1,961)	1:10:A:THR:H	1:113:A:LEU:H	5	0.33
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	8	0.33
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG23	18	0.33
(1,942)	1:194:A:GLN:H	1:194:A:GLN:HB2	11	0.33
(1,942)	1:194:A:GLN:H	1:194:A:GLN:HB3	11	0.33
(1,3913)	1:99:A:VAL:HG21	1:95:A:PHE:HD2	17	0.32
(1,3911)	1:18:A:ILE:HG22	1:90:A:PHE:HE1	17	0.32
(1,3909)	1:74:A:VAL:HB	1:86:A:TYR:HE2	1	0.32
(1,3909)	1:74:A:VAL:HB	1:86:A:TYR:HE2	5	0.32
(1,3852)	1:48:A:VAL:HG13	1:35:A:LEU:HD11	19	0.32
(1,3833)	1:113:A:LEU:HA	1:113:A:LEU:HD12	18	0.32
(1,3798)	1:154:A:ALA:HA	1:153:A:SER:HA	4	0.32
(1,3798)	1:164:A:THR:HB	1:162:A:SER:HA	9	0.32
(1,3798)	1:154:A:ALA:HA	1:153:A:SER:HA	12	0.32
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB2	9	0.32
(1,3781)	1:21:A:VAL:HG22	1:20:A:ARG:HG3	4	0.32
(1,3760)	1:85:A:ALA:HA	1:82:A:ASP:HB3	1	0.32
(1,3736)	1:191:A:PRO:HB2	1:190:A:ALA:HB2	6	0.32
(1,3734)	1:20:A:ARG:HA	1:191:A:PRO:HB3	2	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD11	18	0.32
(1,3640)	1:172:A:PRO:HB2	1:173:A:SER:HB3	2	0.32
(1,3620)	1:198:A:GLY:HA2	1:197:A:PHE:HA	10	0.32
(1,3620)	1:166:A:GLY:HA3	1:163:A:SER:HA	15	0.32
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG21	5	0.32
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	15	0.32
(1,3500)	1:74:A:VAL:HG21	1:73:A:ALA:HB3	20	0.32
(1,3472)	1:78:A:PRO:HG2	1:77:A:LEU:HD13	13	0.32
(1,3464)	1:134:A:GLY:HA3	1:133:A:SER:HA	19	0.32
(1,3419)	1:31:A:LEU:HD11	1:172:A:PRO:HG2	2	0.32
(1,3398)	1:70:A:ALA:H	1:68:A:ARG:HA	14	0.32
(1,3398)	1:70:A:ALA:H	1:68:A:ARG:HA	17	0.32
(1,3351)	1:197:A:PHE:HA	1:198:A:GLY:HA3	4	0.32
(1,3351)	1:197:A:PHE:HA	1:198:A:GLY:HA2	10	0.32
(1,3331)	1:4:A:GLN:HA	1:5:A:GLY:HA3	9	0.32
(1,3268)	1:9:A:ALA:HA	1:113:A:LEU:HG	20	0.32
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD13	16	0.32
(1,3220)	1:9:A:ALA:HB3	1:117:A:LEU:HD22	14	0.32
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG23	2	0.32
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG22	14	0.32
(1,1157)	1:121:A:SER:H	1:123:A:ALA:HB1	7	0.32
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	1	0.32
(1,1133)	1:42:A:GLN:H	1:39:A:VAL:HG21	7	0.32
(1,1133)	1:42:A:GLN:H	1:39:A:VAL:HG21	15	0.32
(1,1130)	1:186:A:LEU:H	1:187:A:GLY:HA3	15	0.32
(1,1084)	1:105:A:ILE:H	1:105:A:ILE:HD11	14	0.32
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB2	15	0.32
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	12	0.32
(1,1066)	1:174:A:GLY:H	1:171:A:GLY:HA2	12	0.32
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA2	5	0.32
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	6	0.32
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	14	0.32
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG23	13	0.32
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG23	19	0.32
(1,3913)	1:99:A:VAL:HG23	1:95:A:PHE:HD2	9	0.31
(1,3798)	1:154:A:ALA:HA	1:153:A:SER:HA	14	0.31
(1,3785)	1:158:A:GLN:HB2	1:154:A:ALA:HB3	15	0.31
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG22	5	0.31
(1,3722)	1:59:A:LEU:HB2	1:61:A:VAL:HG21	4	0.31
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB1	12	0.31
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD11	1	0.31
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD11	7	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3655)	1:87:A:ALA:HB2	1:35:A:LEU:HA	12	0.31
(1,3645)	1:25:A:LEU:HD11	1:180:A:SER:H	9	0.31
(1,3640)	1:172:A:PRO:HB2	1:173:A:SER:HB2	18	0.31
(1,3620)	1:198:A:GLY:HA2	1:197:A:PHE:HA	17	0.31
(1,3617)	1:124:A:ALA:HB2	1:125:A:GLN:HB2	19	0.31
(1,3606)	1:35:A:LEU:HD23	1:86:A:TYR:HE2	13	0.31
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG22	17	0.31
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	9	0.31
(1,3490)	1:17:A:LEU:HD12	1:20:A:ARG:HB2	8	0.31
(1,3490)	1:17:A:LEU:HD13	1:20:A:ARG:HB2	15	0.31
(1,3490)	1:17:A:LEU:HD11	1:20:A:ARG:HB2	17	0.31
(1,3466)	1:197:A:PHE:HA	1:196:A:GLY:HA2	11	0.31
(1,3416)	1:37:A:THR:HG22	1:129:A:ILE:HD12	12	0.31
(1,3386)	1:13:A:ALA:HB3	1:14:A:SER:HA	3	0.31
(1,3386)	1:13:A:ALA:HB1	1:14:A:SER:HA	12	0.31
(1,3368)	1:74:A:VAL:H	1:70:A:ALA:HB1	2	0.31
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	12	0.31
(1,3352)	1:61:A:VAL:HG23	1:58:A:THR:HB	12	0.31
(1,3352)	1:61:A:VAL:HG22	1:58:A:THR:HB	14	0.31
(1,3351)	1:197:A:PHE:HA	1:196:A:GLY:HA2	11	0.31
(1,3351)	1:197:A:PHE:HA	1:198:A:GLY:HA2	17	0.31
(1,3331)	1:4:A:GLN:HA	1:5:A:GLY:HA3	8	0.31
(1,3150)	1:182:A:TYR:HB2	1:183:A:PRO:HB2	9	0.31
(1,3150)	1:182:A:TYR:HB2	1:183:A:PRO:HB3	9	0.31
(1,3150)	1:182:A:TYR:HB3	1:183:A:PRO:HB2	9	0.31
(1,3150)	1:182:A:TYR:HB3	1:183:A:PRO:HB3	9	0.31
(1,2176)	1:50:A:ARG:HD2	1:54:A:SER:HA	14	0.31
(1,2176)	1:50:A:ARG:HD3	1:54:A:SER:HA	14	0.31
(1,1801)	1:66:A:LEU:H	1:61:A:VAL:HG11	16	0.31
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG23	5	0.31
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG23	7	0.31
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB2	8	0.31
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB2	14	0.31
(1,1138)	1:76:A:ARG:HB2	1:74:A:VAL:H	15	0.31
(1,1133)	1:42:A:GLN:H	1:44:A:ALA:HB1	2	0.31
(1,1133)	1:42:A:GLN:H	1:39:A:VAL:HG22	6	0.31
(1,1133)	1:42:A:GLN:H	1:39:A:VAL:HG23	8	0.31
(1,1123)	1:132:A:ASP:H	1:71:A:VAL:HB	19	0.31
(1,1095)	1:193:A:GLY:H	1:194:A:GLN:HA	9	0.31
(1,1078)	1:56:A:ALA:H	1:50:A:ARG:HE	10	0.31
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB3	12	0.31
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB3	17	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	3	0.31
(1,1039)	1:90:A:PHE:H	1:18:A:ILE:HB	19	0.31
(1,1008)	1:40:A:SER:H	1:42:A:GLN:HB2	18	0.31
(1,988)	1:23:A:ASN:H	1:21:A:VAL:HG11	15	0.31
(1,962)	1:117:A:LEU:H	1:113:A:LEU:HD23	16	0.31
(1,960)	1:67:A:ALA:H	1:70:A:ALA:HB2	20	0.31
(1,897)	1:156:A:TYR:HA	1:160:A:SER:H	5	0.31
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB2	17	0.31
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB3	17	0.31
(1,3911)	1:18:A:ILE:HG22	1:90:A:PHE:HE1	1	0.3
(1,3820)	1:101:A:ASN:HB2	1:104:A:ASN:HB3	19	0.3
(1,3798)	1:154:A:ALA:HA	1:153:A:SER:HA	18	0.3
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB1	2	0.3
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB2	19	0.3
(1,3778)	1:129:A:ILE:HG21	1:130:A:ASN:HB2	16	0.3
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	8	0.3
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB1	5	0.3
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB3	14	0.3
(1,3683)	1:56:A:ALA:HB1	1:50:A:ARG:HA	13	0.3
(1,3623)	1:140:A:ILE:HD12	1:95:A:PHE:HE1	12	0.3
(1,3614)	1:177:A:THR:HG21	1:175:A:PRO:HG2	9	0.3
(1,3589)	1:117:A:LEU:HB3	1:105:A:ILE:HG13	12	0.3
(1,3587)	1:96:A:ASN:HB3	1:124:A:ALA:HB3	10	0.3
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG22	9	0.3
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG22	10	0.3
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB2	9	0.3
(1,3572)	1:85:A:ALA:HB1	1:80:A:GLY:HA3	15	0.3
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD13	14	0.3
(1,3481)	1:39:A:VAL:HG12	1:49:A:GLN:HA	11	0.3
(1,3466)	1:169:A:TYR:HA	1:168:A:GLY:HA3	8	0.3
(1,3466)	1:7:A:PHE:HA	1:8:A:GLY:HA3	16	0.3
(1,3381)	1:177:A:THR:HG22	1:179:A:PRO:HD3	1	0.3
(1,3351)	1:169:A:TYR:HA	1:168:A:GLY:HA3	8	0.3
(1,3344)	1:93:A:ALA:HB2	1:21:A:VAL:HG21	7	0.3
(1,3238)	1:129:A:ILE:HD13	1:128:A:GLY:HA2	9	0.3
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD23	20	0.3
(1,3214)	1:14:A:SER:HB2	1:18:A:ILE:HD12	20	0.3
(1,3091)	1:25:A:LEU:HD11	1:149:A:THR:HG21	14	0.3
(1,3091)	1:25:A:LEU:HD11	1:149:A:THR:HG22	14	0.3
(1,3091)	1:25:A:LEU:HD11	1:149:A:THR:HG23	14	0.3
(1,3091)	1:25:A:LEU:HD12	1:149:A:THR:HG21	14	0.3
(1,3091)	1:25:A:LEU:HD12	1:149:A:THR:HG22	14	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3091)	1:25:A:LEU:HD12	1:149:A:THR:HG23	14	0.3
(1,3091)	1:25:A:LEU:HD13	1:149:A:THR:HG21	14	0.3
(1,3091)	1:25:A:LEU:HD13	1:149:A:THR:HG22	14	0.3
(1,3091)	1:25:A:LEU:HD13	1:149:A:THR:HG23	14	0.3
(1,3091)	1:25:A:LEU:HD21	1:149:A:THR:HG21	14	0.3
(1,3091)	1:25:A:LEU:HD21	1:149:A:THR:HG22	14	0.3
(1,3091)	1:25:A:LEU:HD21	1:149:A:THR:HG23	14	0.3
(1,3091)	1:25:A:LEU:HD22	1:149:A:THR:HG21	14	0.3
(1,3091)	1:25:A:LEU:HD22	1:149:A:THR:HG22	14	0.3
(1,3091)	1:25:A:LEU:HD22	1:149:A:THR:HG23	14	0.3
(1,3091)	1:25:A:LEU:HD23	1:149:A:THR:HG21	14	0.3
(1,3091)	1:25:A:LEU:HD23	1:149:A:THR:HG22	14	0.3
(1,3091)	1:25:A:LEU:HD23	1:149:A:THR:HG23	14	0.3
(1,2781)	1:9:A:ALA:HA	1:114:A:SER:HB2	13	0.3
(1,2781)	1:9:A:ALA:HA	1:114:A:SER:HB3	13	0.3
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD21	11	0.3
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD22	11	0.3
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD21	11	0.3
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD22	11	0.3
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG22	1	0.3
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG23	9	0.3
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG23	19	0.3
(1,1130)	1:186:A:LEU:H	1:187:A:GLY:HA2	7	0.3
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	3	0.3
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	12	0.3
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB1	11	0.3
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	11	0.3
(1,989)	1:110:A:SER:H	1:108:A:LEU:HG	3	0.3
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA2	2	0.3
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA2	7	0.3
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	4	0.3
(1,949)	1:55:A:LEU:H	1:129:A:ILE:HD11	10	0.3
(1,928)	1:178:A:GLY:HA2	1:187:A:GLY:H	14	0.3
(1,928)	1:178:A:GLY:HA3	1:187:A:GLY:H	14	0.3
(1,781)	1:127:A:LEU:H	1:129:A:ILE:H	16	0.3
(1,326)	1:64:A:ASN:H	1:64:A:ASN:HD21	1	0.3
(1,326)	1:64:A:ASN:H	1:64:A:ASN:HD22	1	0.3
(1,326)	1:64:A:ASN:H	1:64:A:ASN:HD21	12	0.3
(1,326)	1:64:A:ASN:H	1:64:A:ASN:HD22	12	0.3
(1,3907)	1:43:A:ILE:HG23	1:86:A:TYR:HD2	12	0.29
(1,3833)	1:113:A:LEU:HA	1:113:A:LEU:HD12	1	0.29
(1,3833)	1:113:A:LEU:HA	1:113:A:LEU:HD11	14	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3833)	1:113:A:LEU:HA	1:113:A:LEU:HD12	19	0.29
(1,3798)	1:154:A:ALA:HA	1:153:A:SER:HA	8	0.29
(1,3798)	1:161:A:ALA:HA	1:162:A:SER:HA	19	0.29
(1,3790)	1:99:A:VAL:HG12	1:194:A:GLN:HA	6	0.29
(1,3781)	1:71:A:VAL:HG12	1:68:A:ARG:HG2	19	0.29
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG23	1	0.29
(1,3770)	1:149:A:THR:H	1:149:A:THR:HG23	3	0.29
(1,3736)	1:191:A:PRO:HB2	1:190:A:ALA:HB2	1	0.29
(1,3736)	1:25:A:LEU:HG	1:190:A:ALA:HB1	5	0.29
(1,3735)	1:48:A:VAL:HG22	1:46:A:SER:H	14	0.29
(1,3734)	1:37:A:THR:HA	1:136:A:VAL:HB	3	0.29
(1,3731)	1:108:A:LEU:HA	1:108:A:LEU:HG	7	0.29
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	14	0.29
(1,3710)	1:49:A:GLN:HB2	1:55:A:LEU:HA	18	0.29
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB3	2	0.29
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB1	13	0.29
(1,3683)	1:56:A:ALA:HB3	1:50:A:ARG:HA	17	0.29
(1,3623)	1:140:A:ILE:HD13	1:95:A:PHE:HE1	14	0.29
(1,3620)	1:166:A:GLY:HA2	1:163:A:SER:HA	11	0.29
(1,3604)	1:57:A:SER:HA	1:53:A:GLN:HB3	4	0.29
(1,3583)	1:74:A:VAL:HG21	1:44:A:ALA:HA	5	0.29
(1,3574)	1:86:A:TYR:HD2	1:44:A:ALA:HB3	19	0.29
(1,3520)	1:129:A:ILE:HG13	1:50:A:ARG:HG2	2	0.29
(1,3520)	1:129:A:ILE:HG13	1:50:A:ARG:HG2	17	0.29
(1,3500)	1:74:A:VAL:HG21	1:73:A:ALA:HB2	6	0.29
(1,3495)	1:48:A:VAL:HB	1:74:A:VAL:HG23	11	0.29
(1,3481)	1:39:A:VAL:HG12	1:49:A:GLN:HA	16	0.29
(1,3458)	1:23:A:ASN:HB2	1:24:A:ALA:HB3	9	0.29
(1,3398)	1:70:A:ALA:H	1:68:A:ARG:HA	19	0.29
(1,3381)	1:177:A:THR:HG22	1:179:A:PRO:HD3	12	0.29
(1,3352)	1:61:A:VAL:HG22	1:58:A:THR:HB	18	0.29
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG22	3	0.29
(1,3331)	1:4:A:GLN:HA	1:5:A:GLY:HA2	2	0.29
(1,3331)	1:9:A:ALA:HA	1:8:A:GLY:HA3	5	0.29
(1,3331)	1:194:A:GLN:HA	1:193:A:GLY:HA3	11	0.29
(1,3331)	1:9:A:ALA:HA	1:8:A:GLY:HA3	13	0.29
(1,3331)	1:4:A:GLN:HA	1:5:A:GLY:HA3	19	0.29
(1,3294)	1:25:A:LEU:HA	1:25:A:LEU:HD23	12	0.29
(1,3292)	1:112:A:VAL:H	1:108:A:LEU:HG	12	0.29
(1,3287)	1:122:A:SER:HB3	1:121:A:SER:HB2	8	0.29
(1,3231)	1:34:A:VAL:HG23	1:36:A:ARG:HA	7	0.29
(1,3193)	1:191:A:PRO:HB2	1:192:A:PHE:HB2	18	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3193)	1:191:A:PRO:HB2	1:192:A:PHE:HB3	18	0.29
(1,3193)	1:191:A:PRO:HB3	1:192:A:PHE:HB2	18	0.29
(1,3193)	1:191:A:PRO:HB3	1:192:A:PHE:HB3	18	0.29
(1,3110)	1:156:A:TYR:HB2	1:159:A:ALA:HB1	6	0.29
(1,3110)	1:156:A:TYR:HB2	1:159:A:ALA:HB2	6	0.29
(1,3110)	1:156:A:TYR:HB2	1:159:A:ALA:HB3	6	0.29
(1,3110)	1:156:A:TYR:HB3	1:159:A:ALA:HB1	6	0.29
(1,3110)	1:156:A:TYR:HB3	1:159:A:ALA:HB2	6	0.29
(1,3110)	1:156:A:TYR:HB3	1:159:A:ALA:HB3	6	0.29
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB1	20	0.29
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB2	20	0.29
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB3	20	0.29
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB1	20	0.29
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB2	20	0.29
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB3	20	0.29
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB1	20	0.29
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB2	20	0.29
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB3	20	0.29
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB1	20	0.29
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB2	20	0.29
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB3	20	0.29
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB1	20	0.29
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB2	20	0.29
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB3	20	0.29
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB1	20	0.29
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB2	20	0.29
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB3	20	0.29
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD2	11	0.29
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD3	11	0.29
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD11	18	0.29
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD12	18	0.29
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD13	18	0.29
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD21	18	0.29
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD22	18	0.29
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD23	18	0.29
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG21	1	0.29
(1,1157)	1:121:A:SER:H	1:123:A:ALA:HB3	16	0.29
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	8	0.29
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	17	0.29
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	20	0.29
(1,1148)	1:134:A:GLY:H	1:67:A:ALA:HA	4	0.29
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB1	5	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB3	13	0.29
(1,1138)	1:76:A:ARG:HB3	1:74:A:VAL:H	7	0.29
(1,1096)	1:96:A:ASN:H	1:124:A:ALA:HB2	1	0.29
(1,1084)	1:105:A:ILE:H	1:105:A:ILE:HD12	20	0.29
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB1	8	0.29
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	15	0.29
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	17	0.29
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	16	0.29
(1,1031)	1:167:A:ALA:HA	1:169:A:TYR:H	15	0.29
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	11	0.29
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	12	0.29
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	20	0.29
(1,1013)	1:128:A:GLY:H	1:129:A:ILE:HB	2	0.29
(1,1013)	1:128:A:GLY:H	1:129:A:ILE:HB	10	0.29
(1,1013)	1:128:A:GLY:H	1:129:A:ILE:HB	17	0.29
(1,975)	1:60:A:GLY:HA2	1:62:A:ASP:H	17	0.29
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA2	18	0.29
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG21	14	0.29
(1,326)	1:64:A:ASN:H	1:64:A:ASN:HD21	9	0.29
(1,326)	1:64:A:ASN:H	1:64:A:ASN:HD22	9	0.29
(1,326)	1:64:A:ASN:H	1:64:A:ASN:HD21	13	0.29
(1,326)	1:64:A:ASN:H	1:64:A:ASN:HD22	13	0.29
(1,141)	1:29:A:SER:H	1:32:A:ARG:HD2	18	0.29
(1,141)	1:29:A:SER:H	1:32:A:ARG:HD3	18	0.29
(1,3909)	1:74:A:VAL:HB	1:86:A:TYR:HE2	8	0.28
(1,3844)	1:175:A:PRO:HD2	1:177:A:THR:HB	18	0.28
(1,3796)	1:124:A:ALA:HB2	1:120:A:VAL:HA	1	0.28
(1,3793)	1:48:A:VAL:HG22	1:65:A:ASN:HD21	20	0.28
(1,3778)	1:129:A:ILE:HG22	1:130:A:ASN:HB3	8	0.28
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG22	15	0.28
(1,3760)	1:85:A:ALA:HA	1:82:A:ASP:HB3	17	0.28
(1,3726)	1:75:A:SER:H	1:74:A:VAL:HG22	3	0.28
(1,3726)	1:75:A:SER:H	1:74:A:VAL:HG13	9	0.28
(1,3722)	1:59:A:LEU:HB2	1:61:A:VAL:HG22	14	0.28
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	16	0.28
(1,3672)	1:32:A:ARG:HA	1:88:A:GLN:HB3	17	0.28
(1,3654)	1:39:A:VAL:HG12	1:38:A:GLY:HA2	4	0.28
(1,3649)	1:129:A:ILE:HG22	1:131:A:VAL:H	4	0.28
(1,3649)	1:129:A:ILE:HG22	1:129:A:ILE:H	10	0.28
(1,3580)	1:101:A:ASN:HB2	1:102:A:ALA:HB3	19	0.28
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG22	7	0.28
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG23	11	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3559)	1:156:A:TYR:HA	1:155:A:SER:HB2	8	0.28
(1,3537)	1:39:A:VAL:H	1:129:A:ILE:HG23	20	0.28
(1,3490)	1:17:A:LEU:HD12	1:20:A:ARG:HB2	13	0.28
(1,3472)	1:78:A:PRO:HG2	1:77:A:LEU:HD23	8	0.28
(1,3466)	1:169:A:TYR:HA	1:168:A:GLY:HA3	19	0.28
(1,3464)	1:126:A:GLY:HA3	1:123:A:ALA:HA	3	0.28
(1,3454)	1:35:A:LEU:HD13	1:34:A:VAL:HG13	10	0.28
(1,3450)	1:93:A:ALA:HB3	1:92:A:SER:HB2	19	0.28
(1,3386)	1:17:A:LEU:HB3	1:14:A:SER:HA	11	0.28
(1,3386)	1:17:A:LEU:HB3	1:14:A:SER:HA	13	0.28
(1,3386)	1:13:A:ALA:HB3	1:14:A:SER:HA	19	0.28
(1,3382)	1:187:A:GLY:H	1:184:A:GLY:HA3	13	0.28
(1,3352)	1:61:A:VAL:HG23	1:58:A:THR:HB	15	0.28
(1,3351)	1:169:A:TYR:HA	1:168:A:GLY:HA3	19	0.28
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG13	5	0.28
(1,3338)	1:112:A:VAL:HG22	1:111:A:ARG:HD3	15	0.28
(1,3334)	1:188:A:GLY:HA2	1:190:A:ALA:HA	3	0.28
(1,3334)	1:188:A:GLY:HA2	1:190:A:ALA:HA	11	0.28
(1,3331)	1:186:A:LEU:HA	1:187:A:GLY:HA3	3	0.28
(1,3331)	1:9:A:ALA:HA	1:8:A:GLY:HA3	7	0.28
(1,3331)	1:182:A:TYR:HA	1:181:A:GLY:HA3	20	0.28
(1,3319)	1:61:A:VAL:HG13	1:65:A:ASN:HB2	5	0.28
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG13	1	0.28
(1,3246)	1:75:A:SER:H	1:74:A:VAL:HG22	3	0.28
(1,3246)	1:75:A:SER:H	1:74:A:VAL:HG13	9	0.28
(1,3128)	1:170:A:THR:HA	1:174:A:GLY:HA2	1	0.28
(1,3128)	1:170:A:THR:HA	1:174:A:GLY:HA3	1	0.28
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD11	4	0.28
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD12	4	0.28
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD13	4	0.28
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD21	4	0.28
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD22	4	0.28
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD23	4	0.28
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD2	4	0.28
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD3	4	0.28
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD2	6	0.28
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD3	6	0.28
(1,1801)	1:66:A:LEU:H	1:61:A:VAL:HG11	1	0.28
(1,1578)	1:105:A:ILE:HA	1:107:A:THR:H	8	0.28
(1,1167)	1:139:A:ASP:H	1:135:A:SER:HB3	1	0.28
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG13	12	0.28
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	14	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1119)	1:97:A:ALA:H	1:96:A:ASN:HB3	5	0.28
(1,1065)	1:50:A:ARG:HB3	1:50:A:ARG:HE	12	0.28
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	12	0.28
(1,1039)	1:90:A:PHE:H	1:18:A:ILE:HB	8	0.28
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	7	0.28
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA3	6	0.28
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA2	9	0.28
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA2	10	0.28
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA3	15	0.28
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG21	16	0.28
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	18	0.28
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	2	0.28
(1,815)	1:132:A:ASP:HB2	1:135:A:SER:H	7	0.28
(1,815)	1:132:A:ASP:HB3	1:135:A:SER:H	7	0.28
(1,3910)	1:85:A:ALA:HA	1:86:A:TYR:HD1	15	0.27
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB2	5	0.27
(1,3798)	1:161:A:ALA:HA	1:162:A:SER:HA	16	0.27
(1,3793)	1:48:A:VAL:HG22	1:65:A:ASN:HD21	10	0.27
(1,3781)	1:21:A:VAL:HG21	1:20:A:ARG:HG3	16	0.27
(1,3766)	1:129:A:ILE:HG12	1:120:A:VAL:HG11	4	0.27
(1,3706)	1:88:A:GLN:HE22	1:35:A:LEU:HD23	8	0.27
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB2	18	0.27
(1,3692)	1:117:A:LEU:HG	1:105:A:ILE:HG21	9	0.27
(1,3649)	1:129:A:ILE:HG21	1:131:A:VAL:H	3	0.27
(1,3649)	1:129:A:ILE:HG22	1:129:A:ILE:H	17	0.27
(1,3640)	1:172:A:PRO:HB2	1:173:A:SER:HB3	8	0.27
(1,3639)	1:156:A:TYR:HB3	1:157:A:SER:HB3	12	0.27
(1,3606)	1:35:A:LEU:HD23	1:88:A:GLN:HE22	8	0.27
(1,3580)	1:101:A:ASN:HB2	1:102:A:ALA:HB2	7	0.27
(1,3579)	1:43:A:ILE:HD11	1:77:A:LEU:HD22	7	0.27
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG23	20	0.27
(1,3559)	1:156:A:TYR:HA	1:155:A:SER:HB3	12	0.27
(1,3520)	1:129:A:ILE:HG13	1:50:A:ARG:HG3	15	0.27
(1,3455)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	16	0.27
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD22	5	0.27
(1,3376)	1:132:A:ASP:HB3	1:136:A:VAL:HG21	13	0.27
(1,3374)	1:93:A:ALA:HB3	1:90:A:PHE:HA	2	0.27
(1,3364)	1:117:A:LEU:HD13	1:105:A:ILE:HD11	1	0.27
(1,3336)	1:137:A:GLN:HG3	1:136:A:VAL:HB	13	0.27
(1,3331)	1:186:A:LEU:HA	1:187:A:GLY:HA3	15	0.27
(1,3322)	1:108:A:LEU:HD22	1:107:A:THR:HB	8	0.27
(1,3295)	1:10:A:THR:HG22	1:42:A:GLN:HB3	11	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3285)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	16	0.27
(1,3281)	1:77:A:LEU:HB2	1:74:A:VAL:HG13	7	0.27
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG11	20	0.27
(1,3202)	1:99:A:VAL:HG11	1:194:A:GLN:HA	8	0.27
(1,3202)	1:99:A:VAL:HG12	1:194:A:GLN:HA	8	0.27
(1,3202)	1:99:A:VAL:HG13	1:194:A:GLN:HA	8	0.27
(1,3202)	1:99:A:VAL:HG21	1:194:A:GLN:HA	8	0.27
(1,3202)	1:99:A:VAL:HG22	1:194:A:GLN:HA	8	0.27
(1,3202)	1:99:A:VAL:HG23	1:194:A:GLN:HA	8	0.27
(1,3150)	1:182:A:TYR:HB2	1:183:A:PRO:HB2	4	0.27
(1,3150)	1:182:A:TYR:HB2	1:183:A:PRO:HB3	4	0.27
(1,3150)	1:182:A:TYR:HB3	1:183:A:PRO:HB2	4	0.27
(1,3150)	1:182:A:TYR:HB3	1:183:A:PRO:HB3	4	0.27
(1,2869)	1:55:A:LEU:HB2	1:120:A:VAL:HA	15	0.27
(1,2869)	1:55:A:LEU:HB3	1:120:A:VAL:HA	15	0.27
(1,2482)	1:85:A:ALA:H	1:86:A:TYR:HB2	10	0.27
(1,2482)	1:85:A:ALA:H	1:86:A:TYR:HB3	10	0.27
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG23	3	0.27
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG21	5	0.27
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG23	6	0.27
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	19	0.27
(1,1095)	1:193:A:GLY:H	1:191:A:PRO:HA	14	0.27
(1,1091)	1:104:A:ASN:H	1:105:A:ILE:HD13	18	0.27
(1,1066)	1:174:A:GLY:H	1:171:A:GLY:HA3	6	0.27
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	1	0.27
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	2	0.27
(1,1028)	1:71:A:VAL:H	1:72:A:GLN:HA	20	0.27
(1,1025)	1:72:A:GLN:H	1:67:A:ALA:HA	8	0.27
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	2	0.27
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	17	0.27
(1,999)	1:134:A:GLY:HA3	1:132:A:ASP:H	12	0.27
(1,962)	1:117:A:LEU:H	1:113:A:LEU:HD21	12	0.27
(1,962)	1:117:A:LEU:H	1:113:A:LEU:HD21	14	0.27
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	1	0.27
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	7	0.27
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	13	0.27
(1,949)	1:55:A:LEU:H	1:129:A:ILE:HD11	2	0.27
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG21	12	0.27
(1,925)	1:185:A:PRO:HG2	1:186:A:LEU:H	19	0.27
(1,925)	1:185:A:PRO:HG3	1:186:A:LEU:H	19	0.27
(1,920)	1:149:A:THR:HB	1:180:A:SER:H	12	0.27
(1,903)	1:163:A:SER:HA	1:166:A:GLY:H	3	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,901)	1:163:A:SER:H	1:163:A:SER:HB2	19	0.27
(1,901)	1:163:A:SER:H	1:163:A:SER:HB3	19	0.27
(1,692)	1:117:A:LEU:H	1:117:A:LEU:HG	13	0.27
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB2	15	0.27
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB3	15	0.27
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	1	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	2	0.26
(1,3912)	1:95:A:PHE:HD2	1:95:A:PHE:HZ	3	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	4	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	5	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	6	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	7	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	8	0.26
(1,3912)	1:95:A:PHE:HD2	1:95:A:PHE:HZ	9	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	10	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	11	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	12	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	13	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	14	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	15	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	16	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	17	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	18	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	19	0.26
(1,3912)	1:95:A:PHE:HD1	1:95:A:PHE:HZ	20	0.26
(1,3910)	1:85:A:ALA:HA	1:86:A:TYR:HD1	14	0.26
(1,3833)	1:113:A:LEU:HA	1:113:A:LEU:HD12	2	0.26
(1,3796)	1:124:A:ALA:HB2	1:120:A:VAL:HA	18	0.26
(1,3793)	1:48:A:VAL:HG21	1:65:A:ASN:HD21	5	0.26
(1,3781)	1:21:A:VAL:HG22	1:20:A:ARG:HG3	6	0.26
(1,3763)	1:41:A:GLN:HB2	1:45:A:SER:HB2	3	0.26
(1,3724)	1:117:A:LEU:HB3	1:105:A:ILE:HG22	2	0.26
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	10	0.26
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	4	0.26
(1,3697)	1:13:A:ALA:HB1	1:108:A:LEU:HB3	14	0.26
(1,3622)	1:50:A:ARG:H	1:55:A:LEU:HD21	17	0.26
(1,3620)	1:193:A:GLY:HA2	1:192:A:PHE:HA	13	0.26
(1,3520)	1:129:A:ILE:HG13	1:50:A:ARG:HG2	7	0.26
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD21	10	0.26
(1,3434)	1:135:A:SER:HA	1:139:A:ASP:HB2	1	0.26
(1,3421)	1:193:A:GLY:HA3	1:191:A:PRO:HD2	5	0.26
(1,3407)	1:113:A:LEU:HB3	1:9:A:ALA:HB2	7	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3398)	1:70:A:ALA:H	1:68:A:ARG:HA	2	0.26
(1,3398)	1:70:A:ALA:H	1:68:A:ARG:HA	6	0.26
(1,3398)	1:71:A:VAL:H	1:68:A:ARG:HA	9	0.26
(1,3398)	1:71:A:VAL:H	1:68:A:ARG:HA	20	0.26
(1,3394)	1:48:A:VAL:HG23	1:41:A:GLN:HG2	17	0.26
(1,3386)	1:13:A:ALA:HB2	1:14:A:SER:HA	1	0.26
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB1	8	0.26
(1,3352)	1:61:A:VAL:HG21	1:58:A:THR:HB	13	0.26
(1,3336)	1:21:A:VAL:HB	1:191:A:PRO:HB2	14	0.26
(1,3331)	1:9:A:ALA:HA	1:8:A:GLY:HA2	18	0.26
(1,3287)	1:122:A:SER:HB3	1:121:A:SER:HB3	5	0.26
(1,3088)	1:148:A:SER:HB2	1:149:A:THR:HG21	9	0.26
(1,3088)	1:148:A:SER:HB2	1:149:A:THR:HG22	9	0.26
(1,3088)	1:148:A:SER:HB2	1:149:A:THR:HG23	9	0.26
(1,3088)	1:148:A:SER:HB3	1:149:A:THR:HG21	9	0.26
(1,3088)	1:148:A:SER:HB3	1:149:A:THR:HG22	9	0.26
(1,3088)	1:148:A:SER:HB3	1:149:A:THR:HG23	9	0.26
(1,2163)	1:50:A:ARG:HD2	1:52:A:ALA:HA	18	0.26
(1,2163)	1:50:A:ARG:HD3	1:52:A:ALA:HA	18	0.26
(1,2097)	1:43:A:ILE:HD11	1:44:A:ALA:HA	20	0.26
(1,2097)	1:43:A:ILE:HD12	1:44:A:ALA:HA	20	0.26
(1,2097)	1:43:A:ILE:HD13	1:44:A:ALA:HA	20	0.26
(1,1958)	1:30:A:THR:HB	1:31:A:LEU:H	14	0.26
(1,1483)	1:79:A:ALA:HA	1:80:A:GLY:H	3	0.26
(1,1168)	1:22:A:ALA:H	1:99:A:VAL:HG13	5	0.26
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG23	11	0.26
(1,1138)	1:76:A:ARG:HB2	1:74:A:VAL:H	1	0.26
(1,1138)	1:147:A:LEU:HB3	1:149:A:THR:H	14	0.26
(1,1133)	1:42:A:GLN:H	1:44:A:ALA:HB2	11	0.26
(1,1119)	1:97:A:ALA:H	1:96:A:ASN:HB3	12	0.26
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	14	0.26
(1,1084)	1:105:A:ILE:H	1:105:A:ILE:HD13	17	0.26
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB2	12	0.26
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	4	0.26
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	10	0.26
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	10	0.26
(1,1013)	1:128:A:GLY:H	1:129:A:ILE:HB	5	0.26
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG22	2	0.26
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG23	10	0.26
(1,962)	1:117:A:LEU:H	1:113:A:LEU:HD23	7	0.26
(1,960)	1:67:A:ALA:H	1:71:A:VAL:HG21	16	0.26
(1,957)	1:109:A:GLY:H	1:108:A:LEU:HB2	19	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG21	6	0.26
(1,892)	1:153:A:SER:H	1:158:A:GLN:HB2	15	0.26
(1,892)	1:153:A:SER:H	1:158:A:GLN:HB3	15	0.26
(1,433)	1:79:A:ALA:HA	1:80:A:GLY:H	3	0.26
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB2	18	0.26
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB3	18	0.26
(1,299)	1:49:A:GLN:H	1:58:A:THR:HB	17	0.26
(1,3910)	1:85:A:ALA:HA	1:86:A:TYR:HD1	12	0.25
(1,3909)	1:74:A:VAL:HB	1:86:A:TYR:HE2	6	0.25
(1,3833)	1:113:A:LEU:HA	1:113:A:LEU:HD11	16	0.25
(1,3820)	1:101:A:ASN:HB2	1:104:A:ASN:HB3	14	0.25
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB3	9	0.25
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG22	4	0.25
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG23	7	0.25
(1,3766)	1:129:A:ILE:HG13	1:120:A:VAL:HG12	16	0.25
(1,3683)	1:56:A:ALA:HB3	1:50:A:ARG:HA	19	0.25
(1,3655)	1:87:A:ALA:HB3	1:39:A:VAL:HA	5	0.25
(1,3649)	1:129:A:ILE:HG22	1:131:A:VAL:H	7	0.25
(1,3559)	1:156:A:TYR:HA	1:157:A:SER:HB2	6	0.25
(1,3535)	1:96:A:ASN:HB2	1:105:A:ILE:HD13	15	0.25
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD12	16	0.25
(1,3529)	1:69:A:PHE:H	1:72:A:GLN:HG3	8	0.25
(1,3518)	1:116:A:LEU:HA	1:55:A:LEU:HD11	2	0.25
(1,3476)	1:56:A:ALA:HB1	1:48:A:VAL:HA	17	0.25
(1,3465)	1:56:A:ALA:HB1	1:48:A:VAL:HA	17	0.25
(1,3437)	1:101:A:ASN:HB3	1:194:A:GLN:HG3	15	0.25
(1,3398)	1:70:A:ALA:H	1:68:A:ARG:HA	1	0.25
(1,3386)	1:13:A:ALA:HB1	1:14:A:SER:HA	2	0.25
(1,3251)	1:71:A:VAL:HB	1:51:A:ALA:HB1	12	0.25
(1,3232)	1:96:A:ASN:HB2	1:105:A:ILE:HD13	15	0.25
(1,3232)	1:96:A:ASN:HB3	1:105:A:ILE:HD12	16	0.25
(1,3146)	1:25:A:LEU:HD11	1:178:A:GLY:HA2	17	0.25
(1,3146)	1:25:A:LEU:HD11	1:178:A:GLY:HA3	17	0.25
(1,3146)	1:25:A:LEU:HD12	1:178:A:GLY:HA2	17	0.25
(1,3146)	1:25:A:LEU:HD12	1:178:A:GLY:HA3	17	0.25
(1,3146)	1:25:A:LEU:HD13	1:178:A:GLY:HA2	17	0.25
(1,3146)	1:25:A:LEU:HD13	1:178:A:GLY:HA3	17	0.25
(1,3146)	1:25:A:LEU:HD21	1:178:A:GLY:HA2	17	0.25
(1,3146)	1:25:A:LEU:HD21	1:178:A:GLY:HA3	17	0.25
(1,3146)	1:25:A:LEU:HD22	1:178:A:GLY:HA2	17	0.25
(1,3146)	1:25:A:LEU:HD22	1:178:A:GLY:HA3	17	0.25
(1,3146)	1:25:A:LEU:HD23	1:178:A:GLY:HA2	17	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3146)	1:25:A:LEU:HD23	1:178:A:GLY:HA3	17	0.25
(1,3091)	1:25:A:LEU:HD11	1:149:A:THR:HG21	5	0.25
(1,3091)	1:25:A:LEU:HD11	1:149:A:THR:HG22	5	0.25
(1,3091)	1:25:A:LEU:HD11	1:149:A:THR:HG23	5	0.25
(1,3091)	1:25:A:LEU:HD12	1:149:A:THR:HG21	5	0.25
(1,3091)	1:25:A:LEU:HD12	1:149:A:THR:HG22	5	0.25
(1,3091)	1:25:A:LEU:HD12	1:149:A:THR:HG23	5	0.25
(1,3091)	1:25:A:LEU:HD13	1:149:A:THR:HG21	5	0.25
(1,3091)	1:25:A:LEU:HD13	1:149:A:THR:HG22	5	0.25
(1,3091)	1:25:A:LEU:HD13	1:149:A:THR:HG23	5	0.25
(1,3091)	1:25:A:LEU:HD21	1:149:A:THR:HG21	5	0.25
(1,3091)	1:25:A:LEU:HD21	1:149:A:THR:HG22	5	0.25
(1,3091)	1:25:A:LEU:HD21	1:149:A:THR:HG23	5	0.25
(1,3091)	1:25:A:LEU:HD22	1:149:A:THR:HG21	5	0.25
(1,3091)	1:25:A:LEU:HD22	1:149:A:THR:HG22	5	0.25
(1,3091)	1:25:A:LEU:HD22	1:149:A:THR:HG23	5	0.25
(1,3091)	1:25:A:LEU:HD23	1:149:A:THR:HG21	5	0.25
(1,3091)	1:25:A:LEU:HD23	1:149:A:THR:HG22	5	0.25
(1,3091)	1:25:A:LEU:HD23	1:149:A:THR:HG23	5	0.25
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB1	10	0.25
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB2	10	0.25
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB3	10	0.25
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB1	10	0.25
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB2	10	0.25
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB3	10	0.25
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB1	10	0.25
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB2	10	0.25
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB3	10	0.25
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB1	10	0.25
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB2	10	0.25
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB3	10	0.25
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB1	10	0.25
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB2	10	0.25
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB3	10	0.25
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB1	10	0.25
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB2	10	0.25
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB3	10	0.25
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD2	7	0.25
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD3	7	0.25
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD11	15	0.25
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD12	15	0.25
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD13	15	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD21	15	0.25
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD22	15	0.25
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD23	15	0.25
(1,2112)	1:41:A:GLN:HE21	1:45:A:SER:HA	6	0.25
(1,2112)	1:41:A:GLN:HE22	1:45:A:SER:HA	6	0.25
(1,1578)	1:105:A:ILE:HA	1:107:A:THR:H	4	0.25
(1,1168)	1:22:A:ALA:H	1:99:A:VAL:HG11	13	0.25
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG21	14	0.25
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG22	10	0.25
(1,1148)	1:134:A:GLY:H	1:67:A:ALA:HA	18	0.25
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB2	18	0.25
(1,1119)	1:97:A:ALA:H	1:96:A:ASN:HB3	16	0.25
(1,1113)	1:65:A:ASN:HD21	1:47:A:VAL:HB	5	0.25
(1,1107)	1:109:A:GLY:H	1:112:A:VAL:HB	15	0.25
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB1	7	0.25
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB1	18	0.25
(1,1066)	1:174:A:GLY:H	1:171:A:GLY:HA3	5	0.25
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	19	0.25
(1,989)	1:110:A:SER:H	1:108:A:LEU:HG	15	0.25
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG22	9	0.25
(1,927)	1:179:A:PRO:HD2	1:187:A:GLY:H	17	0.25
(1,927)	1:179:A:PRO:HD3	1:187:A:GLY:H	17	0.25
(1,920)	1:149:A:THR:HB	1:180:A:SER:H	3	0.25
(1,917)	1:161:A:ALA:H	1:177:A:THR:HB	20	0.25
(1,914)	1:170:A:THR:H	1:175:A:PRO:HD2	9	0.25
(1,914)	1:170:A:THR:H	1:175:A:PRO:HD3	9	0.25
(1,688)	1:10:A:THR:H	1:116:A:LEU:HB2	14	0.25
(1,688)	1:10:A:THR:H	1:116:A:LEU:HB3	14	0.25
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB2	13	0.24
(1,3791)	1:44:A:ALA:HB1	1:74:A:VAL:HA	3	0.24
(1,3785)	1:158:A:GLN:HB2	1:159:A:ALA:HB2	2	0.24
(1,3766)	1:129:A:ILE:HG13	1:120:A:VAL:HG12	3	0.24
(1,3748)	1:36:A:ARG:HD3	1:91:A:SER:HB3	14	0.24
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	18	0.24
(1,3706)	1:88:A:GLN:HE22	1:35:A:LEU:HD21	16	0.24
(1,3645)	1:94:A:LEU:HD11	1:40:A:SER:H	17	0.24
(1,3640)	1:172:A:PRO:HB2	1:173:A:SER:HB3	11	0.24
(1,3623)	1:140:A:ILE:HD12	1:95:A:PHE:HE1	13	0.24
(1,3606)	1:35:A:LEU:HD21	1:88:A:GLN:HE22	16	0.24
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG21	13	0.24
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD12	5	0.24
(1,3520)	1:129:A:ILE:HG13	1:50:A:ARG:HG2	8	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3470)	1:100:A:LEU:HD13	1:105:A:ILE:HG12	19	0.24
(1,3434)	1:135:A:SER:HA	1:139:A:ASP:HB2	7	0.24
(1,3416)	1:37:A:THR:HG22	1:129:A:ILE:HD12	1	0.24
(1,3413)	1:100:A:LEU:HD12	1:195:A:SER:HB2	4	0.24
(1,3386)	1:13:A:ALA:HB2	1:14:A:SER:HA	6	0.24
(1,3386)	1:13:A:ALA:HB1	1:14:A:SER:HA	7	0.24
(1,3386)	1:13:A:ALA:HB1	1:14:A:SER:HA	20	0.24
(1,3352)	1:61:A:VAL:HG22	1:58:A:THR:HB	17	0.24
(1,3344)	1:93:A:ALA:HB1	1:105:A:ILE:HD13	15	0.24
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG12	17	0.24
(1,3232)	1:96:A:ASN:HB3	1:105:A:ILE:HD12	5	0.24
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD22	3	0.24
(1,3187)	1:186:A:LEU:HD11	1:191:A:PRO:HD2	19	0.24
(1,3187)	1:186:A:LEU:HD11	1:191:A:PRO:HD3	19	0.24
(1,3187)	1:186:A:LEU:HD12	1:191:A:PRO:HD2	19	0.24
(1,3187)	1:186:A:LEU:HD12	1:191:A:PRO:HD3	19	0.24
(1,3187)	1:186:A:LEU:HD13	1:191:A:PRO:HD2	19	0.24
(1,3187)	1:186:A:LEU:HD13	1:191:A:PRO:HD3	19	0.24
(1,3187)	1:186:A:LEU:HD21	1:191:A:PRO:HD2	19	0.24
(1,3187)	1:186:A:LEU:HD21	1:191:A:PRO:HD3	19	0.24
(1,3187)	1:186:A:LEU:HD22	1:191:A:PRO:HD2	19	0.24
(1,3187)	1:186:A:LEU:HD22	1:191:A:PRO:HD3	19	0.24
(1,3187)	1:186:A:LEU:HD23	1:191:A:PRO:HD2	19	0.24
(1,3187)	1:186:A:LEU:HD23	1:191:A:PRO:HD3	19	0.24
(1,3168)	1:178:A:GLY:HA2	1:190:A:ALA:HB1	19	0.24
(1,3168)	1:178:A:GLY:HA2	1:190:A:ALA:HB2	19	0.24
(1,3168)	1:178:A:GLY:HA2	1:190:A:ALA:HB3	19	0.24
(1,3168)	1:178:A:GLY:HA3	1:190:A:ALA:HB1	19	0.24
(1,3168)	1:178:A:GLY:HA3	1:190:A:ALA:HB2	19	0.24
(1,3168)	1:178:A:GLY:HA3	1:190:A:ALA:HB3	19	0.24
(1,3132)	1:161:A:ALA:HB1	1:175:A:PRO:HB2	5	0.24
(1,3132)	1:161:A:ALA:HB1	1:175:A:PRO:HB3	5	0.24
(1,3132)	1:161:A:ALA:HB2	1:175:A:PRO:HB2	5	0.24
(1,3132)	1:161:A:ALA:HB2	1:175:A:PRO:HB3	5	0.24
(1,3132)	1:161:A:ALA:HB3	1:175:A:PRO:HB2	5	0.24
(1,3132)	1:161:A:ALA:HB3	1:175:A:PRO:HB3	5	0.24
(1,3087)	1:148:A:SER:HB2	1:149:A:THR:HB	11	0.24
(1,3087)	1:148:A:SER:HB3	1:149:A:THR:HB	11	0.24
(1,2970)	1:37:A:THR:HA	1:131:A:VAL:HB	9	0.24
(1,2558)	1:21:A:VAL:HG11	1:93:A:ALA:HA	5	0.24
(1,2558)	1:21:A:VAL:HG12	1:93:A:ALA:HA	5	0.24
(1,2558)	1:21:A:VAL:HG13	1:93:A:ALA:HA	5	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2558)	1:21:A:VAL:HG21	1:93:A:ALA:HA	5	0.24
(1,2558)	1:21:A:VAL:HG22	1:93:A:ALA:HA	5	0.24
(1,2558)	1:21:A:VAL:HG23	1:93:A:ALA:HA	5	0.24
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG21	10	0.24
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG22	10	0.24
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG23	10	0.24
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG21	10	0.24
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG22	10	0.24
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG23	10	0.24
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG21	10	0.24
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG22	10	0.24
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG23	10	0.24
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG21	10	0.24
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG22	10	0.24
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG23	10	0.24
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG21	10	0.24
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG22	10	0.24
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG23	10	0.24
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG21	10	0.24
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG22	10	0.24
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG23	10	0.24
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	13	0.24
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	13	0.24
(1,2112)	1:41:A:GLN:HE21	1:45:A:SER:HA	15	0.24
(1,2112)	1:41:A:GLN:HE22	1:45:A:SER:HA	15	0.24
(1,2094)	1:1:A:ALA:HB1	1:43:A:ILE:HA	9	0.24
(1,2094)	1:1:A:ALA:HB2	1:43:A:ILE:HA	9	0.24
(1,2094)	1:1:A:ALA:HB3	1:43:A:ILE:HA	9	0.24
(1,1756)	1:130:A:ASN:HB3	1:130:A:ASN:H	17	0.24
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG23	11	0.24
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG23	8	0.24
(1,1157)	1:121:A:SER:H	1:123:A:ALA:HB3	18	0.24
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB2	2	0.24
(1,1138)	1:76:A:ARG:HB2	1:74:A:VAL:H	8	0.24
(1,1119)	1:97:A:ALA:H	1:96:A:ASN:HB3	6	0.24
(1,1096)	1:96:A:ASN:H	1:124:A:ALA:HB2	19	0.24
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB2	4	0.24
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB1	10	0.24
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	7	0.24
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	13	0.24
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG22	11	0.24
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG23	15	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	10	0.24
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	18	0.24
(1,952)	1:104:A:ASN:HD22	1:109:A:GLY:HA3	1	0.24
(1,925)	1:185:A:PRO:HG2	1:186:A:LEU:H	11	0.24
(1,925)	1:185:A:PRO:HG3	1:186:A:LEU:H	11	0.24
(1,815)	1:132:A:ASP:HB2	1:135:A:SER:H	2	0.24
(1,815)	1:132:A:ASP:HB3	1:135:A:SER:H	2	0.24
(1,807)	1:133:A:SER:H	1:134:A:GLY:H	19	0.24
(1,788)	1:129:A:ILE:HB	1:130:A:ASN:H	20	0.24
(1,326)	1:64:A:ASN:H	1:64:A:ASN:HD21	8	0.24
(1,326)	1:64:A:ASN:H	1:64:A:ASN:HD22	8	0.24
(1,3910)	1:85:A:ALA:HA	1:86:A:TYR:HD1	18	0.23
(1,3907)	1:77:A:LEU:HD11	1:86:A:TYR:HD2	2	0.23
(1,3907)	1:77:A:LEU:HD21	1:86:A:TYR:HD1	20	0.23
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB2	14	0.23
(1,3863)	1:129:A:ILE:HG13	1:55:A:LEU:HD11	15	0.23
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB2	6	0.23
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB3	6	0.23
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB2	7	0.23
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG21	10	0.23
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG21	7	0.23
(1,3735)	1:48:A:VAL:HG21	1:46:A:SER:H	10	0.23
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	5	0.23
(1,3683)	1:56:A:ALA:HB1	1:50:A:ARG:HA	5	0.23
(1,3657)	1:77:A:LEU:HD13	1:73:A:ALA:HA	10	0.23
(1,3655)	1:87:A:ALA:HB1	1:35:A:LEU:HA	3	0.23
(1,3654)	1:39:A:VAL:HG13	1:38:A:GLY:HA2	11	0.23
(1,3654)	1:39:A:VAL:HG12	1:38:A:GLY:HA2	14	0.23
(1,3554)	1:13:A:ALA:HB1	1:104:A:ASN:HB2	18	0.23
(1,3530)	1:42:A:GLN:H	1:41:A:GLN:HB2	12	0.23
(1,3509)	1:170:A:THR:HA	1:170:A:THR:HB	1	0.23
(1,3509)	1:10:A:THR:HA	1:10:A:THR:HB	3	0.23
(1,3473)	1:21:A:VAL:HG21	1:92:A:SER:HA	4	0.23
(1,3466)	1:7:A:PHE:HA	1:8:A:GLY:HA2	6	0.23
(1,3430)	1:50:A:ARG:HD3	1:124:A:ALA:HB2	15	0.23
(1,3381)	1:177:A:THR:HG23	1:179:A:PRO:HD3	18	0.23
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB3	12	0.23
(1,3344)	1:93:A:ALA:HB1	1:105:A:ILE:HD13	14	0.23
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG23	11	0.23
(1,3338)	1:112:A:VAL:HG21	1:111:A:ARG:HD3	7	0.23
(1,3334)	1:25:A:LEU:HA	1:190:A:ALA:HA	14	0.23
(1,3307)	1:28:A:THR:HB	1:140:A:ILE:HG22	8	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3268)	1:9:A:ALA:HA	1:113:A:LEU:HG	6	0.23
(1,3150)	1:182:A:TYR:HB2	1:183:A:PRO:HB2	17	0.23
(1,3150)	1:182:A:TYR:HB2	1:183:A:PRO:HB3	17	0.23
(1,3150)	1:182:A:TYR:HB3	1:183:A:PRO:HB2	17	0.23
(1,3150)	1:182:A:TYR:HB3	1:183:A:PRO:HB3	17	0.23
(1,3110)	1:156:A:TYR:HB2	1:159:A:ALA:HB1	8	0.23
(1,3110)	1:156:A:TYR:HB2	1:159:A:ALA:HB2	8	0.23
(1,3110)	1:156:A:TYR:HB2	1:159:A:ALA:HB3	8	0.23
(1,3110)	1:156:A:TYR:HB3	1:159:A:ALA:HB1	8	0.23
(1,3110)	1:156:A:TYR:HB3	1:159:A:ALA:HB2	8	0.23
(1,3110)	1:156:A:TYR:HB3	1:159:A:ALA:HB3	8	0.23
(1,3090)	1:27:A:ASN:HB2	1:149:A:THR:HG21	3	0.23
(1,3090)	1:27:A:ASN:HB2	1:149:A:THR:HG22	3	0.23
(1,3090)	1:27:A:ASN:HB2	1:149:A:THR:HG23	3	0.23
(1,3090)	1:27:A:ASN:HB3	1:149:A:THR:HG21	3	0.23
(1,3090)	1:27:A:ASN:HB3	1:149:A:THR:HG22	3	0.23
(1,3090)	1:27:A:ASN:HB3	1:149:A:THR:HG23	3	0.23
(1,3082)	1:147:A:LEU:HB2	1:148:A:SER:HB2	5	0.23
(1,3082)	1:147:A:LEU:HB2	1:148:A:SER:HB3	5	0.23
(1,3082)	1:147:A:LEU:HB3	1:148:A:SER:HB2	5	0.23
(1,3082)	1:147:A:LEU:HB3	1:148:A:SER:HB3	5	0.23
(1,2981)	1:71:A:VAL:HB	1:134:A:GLY:HA2	7	0.23
(1,2981)	1:71:A:VAL:HB	1:134:A:GLY:HA3	7	0.23
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB2	20	0.23
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB3	20	0.23
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB2	20	0.23
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB3	20	0.23
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB2	20	0.23
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB3	20	0.23
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB2	20	0.23
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB3	20	0.23
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB2	20	0.23
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB3	20	0.23
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB2	20	0.23
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB3	20	0.23
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB2	7	0.23
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB3	7	0.23
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB2	7	0.23
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB3	7	0.23
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB2	17	0.23
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB3	17	0.23
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB2	17	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB3	17	0.23
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB2	2	0.23
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB3	2	0.23
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB2	2	0.23
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB3	2	0.23
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB2	2	0.23
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB3	2	0.23
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB2	2	0.23
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB3	2	0.23
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB2	2	0.23
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB3	2	0.23
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB2	2	0.23
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB3	2	0.23
(1,2496)	1:35:A:LEU:HD11	1:86:A:TYR:HD1	3	0.23
(1,2496)	1:35:A:LEU:HD11	1:86:A:TYR:HD2	3	0.23
(1,2496)	1:35:A:LEU:HD12	1:86:A:TYR:HD1	3	0.23
(1,2496)	1:35:A:LEU:HD12	1:86:A:TYR:HD2	3	0.23
(1,2496)	1:35:A:LEU:HD13	1:86:A:TYR:HD1	3	0.23
(1,2496)	1:35:A:LEU:HD13	1:86:A:TYR:HD2	3	0.23
(1,2496)	1:35:A:LEU:HD21	1:86:A:TYR:HD1	3	0.23
(1,2496)	1:35:A:LEU:HD21	1:86:A:TYR:HD2	3	0.23
(1,2496)	1:35:A:LEU:HD22	1:86:A:TYR:HD1	3	0.23
(1,2496)	1:35:A:LEU:HD22	1:86:A:TYR:HD2	3	0.23
(1,2496)	1:35:A:LEU:HD23	1:86:A:TYR:HD1	3	0.23
(1,2496)	1:35:A:LEU:HD23	1:86:A:TYR:HD2	3	0.23
(1,2176)	1:50:A:ARG:HD2	1:54:A:SER:HA	20	0.23
(1,2176)	1:50:A:ARG:HD3	1:54:A:SER:HA	20	0.23
(1,1945)	1:29:A:SER:HB2	1:30:A:THR:HG21	14	0.23
(1,1945)	1:29:A:SER:HB2	1:30:A:THR:HG22	14	0.23
(1,1945)	1:29:A:SER:HB2	1:30:A:THR:HG23	14	0.23
(1,1945)	1:29:A:SER:HB3	1:30:A:THR:HG21	14	0.23
(1,1945)	1:29:A:SER:HB3	1:30:A:THR:HG22	14	0.23
(1,1945)	1:29:A:SER:HB3	1:30:A:THR:HG23	14	0.23
(1,1904)	1:20:A:ARG:HA	1:24:A:ALA:HA	17	0.23
(1,1824)	1:4:A:GLN:HG2	1:7:A:PHE:HB2	1	0.23
(1,1824)	1:4:A:GLN:HG2	1:7:A:PHE:HB3	1	0.23
(1,1824)	1:4:A:GLN:HG3	1:7:A:PHE:HB2	1	0.23
(1,1824)	1:4:A:GLN:HG3	1:7:A:PHE:HB3	1	0.23
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG23	6	0.23
(1,1168)	1:22:A:ALA:H	1:99:A:VAL:HG12	6	0.23
(1,1168)	1:22:A:ALA:H	1:99:A:VAL:HG11	7	0.23
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG21	16	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG22	18	0.23
(1,1157)	1:121:A:SER:H	1:123:A:ALA:HB1	13	0.23
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	16	0.23
(1,1133)	1:42:A:GLN:H	1:44:A:ALA:HB1	16	0.23
(1,1091)	1:104:A:ASN:H	1:105:A:ILE:HD13	17	0.23
(1,1087)	1:64:A:ASN:H	1:66:A:LEU:HA	9	0.23
(1,1087)	1:64:A:ASN:H	1:66:A:LEU:HA	15	0.23
(1,1074)	1:70:A:ALA:H	1:73:A:ALA:HB2	1	0.23
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	2	0.23
(1,1065)	1:111:A:ARG:HB2	1:111:A:ARG:HE	16	0.23
(1,1054)	1:56:A:ALA:H	1:55:A:LEU:HD21	1	0.23
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	4	0.23
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	20	0.23
(1,610)	1:101:A:ASN:HD21	1:105:A:ILE:H	2	0.23
(1,610)	1:101:A:ASN:HD22	1:105:A:ILE:H	2	0.23
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB2	2	0.23
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB3	2	0.23
(1,141)	1:29:A:SER:H	1:32:A:ARG:HD2	17	0.23
(1,141)	1:29:A:SER:H	1:32:A:ARG:HD3	17	0.23
(1,3910)	1:85:A:ALA:HA	1:86:A:TYR:HD1	7	0.22
(1,3844)	1:175:A:PRO:HD2	1:177:A:THR:HB	12	0.22
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB2	20	0.22
(1,3793)	1:48:A:VAL:HG21	1:65:A:ASN:HD22	18	0.22
(1,3791)	1:44:A:ALA:HB2	1:74:A:VAL:HA	14	0.22
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG23	2	0.22
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG21	12	0.22
(1,3657)	1:77:A:LEU:HD13	1:73:A:ALA:HA	7	0.22
(1,3654)	1:39:A:VAL:HG13	1:38:A:GLY:HA2	18	0.22
(1,3647)	1:35:A:LEU:HG	1:131:A:VAL:HG23	16	0.22
(1,3586)	1:86:A:TYR:HB3	1:77:A:LEU:HD22	10	0.22
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG23	18	0.22
(1,3509)	1:170:A:THR:HA	1:170:A:THR:HB	17	0.22
(1,3490)	1:17:A:LEU:HD13	1:20:A:ARG:HB2	4	0.22
(1,3472)	1:78:A:PRO:HG2	1:77:A:LEU:HD13	20	0.22
(1,3405)	1:18:A:ILE:HG13	1:89:A:ALA:HB1	10	0.22
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD12	10	0.22
(1,3353)	1:119:A:GLY:HA3	1:117:A:LEU:HA	13	0.22
(1,3352)	1:61:A:VAL:HG21	1:58:A:THR:HB	3	0.22
(1,3352)	1:61:A:VAL:HG21	1:58:A:THR:HB	4	0.22
(1,3352)	1:61:A:VAL:HG22	1:58:A:THR:HB	20	0.22
(1,3322)	1:108:A:LEU:HD22	1:107:A:THR:HB	4	0.22
(1,3287)	1:122:A:SER:HB2	1:121:A:SER:HB2	7	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG12	3	0.22
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG11	9	0.22
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG21	14	0.22
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD23	18	0.22
(1,3198)	1:190:A:ALA:HB1	1:194:A:GLN:HB2	11	0.22
(1,3198)	1:190:A:ALA:HB1	1:194:A:GLN:HB3	11	0.22
(1,3198)	1:190:A:ALA:HB2	1:194:A:GLN:HB2	11	0.22
(1,3198)	1:190:A:ALA:HB2	1:194:A:GLN:HB3	11	0.22
(1,3198)	1:190:A:ALA:HB3	1:194:A:GLN:HB2	11	0.22
(1,3198)	1:190:A:ALA:HB3	1:194:A:GLN:HB3	11	0.22
(1,3170)	1:185:A:PRO:HB2	1:190:A:ALA:HB1	3	0.22
(1,3170)	1:185:A:PRO:HB2	1:190:A:ALA:HB2	3	0.22
(1,3170)	1:185:A:PRO:HB2	1:190:A:ALA:HB3	3	0.22
(1,3170)	1:185:A:PRO:HB3	1:190:A:ALA:HB1	3	0.22
(1,3170)	1:185:A:PRO:HB3	1:190:A:ALA:HB2	3	0.22
(1,3170)	1:185:A:PRO:HB3	1:190:A:ALA:HB3	3	0.22
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD2	4	0.22
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD3	4	0.22
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD2	4	0.22
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD3	4	0.22
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD2	5	0.22
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD3	5	0.22
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD2	5	0.22
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD3	5	0.22
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	9	0.22
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	9	0.22
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	9	0.22
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	9	0.22
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	9	0.22
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	9	0.22
(1,2217)	1:56:A:ALA:HB1	1:58:A:THR:HB	11	0.22
(1,2217)	1:56:A:ALA:HB2	1:58:A:THR:HB	11	0.22
(1,2217)	1:56:A:ALA:HB3	1:58:A:THR:HB	11	0.22
(1,2163)	1:50:A:ARG:HD2	1:52:A:ALA:HA	15	0.22
(1,2163)	1:50:A:ARG:HD3	1:52:A:ALA:HA	15	0.22
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	5	0.22
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	5	0.22
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	14	0.22
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	14	0.22
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG21	12	0.22
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG11	8	0.22
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1087)	1:64:A:ASN:H	1:66:A:LEU:HA	3	0.22
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD12	4	0.22
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	9	0.22
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	10	0.22
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	19	0.22
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB3	20	0.22
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	5	0.22
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	15	0.22
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	20	0.22
(1,1031)	1:170:A:THR:HA	1:169:A:TYR:H	16	0.22
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	18	0.22
(1,975)	1:60:A:GLY:HA3	1:62:A:ASP:H	1	0.22
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA2	20	0.22
(1,961)	1:10:A:THR:H	1:117:A:LEU:H	13	0.22
(1,960)	1:67:A:ALA:H	1:70:A:ALA:HB2	1	0.22
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	14	0.22
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	12	0.22
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG21	3	0.22
(1,949)	1:55:A:LEU:H	1:129:A:ILE:HD11	9	0.22
(1,875)	1:148:A:SER:HB2	1:149:A:THR:H	9	0.22
(1,875)	1:148:A:SER:HB3	1:149:A:THR:H	9	0.22
(1,815)	1:132:A:ASP:HB2	1:135:A:SER:H	8	0.22
(1,815)	1:132:A:ASP:HB3	1:135:A:SER:H	8	0.22
(1,788)	1:129:A:ILE:HB	1:130:A:ASN:H	14	0.22
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG11	18	0.22
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG12	18	0.22
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG13	18	0.22
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG21	18	0.22
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG22	18	0.22
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG23	18	0.22
(1,236)	1:47:A:VAL:HG11	1:48:A:VAL:H	5	0.22
(1,236)	1:47:A:VAL:HG12	1:48:A:VAL:H	5	0.22
(1,236)	1:47:A:VAL:HG13	1:48:A:VAL:H	5	0.22
(1,236)	1:47:A:VAL:HG21	1:48:A:VAL:H	5	0.22
(1,236)	1:47:A:VAL:HG22	1:48:A:VAL:H	5	0.22
(1,236)	1:47:A:VAL:HG23	1:48:A:VAL:H	5	0.22
(1,3911)	1:18:A:ILE:HG22	1:90:A:PHE:HE1	11	0.21
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD1	19	0.21
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD2	19	0.21
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD1	19	0.21
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD2	19	0.21
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD1	19	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD2	19	0.21
(1,3833)	1:113:A:LEU:HA	1:113:A:LEU:HD13	13	0.21
(1,3772)	1:55:A:LEU:H	1:55:A:LEU:HD23	15	0.21
(1,3763)	1:41:A:GLN:HB2	1:45:A:SER:HB3	1	0.21
(1,3756)	1:156:A:TYR:HB2	1:157:A:SER:HA	1	0.21
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	5	0.21
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB2	15	0.21
(1,3683)	1:56:A:ALA:HB1	1:50:A:ARG:HA	12	0.21
(1,3683)	1:56:A:ALA:HB2	1:50:A:ARG:HA	16	0.21
(1,3657)	1:77:A:LEU:HD23	1:73:A:ALA:HA	2	0.21
(1,3654)	1:39:A:VAL:HG11	1:38:A:GLY:HA2	15	0.21
(1,3654)	1:39:A:VAL:HG11	1:38:A:GLY:HA2	20	0.21
(1,3652)	1:118:A:ASN:HD22	1:114:A:SER:HB3	16	0.21
(1,3649)	1:129:A:ILE:HG21	1:131:A:VAL:H	1	0.21
(1,3649)	1:129:A:ILE:HG21	1:131:A:VAL:H	16	0.21
(1,3604)	1:57:A:SER:HA	1:53:A:GLN:HB3	20	0.21
(1,3587)	1:96:A:ASN:HB2	1:124:A:ALA:HB2	8	0.21
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG23	19	0.21
(1,3537)	1:39:A:VAL:H	1:129:A:ILE:HG23	7	0.21
(1,3530)	1:42:A:GLN:H	1:41:A:GLN:HB2	16	0.21
(1,3516)	1:58:A:THR:HA	1:59:A:LEU:HG	5	0.21
(1,3455)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	19	0.21
(1,3430)	1:50:A:ARG:HD3	1:56:A:ALA:HB1	4	0.21
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD11	18	0.21
(1,3421)	1:22:A:ALA:HA	1:191:A:PRO:HD2	14	0.21
(1,3413)	1:99:A:VAL:HG13	1:195:A:SER:HB3	2	0.21
(1,3413)	1:100:A:LEU:HD11	1:195:A:SER:HB2	10	0.21
(1,3405)	1:18:A:ILE:HG13	1:89:A:ALA:HB3	19	0.21
(1,3400)	1:140:A:ILE:HD13	1:37:A:THR:HB	3	0.21
(1,3398)	1:70:A:ALA:H	1:68:A:ARG:HA	3	0.21
(1,3398)	1:71:A:VAL:H	1:68:A:ARG:HA	5	0.21
(1,3386)	1:13:A:ALA:HB3	1:14:A:SER:HA	9	0.21
(1,3386)	1:13:A:ALA:HB1	1:14:A:SER:HA	14	0.21
(1,3386)	1:13:A:ALA:HB1	1:14:A:SER:HA	18	0.21
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG21	6	0.21
(1,3339)	1:65:A:ASN:HB2	1:61:A:VAL:HG21	12	0.21
(1,3285)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	19	0.21
(1,3187)	1:186:A:LEU:HD11	1:191:A:PRO:HD2	7	0.21
(1,3187)	1:186:A:LEU:HD11	1:191:A:PRO:HD3	7	0.21
(1,3187)	1:186:A:LEU:HD12	1:191:A:PRO:HD2	7	0.21
(1,3187)	1:186:A:LEU:HD12	1:191:A:PRO:HD3	7	0.21
(1,3187)	1:186:A:LEU:HD13	1:191:A:PRO:HD2	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3187)	1:186:A:LEU:HD13	1:191:A:PRO:HD3	7	0.21
(1,3187)	1:186:A:LEU:HD21	1:191:A:PRO:HD2	7	0.21
(1,3187)	1:186:A:LEU:HD21	1:191:A:PRO:HD3	7	0.21
(1,3187)	1:186:A:LEU:HD22	1:191:A:PRO:HD2	7	0.21
(1,3187)	1:186:A:LEU:HD22	1:191:A:PRO:HD3	7	0.21
(1,3187)	1:186:A:LEU:HD23	1:191:A:PRO:HD2	7	0.21
(1,3187)	1:186:A:LEU:HD23	1:191:A:PRO:HD3	7	0.21
(1,3187)	1:186:A:LEU:HD11	1:191:A:PRO:HD2	18	0.21
(1,3187)	1:186:A:LEU:HD11	1:191:A:PRO:HD3	18	0.21
(1,3187)	1:186:A:LEU:HD12	1:191:A:PRO:HD2	18	0.21
(1,3187)	1:186:A:LEU:HD12	1:191:A:PRO:HD3	18	0.21
(1,3187)	1:186:A:LEU:HD13	1:191:A:PRO:HD2	18	0.21
(1,3187)	1:186:A:LEU:HD13	1:191:A:PRO:HD3	18	0.21
(1,3187)	1:186:A:LEU:HD21	1:191:A:PRO:HD2	18	0.21
(1,3187)	1:186:A:LEU:HD21	1:191:A:PRO:HD3	18	0.21
(1,3187)	1:186:A:LEU:HD22	1:191:A:PRO:HD2	18	0.21
(1,3187)	1:186:A:LEU:HD22	1:191:A:PRO:HD3	18	0.21
(1,3187)	1:186:A:LEU:HD23	1:191:A:PRO:HD2	18	0.21
(1,3187)	1:186:A:LEU:HD23	1:191:A:PRO:HD3	18	0.21
(1,3185)	1:20:A:ARG:HD2	1:191:A:PRO:HA	7	0.21
(1,3185)	1:20:A:ARG:HD3	1:191:A:PRO:HA	7	0.21
(1,3136)	1:163:A:SER:HB2	1:175:A:PRO:HD2	3	0.21
(1,3136)	1:163:A:SER:HB2	1:175:A:PRO:HD3	3	0.21
(1,3136)	1:163:A:SER:HB3	1:175:A:PRO:HD2	3	0.21
(1,3136)	1:163:A:SER:HB3	1:175:A:PRO:HD3	3	0.21
(1,3103)	1:157:A:SER:HB2	1:158:A:GLN:HG2	13	0.21
(1,3103)	1:157:A:SER:HB2	1:158:A:GLN:HG3	13	0.21
(1,3103)	1:157:A:SER:HB3	1:158:A:GLN:HG2	13	0.21
(1,3103)	1:157:A:SER:HB3	1:158:A:GLN:HG3	13	0.21
(1,3095)	1:146:A:PHE:HB2	1:150:A:SER:HA	3	0.21
(1,3095)	1:146:A:PHE:HB3	1:150:A:SER:HA	3	0.21
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG21	18	0.21
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG22	18	0.21
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG23	18	0.21
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG21	18	0.21
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG22	18	0.21
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG23	18	0.21
(1,3082)	1:147:A:LEU:HB2	1:148:A:SER:HB2	1	0.21
(1,3082)	1:147:A:LEU:HB2	1:148:A:SER:HB3	1	0.21
(1,3082)	1:147:A:LEU:HB3	1:148:A:SER:HB2	1	0.21
(1,3082)	1:147:A:LEU:HB3	1:148:A:SER:HB3	1	0.21
(1,3082)	1:147:A:LEU:HB2	1:148:A:SER:HB2	14	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3082)	1:147:A:LEU:HB2	1:148:A:SER:HB3	14	0.21
(1,3082)	1:147:A:LEU:HB3	1:148:A:SER:HB2	14	0.21
(1,3082)	1:147:A:LEU:HB3	1:148:A:SER:HB3	14	0.21
(1,2885)	1:55:A:LEU:HA	1:123:A:ALA:HB1	4	0.21
(1,2885)	1:55:A:LEU:HA	1:123:A:ALA:HB2	4	0.21
(1,2885)	1:55:A:LEU:HA	1:123:A:ALA:HB3	4	0.21
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB1	7	0.21
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB2	7	0.21
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB3	7	0.21
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB1	7	0.21
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB2	7	0.21
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB3	7	0.21
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB1	7	0.21
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB2	7	0.21
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB3	7	0.21
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB1	7	0.21
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB2	7	0.21
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB3	7	0.21
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB1	7	0.21
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB2	7	0.21
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB3	7	0.21
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB1	7	0.21
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB2	7	0.21
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB3	7	0.21
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD11	1	0.21
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD12	1	0.21
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD13	1	0.21
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD21	1	0.21
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD22	1	0.21
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD23	1	0.21
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD11	1	0.21
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD12	1	0.21
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD13	1	0.21
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD21	1	0.21
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD22	1	0.21
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD23	1	0.21
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD11	1	0.21
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD12	1	0.21
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD13	1	0.21
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD21	1	0.21
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD22	1	0.21
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD23	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD11	12	0.21
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD12	12	0.21
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD13	12	0.21
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD21	12	0.21
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD22	12	0.21
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD23	12	0.21
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD11	12	0.21
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD12	12	0.21
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD13	12	0.21
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD21	12	0.21
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD22	12	0.21
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD23	12	0.21
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD11	12	0.21
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD12	12	0.21
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD13	12	0.21
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD21	12	0.21
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD22	12	0.21
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD23	12	0.21
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG21	6	0.21
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG22	6	0.21
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG23	6	0.21
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG21	6	0.21
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG22	6	0.21
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG23	6	0.21
(1,2464)	1:82:A:ASP:HB2	1:83:A:THR:HB	11	0.21
(1,2464)	1:82:A:ASP:HB3	1:83:A:THR:HB	11	0.21
(1,2193)	1:50:A:ARG:HA	1:55:A:LEU:HD11	6	0.21
(1,2193)	1:50:A:ARG:HA	1:55:A:LEU:HD12	6	0.21
(1,2193)	1:50:A:ARG:HA	1:55:A:LEU:HD13	6	0.21
(1,2193)	1:50:A:ARG:HA	1:55:A:LEU:HD21	6	0.21
(1,2193)	1:50:A:ARG:HA	1:55:A:LEU:HD22	6	0.21
(1,2193)	1:50:A:ARG:HA	1:55:A:LEU:HD23	6	0.21
(1,2176)	1:50:A:ARG:HD2	1:54:A:SER:HA	18	0.21
(1,2176)	1:50:A:ARG:HD3	1:54:A:SER:HA	18	0.21
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	15	0.21
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	15	0.21
(1,2105)	1:41:A:GLN:HB2	1:44:A:ALA:HA	7	0.21
(1,2105)	1:41:A:GLN:HB3	1:44:A:ALA:HA	7	0.21
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG21	16	0.21
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG22	16	0.21
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG23	16	0.21
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG21	16	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG22	16	0.21
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG23	16	0.21
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG21	16	0.21
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG22	16	0.21
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG23	16	0.21
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG21	16	0.21
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG22	16	0.21
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG23	16	0.21
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG21	16	0.21
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG22	16	0.21
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG23	16	0.21
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG21	16	0.21
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG22	16	0.21
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG23	16	0.21
(1,1411)	1:62:A:ASP:HA	1:63:A:GLY:H	5	0.21
(1,1148)	1:134:A:GLY:H	1:135:A:SER:HB2	2	0.21
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG12	12	0.21
(1,1130)	1:186:A:LEU:H	1:187:A:GLY:HA2	12	0.21
(1,1123)	1:132:A:ASP:H	1:136:A:VAL:HB	6	0.21
(1,1119)	1:97:A:ALA:H	1:96:A:ASN:HB3	14	0.21
(1,1095)	1:193:A:GLY:H	1:191:A:PRO:HA	11	0.21
(1,1091)	1:104:A:ASN:H	1:105:A:ILE:HD13	3	0.21
(1,1087)	1:64:A:ASN:H	1:66:A:LEU:HA	6	0.21
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD11	11	0.21
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	6	0.21
(1,1013)	1:128:A:GLY:H	1:129:A:ILE:HB	9	0.21
(1,1002)	1:92:A:SER:H	1:21:A:VAL:HB	7	0.21
(1,893)	1:153:A:SER:HB2	1:158:A:GLN:H	6	0.21
(1,893)	1:153:A:SER:HB3	1:158:A:GLN:H	6	0.21
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE21	10	0.21
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE22	10	0.21
(1,788)	1:129:A:ILE:HB	1:130:A:ASN:H	9	0.21
(1,781)	1:127:A:LEU:H	1:129:A:ILE:H	12	0.21
(1,728)	1:116:A:LEU:H	1:120:A:VAL:H	13	0.21
(1,588)	1:101:A:ASN:H	1:104:A:ASN:HD21	15	0.21
(1,588)	1:101:A:ASN:H	1:104:A:ASN:HD22	15	0.21
(1,555)	1:99:A:VAL:H	1:100:A:LEU:HG	17	0.21
(1,320)	1:62:A:ASP:HA	1:63:A:GLY:H	5	0.21
(1,295)	1:50:A:ARG:HB2	1:57:A:SER:H	8	0.21
(1,295)	1:50:A:ARG:HB3	1:57:A:SER:H	8	0.21
(1,203)	1:10:A:THR:H	1:42:A:GLN:HB2	12	0.21
(1,203)	1:10:A:THR:H	1:42:A:GLN:HB3	12	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3910)	1:85:A:ALA:HA	1:86:A:TYR:HD1	16	0.2
(1,3909)	1:74:A:VAL:HB	1:86:A:TYR:HE2	19	0.2
(1,3844)	1:175:A:PRO:HD2	1:177:A:THR:HB	9	0.2
(1,3844)	1:175:A:PRO:HD2	1:177:A:THR:HB	13	0.2
(1,3833)	1:113:A:LEU:HA	1:113:A:LEU:HD11	11	0.2
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB2	14	0.2
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG23	3	0.2
(1,3695)	1:195:A:SER:HB2	1:102:A:ALA:HA	4	0.2
(1,3652)	1:118:A:ASN:HD21	1:114:A:SER:HB3	15	0.2
(1,3645)	1:94:A:LEU:HD11	1:40:A:SER:H	10	0.2
(1,3643)	1:42:A:GLN:HB2	1:116:A:LEU:HD21	7	0.2
(1,3639)	1:156:A:TYR:HB2	1:155:A:SER:HB3	3	0.2
(1,3639)	1:156:A:TYR:HB3	1:155:A:SER:HB2	7	0.2
(1,3639)	1:156:A:TYR:HB2	1:157:A:SER:HB2	14	0.2
(1,3580)	1:101:A:ASN:HB2	1:102:A:ALA:HB1	9	0.2
(1,3519)	1:17:A:LEU:HB2	1:20:A:ARG:HD2	4	0.2
(1,3515)	1:31:A:LEU:HD23	1:31:A:LEU:HA	2	0.2
(1,3515)	1:31:A:LEU:HD23	1:31:A:LEU:HA	9	0.2
(1,3499)	1:47:A:VAL:HG23	1:49:A:GLN:HG3	18	0.2
(1,3464)	1:126:A:GLY:HA3	1:123:A:ALA:HA	18	0.2
(1,3455)	1:44:A:ALA:HB1	1:86:A:TYR:HE2	4	0.2
(1,3437)	1:101:A:ASN:HB3	1:194:A:GLN:HG3	10	0.2
(1,3398)	1:70:A:ALA:H	1:68:A:ARG:HA	18	0.2
(1,3387)	1:125:A:GLN:HA	1:128:A:GLY:HA2	16	0.2
(1,3386)	1:13:A:ALA:HB3	1:14:A:SER:HA	5	0.2
(1,3386)	1:13:A:ALA:HB3	1:14:A:SER:HA	10	0.2
(1,3360)	1:86:A:TYR:HA	1:43:A:ILE:HG12	5	0.2
(1,3334)	1:188:A:GLY:HA3	1:190:A:ALA:HA	20	0.2
(1,3287)	1:122:A:SER:HB2	1:121:A:SER:HB2	16	0.2
(1,3285)	1:44:A:ALA:HB1	1:86:A:TYR:HE2	4	0.2
(1,3268)	1:9:A:ALA:HA	1:113:A:LEU:HG	8	0.2
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG22	19	0.2
(1,3256)	1:175:A:PRO:HD2	1:177:A:THR:HB	13	0.2
(1,3203)	1:186:A:LEU:HB2	1:194:A:GLN:HG2	19	0.2
(1,3203)	1:186:A:LEU:HB2	1:194:A:GLN:HG3	19	0.2
(1,3203)	1:186:A:LEU:HB3	1:194:A:GLN:HG2	19	0.2
(1,3203)	1:186:A:LEU:HB3	1:194:A:GLN:HG3	19	0.2
(1,2975)	1:131:A:VAL:HG11	1:132:A:ASP:HA	9	0.2
(1,2975)	1:131:A:VAL:HG12	1:132:A:ASP:HA	9	0.2
(1,2975)	1:131:A:VAL:HG13	1:132:A:ASP:HA	9	0.2
(1,2975)	1:131:A:VAL:HG21	1:132:A:ASP:HA	9	0.2
(1,2975)	1:131:A:VAL:HG22	1:132:A:ASP:HA	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2975)	1:131:A:VAL:HG23	1:132:A:ASP:HA	9	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG11	2	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG12	2	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG13	2	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG21	2	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG22	2	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG23	2	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG11	2	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG12	2	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG13	2	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG21	2	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG22	2	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG23	2	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG11	6	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG12	6	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG13	6	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG21	6	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG22	6	0.2
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG23	6	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG11	6	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG12	6	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG13	6	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG21	6	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG22	6	0.2
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG23	6	0.2
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	6	0.2
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	6	0.2
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	6	0.2
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	6	0.2
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	6	0.2
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	6	0.2
(1,2517)	1:87:A:ALA:HB1	1:88:A:GLN:HE21	20	0.2
(1,2517)	1:87:A:ALA:HB1	1:88:A:GLN:HE22	20	0.2
(1,2517)	1:87:A:ALA:HB2	1:88:A:GLN:HE21	20	0.2
(1,2517)	1:87:A:ALA:HB2	1:88:A:GLN:HE22	20	0.2
(1,2517)	1:87:A:ALA:HB3	1:88:A:GLN:HE21	20	0.2
(1,2517)	1:87:A:ALA:HB3	1:88:A:GLN:HE22	20	0.2
(1,2398)	1:76:A:ARG:HA	1:76:A:ARG:HD2	14	0.2
(1,2398)	1:76:A:ARG:HA	1:76:A:ARG:HD3	14	0.2
(1,2163)	1:50:A:ARG:HD2	1:52:A:ALA:HA	6	0.2
(1,2163)	1:50:A:ARG:HD3	1:52:A:ALA:HA	6	0.2
(1,2112)	1:41:A:GLN:HE21	1:45:A:SER:HA	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2112)	1:41:A:GLN:HE22	1:45:A:SER:HA	8	0.2
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG22	11	0.2
(1,1162)	1:46:A:SER:H	1:48:A:VAL:HG11	16	0.2
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB1	17	0.2
(1,1130)	1:186:A:LEU:H	1:187:A:GLY:HA3	10	0.2
(1,1070)	1:52:A:ALA:H	1:129:A:ILE:HG13	4	0.2
(1,1065)	1:50:A:ARG:HB3	1:50:A:ARG:HE	19	0.2
(1,1045)	1:45:A:SER:H	1:48:A:VAL:HG12	6	0.2
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	9	0.2
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	13	0.2
(1,1028)	1:71:A:VAL:H	1:66:A:LEU:HA	7	0.2
(1,999)	1:134:A:GLY:HA3	1:132:A:ASP:H	13	0.2
(1,975)	1:60:A:GLY:HA2	1:62:A:ASP:H	12	0.2
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA3	3	0.2
(1,962)	1:117:A:LEU:H	1:120:A:VAL:HG23	19	0.2
(1,960)	1:67:A:ALA:H	1:70:A:ALA:HB2	14	0.2
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	10	0.2
(1,923)	1:182:A:TYR:H	1:185:A:PRO:HD2	17	0.2
(1,923)	1:182:A:TYR:H	1:185:A:PRO:HD3	17	0.2
(1,914)	1:170:A:THR:H	1:175:A:PRO:HD2	10	0.2
(1,914)	1:170:A:THR:H	1:175:A:PRO:HD3	10	0.2
(1,893)	1:153:A:SER:HB2	1:158:A:GLN:H	19	0.2
(1,893)	1:153:A:SER:HB3	1:158:A:GLN:H	19	0.2
(1,885)	1:154:A:ALA:HA	1:156:A:TYR:H	10	0.2
(1,878)	1:153:A:SER:H	1:153:A:SER:HB2	6	0.2
(1,878)	1:153:A:SER:H	1:153:A:SER:HB3	6	0.2
(1,869)	1:144:A:SER:H	1:147:A:LEU:HD11	3	0.2
(1,869)	1:144:A:SER:H	1:147:A:LEU:HD12	3	0.2
(1,869)	1:144:A:SER:H	1:147:A:LEU:HD13	3	0.2
(1,869)	1:144:A:SER:H	1:147:A:LEU:HD21	3	0.2
(1,869)	1:144:A:SER:H	1:147:A:LEU:HD22	3	0.2
(1,869)	1:144:A:SER:H	1:147:A:LEU:HD23	3	0.2
(1,851)	1:137:A:GLN:HB2	1:141:A:SER:H	19	0.2
(1,851)	1:137:A:GLN:HB3	1:141:A:SER:H	19	0.2
(1,815)	1:132:A:ASP:HB2	1:135:A:SER:H	9	0.2
(1,815)	1:132:A:ASP:HB3	1:135:A:SER:H	9	0.2
(1,810)	1:71:A:VAL:HG11	1:134:A:GLY:H	17	0.2
(1,810)	1:71:A:VAL:HG12	1:134:A:GLY:H	17	0.2
(1,810)	1:71:A:VAL:HG13	1:134:A:GLY:H	17	0.2
(1,810)	1:71:A:VAL:HG21	1:134:A:GLY:H	17	0.2
(1,810)	1:71:A:VAL:HG22	1:134:A:GLY:H	17	0.2
(1,810)	1:71:A:VAL:HG23	1:134:A:GLY:H	17	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:68:A:ARG:HG2	1:69:A:PHE:H	16	0.2
(1,365)	1:68:A:ARG:HG3	1:69:A:PHE:H	16	0.2
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	16	0.2
(1,11)	1:4:A:GLN:H	1:8:A:GLY:H	8	0.2
(1,11)	1:4:A:GLN:H	1:8:A:GLY:H	17	0.2
(1,3911)	1:18:A:ILE:HG22	1:90:A:PHE:HE1	13	0.19
(1,3910)	1:85:A:ALA:HA	1:86:A:TYR:HD1	8	0.19
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB2	7	0.19
(1,3796)	1:124:A:ALA:HB3	1:120:A:VAL:HA	16	0.19
(1,3796)	1:124:A:ALA:HB2	1:120:A:VAL:HA	19	0.19
(1,3794)	1:72:A:GLN:HB2	1:73:A:ALA:HB1	10	0.19
(1,3764)	1:111:A:ARG:HD3	1:112:A:VAL:HG23	8	0.19
(1,3736)	1:191:A:PRO:HB2	1:190:A:ALA:HB3	3	0.19
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	12	0.19
(1,3692)	1:117:A:LEU:HG	1:105:A:ILE:HG23	17	0.19
(1,3670)	1:23:A:ASN:H	1:26:A:ALA:HB1	14	0.19
(1,3622)	1:50:A:ARG:H	1:55:A:LEU:HD22	5	0.19
(1,3616)	1:31:A:LEU:HD21	1:26:A:ALA:HB2	2	0.19
(1,3599)	1:129:A:ILE:HG22	1:37:A:THR:HG23	17	0.19
(1,3583)	1:74:A:VAL:HG22	1:44:A:ALA:HA	19	0.19
(1,3580)	1:101:A:ASN:HB2	1:102:A:ALA:HB1	14	0.19
(1,3535)	1:96:A:ASN:HB2	1:105:A:ILE:HD12	2	0.19
(1,3530)	1:42:A:GLN:H	1:41:A:GLN:HB3	8	0.19
(1,3519)	1:17:A:LEU:HB3	1:20:A:ARG:HD2	8	0.19
(1,3450)	1:93:A:ALA:HB1	1:92:A:SER:HB2	13	0.19
(1,3434)	1:135:A:SER:HA	1:139:A:ASP:HB2	20	0.19
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD12	17	0.19
(1,3398)	1:71:A:VAL:H	1:68:A:ARG:HA	4	0.19
(1,3381)	1:177:A:THR:HG23	1:179:A:PRO:HD3	19	0.19
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB1	19	0.19
(1,3348)	1:132:A:ASP:H	1:35:A:LEU:HD11	4	0.19
(1,3338)	1:112:A:VAL:HG23	1:111:A:ARG:HD3	8	0.19
(1,3232)	1:96:A:ASN:HB2	1:105:A:ILE:HD12	2	0.19
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD22	19	0.19
(1,3187)	1:186:A:LEU:HD11	1:191:A:PRO:HD2	9	0.19
(1,3187)	1:186:A:LEU:HD11	1:191:A:PRO:HD3	9	0.19
(1,3187)	1:186:A:LEU:HD12	1:191:A:PRO:HD2	9	0.19
(1,3187)	1:186:A:LEU:HD12	1:191:A:PRO:HD3	9	0.19
(1,3187)	1:186:A:LEU:HD13	1:191:A:PRO:HD2	9	0.19
(1,3187)	1:186:A:LEU:HD13	1:191:A:PRO:HD3	9	0.19
(1,3187)	1:186:A:LEU:HD21	1:191:A:PRO:HD2	9	0.19
(1,3187)	1:186:A:LEU:HD21	1:191:A:PRO:HD3	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3187)	1:186:A:LEU:HD22	1:191:A:PRO:HD2	9	0.19
(1,3187)	1:186:A:LEU:HD22	1:191:A:PRO:HD3	9	0.19
(1,3187)	1:186:A:LEU:HD23	1:191:A:PRO:HD2	9	0.19
(1,3187)	1:186:A:LEU:HD23	1:191:A:PRO:HD3	9	0.19
(1,3171)	1:178:A:GLY:HA2	1:190:A:ALA:HA	6	0.19
(1,3171)	1:178:A:GLY:HA3	1:190:A:ALA:HA	6	0.19
(1,3169)	1:178:A:GLY:HA2	1:190:A:ALA:HA	6	0.19
(1,3169)	1:178:A:GLY:HA3	1:190:A:ALA:HA	6	0.19
(1,3136)	1:163:A:SER:HB2	1:175:A:PRO:HD2	4	0.19
(1,3136)	1:163:A:SER:HB2	1:175:A:PRO:HD3	4	0.19
(1,3136)	1:163:A:SER:HB3	1:175:A:PRO:HD2	4	0.19
(1,3136)	1:163:A:SER:HB3	1:175:A:PRO:HD3	4	0.19
(1,3134)	1:167:A:ALA:HB1	1:175:A:PRO:HG2	18	0.19
(1,3134)	1:167:A:ALA:HB1	1:175:A:PRO:HG3	18	0.19
(1,3134)	1:167:A:ALA:HB2	1:175:A:PRO:HG2	18	0.19
(1,3134)	1:167:A:ALA:HB2	1:175:A:PRO:HG3	18	0.19
(1,3134)	1:167:A:ALA:HB3	1:175:A:PRO:HG2	18	0.19
(1,3134)	1:167:A:ALA:HB3	1:175:A:PRO:HG3	18	0.19
(1,3003)	1:131:A:VAL:HG11	1:136:A:VAL:HB	11	0.19
(1,3003)	1:131:A:VAL:HG12	1:136:A:VAL:HB	11	0.19
(1,3003)	1:131:A:VAL:HG13	1:136:A:VAL:HB	11	0.19
(1,3003)	1:131:A:VAL:HG21	1:136:A:VAL:HB	11	0.19
(1,3003)	1:131:A:VAL:HG22	1:136:A:VAL:HB	11	0.19
(1,3003)	1:131:A:VAL:HG23	1:136:A:VAL:HB	11	0.19
(1,2980)	1:131:A:VAL:HG11	1:134:A:GLY:HA2	11	0.19
(1,2980)	1:131:A:VAL:HG11	1:134:A:GLY:HA3	11	0.19
(1,2980)	1:131:A:VAL:HG12	1:134:A:GLY:HA2	11	0.19
(1,2980)	1:131:A:VAL:HG12	1:134:A:GLY:HA3	11	0.19
(1,2980)	1:131:A:VAL:HG13	1:134:A:GLY:HA2	11	0.19
(1,2980)	1:131:A:VAL:HG13	1:134:A:GLY:HA3	11	0.19
(1,2980)	1:131:A:VAL:HG21	1:134:A:GLY:HA2	11	0.19
(1,2980)	1:131:A:VAL:HG21	1:134:A:GLY:HA3	11	0.19
(1,2980)	1:131:A:VAL:HG22	1:134:A:GLY:HA2	11	0.19
(1,2980)	1:131:A:VAL:HG22	1:134:A:GLY:HA3	11	0.19
(1,2980)	1:131:A:VAL:HG23	1:134:A:GLY:HA2	11	0.19
(1,2980)	1:131:A:VAL:HG23	1:134:A:GLY:HA3	11	0.19
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB2	10	0.19
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB3	10	0.19
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB2	10	0.19
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB3	10	0.19
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB2	10	0.19
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB3	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB2	10	0.19
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB3	10	0.19
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB2	10	0.19
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB3	10	0.19
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB2	10	0.19
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB3	10	0.19
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB2	17	0.19
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB3	17	0.19
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB2	17	0.19
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB3	17	0.19
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB2	17	0.19
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB3	17	0.19
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB2	17	0.19
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB3	17	0.19
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB2	17	0.19
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB3	17	0.19
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB2	17	0.19
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB3	17	0.19
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG11	14	0.19
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG12	14	0.19
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG13	14	0.19
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG21	14	0.19
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG22	14	0.19
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG23	14	0.19
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG11	14	0.19
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG12	14	0.19
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG13	14	0.19
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG21	14	0.19
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG22	14	0.19
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG23	14	0.19
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD2	3	0.19
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD3	3	0.19
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD2	3	0.19
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD3	3	0.19
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD11	3	0.19
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD12	3	0.19
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD13	3	0.19
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD21	3	0.19
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD22	3	0.19
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD23	3	0.19
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD11	5	0.19
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD12	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD13	5	0.19
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD21	5	0.19
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD22	5	0.19
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD23	5	0.19
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD11	5	0.19
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD12	5	0.19
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD13	5	0.19
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD21	5	0.19
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD22	5	0.19
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD23	5	0.19
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD11	5	0.19
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD12	5	0.19
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD13	5	0.19
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD21	5	0.19
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD22	5	0.19
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD23	5	0.19
(1,2600)	1:93:A:ALA:HB1	1:96:A:ASN:HB2	3	0.19
(1,2600)	1:93:A:ALA:HB1	1:96:A:ASN:HB3	3	0.19
(1,2600)	1:93:A:ALA:HB2	1:96:A:ASN:HB2	3	0.19
(1,2600)	1:93:A:ALA:HB2	1:96:A:ASN:HB3	3	0.19
(1,2600)	1:93:A:ALA:HB3	1:96:A:ASN:HB2	3	0.19
(1,2600)	1:93:A:ALA:HB3	1:96:A:ASN:HB3	3	0.19
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	15	0.19
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	15	0.19
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	15	0.19
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	15	0.19
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	15	0.19
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	15	0.19
(1,2444)	1:77:A:LEU:HG	1:78:A:PRO:HG2	6	0.19
(1,2444)	1:77:A:LEU:HG	1:78:A:PRO:HG3	6	0.19
(1,2398)	1:76:A:ARG:HA	1:76:A:ARG:HD2	5	0.19
(1,2398)	1:76:A:ARG:HA	1:76:A:ARG:HD3	5	0.19
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB2	1	0.19
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB3	1	0.19
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB2	1	0.19
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB3	1	0.19
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB2	1	0.19
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB3	1	0.19
(1,2245)	1:53:A:GLN:HE21	1:61:A:VAL:HG11	7	0.19
(1,2245)	1:53:A:GLN:HE21	1:61:A:VAL:HG12	7	0.19
(1,2245)	1:53:A:GLN:HE21	1:61:A:VAL:HG13	7	0.19
(1,2245)	1:53:A:GLN:HE21	1:61:A:VAL:HG21	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2245)	1:53:A:GLN:HE21	1:61:A:VAL:HG22	7	0.19
(1,2245)	1:53:A:GLN:HE21	1:61:A:VAL:HG23	7	0.19
(1,2245)	1:53:A:GLN:HE22	1:61:A:VAL:HG11	7	0.19
(1,2245)	1:53:A:GLN:HE22	1:61:A:VAL:HG12	7	0.19
(1,2245)	1:53:A:GLN:HE22	1:61:A:VAL:HG13	7	0.19
(1,2245)	1:53:A:GLN:HE22	1:61:A:VAL:HG21	7	0.19
(1,2245)	1:53:A:GLN:HE22	1:61:A:VAL:HG22	7	0.19
(1,2245)	1:53:A:GLN:HE22	1:61:A:VAL:HG23	7	0.19
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG11	17	0.19
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG12	17	0.19
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG13	17	0.19
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG21	17	0.19
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG22	17	0.19
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG23	17	0.19
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG11	17	0.19
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG12	17	0.19
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG13	17	0.19
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG21	17	0.19
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG22	17	0.19
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG23	17	0.19
(1,2241)	1:58:A:THR:HG21	1:61:A:VAL:HB	19	0.19
(1,2241)	1:58:A:THR:HG22	1:61:A:VAL:HB	19	0.19
(1,2241)	1:58:A:THR:HG23	1:61:A:VAL:HB	19	0.19
(1,2217)	1:56:A:ALA:HB1	1:58:A:THR:HB	4	0.19
(1,2217)	1:56:A:ALA:HB2	1:58:A:THR:HB	4	0.19
(1,2217)	1:56:A:ALA:HB3	1:58:A:THR:HB	4	0.19
(1,2217)	1:56:A:ALA:HB1	1:58:A:THR:HB	6	0.19
(1,2217)	1:56:A:ALA:HB2	1:58:A:THR:HB	6	0.19
(1,2217)	1:56:A:ALA:HB3	1:58:A:THR:HB	6	0.19
(1,2217)	1:56:A:ALA:HB1	1:58:A:THR:HB	7	0.19
(1,2217)	1:56:A:ALA:HB2	1:58:A:THR:HB	7	0.19
(1,2217)	1:56:A:ALA:HB3	1:58:A:THR:HB	7	0.19
(1,2217)	1:56:A:ALA:HB1	1:58:A:THR:HB	8	0.19
(1,2217)	1:56:A:ALA:HB2	1:58:A:THR:HB	8	0.19
(1,2217)	1:56:A:ALA:HB3	1:58:A:THR:HB	8	0.19
(1,2105)	1:41:A:GLN:HB2	1:44:A:ALA:HA	20	0.19
(1,2105)	1:41:A:GLN:HB3	1:44:A:ALA:HA	20	0.19
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG21	2	0.19
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB2	10	0.19
(1,1084)	1:105:A:ILE:H	1:105:A:ILE:HD13	10	0.19
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	16	0.19
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	20	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1070)	1:52:A:ALA:H	1:129:A:ILE:HG13	20	0.19
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB2	17	0.19
(1,1041)	1:29:A:SER:H	1:30:A:THR:HB	6	0.19
(1,1039)	1:90:A:PHE:H	1:18:A:ILE:HB	11	0.19
(1,1039)	1:90:A:PHE:H	1:18:A:ILE:HB	17	0.19
(1,1031)	1:167:A:ALA:HA	1:169:A:TYR:H	20	0.19
(1,1023)	1:164:A:THR:HA	1:166:A:GLY:H	18	0.19
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	6	0.19
(1,962)	1:117:A:LEU:H	1:120:A:VAL:HG22	17	0.19
(1,954)	1:72:A:GLN:H	1:68:A:ARG:HA	9	0.19
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG23	7	0.19
(1,920)	1:149:A:THR:HB	1:180:A:SER:H	11	0.19
(1,878)	1:153:A:SER:H	1:153:A:SER:HB2	13	0.19
(1,878)	1:153:A:SER:H	1:153:A:SER:HB3	13	0.19
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE21	20	0.19
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE22	20	0.19
(1,815)	1:132:A:ASP:HB2	1:135:A:SER:H	14	0.19
(1,815)	1:132:A:ASP:HB3	1:135:A:SER:H	14	0.19
(1,783)	1:50:A:ARG:HD2	1:129:A:ILE:H	19	0.19
(1,783)	1:50:A:ARG:HD3	1:129:A:ILE:H	19	0.19
(1,771)	1:127:A:LEU:H	1:128:A:GLY:HA2	9	0.19
(1,771)	1:127:A:LEU:H	1:128:A:GLY:HA3	9	0.19
(1,365)	1:68:A:ARG:HG2	1:69:A:PHE:H	1	0.19
(1,365)	1:68:A:ARG:HG3	1:69:A:PHE:H	1	0.19
(1,352)	1:66:A:LEU:HG	1:67:A:ALA:H	11	0.19
(1,276)	1:50:A:ARG:HB2	1:54:A:SER:H	4	0.19
(1,276)	1:50:A:ARG:HB3	1:54:A:SER:H	4	0.19
(1,142)	1:27:A:ASN:HD21	1:32:A:ARG:HE	15	0.19
(1,142)	1:27:A:ASN:HD22	1:32:A:ARG:HE	15	0.19
(1,3909)	1:74:A:VAL:HB	1:86:A:TYR:HE2	3	0.18
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD1	1	0.18
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD2	1	0.18
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD1	1	0.18
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD2	1	0.18
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD1	1	0.18
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD2	1	0.18
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB3	8	0.18
(1,3790)	1:99:A:VAL:HG11	1:194:A:GLN:HA	9	0.18
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG23	19	0.18
(1,3734)	1:20:A:ARG:HA	1:191:A:PRO:HB3	17	0.18
(1,3712)	1:84:A:SER:HB2	1:85:A:ALA:HA	10	0.18
(1,3697)	1:13:A:ALA:HB3	1:108:A:LEU:HB3	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB2	4	0.18
(1,3694)	1:49:A:GLN:HA	1:56:A:ALA:HB3	19	0.18
(1,3689)	1:97:A:ALA:HB1	1:100:A:LEU:HD21	1	0.18
(1,3683)	1:56:A:ALA:HB2	1:50:A:ARG:HA	20	0.18
(1,3652)	1:118:A:ASN:HD21	1:114:A:SER:HB3	1	0.18
(1,3580)	1:101:A:ASN:HB2	1:102:A:ALA:HB2	15	0.18
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG21	6	0.18
(1,3537)	1:39:A:VAL:H	1:129:A:ILE:HG21	8	0.18
(1,3530)	1:42:A:GLN:H	1:41:A:GLN:HB2	5	0.18
(1,3530)	1:42:A:GLN:H	1:41:A:GLN:HB2	19	0.18
(1,3525)	1:92:A:SER:HA	1:95:A:PHE:HD2	2	0.18
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG21	3	0.18
(1,3500)	1:74:A:VAL:HG22	1:73:A:ALA:HB2	4	0.18
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD23	12	0.18
(1,3374)	1:93:A:ALA:HB3	1:90:A:PHE:HA	8	0.18
(1,3322)	1:108:A:LEU:HD22	1:107:A:THR:HB	18	0.18
(1,3287)	1:122:A:SER:HB3	1:121:A:SER:HB3	6	0.18
(1,3287)	1:122:A:SER:HB3	1:121:A:SER:HB2	10	0.18
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG13	6	0.18
(1,3213)	1:129:A:ILE:HD13	1:50:A:ARG:HG2	7	0.18
(1,3198)	1:190:A:ALA:HB1	1:194:A:GLN:HB2	16	0.18
(1,3198)	1:190:A:ALA:HB1	1:194:A:GLN:HB3	16	0.18
(1,3198)	1:190:A:ALA:HB2	1:194:A:GLN:HB2	16	0.18
(1,3198)	1:190:A:ALA:HB2	1:194:A:GLN:HB3	16	0.18
(1,3198)	1:190:A:ALA:HB3	1:194:A:GLN:HB2	16	0.18
(1,3198)	1:190:A:ALA:HB3	1:194:A:GLN:HB3	16	0.18
(1,3145)	1:170:A:THR:HB	1:177:A:THR:HG21	1	0.18
(1,3145)	1:170:A:THR:HB	1:177:A:THR:HG22	1	0.18
(1,3145)	1:170:A:THR:HB	1:177:A:THR:HG23	1	0.18
(1,3133)	1:169:A:TYR:HB2	1:175:A:PRO:HD2	4	0.18
(1,3133)	1:169:A:TYR:HB2	1:175:A:PRO:HD3	4	0.18
(1,3133)	1:169:A:TYR:HB3	1:175:A:PRO:HD2	4	0.18
(1,3133)	1:169:A:TYR:HB3	1:175:A:PRO:HD3	4	0.18
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB2	8	0.18
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB3	8	0.18
(1,2981)	1:71:A:VAL:HB	1:134:A:GLY:HA2	2	0.18
(1,2981)	1:71:A:VAL:HB	1:134:A:GLY:HA3	2	0.18
(1,2980)	1:131:A:VAL:HG11	1:134:A:GLY:HA2	9	0.18
(1,2980)	1:131:A:VAL:HG11	1:134:A:GLY:HA3	9	0.18
(1,2980)	1:131:A:VAL:HG12	1:134:A:GLY:HA2	9	0.18
(1,2980)	1:131:A:VAL:HG12	1:134:A:GLY:HA3	9	0.18
(1,2980)	1:131:A:VAL:HG13	1:134:A:GLY:HA2	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2980)	1:131:A:VAL:HG13	1:134:A:GLY:HA3	9	0.18
(1,2980)	1:131:A:VAL:HG21	1:134:A:GLY:HA2	9	0.18
(1,2980)	1:131:A:VAL:HG21	1:134:A:GLY:HA3	9	0.18
(1,2980)	1:131:A:VAL:HG22	1:134:A:GLY:HA2	9	0.18
(1,2980)	1:131:A:VAL:HG22	1:134:A:GLY:HA3	9	0.18
(1,2980)	1:131:A:VAL:HG23	1:134:A:GLY:HA2	9	0.18
(1,2980)	1:131:A:VAL:HG23	1:134:A:GLY:HA3	9	0.18
(1,2970)	1:37:A:THR:HA	1:131:A:VAL:HB	11	0.18
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB2	9	0.18
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB3	9	0.18
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB2	9	0.18
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB3	9	0.18
(1,2846)	1:117:A:LEU:HG	1:118:A:ASN:HD21	13	0.18
(1,2846)	1:117:A:LEU:HG	1:118:A:ASN:HD22	13	0.18
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD11	10	0.18
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD12	10	0.18
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD13	10	0.18
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD21	10	0.18
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD22	10	0.18
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD23	10	0.18
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD2	8	0.18
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD3	8	0.18
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD2	8	0.18
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD3	8	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD11	6	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD12	6	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD13	6	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD21	6	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD22	6	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD23	6	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD11	6	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD12	6	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD13	6	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD21	6	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD22	6	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD23	6	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD11	6	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD12	6	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD13	6	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD21	6	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD22	6	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD23	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD11	11	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD12	11	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD13	11	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD21	11	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD22	11	0.18
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD23	11	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD11	11	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD12	11	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD13	11	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD21	11	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD22	11	0.18
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD23	11	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD11	11	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD12	11	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD13	11	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD21	11	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD22	11	0.18
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD23	11	0.18
(1,2583)	1:36:A:ARG:HG2	1:94:A:LEU:HD11	3	0.18
(1,2583)	1:36:A:ARG:HG2	1:94:A:LEU:HD12	3	0.18
(1,2583)	1:36:A:ARG:HG2	1:94:A:LEU:HD13	3	0.18
(1,2583)	1:36:A:ARG:HG2	1:94:A:LEU:HD21	3	0.18
(1,2583)	1:36:A:ARG:HG2	1:94:A:LEU:HD22	3	0.18
(1,2583)	1:36:A:ARG:HG2	1:94:A:LEU:HD23	3	0.18
(1,2583)	1:36:A:ARG:HG3	1:94:A:LEU:HD11	3	0.18
(1,2583)	1:36:A:ARG:HG3	1:94:A:LEU:HD12	3	0.18
(1,2583)	1:36:A:ARG:HG3	1:94:A:LEU:HD13	3	0.18
(1,2583)	1:36:A:ARG:HG3	1:94:A:LEU:HD21	3	0.18
(1,2583)	1:36:A:ARG:HG3	1:94:A:LEU:HD22	3	0.18
(1,2583)	1:36:A:ARG:HG3	1:94:A:LEU:HD23	3	0.18
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	16	0.18
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	16	0.18
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	16	0.18
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	16	0.18
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	16	0.18
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	16	0.18
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD11	15	0.18
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD12	15	0.18
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD13	15	0.18
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD21	15	0.18
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD22	15	0.18
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD23	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD11	15	0.18
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD12	15	0.18
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD13	15	0.18
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD21	15	0.18
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD22	15	0.18
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD23	15	0.18
(1,2280)	1:62:A:ASP:HA	1:66:A:LEU:HG	4	0.18
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG11	15	0.18
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG12	15	0.18
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG13	15	0.18
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG21	15	0.18
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG22	15	0.18
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG23	15	0.18
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG11	15	0.18
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG12	15	0.18
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG13	15	0.18
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG21	15	0.18
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG22	15	0.18
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG23	15	0.18
(1,2217)	1:56:A:ALA:HB1	1:58:A:THR:HB	3	0.18
(1,2217)	1:56:A:ALA:HB2	1:58:A:THR:HB	3	0.18
(1,2217)	1:56:A:ALA:HB3	1:58:A:THR:HB	3	0.18
(1,2177)	1:50:A:ARG:HD2	1:54:A:SER:HB2	3	0.18
(1,2177)	1:50:A:ARG:HD2	1:54:A:SER:HB3	3	0.18
(1,2177)	1:50:A:ARG:HD3	1:54:A:SER:HB2	3	0.18
(1,2177)	1:50:A:ARG:HD3	1:54:A:SER:HB3	3	0.18
(1,2176)	1:50:A:ARG:HD2	1:54:A:SER:HA	15	0.18
(1,2176)	1:50:A:ARG:HD3	1:54:A:SER:HA	15	0.18
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	1	0.18
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	1	0.18
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	4	0.18
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	4	0.18
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	20	0.18
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	20	0.18
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG21	17	0.18
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG22	17	0.18
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG23	17	0.18
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG21	17	0.18
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG22	17	0.18
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG23	17	0.18
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG21	17	0.18
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG22	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG23	17	0.18
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG21	17	0.18
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG22	17	0.18
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG23	17	0.18
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG21	17	0.18
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG22	17	0.18
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG23	17	0.18
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG21	17	0.18
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG22	17	0.18
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG23	17	0.18
(1,1803)	1:177:A:THR:H	1:175:A:PRO:HA	6	0.18
(1,1736)	1:176:A:SER:HA	1:177:A:THR:H	2	0.18
(1,1641)	1:127:A:LEU:H	1:127:A:LEU:HG	14	0.18
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD11	2	0.18
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD12	2	0.18
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD13	2	0.18
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD21	2	0.18
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD22	2	0.18
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD23	2	0.18
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD11	12	0.18
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD12	12	0.18
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD13	12	0.18
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD21	12	0.18
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD22	12	0.18
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD23	12	0.18
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG21	10	0.18
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG23	16	0.18
(1,1133)	1:42:A:GLN:H	1:39:A:VAL:HG21	3	0.18
(1,1113)	1:65:A:ASN:HD21	1:47:A:VAL:HB	16	0.18
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	6	0.18
(1,1095)	1:193:A:GLY:H	1:191:A:PRO:HA	4	0.18
(1,1087)	1:64:A:ASN:H	1:66:A:LEU:HA	1	0.18
(1,1087)	1:64:A:ASN:H	1:66:A:LEU:HA	2	0.18
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB3	13	0.18
(1,1049)	1:42:A:GLN:H	1:9:A:ALA:HB1	14	0.18
(1,1045)	1:45:A:SER:H	1:48:A:VAL:HG13	11	0.18
(1,1028)	1:71:A:VAL:H	1:66:A:LEU:HA	19	0.18
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG21	8	0.18
(1,917)	1:161:A:ALA:H	1:177:A:THR:HB	6	0.18
(1,885)	1:154:A:ALA:HA	1:156:A:TYR:H	18	0.18
(1,877)	1:147:A:LEU:H	1:150:A:SER:HB2	14	0.18
(1,877)	1:147:A:LEU:H	1:150:A:SER:HB3	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,792)	1:38:A:GLY:HA2	1:131:A:VAL:H	15	0.18
(1,792)	1:38:A:GLY:HA3	1:131:A:VAL:H	15	0.18
(1,788)	1:129:A:ILE:HB	1:130:A:ASN:H	8	0.18
(1,771)	1:127:A:LEU:H	1:128:A:GLY:HA2	6	0.18
(1,771)	1:127:A:LEU:H	1:128:A:GLY:HA3	6	0.18
(1,589)	1:101:A:ASN:H	1:104:A:ASN:H	4	0.18
(1,362)	1:66:A:LEU:HG	1:68:A:ARG:H	19	0.18
(1,352)	1:66:A:LEU:HG	1:67:A:ALA:H	10	0.18
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB2	20	0.18
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB3	20	0.18
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	7	0.18
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	8	0.18
(1,123)	1:31:A:LEU:H	1:31:A:LEU:HG	2	0.18
(1,3847)	1:195:A:SER:H	1:194:A:GLN:HG2	11	0.17
(1,3844)	1:175:A:PRO:HD2	1:177:A:THR:HB	14	0.17
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG22	11	0.17
(1,3748)	1:36:A:ARG:HD2	1:91:A:SER:HB3	2	0.17
(1,3735)	1:48:A:VAL:HG22	1:46:A:SER:H	1	0.17
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	15	0.17
(1,3695)	1:150:A:SER:HB2	1:147:A:LEU:HA	15	0.17
(1,3670)	1:23:A:ASN:H	1:26:A:ALA:HB1	7	0.17
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD11	19	0.17
(1,3587)	1:131:A:VAL:HB	1:51:A:ALA:HB2	14	0.17
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG22	4	0.17
(1,3537)	1:39:A:VAL:H	1:129:A:ILE:HG22	4	0.17
(1,3530)	1:42:A:GLN:H	1:41:A:GLN:HB2	3	0.17
(1,3530)	1:42:A:GLN:H	1:41:A:GLN:HB3	14	0.17
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG23	16	0.17
(1,3515)	1:31:A:LEU:HD22	1:31:A:LEU:HA	6	0.17
(1,3515)	1:31:A:LEU:HD23	1:31:A:LEU:HA	16	0.17
(1,3500)	1:74:A:VAL:HG23	1:73:A:ALA:HB1	15	0.17
(1,3474)	1:59:A:LEU:HB2	1:69:A:PHE:HB2	13	0.17
(1,3427)	1:113:A:LEU:HD21	1:94:A:LEU:HD22	3	0.17
(1,3424)	1:27:A:ASN:HB2	1:25:A:LEU:HD12	16	0.17
(1,3398)	1:71:A:VAL:H	1:68:A:ARG:HA	11	0.17
(1,3398)	1:71:A:VAL:H	1:68:A:ARG:HA	13	0.17
(1,3394)	1:43:A:ILE:HD12	1:41:A:GLN:HG3	20	0.17
(1,3376)	1:132:A:ASP:HB3	1:136:A:VAL:HG23	1	0.17
(1,3364)	1:117:A:LEU:HD12	1:105:A:ILE:HD12	10	0.17
(1,3348)	1:132:A:ASP:H	1:35:A:LEU:HD11	19	0.17
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG11	2	0.17
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD23	14	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3214)	1:14:A:SER:HB2	1:18:A:ILE:HD12	5	0.17
(1,3214)	1:14:A:SER:HB2	1:18:A:ILE:HD11	7	0.17
(1,3200)	1:99:A:VAL:HG11	1:194:A:GLN:HG2	7	0.17
(1,3200)	1:99:A:VAL:HG11	1:194:A:GLN:HG3	7	0.17
(1,3200)	1:99:A:VAL:HG12	1:194:A:GLN:HG2	7	0.17
(1,3200)	1:99:A:VAL:HG12	1:194:A:GLN:HG3	7	0.17
(1,3200)	1:99:A:VAL:HG13	1:194:A:GLN:HG2	7	0.17
(1,3200)	1:99:A:VAL:HG13	1:194:A:GLN:HG3	7	0.17
(1,3200)	1:99:A:VAL:HG21	1:194:A:GLN:HG2	7	0.17
(1,3200)	1:99:A:VAL:HG21	1:194:A:GLN:HG3	7	0.17
(1,3200)	1:99:A:VAL:HG22	1:194:A:GLN:HG2	7	0.17
(1,3200)	1:99:A:VAL:HG22	1:194:A:GLN:HG3	7	0.17
(1,3200)	1:99:A:VAL:HG23	1:194:A:GLN:HG2	7	0.17
(1,3200)	1:99:A:VAL:HG23	1:194:A:GLN:HG3	7	0.17
(1,3199)	1:99:A:VAL:HG11	1:194:A:GLN:HG2	7	0.17
(1,3199)	1:99:A:VAL:HG11	1:194:A:GLN:HG3	7	0.17
(1,3199)	1:99:A:VAL:HG12	1:194:A:GLN:HG2	7	0.17
(1,3199)	1:99:A:VAL:HG12	1:194:A:GLN:HG3	7	0.17
(1,3199)	1:99:A:VAL:HG13	1:194:A:GLN:HG2	7	0.17
(1,3199)	1:99:A:VAL:HG13	1:194:A:GLN:HG3	7	0.17
(1,3199)	1:99:A:VAL:HG21	1:194:A:GLN:HG2	7	0.17
(1,3199)	1:99:A:VAL:HG21	1:194:A:GLN:HG3	7	0.17
(1,3199)	1:99:A:VAL:HG22	1:194:A:GLN:HG2	7	0.17
(1,3199)	1:99:A:VAL:HG22	1:194:A:GLN:HG3	7	0.17
(1,3199)	1:99:A:VAL:HG23	1:194:A:GLN:HG2	7	0.17
(1,3199)	1:99:A:VAL:HG23	1:194:A:GLN:HG3	7	0.17
(1,3190)	1:17:A:LEU:HB2	1:191:A:PRO:HB2	8	0.17
(1,3190)	1:17:A:LEU:HB2	1:191:A:PRO:HB3	8	0.17
(1,3190)	1:17:A:LEU:HB3	1:191:A:PRO:HB2	8	0.17
(1,3190)	1:17:A:LEU:HB3	1:191:A:PRO:HB3	8	0.17
(1,3186)	1:20:A:ARG:H	1:191:A:PRO:HG2	17	0.17
(1,3186)	1:20:A:ARG:H	1:191:A:PRO:HG3	17	0.17
(1,3132)	1:161:A:ALA:HB1	1:175:A:PRO:HB2	18	0.17
(1,3132)	1:161:A:ALA:HB1	1:175:A:PRO:HB3	18	0.17
(1,3132)	1:161:A:ALA:HB2	1:175:A:PRO:HB2	18	0.17
(1,3132)	1:161:A:ALA:HB2	1:175:A:PRO:HB3	18	0.17
(1,3132)	1:161:A:ALA:HB3	1:175:A:PRO:HB2	18	0.17
(1,3132)	1:161:A:ALA:HB3	1:175:A:PRO:HB3	18	0.17
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG21	7	0.17
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG22	7	0.17
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG23	7	0.17
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG21	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG22	7	0.17
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG23	7	0.17
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG21	7	0.17
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG22	7	0.17
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG23	7	0.17
(1,3111)	1:158:A:GLN:HA	1:161:A:ALA:HB1	4	0.17
(1,3111)	1:158:A:GLN:HA	1:161:A:ALA:HB2	4	0.17
(1,3111)	1:158:A:GLN:HA	1:161:A:ALA:HB3	4	0.17
(1,3090)	1:27:A:ASN:HB2	1:149:A:THR:HG21	15	0.17
(1,3090)	1:27:A:ASN:HB2	1:149:A:THR:HG22	15	0.17
(1,3090)	1:27:A:ASN:HB2	1:149:A:THR:HG23	15	0.17
(1,3090)	1:27:A:ASN:HB3	1:149:A:THR:HG21	15	0.17
(1,3090)	1:27:A:ASN:HB3	1:149:A:THR:HG22	15	0.17
(1,3090)	1:27:A:ASN:HB3	1:149:A:THR:HG23	15	0.17
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG21	9	0.17
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG22	9	0.17
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG23	9	0.17
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG21	9	0.17
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG22	9	0.17
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG23	9	0.17
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG21	20	0.17
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG22	20	0.17
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG23	20	0.17
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG21	20	0.17
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG22	20	0.17
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG23	20	0.17
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB2	2	0.17
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB3	2	0.17
(1,3005)	1:37:A:THR:HG21	1:136:A:VAL:HA	3	0.17
(1,3005)	1:37:A:THR:HG22	1:136:A:VAL:HA	3	0.17
(1,3005)	1:37:A:THR:HG23	1:136:A:VAL:HA	3	0.17
(1,3002)	1:131:A:VAL:HG11	1:136:A:VAL:H	9	0.17
(1,3002)	1:131:A:VAL:HG12	1:136:A:VAL:H	9	0.17
(1,3002)	1:131:A:VAL:HG13	1:136:A:VAL:H	9	0.17
(1,3002)	1:131:A:VAL:HG21	1:136:A:VAL:H	9	0.17
(1,3002)	1:131:A:VAL:HG22	1:136:A:VAL:H	9	0.17
(1,3002)	1:131:A:VAL:HG23	1:136:A:VAL:H	9	0.17
(1,2999)	1:133:A:SER:HA	1:136:A:VAL:HG11	20	0.17
(1,2999)	1:133:A:SER:HA	1:136:A:VAL:HG12	20	0.17
(1,2999)	1:133:A:SER:HA	1:136:A:VAL:HG13	20	0.17
(1,2999)	1:133:A:SER:HA	1:136:A:VAL:HG21	20	0.17
(1,2999)	1:133:A:SER:HA	1:136:A:VAL:HG22	20	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2999)	1:133:A:SER:HA	1:136:A:VAL:HG23	20	0.17
(1,2985)	1:35:A:LEU:HD11	1:135:A:SER:HA	10	0.17
(1,2985)	1:35:A:LEU:HD12	1:135:A:SER:HA	10	0.17
(1,2985)	1:35:A:LEU:HD13	1:135:A:SER:HA	10	0.17
(1,2985)	1:35:A:LEU:HD21	1:135:A:SER:HA	10	0.17
(1,2985)	1:35:A:LEU:HD22	1:135:A:SER:HA	10	0.17
(1,2985)	1:35:A:LEU:HD23	1:135:A:SER:HA	10	0.17
(1,2981)	1:71:A:VAL:HB	1:134:A:GLY:HA2	11	0.17
(1,2981)	1:71:A:VAL:HB	1:134:A:GLY:HA3	11	0.17
(1,2961)	1:38:A:GLY:HA2	1:130:A:ASN:HA	6	0.17
(1,2961)	1:38:A:GLY:HA3	1:130:A:ASN:HA	6	0.17
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB1	3	0.17
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB2	3	0.17
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB3	3	0.17
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB1	3	0.17
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB2	3	0.17
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB3	3	0.17
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB1	3	0.17
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB2	3	0.17
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB3	3	0.17
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB1	3	0.17
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB2	3	0.17
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB3	3	0.17
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB1	3	0.17
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB2	3	0.17
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB3	3	0.17
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB1	3	0.17
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB2	3	0.17
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB3	3	0.17
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB1	18	0.17
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB2	18	0.17
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB3	18	0.17
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB1	18	0.17
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB2	18	0.17
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB3	18	0.17
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB1	18	0.17
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB2	18	0.17
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB3	18	0.17
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB1	18	0.17
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB2	18	0.17
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB3	18	0.17
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB1	18	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB2	18	0.17
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB3	18	0.17
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB1	18	0.17
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB2	18	0.17
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB3	18	0.17
(1,2869)	1:55:A:LEU:HB2	1:120:A:VAL:HA	1	0.17
(1,2869)	1:55:A:LEU:HB3	1:120:A:VAL:HA	1	0.17
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD11	20	0.17
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD12	20	0.17
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD13	20	0.17
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD21	20	0.17
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD22	20	0.17
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD23	20	0.17
(1,2731)	1:108:A:LEU:HG	1:109:A:GLY:HA2	7	0.17
(1,2731)	1:108:A:LEU:HG	1:109:A:GLY:HA3	7	0.17
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG21	11	0.17
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG22	11	0.17
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG23	11	0.17
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG21	11	0.17
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG22	11	0.17
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG23	11	0.17
(1,2609)	1:23:A:ASN:HD21	1:97:A:ALA:HA	20	0.17
(1,2609)	1:23:A:ASN:HD22	1:97:A:ALA:HA	20	0.17
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	11	0.17
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	11	0.17
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	11	0.17
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	11	0.17
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	11	0.17
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	11	0.17
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	14	0.17
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	14	0.17
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	14	0.17
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	14	0.17
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	14	0.17
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	14	0.17
(1,2447)	1:77:A:LEU:HB2	1:78:A:PRO:HG2	4	0.17
(1,2447)	1:77:A:LEU:HB2	1:78:A:PRO:HG3	4	0.17
(1,2447)	1:77:A:LEU:HB3	1:78:A:PRO:HG2	4	0.17
(1,2447)	1:77:A:LEU:HB3	1:78:A:PRO:HG3	4	0.17
(1,2447)	1:77:A:LEU:HB2	1:78:A:PRO:HG2	12	0.17
(1,2447)	1:77:A:LEU:HB2	1:78:A:PRO:HG3	12	0.17
(1,2447)	1:77:A:LEU:HB3	1:78:A:PRO:HG2	12	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2447)	1:77:A:LEU:HB3	1:78:A:PRO:HG3	12	0.17
(1,2444)	1:77:A:LEU:HG	1:78:A:PRO:HG2	14	0.17
(1,2444)	1:77:A:LEU:HG	1:78:A:PRO:HG3	14	0.17
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD11	3	0.17
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD12	3	0.17
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD13	3	0.17
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD21	3	0.17
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD22	3	0.17
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD23	3	0.17
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD11	3	0.17
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD12	3	0.17
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD13	3	0.17
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD21	3	0.17
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD22	3	0.17
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD23	3	0.17
(1,2287)	1:66:A:LEU:HD11	1:67:A:ALA:HA	2	0.17
(1,2287)	1:66:A:LEU:HD12	1:67:A:ALA:HA	2	0.17
(1,2287)	1:66:A:LEU:HD13	1:67:A:ALA:HA	2	0.17
(1,2287)	1:66:A:LEU:HD21	1:67:A:ALA:HA	2	0.17
(1,2287)	1:66:A:LEU:HD22	1:67:A:ALA:HA	2	0.17
(1,2287)	1:66:A:LEU:HD23	1:67:A:ALA:HA	2	0.17
(1,2217)	1:56:A:ALA:HB1	1:58:A:THR:HB	12	0.17
(1,2217)	1:56:A:ALA:HB2	1:58:A:THR:HB	12	0.17
(1,2217)	1:56:A:ALA:HB3	1:58:A:THR:HB	12	0.17
(1,2217)	1:56:A:ALA:HB1	1:58:A:THR:HB	16	0.17
(1,2217)	1:56:A:ALA:HB2	1:58:A:THR:HB	16	0.17
(1,2217)	1:56:A:ALA:HB3	1:58:A:THR:HB	16	0.17
(1,2210)	1:54:A:SER:HA	1:57:A:SER:HB2	3	0.17
(1,2210)	1:54:A:SER:HA	1:57:A:SER:HB3	3	0.17
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD11	6	0.17
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD12	6	0.17
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD13	6	0.17
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD21	6	0.17
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD22	6	0.17
(1,2195)	1:50:A:ARG:H	1:55:A:LEU:HD23	6	0.17
(1,2163)	1:50:A:ARG:HD2	1:52:A:ALA:HA	5	0.17
(1,2163)	1:50:A:ARG:HD3	1:52:A:ALA:HA	5	0.17
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	12	0.17
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	12	0.17
(1,2105)	1:41:A:GLN:HB2	1:44:A:ALA:HA	4	0.17
(1,2105)	1:41:A:GLN:HB3	1:44:A:ALA:HA	4	0.17
(1,1970)	1:31:A:LEU:HD11	1:32:A:ARG:HE	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1970)	1:31:A:LEU:HD12	1:32:A:ARG:HE	11	0.17
(1,1970)	1:31:A:LEU:HD13	1:32:A:ARG:HE	11	0.17
(1,1970)	1:31:A:LEU:HD21	1:32:A:ARG:HE	11	0.17
(1,1970)	1:31:A:LEU:HD22	1:32:A:ARG:HE	11	0.17
(1,1970)	1:31:A:LEU:HD23	1:32:A:ARG:HE	11	0.17
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD11	9	0.17
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD12	9	0.17
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD13	9	0.17
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD21	9	0.17
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD22	9	0.17
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD23	9	0.17
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD11	9	0.17
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD12	9	0.17
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD13	9	0.17
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD21	9	0.17
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD22	9	0.17
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD23	9	0.17
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD11	9	0.17
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD12	9	0.17
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD13	9	0.17
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD21	9	0.17
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD22	9	0.17
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD23	9	0.17
(1,1803)	1:177:A:THR:H	1:175:A:PRO:HA	15	0.17
(1,1483)	1:79:A:ALA:HA	1:80:A:GLY:H	5	0.17
(1,1411)	1:62:A:ASP:HA	1:63:A:GLY:H	4	0.17
(1,1401)	1:59:A:LEU:HB2	1:61:A:VAL:H	5	0.17
(1,1401)	1:59:A:LEU:HB3	1:61:A:VAL:H	5	0.17
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG23	18	0.17
(1,1146)	1:70:A:ALA:H	1:71:A:VAL:HG12	15	0.17
(1,1138)	1:76:A:ARG:HB2	1:74:A:VAL:H	17	0.17
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	7	0.17
(1,1107)	1:109:A:GLY:H	1:105:A:ILE:HB	11	0.17
(1,1066)	1:178:A:GLY:H	1:188:A:GLY:HA3	4	0.17
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA2	4	0.17
(1,967)	1:10:A:THR:H	1:11:A:GLY:HA3	16	0.17
(1,957)	1:109:A:GLY:H	1:108:A:LEU:HB2	7	0.17
(1,945)	1:194:A:GLN:HG2	1:196:A:GLY:H	9	0.17
(1,945)	1:194:A:GLN:HG3	1:196:A:GLY:H	9	0.17
(1,933)	1:20:A:ARG:H	1:191:A:PRO:HG2	17	0.17
(1,933)	1:20:A:ARG:H	1:191:A:PRO:HG3	17	0.17
(1,927)	1:179:A:PRO:HD2	1:187:A:GLY:H	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,927)	1:179:A:PRO:HD3	1:187:A:GLY:H	5	0.17
(1,919)	1:180:A:SER:H	1:180:A:SER:HB2	17	0.17
(1,919)	1:180:A:SER:H	1:180:A:SER:HB3	17	0.17
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG2	1	0.17
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG3	1	0.17
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE21	8	0.17
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE22	8	0.17
(1,815)	1:132:A:ASP:HB2	1:135:A:SER:H	5	0.17
(1,815)	1:132:A:ASP:HB3	1:135:A:SER:H	5	0.17
(1,788)	1:129:A:ILE:HB	1:130:A:ASN:H	17	0.17
(1,609)	1:101:A:ASN:H	1:105:A:ILE:H	11	0.17
(1,594)	1:100:A:LEU:HD11	1:104:A:ASN:H	5	0.17
(1,594)	1:100:A:LEU:HD12	1:104:A:ASN:H	5	0.17
(1,594)	1:100:A:LEU:HD13	1:104:A:ASN:H	5	0.17
(1,594)	1:100:A:LEU:HD21	1:104:A:ASN:H	5	0.17
(1,594)	1:100:A:LEU:HD22	1:104:A:ASN:H	5	0.17
(1,594)	1:100:A:LEU:HD23	1:104:A:ASN:H	5	0.17
(1,588)	1:101:A:ASN:H	1:104:A:ASN:HD21	8	0.17
(1,588)	1:101:A:ASN:H	1:104:A:ASN:HD22	8	0.17
(1,433)	1:79:A:ALA:HA	1:80:A:GLY:H	5	0.17
(1,342)	1:60:A:GLY:HA2	1:65:A:ASN:HD21	5	0.17
(1,342)	1:60:A:GLY:HA2	1:65:A:ASN:HD22	5	0.17
(1,342)	1:60:A:GLY:HA3	1:65:A:ASN:HD21	5	0.17
(1,342)	1:60:A:GLY:HA3	1:65:A:ASN:HD22	5	0.17
(1,320)	1:62:A:ASP:HA	1:63:A:GLY:H	4	0.17
(1,313)	1:59:A:LEU:HB2	1:61:A:VAL:H	5	0.17
(1,313)	1:59:A:LEU:HB3	1:61:A:VAL:H	5	0.17
(1,312)	1:59:A:LEU:HB2	1:61:A:VAL:H	5	0.17
(1,312)	1:59:A:LEU:HB3	1:61:A:VAL:H	5	0.17
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD11	7	0.17
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD12	7	0.17
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD13	7	0.17
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD21	7	0.17
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD22	7	0.17
(1,127)	1:27:A:ASN:HD21	1:31:A:LEU:HD23	7	0.17
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD11	7	0.17
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD12	7	0.17
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD13	7	0.17
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD21	7	0.17
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD22	7	0.17
(1,127)	1:27:A:ASN:HD22	1:31:A:LEU:HD23	7	0.17
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD1	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD2	4	0.16
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD1	4	0.16
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD2	4	0.16
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD1	4	0.16
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD2	4	0.16
(1,3892)	1:37:A:THR:HG21	1:95:A:PHE:HE1	9	0.16
(1,3892)	1:37:A:THR:HG21	1:95:A:PHE:HE2	9	0.16
(1,3892)	1:37:A:THR:HG22	1:95:A:PHE:HE1	9	0.16
(1,3892)	1:37:A:THR:HG22	1:95:A:PHE:HE2	9	0.16
(1,3892)	1:37:A:THR:HG23	1:95:A:PHE:HE1	9	0.16
(1,3892)	1:37:A:THR:HG23	1:95:A:PHE:HE2	9	0.16
(1,3876)	1:44:A:ALA:HB1	1:86:A:TYR:HE1	18	0.16
(1,3876)	1:44:A:ALA:HB1	1:86:A:TYR:HE2	18	0.16
(1,3876)	1:44:A:ALA:HB2	1:86:A:TYR:HE1	18	0.16
(1,3876)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	18	0.16
(1,3876)	1:44:A:ALA:HB3	1:86:A:TYR:HE1	18	0.16
(1,3876)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	18	0.16
(1,3778)	1:129:A:ILE:HG23	1:130:A:ASN:HB2	5	0.16
(1,3617)	1:124:A:ALA:HB3	1:125:A:GLN:HB2	20	0.16
(1,3616)	1:31:A:LEU:HD21	1:26:A:ALA:HB3	9	0.16
(1,3599)	1:129:A:ILE:HG23	1:37:A:THR:HG23	5	0.16
(1,3592)	1:99:A:VAL:HG11	1:22:A:ALA:HB3	2	0.16
(1,3589)	1:117:A:LEU:HB3	1:105:A:ILE:HG13	8	0.16
(1,3587)	1:96:A:ASN:HB2	1:124:A:ALA:HB2	18	0.16
(1,3530)	1:42:A:GLN:H	1:41:A:GLN:HB2	17	0.16
(1,3525)	1:92:A:SER:HA	1:95:A:PHE:HD2	18	0.16
(1,3512)	1:53:A:GLN:HB3	1:57:A:SER:HB3	2	0.16
(1,3464)	1:126:A:GLY:HA3	1:123:A:ALA:HA	11	0.16
(1,3437)	1:101:A:ASN:HB2	1:194:A:GLN:HG3	1	0.16
(1,3434)	1:135:A:SER:HA	1:139:A:ASP:HB2	16	0.16
(1,3398)	1:71:A:VAL:H	1:68:A:ARG:HA	16	0.16
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB1	2	0.16
(1,3368)	1:69:A:PHE:H	1:70:A:ALA:HB3	8	0.16
(1,3319)	1:61:A:VAL:HG21	1:65:A:ASN:HB2	19	0.16
(1,3278)	1:101:A:ASN:H	1:105:A:ILE:HD12	1	0.16
(1,3238)	1:129:A:ILE:HD12	1:128:A:GLY:HA2	2	0.16
(1,3184)	1:20:A:ARG:HA	1:191:A:PRO:HD2	19	0.16
(1,3184)	1:20:A:ARG:HA	1:191:A:PRO:HD3	19	0.16
(1,3173)	1:177:A:THR:HG21	1:190:A:ALA:HA	16	0.16
(1,3173)	1:177:A:THR:HG22	1:190:A:ALA:HA	16	0.16
(1,3173)	1:177:A:THR:HG23	1:190:A:ALA:HA	16	0.16
(1,3160)	1:185:A:PRO:HG2	1:186:A:LEU:HG	15	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3160)	1:185:A:PRO:HG3	1:186:A:LEU:HG	15	0.16
(1,3132)	1:161:A:ALA:HB1	1:175:A:PRO:HB2	3	0.16
(1,3132)	1:161:A:ALA:HB1	1:175:A:PRO:HB3	3	0.16
(1,3132)	1:161:A:ALA:HB2	1:175:A:PRO:HB2	3	0.16
(1,3132)	1:161:A:ALA:HB2	1:175:A:PRO:HB3	3	0.16
(1,3132)	1:161:A:ALA:HB3	1:175:A:PRO:HB2	3	0.16
(1,3132)	1:161:A:ALA:HB3	1:175:A:PRO:HB3	3	0.16
(1,3122)	1:20:A:ARG:HG2	1:171:A:GLY:HA2	1	0.16
(1,3122)	1:20:A:ARG:HG2	1:171:A:GLY:HA3	1	0.16
(1,3122)	1:20:A:ARG:HG3	1:171:A:GLY:HA2	1	0.16
(1,3122)	1:20:A:ARG:HG3	1:171:A:GLY:HA3	1	0.16
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG21	1	0.16
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG22	1	0.16
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG23	1	0.16
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG21	1	0.16
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG22	1	0.16
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG23	1	0.16
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG21	1	0.16
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG22	1	0.16
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG23	1	0.16
(1,3114)	1:163:A:SER:HA	1:167:A:ALA:HB1	12	0.16
(1,3114)	1:163:A:SER:HA	1:167:A:ALA:HB2	12	0.16
(1,3114)	1:163:A:SER:HA	1:167:A:ALA:HB3	12	0.16
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB1	1	0.16
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB2	1	0.16
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB3	1	0.16
(1,3021)	1:28:A:THR:HG21	1:139:A:ASP:HA	2	0.16
(1,3021)	1:28:A:THR:HG22	1:139:A:ASP:HA	2	0.16
(1,3021)	1:28:A:THR:HG23	1:139:A:ASP:HA	2	0.16
(1,3005)	1:37:A:THR:HG21	1:136:A:VAL:HA	11	0.16
(1,3005)	1:37:A:THR:HG22	1:136:A:VAL:HA	11	0.16
(1,3005)	1:37:A:THR:HG23	1:136:A:VAL:HA	11	0.16
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB2	6	0.16
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB3	6	0.16
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB2	6	0.16
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB3	6	0.16
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB2	6	0.16
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB3	6	0.16
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB2	6	0.16
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB3	6	0.16
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB2	6	0.16
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB3	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB2	6	0.16
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB3	6	0.16
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB2	6	0.16
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB3	6	0.16
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB2	6	0.16
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB3	6	0.16
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB2	6	0.16
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB3	6	0.16
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB2	6	0.16
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB3	6	0.16
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB2	6	0.16
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB3	6	0.16
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB2	6	0.16
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB3	6	0.16
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB2	18	0.16
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB3	18	0.16
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB2	18	0.16
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB3	18	0.16
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB2	18	0.16
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB3	18	0.16
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB2	18	0.16
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB3	18	0.16
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB2	18	0.16
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB3	18	0.16
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB2	18	0.16
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB3	18	0.16
(1,2835)	1:110:A:SER:HA	1:117:A:LEU:HA	8	0.16
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD2	20	0.16
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD3	20	0.16
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG21	20	0.16
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG22	20	0.16
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG23	20	0.16
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG21	20	0.16
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG22	20	0.16
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG23	20	0.16
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	9	0.16
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	9	0.16
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	9	0.16
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	9	0.16
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	9	0.16
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	9	0.16
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	9	0.16
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	9	0.16
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	9	0.16
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	9	0.16
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	9	0.16
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	9	0.16
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	9	0.16
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	9	0.16
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	9	0.16
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	9	0.16
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	9	0.16
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	9	0.16
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	9	0.16
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	9	0.16
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	9	0.16
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	9	0.16
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	9	0.16
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	9	0.16
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	9	0.16
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	9	0.16
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	9	0.16
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	9	0.16
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	9	0.16
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	9	0.16
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	9	0.16
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	9	0.16
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	9	0.16
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	9	0.16
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	9	0.16
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	12	0.16
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	12	0.16
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	12	0.16
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	12	0.16
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	12	0.16
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	12	0.16
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	12	0.16
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	12	0.16
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	12	0.16
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	12	0.16
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	12	0.16
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	12	0.16
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	12	0.16
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	12	0.16
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	12	0.16
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	12	0.16
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	12	0.16
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	12	0.16
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	12	0.16
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	12	0.16
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	12	0.16
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	12	0.16
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	12	0.16
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	12	0.16
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	12	0.16
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	12	0.16
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	12	0.16
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	12	0.16
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	12	0.16
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	12	0.16
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	12	0.16
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	12	0.16
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	12	0.16
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	12	0.16
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	12	0.16
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	9	0.16
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	9	0.16
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	9	0.16
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	9	0.16
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	9	0.16
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	9	0.16
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	9	0.16
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	9	0.16
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	9	0.16
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	9	0.16
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	9	0.16
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	9	0.16
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	9	0.16
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	9	0.16
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	9	0.16
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	9	0.16
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	9	0.16
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	9	0.16
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	9	0.16
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	9	0.16
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	9	0.16
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	9	0.16
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	9	0.16
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	9	0.16
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	9	0.16
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	9	0.16
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	9	0.16
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	9	0.16
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	9	0.16
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	9	0.16
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	9	0.16
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	9	0.16
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	9	0.16
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	9	0.16
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	9	0.16
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	12	0.16
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	12	0.16
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	12	0.16
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	12	0.16
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	12	0.16
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	12	0.16
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	12	0.16
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	12	0.16
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	12	0.16
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	12	0.16
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	12	0.16
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	12	0.16
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	12	0.16
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	12	0.16
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	12	0.16
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	12	0.16
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	12	0.16
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	12	0.16
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	12	0.16
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	12	0.16
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	12	0.16
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	12	0.16
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	12	0.16
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	12	0.16
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	12	0.16
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	12	0.16
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	12	0.16
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	12	0.16
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	12	0.16
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	12	0.16
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	12	0.16
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	12	0.16
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	12	0.16
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	12	0.16
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	12	0.16
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	2	0.16
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	2	0.16
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	2	0.16
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	2	0.16
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	2	0.16
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	2	0.16
(1,2520)	1:85:A:ALA:HA	1:88:A:GLN:HB2	18	0.16
(1,2520)	1:85:A:ALA:HA	1:88:A:GLN:HB3	18	0.16
(1,2517)	1:87:A:ALA:HB1	1:88:A:GLN:HE21	13	0.16
(1,2517)	1:87:A:ALA:HB1	1:88:A:GLN:HE22	13	0.16
(1,2517)	1:87:A:ALA:HB2	1:88:A:GLN:HE21	13	0.16
(1,2517)	1:87:A:ALA:HB2	1:88:A:GLN:HE22	13	0.16
(1,2517)	1:87:A:ALA:HB3	1:88:A:GLN:HE21	13	0.16
(1,2517)	1:87:A:ALA:HB3	1:88:A:GLN:HE22	13	0.16
(1,2496)	1:35:A:LEU:HD11	1:86:A:TYR:HD1	17	0.16
(1,2496)	1:35:A:LEU:HD11	1:86:A:TYR:HD2	17	0.16
(1,2496)	1:35:A:LEU:HD12	1:86:A:TYR:HD1	17	0.16
(1,2496)	1:35:A:LEU:HD12	1:86:A:TYR:HD2	17	0.16
(1,2496)	1:35:A:LEU:HD13	1:86:A:TYR:HD1	17	0.16
(1,2496)	1:35:A:LEU:HD13	1:86:A:TYR:HD2	17	0.16
(1,2496)	1:35:A:LEU:HD21	1:86:A:TYR:HD1	17	0.16
(1,2496)	1:35:A:LEU:HD21	1:86:A:TYR:HD2	17	0.16
(1,2496)	1:35:A:LEU:HD22	1:86:A:TYR:HD1	17	0.16
(1,2496)	1:35:A:LEU:HD22	1:86:A:TYR:HD2	17	0.16
(1,2496)	1:35:A:LEU:HD23	1:86:A:TYR:HD1	17	0.16
(1,2496)	1:35:A:LEU:HD23	1:86:A:TYR:HD2	17	0.16
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE1	17	0.16
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE2	17	0.16
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE1	17	0.16
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE2	17	0.16
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE1	17	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE2	17	0.16
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE1	17	0.16
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE2	17	0.16
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE1	17	0.16
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE2	17	0.16
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE1	17	0.16
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE2	17	0.16
(1,2280)	1:62:A:ASP:HA	1:66:A:LEU:HG	13	0.16
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD21	1	0.16
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD22	1	0.16
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD21	1	0.16
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD22	1	0.16
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD21	16	0.16
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD22	16	0.16
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD21	16	0.16
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD22	16	0.16
(1,2176)	1:50:A:ARG:HD2	1:54:A:SER:HA	10	0.16
(1,2176)	1:50:A:ARG:HD3	1:54:A:SER:HA	10	0.16
(1,2163)	1:50:A:ARG:HD2	1:52:A:ALA:HA	10	0.16
(1,2163)	1:50:A:ARG:HD3	1:52:A:ALA:HA	10	0.16
(1,2163)	1:50:A:ARG:HD2	1:52:A:ALA:HA	14	0.16
(1,2163)	1:50:A:ARG:HD3	1:52:A:ALA:HA	14	0.16
(1,2086)	1:40:A:SER:HB2	1:43:A:ILE:HG21	9	0.16
(1,2086)	1:40:A:SER:HB2	1:43:A:ILE:HG22	9	0.16
(1,2086)	1:40:A:SER:HB2	1:43:A:ILE:HG23	9	0.16
(1,2086)	1:40:A:SER:HB3	1:43:A:ILE:HG21	9	0.16
(1,2086)	1:40:A:SER:HB3	1:43:A:ILE:HG22	9	0.16
(1,2086)	1:40:A:SER:HB3	1:43:A:ILE:HG23	9	0.16
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG11	11	0.16
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG12	11	0.16
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG13	11	0.16
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG21	11	0.16
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG22	11	0.16
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG23	11	0.16
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG11	11	0.16
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG12	11	0.16
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG13	11	0.16
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG21	11	0.16
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG22	11	0.16
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG23	11	0.16
(1,1868)	1:18:A:ILE:HB	1:19:A:SER:HB2	11	0.16
(1,1868)	1:18:A:ILE:HB	1:19:A:SER:HB3	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1483)	1:79:A:ALA:HA	1:80:A:GLY:H	1	0.16
(1,1483)	1:79:A:ALA:HA	1:80:A:GLY:H	13	0.16
(1,1411)	1:62:A:ASP:HA	1:63:A:GLY:H	8	0.16
(1,1411)	1:62:A:ASP:HA	1:63:A:GLY:H	9	0.16
(1,1411)	1:62:A:ASP:HA	1:63:A:GLY:H	11	0.16
(1,1411)	1:62:A:ASP:HA	1:63:A:GLY:H	14	0.16
(1,1403)	1:53:A:GLN:HE21	1:61:A:VAL:HB	9	0.16
(1,1403)	1:53:A:GLN:HE22	1:61:A:VAL:HB	9	0.16
(1,1183)	1:67:A:ALA:H	1:66:A:LEU:H	8	0.16
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG21	7	0.16
(1,1154)	1:106:A:ASP:H	1:105:A:ILE:HG13	4	0.16
(1,1154)	1:106:A:ASP:H	1:105:A:ILE:HG13	8	0.16
(1,1138)	1:76:A:ARG:HB3	1:74:A:VAL:H	13	0.16
(1,1116)	1:93:A:ALA:H	1:94:A:LEU:HD21	1	0.16
(1,1045)	1:45:A:SER:H	1:48:A:VAL:HG13	17	0.16
(1,1017)	1:102:A:ALA:H	1:105:A:ILE:HD13	8	0.16
(1,1008)	1:40:A:SER:H	1:42:A:GLN:HB2	5	0.16
(1,968)	1:127:A:LEU:H	1:127:A:LEU:HD21	18	0.16
(1,957)	1:109:A:GLY:H	1:108:A:LEU:HB2	4	0.16
(1,957)	1:109:A:GLY:H	1:108:A:LEU:HB3	5	0.16
(1,949)	1:139:A:ASP:H	1:140:A:ILE:HG23	4	0.16
(1,946)	1:196:A:GLY:H	1:197:A:PHE:HA	3	0.16
(1,945)	1:194:A:GLN:HG2	1:196:A:GLY:H	2	0.16
(1,945)	1:194:A:GLN:HG3	1:196:A:GLY:H	2	0.16
(1,920)	1:149:A:THR:HB	1:180:A:SER:H	5	0.16
(1,781)	1:127:A:LEU:H	1:129:A:ILE:H	3	0.16
(1,781)	1:127:A:LEU:H	1:129:A:ILE:H	11	0.16
(1,771)	1:127:A:LEU:H	1:128:A:GLY:HA2	15	0.16
(1,771)	1:127:A:LEU:H	1:128:A:GLY:HA3	15	0.16
(1,455)	1:83:A:THR:HG21	1:84:A:SER:H	17	0.16
(1,455)	1:83:A:THR:HG22	1:84:A:SER:H	17	0.16
(1,455)	1:83:A:THR:HG23	1:84:A:SER:H	17	0.16
(1,433)	1:79:A:ALA:HA	1:80:A:GLY:H	1	0.16
(1,433)	1:79:A:ALA:HA	1:80:A:GLY:H	13	0.16
(1,332)	1:61:A:VAL:HA	1:64:A:ASN:H	12	0.16
(1,320)	1:62:A:ASP:HA	1:63:A:GLY:H	8	0.16
(1,320)	1:62:A:ASP:HA	1:63:A:GLY:H	9	0.16
(1,320)	1:62:A:ASP:HA	1:63:A:GLY:H	11	0.16
(1,320)	1:62:A:ASP:HA	1:63:A:GLY:H	14	0.16
(1,315)	1:53:A:GLN:HE21	1:61:A:VAL:HB	9	0.16
(1,315)	1:53:A:GLN:HE22	1:61:A:VAL:HB	9	0.16
(1,268)	1:50:A:ARG:HG2	1:53:A:GLN:H	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,268)	1:50:A:ARG:HG3	1:53:A:GLN:H	8	0.16
(1,221)	1:2:A:GLY:H	1:45:A:SER:HA	8	0.16
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	12	0.16
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	17	0.16
(1,160)	1:30:A:THR:HG21	1:35:A:LEU:H	14	0.16
(1,160)	1:30:A:THR:HG22	1:35:A:LEU:H	14	0.16
(1,160)	1:30:A:THR:HG23	1:35:A:LEU:H	14	0.16
(1,123)	1:31:A:LEU:H	1:31:A:LEU:HG	5	0.16
(1,106)	1:27:A:ASN:H	1:27:A:ASN:HD21	20	0.16
(1,106)	1:27:A:ASN:H	1:27:A:ASN:HD22	20	0.16
(1,3908)	1:77:A:LEU:HG	1:86:A:TYR:HE2	5	0.15
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD1	12	0.15
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD2	12	0.15
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD1	12	0.15
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD2	12	0.15
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD1	12	0.15
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD2	12	0.15
(1,3892)	1:37:A:THR:HG21	1:95:A:PHE:HE1	19	0.15
(1,3892)	1:37:A:THR:HG21	1:95:A:PHE:HE2	19	0.15
(1,3892)	1:37:A:THR:HG22	1:95:A:PHE:HE1	19	0.15
(1,3892)	1:37:A:THR:HG22	1:95:A:PHE:HE2	19	0.15
(1,3892)	1:37:A:THR:HG23	1:95:A:PHE:HE1	19	0.15
(1,3892)	1:37:A:THR:HG23	1:95:A:PHE:HE2	19	0.15
(1,3864)	1:11:A:GLY:H	1:93:A:ALA:HB3	7	0.15
(1,3858)	1:108:A:LEU:H	1:108:A:LEU:HG	7	0.15
(1,3844)	1:175:A:PRO:HD2	1:177:A:THR:HB	15	0.15
(1,3835)	1:139:A:ASP:HB3	1:29:A:SER:HB2	7	0.15
(1,3833)	1:113:A:LEU:HA	1:113:A:LEU:HD12	7	0.15
(1,3771)	1:29:A:SER:HB2	1:30:A:THR:HG21	16	0.15
(1,3677)	1:13:A:ALA:HB2	1:14:A:SER:HB2	4	0.15
(1,3655)	1:87:A:ALA:HB2	1:39:A:VAL:HA	17	0.15
(1,3649)	1:129:A:ILE:HG23	1:131:A:VAL:H	8	0.15
(1,3515)	1:31:A:LEU:HD22	1:31:A:LEU:HA	13	0.15
(1,3492)	1:120:A:VAL:HB	1:124:A:ALA:HB2	19	0.15
(1,3482)	1:56:A:ALA:H	1:55:A:LEU:HD11	7	0.15
(1,3472)	1:78:A:PRO:HG2	1:77:A:LEU:HD23	3	0.15
(1,3464)	1:126:A:GLY:HA3	1:123:A:ALA:HA	17	0.15
(1,3404)	1:35:A:LEU:HB3	1:88:A:GLN:HG2	19	0.15
(1,3398)	1:71:A:VAL:H	1:68:A:ARG:HA	10	0.15
(1,3368)	1:69:A:PHE:H	1:70:A:ALA:HB3	15	0.15
(1,3355)	1:28:A:THR:HG22	1:34:A:VAL:HB	2	0.15
(1,3344)	1:93:A:ALA:HB2	1:105:A:ILE:HD13	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3287)	1:122:A:SER:HB3	1:121:A:SER:HB2	2	0.15
(1,3281)	1:77:A:LEU:HB2	1:74:A:VAL:HG12	19	0.15
(1,3251)	1:47:A:VAL:HB	1:73:A:ALA:HB2	1	0.15
(1,3224)	1:65:A:ASN:HB2	1:61:A:VAL:HG22	9	0.15
(1,3210)	1:185:A:PRO:HD2	1:199:A:GLY:HA2	17	0.15
(1,3210)	1:185:A:PRO:HD2	1:199:A:GLY:HA3	17	0.15
(1,3210)	1:185:A:PRO:HD3	1:199:A:GLY:HA2	17	0.15
(1,3210)	1:185:A:PRO:HD3	1:199:A:GLY:HA3	17	0.15
(1,3208)	1:99:A:VAL:HA	1:197:A:PHE:HA	17	0.15
(1,3202)	1:99:A:VAL:HG11	1:194:A:GLN:HA	3	0.15
(1,3202)	1:99:A:VAL:HG12	1:194:A:GLN:HA	3	0.15
(1,3202)	1:99:A:VAL:HG13	1:194:A:GLN:HA	3	0.15
(1,3202)	1:99:A:VAL:HG21	1:194:A:GLN:HA	3	0.15
(1,3202)	1:99:A:VAL:HG22	1:194:A:GLN:HA	3	0.15
(1,3202)	1:99:A:VAL:HG23	1:194:A:GLN:HA	3	0.15
(1,3197)	1:191:A:PRO:HD2	1:194:A:GLN:HG2	8	0.15
(1,3197)	1:191:A:PRO:HD2	1:194:A:GLN:HG3	8	0.15
(1,3197)	1:191:A:PRO:HD3	1:194:A:GLN:HG2	8	0.15
(1,3197)	1:191:A:PRO:HD3	1:194:A:GLN:HG3	8	0.15
(1,3124)	1:31:A:LEU:HD11	1:172:A:PRO:HD2	7	0.15
(1,3124)	1:31:A:LEU:HD11	1:172:A:PRO:HD3	7	0.15
(1,3124)	1:31:A:LEU:HD12	1:172:A:PRO:HD2	7	0.15
(1,3124)	1:31:A:LEU:HD12	1:172:A:PRO:HD3	7	0.15
(1,3124)	1:31:A:LEU:HD13	1:172:A:PRO:HD2	7	0.15
(1,3124)	1:31:A:LEU:HD13	1:172:A:PRO:HD3	7	0.15
(1,3124)	1:31:A:LEU:HD21	1:172:A:PRO:HD2	7	0.15
(1,3124)	1:31:A:LEU:HD21	1:172:A:PRO:HD3	7	0.15
(1,3124)	1:31:A:LEU:HD22	1:172:A:PRO:HD2	7	0.15
(1,3124)	1:31:A:LEU:HD22	1:172:A:PRO:HD3	7	0.15
(1,3124)	1:31:A:LEU:HD23	1:172:A:PRO:HD2	7	0.15
(1,3124)	1:31:A:LEU:HD23	1:172:A:PRO:HD3	7	0.15
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG21	20	0.15
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG22	20	0.15
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG23	20	0.15
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG21	20	0.15
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG22	20	0.15
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG23	20	0.15
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG21	20	0.15
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG22	20	0.15
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG23	20	0.15
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB2	9	0.15
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB3	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB2	11	0.15
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB3	11	0.15
(1,3060)	1:137:A:GLN:HG2	1:141:A:SER:HA	15	0.15
(1,3060)	1:137:A:GLN:HG3	1:141:A:SER:HA	15	0.15
(1,3052)	1:29:A:SER:HB2	1:140:A:ILE:HA	19	0.15
(1,3052)	1:29:A:SER:HB3	1:140:A:ILE:HA	19	0.15
(1,3003)	1:131:A:VAL:HG11	1:136:A:VAL:HB	4	0.15
(1,3003)	1:131:A:VAL:HG12	1:136:A:VAL:HB	4	0.15
(1,3003)	1:131:A:VAL:HG13	1:136:A:VAL:HB	4	0.15
(1,3003)	1:131:A:VAL:HG21	1:136:A:VAL:HB	4	0.15
(1,3003)	1:131:A:VAL:HG22	1:136:A:VAL:HB	4	0.15
(1,3003)	1:131:A:VAL:HG23	1:136:A:VAL:HB	4	0.15
(1,2981)	1:71:A:VAL:HB	1:134:A:GLY:HA2	14	0.15
(1,2981)	1:71:A:VAL:HB	1:134:A:GLY:HA3	14	0.15
(1,2962)	1:52:A:ALA:HB1	1:130:A:ASN:HB2	6	0.15
(1,2962)	1:52:A:ALA:HB1	1:130:A:ASN:HB3	6	0.15
(1,2962)	1:52:A:ALA:HB2	1:130:A:ASN:HB2	6	0.15
(1,2962)	1:52:A:ALA:HB2	1:130:A:ASN:HB3	6	0.15
(1,2962)	1:52:A:ALA:HB3	1:130:A:ASN:HB2	6	0.15
(1,2962)	1:52:A:ALA:HB3	1:130:A:ASN:HB3	6	0.15
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB2	8	0.15
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB3	8	0.15
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB2	8	0.15
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB3	8	0.15
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB2	8	0.15
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB3	8	0.15
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB2	8	0.15
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB3	8	0.15
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB2	8	0.15
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB3	8	0.15
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB2	8	0.15
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB3	8	0.15
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB1	9	0.15
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB2	9	0.15
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB3	9	0.15
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB1	9	0.15
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB2	9	0.15
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB3	9	0.15
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB1	9	0.15
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB2	9	0.15
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB3	9	0.15
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB1	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB2	9	0.15
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB3	9	0.15
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB1	9	0.15
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB2	9	0.15
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB3	9	0.15
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB1	9	0.15
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB2	9	0.15
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB3	9	0.15
(1,2869)	1:55:A:LEU:HB2	1:120:A:VAL:HA	3	0.15
(1,2869)	1:55:A:LEU:HB3	1:120:A:VAL:HA	3	0.15
(1,2804)	1:9:A:ALA:HB1	1:116:A:LEU:HB2	10	0.15
(1,2804)	1:9:A:ALA:HB1	1:116:A:LEU:HB3	10	0.15
(1,2804)	1:9:A:ALA:HB2	1:116:A:LEU:HB2	10	0.15
(1,2804)	1:9:A:ALA:HB2	1:116:A:LEU:HB3	10	0.15
(1,2804)	1:9:A:ALA:HB3	1:116:A:LEU:HB2	10	0.15
(1,2804)	1:9:A:ALA:HB3	1:116:A:LEU:HB3	10	0.15
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD11	8	0.15
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD12	8	0.15
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD13	8	0.15
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD21	8	0.15
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD22	8	0.15
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD23	8	0.15
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG21	13	0.15
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG22	13	0.15
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG23	13	0.15
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG21	13	0.15
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG22	13	0.15
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG23	13	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	6	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	6	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	6	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	6	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	6	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	6	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	6	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	6	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	6	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	6	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	6	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	6	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	6	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	6	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	6	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	6	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	6	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	6	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	6	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	6	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	6	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	6	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	6	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	6	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	6	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	6	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	6	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	6	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	6	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	6	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	6	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	6	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	6	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	6	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	6	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	14	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	14	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	14	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	14	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	14	0.15
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	14	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	14	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	14	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	14	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	14	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	14	0.15
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	14	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	14	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	14	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	14	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	14	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	14	0.15
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	14	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	14	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	14	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	14	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	14	0.15
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	14	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	14	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	14	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	14	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	14	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	14	0.15
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	14	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	14	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	14	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	14	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	14	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	14	0.15
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	14	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	6	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	6	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	6	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	6	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	6	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	6	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	6	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	6	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	6	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	6	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	6	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	6	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	6	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	6	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	6	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	6	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	6	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	6	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	6	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	6	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	6	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	6	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	6	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	6	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	6	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	6	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	6	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	6	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	6	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	6	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	6	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	6	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	6	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	6	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	6	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	14	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	14	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	14	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	14	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	14	0.15
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	14	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	14	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	14	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	14	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	14	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	14	0.15
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	14	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	14	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	14	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	14	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	14	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	14	0.15
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	14	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	14	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	14	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	14	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	14	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	14	0.15
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	14	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	14	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	14	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	14	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	14	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	14	0.15
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	14	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	14	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	14	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	14	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	14	0.15
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	14	0.15
(1,2619)	1:98:A:GLY:HA2	1:99:A:VAL:HG11	15	0.15
(1,2619)	1:98:A:GLY:HA2	1:99:A:VAL:HG12	15	0.15
(1,2619)	1:98:A:GLY:HA2	1:99:A:VAL:HG13	15	0.15
(1,2619)	1:98:A:GLY:HA2	1:99:A:VAL:HG21	15	0.15
(1,2619)	1:98:A:GLY:HA2	1:99:A:VAL:HG22	15	0.15
(1,2619)	1:98:A:GLY:HA2	1:99:A:VAL:HG23	15	0.15
(1,2619)	1:98:A:GLY:HA3	1:99:A:VAL:HG11	15	0.15
(1,2619)	1:98:A:GLY:HA3	1:99:A:VAL:HG12	15	0.15
(1,2619)	1:98:A:GLY:HA3	1:99:A:VAL:HG13	15	0.15
(1,2619)	1:98:A:GLY:HA3	1:99:A:VAL:HG21	15	0.15
(1,2619)	1:98:A:GLY:HA3	1:99:A:VAL:HG22	15	0.15
(1,2619)	1:98:A:GLY:HA3	1:99:A:VAL:HG23	15	0.15
(1,2609)	1:23:A:ASN:HD21	1:97:A:ALA:HA	5	0.15
(1,2609)	1:23:A:ASN:HD22	1:97:A:ALA:HA	5	0.15
(1,2609)	1:23:A:ASN:HD21	1:97:A:ALA:HA	10	0.15
(1,2609)	1:23:A:ASN:HD22	1:97:A:ALA:HA	10	0.15
(1,2609)	1:23:A:ASN:HD21	1:97:A:ALA:HA	12	0.15
(1,2609)	1:23:A:ASN:HD22	1:97:A:ALA:HA	12	0.15
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	12	0.15
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	12	0.15
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	12	0.15
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	12	0.15
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	12	0.15
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	12	0.15
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	13	0.15
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	13	0.15
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	13	0.15
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	13	0.15
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	13	0.15
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	13	0.15
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE1	14	0.15
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE2	14	0.15
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE1	14	0.15
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE2	14	0.15
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE1	14	0.15
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE2	14	0.15
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE1	14	0.15
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE2	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE1	14	0.15
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE2	14	0.15
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE1	14	0.15
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE2	14	0.15
(1,2432)	1:44:A:ALA:HA	1:77:A:LEU:HD11	3	0.15
(1,2432)	1:44:A:ALA:HA	1:77:A:LEU:HD12	3	0.15
(1,2432)	1:44:A:ALA:HA	1:77:A:LEU:HD13	3	0.15
(1,2432)	1:44:A:ALA:HA	1:77:A:LEU:HD21	3	0.15
(1,2432)	1:44:A:ALA:HA	1:77:A:LEU:HD22	3	0.15
(1,2432)	1:44:A:ALA:HA	1:77:A:LEU:HD23	3	0.15
(1,2429)	1:73:A:ALA:HB1	1:77:A:LEU:HD11	3	0.15
(1,2429)	1:73:A:ALA:HB1	1:77:A:LEU:HD12	3	0.15
(1,2429)	1:73:A:ALA:HB1	1:77:A:LEU:HD13	3	0.15
(1,2429)	1:73:A:ALA:HB1	1:77:A:LEU:HD21	3	0.15
(1,2429)	1:73:A:ALA:HB1	1:77:A:LEU:HD22	3	0.15
(1,2429)	1:73:A:ALA:HB1	1:77:A:LEU:HD23	3	0.15
(1,2429)	1:73:A:ALA:HB2	1:77:A:LEU:HD11	3	0.15
(1,2429)	1:73:A:ALA:HB2	1:77:A:LEU:HD12	3	0.15
(1,2429)	1:73:A:ALA:HB2	1:77:A:LEU:HD13	3	0.15
(1,2429)	1:73:A:ALA:HB2	1:77:A:LEU:HD21	3	0.15
(1,2429)	1:73:A:ALA:HB2	1:77:A:LEU:HD22	3	0.15
(1,2429)	1:73:A:ALA:HB2	1:77:A:LEU:HD23	3	0.15
(1,2429)	1:73:A:ALA:HB3	1:77:A:LEU:HD11	3	0.15
(1,2429)	1:73:A:ALA:HB3	1:77:A:LEU:HD12	3	0.15
(1,2429)	1:73:A:ALA:HB3	1:77:A:LEU:HD13	3	0.15
(1,2429)	1:73:A:ALA:HB3	1:77:A:LEU:HD21	3	0.15
(1,2429)	1:73:A:ALA:HB3	1:77:A:LEU:HD22	3	0.15
(1,2429)	1:73:A:ALA:HB3	1:77:A:LEU:HD23	3	0.15
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD11	16	0.15
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD12	16	0.15
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD13	16	0.15
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD21	16	0.15
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD22	16	0.15
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD23	16	0.15
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD11	16	0.15
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD12	16	0.15
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD13	16	0.15
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD21	16	0.15
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD22	16	0.15
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD23	16	0.15
(1,2398)	1:76:A:ARG:HA	1:76:A:ARG:HD2	15	0.15
(1,2398)	1:76:A:ARG:HA	1:76:A:ARG:HD3	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB2	6	0.15
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB3	6	0.15
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB2	6	0.15
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB3	6	0.15
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB2	6	0.15
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB3	6	0.15
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD21	7	0.15
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD22	7	0.15
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD21	7	0.15
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD22	7	0.15
(1,2217)	1:56:A:ALA:HB1	1:58:A:THR:HB	19	0.15
(1,2217)	1:56:A:ALA:HB2	1:58:A:THR:HB	19	0.15
(1,2217)	1:56:A:ALA:HB3	1:58:A:THR:HB	19	0.15
(1,2217)	1:56:A:ALA:HB1	1:58:A:THR:HB	20	0.15
(1,2217)	1:56:A:ALA:HB2	1:58:A:THR:HB	20	0.15
(1,2217)	1:56:A:ALA:HB3	1:58:A:THR:HB	20	0.15
(1,2210)	1:54:A:SER:HA	1:57:A:SER:HB2	6	0.15
(1,2210)	1:54:A:SER:HA	1:57:A:SER:HB3	6	0.15
(1,2176)	1:50:A:ARG:HD2	1:54:A:SER:HA	7	0.15
(1,2176)	1:50:A:ARG:HD3	1:54:A:SER:HA	7	0.15
(1,2176)	1:50:A:ARG:HD2	1:54:A:SER:HA	17	0.15
(1,2176)	1:50:A:ARG:HD3	1:54:A:SER:HA	17	0.15
(1,2163)	1:50:A:ARG:HD2	1:52:A:ALA:HA	8	0.15
(1,2163)	1:50:A:ARG:HD3	1:52:A:ALA:HA	8	0.15
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	9	0.15
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	9	0.15
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	11	0.15
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	11	0.15
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	16	0.15
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	16	0.15
(1,2084)	1:41:A:GLN:HB2	1:43:A:ILE:HD11	10	0.15
(1,2084)	1:41:A:GLN:HB2	1:43:A:ILE:HD12	10	0.15
(1,2084)	1:41:A:GLN:HB2	1:43:A:ILE:HD13	10	0.15
(1,2084)	1:41:A:GLN:HB3	1:43:A:ILE:HD11	10	0.15
(1,2084)	1:41:A:GLN:HB3	1:43:A:ILE:HD12	10	0.15
(1,2084)	1:41:A:GLN:HB3	1:43:A:ILE:HD13	10	0.15
(1,1989)	1:33:A:THR:HB	1:34:A:VAL:H	20	0.15
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD11	7	0.15
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD12	7	0.15
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD13	7	0.15
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD21	7	0.15
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD22	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD23	7	0.15
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD11	7	0.15
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD12	7	0.15
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD13	7	0.15
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD21	7	0.15
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD22	7	0.15
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD23	7	0.15
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD11	7	0.15
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD12	7	0.15
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD13	7	0.15
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD21	7	0.15
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD22	7	0.15
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD23	7	0.15
(1,1803)	1:177:A:THR:H	1:175:A:PRO:HA	1	0.15
(1,1803)	1:177:A:THR:H	1:175:A:PRO:HA	10	0.15
(1,1660)	1:131:A:VAL:HB	1:132:A:ASP:H	2	0.15
(1,1578)	1:105:A:ILE:HA	1:107:A:THR:H	1	0.15
(1,1578)	1:105:A:ILE:HA	1:107:A:THR:H	7	0.15
(1,1483)	1:79:A:ALA:HA	1:80:A:GLY:H	17	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD11	15	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD12	15	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD13	15	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD21	15	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD22	15	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD23	15	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD11	20	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD12	20	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD13	20	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD21	20	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD22	20	0.15
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD23	20	0.15
(1,1281)	1:33:A:THR:HB	1:34:A:VAL:H	20	0.15
(1,1177)	1:108:A:LEU:H	1:108:A:LEU:HG	7	0.15
(1,1151)	1:131:A:VAL:H	1:130:A:ASN:H	13	0.15
(1,1138)	1:147:A:LEU:HB2	1:149:A:THR:H	3	0.15
(1,1138)	1:76:A:ARG:HB2	1:74:A:VAL:H	6	0.15
(1,1138)	1:76:A:ARG:HB3	1:74:A:VAL:H	18	0.15
(1,1127)	1:163:A:SER:H	1:162:A:SER:HA	4	0.15
(1,1123)	1:132:A:ASP:H	1:136:A:VAL:HB	8	0.15
(1,1116)	1:93:A:ALA:H	1:94:A:LEU:HD23	19	0.15
(1,1097)	1:66:A:LEU:H	1:63:A:GLY:HA2	1	0.15
(1,1097)	1:66:A:LEU:H	1:63:A:GLY:HA2	16	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1077)	1:92:A:SER:H	1:18:A:ILE:HD13	19	0.15
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	5	0.15
(1,1053)	1:34:A:VAL:H	1:29:A:SER:HA	20	0.15
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB3	1	0.15
(1,1031)	1:167:A:ALA:HA	1:169:A:TYR:H	13	0.15
(1,1023)	1:164:A:THR:HA	1:166:A:GLY:H	2	0.15
(1,999)	1:134:A:GLY:HA3	1:132:A:ASP:H	6	0.15
(1,960)	1:67:A:ALA:H	1:70:A:ALA:HB3	8	0.15
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	5	0.15
(1,956)	1:70:A:ALA:H	1:68:A:ARG:H	11	0.15
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	1	0.15
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	6	0.15
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG2	18	0.15
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG3	18	0.15
(1,899)	1:162:A:SER:H	1:162:A:SER:HB2	14	0.15
(1,899)	1:162:A:SER:H	1:162:A:SER:HB3	14	0.15
(1,851)	1:137:A:GLN:HB2	1:141:A:SER:H	7	0.15
(1,851)	1:137:A:GLN:HB3	1:141:A:SER:H	7	0.15
(1,801)	1:131:A:VAL:HB	1:132:A:ASP:H	2	0.15
(1,778)	1:128:A:GLY:H	1:129:A:ILE:HG12	20	0.15
(1,778)	1:128:A:GLY:H	1:129:A:ILE:HG13	20	0.15
(1,728)	1:116:A:LEU:H	1:120:A:VAL:H	20	0.15
(1,711)	1:117:A:LEU:HD11	1:118:A:ASN:HD21	15	0.15
(1,711)	1:117:A:LEU:HD11	1:118:A:ASN:HD22	15	0.15
(1,711)	1:117:A:LEU:HD12	1:118:A:ASN:HD21	15	0.15
(1,711)	1:117:A:LEU:HD12	1:118:A:ASN:HD22	15	0.15
(1,711)	1:117:A:LEU:HD13	1:118:A:ASN:HD21	15	0.15
(1,711)	1:117:A:LEU:HD13	1:118:A:ASN:HD22	15	0.15
(1,711)	1:117:A:LEU:HD21	1:118:A:ASN:HD21	15	0.15
(1,711)	1:117:A:LEU:HD21	1:118:A:ASN:HD22	15	0.15
(1,711)	1:117:A:LEU:HD22	1:118:A:ASN:HD21	15	0.15
(1,711)	1:117:A:LEU:HD22	1:118:A:ASN:HD22	15	0.15
(1,711)	1:117:A:LEU:HD23	1:118:A:ASN:HD21	15	0.15
(1,711)	1:117:A:LEU:HD23	1:118:A:ASN:HD22	15	0.15
(1,711)	1:117:A:LEU:HD11	1:118:A:ASN:HD21	18	0.15
(1,711)	1:117:A:LEU:HD11	1:118:A:ASN:HD22	18	0.15
(1,711)	1:117:A:LEU:HD12	1:118:A:ASN:HD21	18	0.15
(1,711)	1:117:A:LEU:HD12	1:118:A:ASN:HD22	18	0.15
(1,711)	1:117:A:LEU:HD13	1:118:A:ASN:HD21	18	0.15
(1,711)	1:117:A:LEU:HD13	1:118:A:ASN:HD22	18	0.15
(1,711)	1:117:A:LEU:HD21	1:118:A:ASN:HD21	18	0.15
(1,711)	1:117:A:LEU:HD21	1:118:A:ASN:HD22	18	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,711)	1:117:A:LEU:HD22	1:118:A:ASN:HD21	18	0.15
(1,711)	1:117:A:LEU:HD22	1:118:A:ASN:HD22	18	0.15
(1,711)	1:117:A:LEU:HD23	1:118:A:ASN:HD21	18	0.15
(1,711)	1:117:A:LEU:HD23	1:118:A:ASN:HD22	18	0.15
(1,708)	1:117:A:LEU:HD11	1:118:A:ASN:HD21	15	0.15
(1,708)	1:117:A:LEU:HD11	1:118:A:ASN:HD22	15	0.15
(1,708)	1:117:A:LEU:HD12	1:118:A:ASN:HD21	15	0.15
(1,708)	1:117:A:LEU:HD12	1:118:A:ASN:HD22	15	0.15
(1,708)	1:117:A:LEU:HD13	1:118:A:ASN:HD21	15	0.15
(1,708)	1:117:A:LEU:HD13	1:118:A:ASN:HD22	15	0.15
(1,708)	1:117:A:LEU:HD21	1:118:A:ASN:HD21	15	0.15
(1,708)	1:117:A:LEU:HD21	1:118:A:ASN:HD22	15	0.15
(1,708)	1:117:A:LEU:HD22	1:118:A:ASN:HD21	15	0.15
(1,708)	1:117:A:LEU:HD22	1:118:A:ASN:HD22	15	0.15
(1,708)	1:117:A:LEU:HD23	1:118:A:ASN:HD21	15	0.15
(1,708)	1:117:A:LEU:HD23	1:118:A:ASN:HD22	15	0.15
(1,708)	1:117:A:LEU:HD11	1:118:A:ASN:HD21	18	0.15
(1,708)	1:117:A:LEU:HD11	1:118:A:ASN:HD22	18	0.15
(1,708)	1:117:A:LEU:HD12	1:118:A:ASN:HD21	18	0.15
(1,708)	1:117:A:LEU:HD12	1:118:A:ASN:HD22	18	0.15
(1,708)	1:117:A:LEU:HD13	1:118:A:ASN:HD21	18	0.15
(1,708)	1:117:A:LEU:HD13	1:118:A:ASN:HD22	18	0.15
(1,708)	1:117:A:LEU:HD21	1:118:A:ASN:HD21	18	0.15
(1,708)	1:117:A:LEU:HD21	1:118:A:ASN:HD22	18	0.15
(1,708)	1:117:A:LEU:HD22	1:118:A:ASN:HD21	18	0.15
(1,708)	1:117:A:LEU:HD22	1:118:A:ASN:HD22	18	0.15
(1,708)	1:117:A:LEU:HD23	1:118:A:ASN:HD21	18	0.15
(1,708)	1:117:A:LEU:HD23	1:118:A:ASN:HD22	18	0.15
(1,688)	1:10:A:THR:H	1:116:A:LEU:HB2	1	0.15
(1,688)	1:10:A:THR:H	1:116:A:LEU:HB3	1	0.15
(1,688)	1:10:A:THR:H	1:116:A:LEU:HB2	11	0.15
(1,688)	1:10:A:THR:H	1:116:A:LEU:HB3	11	0.15
(1,609)	1:101:A:ASN:H	1:105:A:ILE:H	5	0.15
(1,598)	1:96:A:ASN:HD21	1:104:A:ASN:HD21	10	0.15
(1,598)	1:96:A:ASN:HD21	1:104:A:ASN:HD22	10	0.15
(1,598)	1:96:A:ASN:HD22	1:104:A:ASN:HD21	10	0.15
(1,598)	1:96:A:ASN:HD22	1:104:A:ASN:HD22	10	0.15
(1,597)	1:21:A:VAL:HG11	1:104:A:ASN:HD21	9	0.15
(1,597)	1:21:A:VAL:HG11	1:104:A:ASN:HD22	9	0.15
(1,597)	1:21:A:VAL:HG12	1:104:A:ASN:HD21	9	0.15
(1,597)	1:21:A:VAL:HG12	1:104:A:ASN:HD22	9	0.15
(1,597)	1:21:A:VAL:HG13	1:104:A:ASN:HD21	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,597)	1:21:A:VAL:HG13	1:104:A:ASN:HD22	9	0.15
(1,597)	1:21:A:VAL:HG21	1:104:A:ASN:HD21	9	0.15
(1,597)	1:21:A:VAL:HG21	1:104:A:ASN:HD22	9	0.15
(1,597)	1:21:A:VAL:HG22	1:104:A:ASN:HD21	9	0.15
(1,597)	1:21:A:VAL:HG22	1:104:A:ASN:HD22	9	0.15
(1,597)	1:21:A:VAL:HG23	1:104:A:ASN:HD21	9	0.15
(1,597)	1:21:A:VAL:HG23	1:104:A:ASN:HD22	9	0.15
(1,588)	1:101:A:ASN:H	1:104:A:ASN:HD21	10	0.15
(1,588)	1:101:A:ASN:H	1:104:A:ASN:HD22	10	0.15
(1,561)	1:22:A:ALA:H	1:100:A:LEU:HA	16	0.15
(1,524)	1:37:A:THR:H	1:95:A:PHE:HB2	1	0.15
(1,524)	1:37:A:THR:H	1:95:A:PHE:HB3	1	0.15
(1,455)	1:83:A:THR:HG21	1:84:A:SER:H	6	0.15
(1,455)	1:83:A:THR:HG22	1:84:A:SER:H	6	0.15
(1,455)	1:83:A:THR:HG23	1:84:A:SER:H	6	0.15
(1,433)	1:79:A:ALA:HA	1:80:A:GLY:H	17	0.15
(1,417)	1:73:A:ALA:H	1:76:A:ARG:HB2	8	0.15
(1,417)	1:73:A:ALA:H	1:76:A:ARG:HB3	8	0.15
(1,342)	1:60:A:GLY:HA2	1:65:A:ASN:HD21	2	0.15
(1,342)	1:60:A:GLY:HA2	1:65:A:ASN:HD22	2	0.15
(1,342)	1:60:A:GLY:HA3	1:65:A:ASN:HD21	2	0.15
(1,342)	1:60:A:GLY:HA3	1:65:A:ASN:HD22	2	0.15
(1,258)	1:49:A:GLN:HB2	1:51:A:ALA:H	20	0.15
(1,258)	1:49:A:GLN:HB3	1:51:A:ALA:H	20	0.15
(1,233)	1:45:A:SER:HB2	1:47:A:VAL:H	19	0.15
(1,233)	1:45:A:SER:HB3	1:47:A:VAL:H	19	0.15
(1,221)	1:2:A:GLY:H	1:45:A:SER:HA	12	0.15
(1,203)	1:10:A:THR:H	1:42:A:GLN:HB2	1	0.15
(1,203)	1:10:A:THR:H	1:42:A:GLN:HB3	1	0.15
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	5	0.15
(1,3911)	1:18:A:ILE:HG22	1:90:A:PHE:HE1	8	0.14
(1,3907)	1:43:A:ILE:HG23	1:86:A:TYR:HD2	3	0.14
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD1	13	0.14
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD2	13	0.14
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD1	13	0.14
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD2	13	0.14
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD1	13	0.14
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD2	13	0.14
(1,3892)	1:37:A:THR:HG21	1:95:A:PHE:HE1	6	0.14
(1,3892)	1:37:A:THR:HG21	1:95:A:PHE:HE2	6	0.14
(1,3892)	1:37:A:THR:HG22	1:95:A:PHE:HE1	6	0.14
(1,3892)	1:37:A:THR:HG22	1:95:A:PHE:HE2	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3892)	1:37:A:THR:HG23	1:95:A:PHE:HE1	6	0.14
(1,3892)	1:37:A:THR:HG23	1:95:A:PHE:HE2	6	0.14
(1,3892)	1:37:A:THR:HG21	1:95:A:PHE:HE1	15	0.14
(1,3892)	1:37:A:THR:HG21	1:95:A:PHE:HE2	15	0.14
(1,3892)	1:37:A:THR:HG22	1:95:A:PHE:HE1	15	0.14
(1,3892)	1:37:A:THR:HG22	1:95:A:PHE:HE2	15	0.14
(1,3892)	1:37:A:THR:HG23	1:95:A:PHE:HE1	15	0.14
(1,3892)	1:37:A:THR:HG23	1:95:A:PHE:HE2	15	0.14
(1,3866)	1:177:A:THR:H	1:177:A:THR:HA	13	0.14
(1,3820)	1:101:A:ASN:HB2	1:104:A:ASN:HB3	17	0.14
(1,3807)	1:141:A:SER:H	1:143:A:SER:HB3	12	0.14
(1,3786)	1:15:A:ALA:H	1:16:A:GLY:HA3	7	0.14
(1,3781)	1:21:A:VAL:HG22	1:20:A:ARG:HG3	5	0.14
(1,3722)	1:59:A:LEU:HB2	1:61:A:VAL:HG21	1	0.14
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	16	0.14
(1,3706)	1:88:A:GLN:HE21	1:35:A:LEU:HD23	18	0.14
(1,3692)	1:117:A:LEU:HG	1:105:A:ILE:HG21	7	0.14
(1,3689)	1:97:A:ALA:HB3	1:100:A:LEU:HD21	15	0.14
(1,3654)	1:39:A:VAL:HG13	1:38:A:GLY:HA2	7	0.14
(1,3639)	1:156:A:TYR:HB2	1:155:A:SER:HB3	18	0.14
(1,3617)	1:124:A:ALA:HB3	1:125:A:GLN:HB2	4	0.14
(1,3606)	1:35:A:LEU:HD23	1:88:A:GLN:HE21	18	0.14
(1,3543)	1:17:A:LEU:HD13	1:93:A:ALA:HA	6	0.14
(1,3530)	1:42:A:GLN:H	1:41:A:GLN:HB3	7	0.14
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG21	6	0.14
(1,3515)	1:31:A:LEU:HD21	1:31:A:LEU:HA	5	0.14
(1,3482)	1:56:A:ALA:H	1:55:A:LEU:HD12	20	0.14
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD22	20	0.14
(1,3472)	1:78:A:PRO:HG2	1:77:A:LEU:HD13	15	0.14
(1,3470)	1:100:A:LEU:HD13	1:105:A:ILE:HG12	15	0.14
(1,3458)	1:132:A:ASP:HB3	1:67:A:ALA:HB1	5	0.14
(1,3450)	1:93:A:ALA:HB3	1:92:A:SER:HB3	15	0.14
(1,3430)	1:50:A:ARG:HD3	1:124:A:ALA:HB1	20	0.14
(1,3406)	1:82:A:ASP:H	1:82:A:ASP:HA	8	0.14
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD13	7	0.14
(1,3318)	1:87:A:ALA:HB1	1:43:A:ILE:HG12	5	0.14
(1,3281)	1:77:A:LEU:HB2	1:74:A:VAL:HG11	1	0.14
(1,3268)	1:10:A:THR:HA	1:113:A:LEU:HG	10	0.14
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG11	13	0.14
(1,3238)	1:129:A:ILE:HD11	1:128:A:GLY:HA2	5	0.14
(1,3214)	1:14:A:SER:HB3	1:18:A:ILE:HD12	8	0.14
(1,3214)	1:14:A:SER:HB2	1:18:A:ILE:HD11	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3146)	1:25:A:LEU:HD11	1:178:A:GLY:HA2	11	0.14
(1,3146)	1:25:A:LEU:HD11	1:178:A:GLY:HA3	11	0.14
(1,3146)	1:25:A:LEU:HD12	1:178:A:GLY:HA2	11	0.14
(1,3146)	1:25:A:LEU:HD12	1:178:A:GLY:HA3	11	0.14
(1,3146)	1:25:A:LEU:HD13	1:178:A:GLY:HA2	11	0.14
(1,3146)	1:25:A:LEU:HD13	1:178:A:GLY:HA3	11	0.14
(1,3146)	1:25:A:LEU:HD21	1:178:A:GLY:HA2	11	0.14
(1,3146)	1:25:A:LEU:HD21	1:178:A:GLY:HA3	11	0.14
(1,3146)	1:25:A:LEU:HD22	1:178:A:GLY:HA2	11	0.14
(1,3146)	1:25:A:LEU:HD22	1:178:A:GLY:HA3	11	0.14
(1,3146)	1:25:A:LEU:HD23	1:178:A:GLY:HA2	11	0.14
(1,3146)	1:25:A:LEU:HD23	1:178:A:GLY:HA3	11	0.14
(1,3124)	1:31:A:LEU:HD11	1:172:A:PRO:HD2	4	0.14
(1,3124)	1:31:A:LEU:HD11	1:172:A:PRO:HD3	4	0.14
(1,3124)	1:31:A:LEU:HD12	1:172:A:PRO:HD2	4	0.14
(1,3124)	1:31:A:LEU:HD12	1:172:A:PRO:HD3	4	0.14
(1,3124)	1:31:A:LEU:HD13	1:172:A:PRO:HD2	4	0.14
(1,3124)	1:31:A:LEU:HD13	1:172:A:PRO:HD3	4	0.14
(1,3124)	1:31:A:LEU:HD21	1:172:A:PRO:HD2	4	0.14
(1,3124)	1:31:A:LEU:HD21	1:172:A:PRO:HD3	4	0.14
(1,3124)	1:31:A:LEU:HD22	1:172:A:PRO:HD2	4	0.14
(1,3124)	1:31:A:LEU:HD22	1:172:A:PRO:HD3	4	0.14
(1,3124)	1:31:A:LEU:HD23	1:172:A:PRO:HD2	4	0.14
(1,3124)	1:31:A:LEU:HD23	1:172:A:PRO:HD3	4	0.14
(1,3111)	1:158:A:GLN:HA	1:161:A:ALA:HB1	1	0.14
(1,3111)	1:158:A:GLN:HA	1:161:A:ALA:HB2	1	0.14
(1,3111)	1:158:A:GLN:HA	1:161:A:ALA:HB3	1	0.14
(1,3105)	1:156:A:TYR:HB2	1:158:A:GLN:HG2	6	0.14
(1,3105)	1:156:A:TYR:HB2	1:158:A:GLN:HG3	6	0.14
(1,3105)	1:156:A:TYR:HB3	1:158:A:GLN:HG2	6	0.14
(1,3105)	1:156:A:TYR:HB3	1:158:A:GLN:HG3	6	0.14
(1,3104)	1:156:A:TYR:HB2	1:158:A:GLN:HG2	6	0.14
(1,3104)	1:156:A:TYR:HB2	1:158:A:GLN:HG3	6	0.14
(1,3104)	1:156:A:TYR:HB3	1:158:A:GLN:HG2	6	0.14
(1,3104)	1:156:A:TYR:HB3	1:158:A:GLN:HG3	6	0.14
(1,3095)	1:146:A:PHE:HB2	1:150:A:SER:HA	1	0.14
(1,3095)	1:146:A:PHE:HB3	1:150:A:SER:HA	1	0.14
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG21	12	0.14
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG22	12	0.14
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG23	12	0.14
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG21	12	0.14
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG22	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG23	12	0.14
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB2	20	0.14
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB3	20	0.14
(1,3021)	1:28:A:THR:HG21	1:139:A:ASP:HA	18	0.14
(1,3021)	1:28:A:THR:HG22	1:139:A:ASP:HA	18	0.14
(1,3021)	1:28:A:THR:HG23	1:139:A:ASP:HA	18	0.14
(1,3005)	1:37:A:THR:HG21	1:136:A:VAL:HA	9	0.14
(1,3005)	1:37:A:THR:HG22	1:136:A:VAL:HA	9	0.14
(1,3005)	1:37:A:THR:HG23	1:136:A:VAL:HA	9	0.14
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB2	10	0.14
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB3	10	0.14
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB2	10	0.14
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB3	10	0.14
(1,2898)	1:124:A:ALA:HB1	1:125:A:GLN:HG2	1	0.14
(1,2898)	1:124:A:ALA:HB1	1:125:A:GLN:HG3	1	0.14
(1,2898)	1:124:A:ALA:HB2	1:125:A:GLN:HG2	1	0.14
(1,2898)	1:124:A:ALA:HB2	1:125:A:GLN:HG3	1	0.14
(1,2898)	1:124:A:ALA:HB3	1:125:A:GLN:HG2	1	0.14
(1,2898)	1:124:A:ALA:HB3	1:125:A:GLN:HG3	1	0.14
(1,2890)	1:120:A:VAL:HG11	1:124:A:ALA:HB1	13	0.14
(1,2890)	1:120:A:VAL:HG11	1:124:A:ALA:HB2	13	0.14
(1,2890)	1:120:A:VAL:HG11	1:124:A:ALA:HB3	13	0.14
(1,2890)	1:120:A:VAL:HG12	1:124:A:ALA:HB1	13	0.14
(1,2890)	1:120:A:VAL:HG12	1:124:A:ALA:HB2	13	0.14
(1,2890)	1:120:A:VAL:HG12	1:124:A:ALA:HB3	13	0.14
(1,2890)	1:120:A:VAL:HG13	1:124:A:ALA:HB1	13	0.14
(1,2890)	1:120:A:VAL:HG13	1:124:A:ALA:HB2	13	0.14
(1,2890)	1:120:A:VAL:HG13	1:124:A:ALA:HB3	13	0.14
(1,2890)	1:120:A:VAL:HG21	1:124:A:ALA:HB1	13	0.14
(1,2890)	1:120:A:VAL:HG21	1:124:A:ALA:HB2	13	0.14
(1,2890)	1:120:A:VAL:HG21	1:124:A:ALA:HB3	13	0.14
(1,2890)	1:120:A:VAL:HG22	1:124:A:ALA:HB1	13	0.14
(1,2890)	1:120:A:VAL:HG22	1:124:A:ALA:HB2	13	0.14
(1,2890)	1:120:A:VAL:HG22	1:124:A:ALA:HB3	13	0.14
(1,2890)	1:120:A:VAL:HG23	1:124:A:ALA:HB1	13	0.14
(1,2890)	1:120:A:VAL:HG23	1:124:A:ALA:HB2	13	0.14
(1,2890)	1:120:A:VAL:HG23	1:124:A:ALA:HB3	13	0.14
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD11	5	0.14
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD12	5	0.14
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD13	5	0.14
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD21	5	0.14
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD22	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2805)	1:36:A:ARG:HE	1:116:A:LEU:HD23	5	0.14
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD2	2	0.14
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD3	2	0.14
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD2	3	0.14
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD3	3	0.14
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD2	9	0.14
(1,2755)	1:105:A:ILE:HA	1:111:A:ARG:HD3	9	0.14
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD2	1	0.14
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD3	1	0.14
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD2	1	0.14
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD3	1	0.14
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD2	2	0.14
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD3	2	0.14
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD2	2	0.14
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD3	2	0.14
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD2	10	0.14
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD3	10	0.14
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD2	10	0.14
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD3	10	0.14
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD11	9	0.14
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD12	9	0.14
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD13	9	0.14
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD21	9	0.14
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD22	9	0.14
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD23	9	0.14
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD11	9	0.14
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD12	9	0.14
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD13	9	0.14
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD21	9	0.14
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD22	9	0.14
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD23	9	0.14
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD11	9	0.14
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD12	9	0.14
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD13	9	0.14
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD21	9	0.14
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD22	9	0.14
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD23	9	0.14
(1,2720)	1:107:A:THR:HG21	1:108:A:LEU:HB2	15	0.14
(1,2720)	1:107:A:THR:HG21	1:108:A:LEU:HB3	15	0.14
(1,2720)	1:107:A:THR:HG22	1:108:A:LEU:HB2	15	0.14
(1,2720)	1:107:A:THR:HG22	1:108:A:LEU:HB3	15	0.14
(1,2720)	1:107:A:THR:HG23	1:108:A:LEU:HB2	15	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2720)	1:107:A:THR:HG23	1:108:A:LEU:HB3	15	0.14
(1,2645)	1:22:A:ALA:HA	1:100:A:LEU:HB2	11	0.14
(1,2645)	1:22:A:ALA:HA	1:100:A:LEU:HB3	11	0.14
(1,2520)	1:85:A:ALA:HA	1:88:A:GLN:HB2	11	0.14
(1,2520)	1:85:A:ALA:HA	1:88:A:GLN:HB3	11	0.14
(1,2496)	1:35:A:LEU:HD11	1:86:A:TYR:HD1	6	0.14
(1,2496)	1:35:A:LEU:HD11	1:86:A:TYR:HD2	6	0.14
(1,2496)	1:35:A:LEU:HD12	1:86:A:TYR:HD1	6	0.14
(1,2496)	1:35:A:LEU:HD12	1:86:A:TYR:HD2	6	0.14
(1,2496)	1:35:A:LEU:HD13	1:86:A:TYR:HD1	6	0.14
(1,2496)	1:35:A:LEU:HD13	1:86:A:TYR:HD2	6	0.14
(1,2496)	1:35:A:LEU:HD21	1:86:A:TYR:HD1	6	0.14
(1,2496)	1:35:A:LEU:HD21	1:86:A:TYR:HD2	6	0.14
(1,2496)	1:35:A:LEU:HD22	1:86:A:TYR:HD1	6	0.14
(1,2496)	1:35:A:LEU:HD22	1:86:A:TYR:HD2	6	0.14
(1,2496)	1:35:A:LEU:HD23	1:86:A:TYR:HD1	6	0.14
(1,2496)	1:35:A:LEU:HD23	1:86:A:TYR:HD2	6	0.14
(1,2492)	1:77:A:LEU:HD11	1:86:A:TYR:HA	8	0.14
(1,2492)	1:77:A:LEU:HD12	1:86:A:TYR:HA	8	0.14
(1,2492)	1:77:A:LEU:HD13	1:86:A:TYR:HA	8	0.14
(1,2492)	1:77:A:LEU:HD21	1:86:A:TYR:HA	8	0.14
(1,2492)	1:77:A:LEU:HD22	1:86:A:TYR:HA	8	0.14
(1,2492)	1:77:A:LEU:HD23	1:86:A:TYR:HA	8	0.14
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE1	12	0.14
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE2	12	0.14
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE1	12	0.14
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE2	12	0.14
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE1	12	0.14
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE2	12	0.14
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE1	12	0.14
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE2	12	0.14
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE1	12	0.14
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE2	12	0.14
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE1	12	0.14
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE2	12	0.14
(1,2427)	1:74:A:VAL:HB	1:77:A:LEU:HD11	20	0.14
(1,2427)	1:74:A:VAL:HB	1:77:A:LEU:HD12	20	0.14
(1,2427)	1:74:A:VAL:HB	1:77:A:LEU:HD13	20	0.14
(1,2427)	1:74:A:VAL:HB	1:77:A:LEU:HD21	20	0.14
(1,2427)	1:74:A:VAL:HB	1:77:A:LEU:HD22	20	0.14
(1,2427)	1:74:A:VAL:HB	1:77:A:LEU:HD23	20	0.14
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD11	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD12	13	0.14
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD13	13	0.14
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD21	13	0.14
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD22	13	0.14
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD23	13	0.14
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD11	13	0.14
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD12	13	0.14
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD13	13	0.14
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD21	13	0.14
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD22	13	0.14
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD23	13	0.14
(1,2398)	1:76:A:ARG:HA	1:76:A:ARG:HD2	19	0.14
(1,2398)	1:76:A:ARG:HA	1:76:A:ARG:HD3	19	0.14
(1,2272)	1:48:A:VAL:HA	1:65:A:ASN:HD21	19	0.14
(1,2272)	1:48:A:VAL:HA	1:65:A:ASN:HD22	19	0.14
(1,2241)	1:58:A:THR:HG21	1:61:A:VAL:HB	13	0.14
(1,2241)	1:58:A:THR:HG22	1:61:A:VAL:HB	13	0.14
(1,2241)	1:58:A:THR:HG23	1:61:A:VAL:HB	13	0.14
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG21	7	0.14
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG22	7	0.14
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG23	7	0.14
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG21	7	0.14
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG22	7	0.14
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG23	7	0.14
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG21	7	0.14
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG22	7	0.14
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG23	7	0.14
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG21	7	0.14
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG22	7	0.14
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG23	7	0.14
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG21	7	0.14
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG22	7	0.14
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG23	7	0.14
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG21	7	0.14
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG22	7	0.14
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG23	7	0.14
(1,2217)	1:56:A:ALA:HB1	1:58:A:THR:HB	1	0.14
(1,2217)	1:56:A:ALA:HB2	1:58:A:THR:HB	1	0.14
(1,2217)	1:56:A:ALA:HB3	1:58:A:THR:HB	1	0.14
(1,2210)	1:54:A:SER:HA	1:57:A:SER:HB2	14	0.14
(1,2210)	1:54:A:SER:HA	1:57:A:SER:HB3	14	0.14
(1,2205)	1:49:A:GLN:HG2	1:56:A:ALA:HB1	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2205)	1:49:A:GLN:HG2	1:56:A:ALA:HB2	10	0.14
(1,2205)	1:49:A:GLN:HG2	1:56:A:ALA:HB3	10	0.14
(1,2205)	1:49:A:GLN:HG3	1:56:A:ALA:HB1	10	0.14
(1,2205)	1:49:A:GLN:HG3	1:56:A:ALA:HB2	10	0.14
(1,2205)	1:49:A:GLN:HG3	1:56:A:ALA:HB3	10	0.14
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG2	20	0.14
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG3	20	0.14
(1,2105)	1:41:A:GLN:HB2	1:44:A:ALA:HA	11	0.14
(1,2105)	1:41:A:GLN:HB3	1:44:A:ALA:HA	11	0.14
(1,2105)	1:41:A:GLN:HB2	1:44:A:ALA:HA	13	0.14
(1,2105)	1:41:A:GLN:HB3	1:44:A:ALA:HA	13	0.14
(1,2105)	1:41:A:GLN:HB2	1:44:A:ALA:HA	14	0.14
(1,2105)	1:41:A:GLN:HB3	1:44:A:ALA:HA	14	0.14
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG21	1	0.14
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG22	1	0.14
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG23	1	0.14
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG21	1	0.14
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG22	1	0.14
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG23	1	0.14
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG21	1	0.14
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG22	1	0.14
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG23	1	0.14
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG21	1	0.14
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG22	1	0.14
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG23	1	0.14
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG21	1	0.14
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG22	1	0.14
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG23	1	0.14
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG21	1	0.14
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG22	1	0.14
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG23	1	0.14
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG21	18	0.14
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG22	18	0.14
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG23	18	0.14
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG21	18	0.14
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG22	18	0.14
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG23	18	0.14
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG21	18	0.14
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG22	18	0.14
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG23	18	0.14
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG21	18	0.14
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG22	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG23	18	0.14
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG21	18	0.14
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG22	18	0.14
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG23	18	0.14
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG21	18	0.14
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG22	18	0.14
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG23	18	0.14
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD11	11	0.14
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD12	11	0.14
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD13	11	0.14
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD21	11	0.14
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD22	11	0.14
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD23	11	0.14
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD11	11	0.14
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD12	11	0.14
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD13	11	0.14
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD21	11	0.14
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD22	11	0.14
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD23	11	0.14
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD11	11	0.14
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD12	11	0.14
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD13	11	0.14
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD21	11	0.14
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD22	11	0.14
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD23	11	0.14
(1,1904)	1:20:A:ARG:HA	1:24:A:ALA:HA	1	0.14
(1,1660)	1:131:A:VAL:HB	1:132:A:ASP:H	8	0.14
(1,1578)	1:105:A:ILE:HA	1:107:A:THR:H	13	0.14
(1,1578)	1:105:A:ILE:HA	1:107:A:THR:H	15	0.14
(1,1551)	1:99:A:VAL:HB	1:100:A:LEU:H	15	0.14
(1,1483)	1:79:A:ALA:HA	1:80:A:GLY:H	11	0.14
(1,1483)	1:79:A:ALA:HA	1:80:A:GLY:H	19	0.14
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD11	16	0.14
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD12	16	0.14
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD13	16	0.14
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD21	16	0.14
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD22	16	0.14
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD23	16	0.14
(1,1403)	1:53:A:GLN:HE21	1:61:A:VAL:HB	7	0.14
(1,1403)	1:53:A:GLN:HE22	1:61:A:VAL:HB	7	0.14
(1,1401)	1:59:A:LEU:HB2	1:61:A:VAL:H	10	0.14
(1,1401)	1:59:A:LEU:HB3	1:61:A:VAL:H	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1354)	1:50:A:ARG:H	1:50:A:ARG:HD2	9	0.14
(1,1354)	1:50:A:ARG:H	1:50:A:ARG:HD3	9	0.14
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG2	20	0.14
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG3	20	0.14
(1,1148)	1:134:A:GLY:H	1:67:A:ALA:HA	13	0.14
(1,1138)	1:76:A:ARG:HB3	1:74:A:VAL:H	5	0.14
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	1	0.14
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	2	0.14
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	7	0.14
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	8	0.14
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	14	0.14
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	16	0.14
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	17	0.14
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	20	0.14
(1,1123)	1:132:A:ASP:H	1:136:A:VAL:HB	7	0.14
(1,1116)	1:93:A:ALA:H	1:94:A:LEU:HD23	10	0.14
(1,1052)	1:101:A:ASN:H	1:22:A:ALA:HB3	6	0.14
(1,1037)	1:173:A:SER:H	1:173:A:SER:HA	6	0.14
(1,1037)	1:173:A:SER:H	1:173:A:SER:HA	11	0.14
(1,1037)	1:173:A:SER:H	1:173:A:SER:HA	18	0.14
(1,1015)	1:17:A:LEU:H	1:14:A:SER:H	5	0.14
(1,968)	1:127:A:LEU:H	1:127:A:LEU:HD23	12	0.14
(1,942)	1:194:A:GLN:H	1:194:A:GLN:HB2	13	0.14
(1,942)	1:194:A:GLN:H	1:194:A:GLN:HB3	13	0.14
(1,928)	1:178:A:GLY:HA2	1:187:A:GLY:H	3	0.14
(1,928)	1:178:A:GLY:HA3	1:187:A:GLY:H	3	0.14
(1,927)	1:179:A:PRO:HD2	1:187:A:GLY:H	11	0.14
(1,927)	1:179:A:PRO:HD3	1:187:A:GLY:H	11	0.14
(1,920)	1:149:A:THR:HB	1:180:A:SER:H	18	0.14
(1,899)	1:162:A:SER:H	1:162:A:SER:HB2	5	0.14
(1,899)	1:162:A:SER:H	1:162:A:SER:HB3	5	0.14
(1,899)	1:162:A:SER:H	1:162:A:SER:HB2	18	0.14
(1,899)	1:162:A:SER:H	1:162:A:SER:HB3	18	0.14
(1,899)	1:162:A:SER:H	1:162:A:SER:HB2	20	0.14
(1,899)	1:162:A:SER:H	1:162:A:SER:HB3	20	0.14
(1,892)	1:153:A:SER:H	1:158:A:GLN:HB2	3	0.14
(1,892)	1:153:A:SER:H	1:158:A:GLN:HB3	3	0.14
(1,877)	1:147:A:LEU:H	1:150:A:SER:HB2	13	0.14
(1,877)	1:147:A:LEU:H	1:150:A:SER:HB3	13	0.14
(1,876)	1:148:A:SER:H	1:149:A:THR:H	13	0.14
(1,851)	1:137:A:GLN:HB2	1:141:A:SER:H	2	0.14
(1,851)	1:137:A:GLN:HB3	1:141:A:SER:H	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,851)	1:137:A:GLN:HB2	1:141:A:SER:H	5	0.14
(1,851)	1:137:A:GLN:HB3	1:141:A:SER:H	5	0.14
(1,851)	1:137:A:GLN:HB2	1:141:A:SER:H	11	0.14
(1,851)	1:137:A:GLN:HB3	1:141:A:SER:H	11	0.14
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE21	18	0.14
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE22	18	0.14
(1,809)	1:67:A:ALA:HB1	1:134:A:GLY:H	19	0.14
(1,809)	1:67:A:ALA:HB2	1:134:A:GLY:H	19	0.14
(1,809)	1:67:A:ALA:HB3	1:134:A:GLY:H	19	0.14
(1,801)	1:131:A:VAL:HB	1:132:A:ASP:H	8	0.14
(1,778)	1:128:A:GLY:H	1:129:A:ILE:HG12	14	0.14
(1,778)	1:128:A:GLY:H	1:129:A:ILE:HG13	14	0.14
(1,597)	1:21:A:VAL:HG11	1:104:A:ASN:HD21	10	0.14
(1,597)	1:21:A:VAL:HG11	1:104:A:ASN:HD22	10	0.14
(1,597)	1:21:A:VAL:HG12	1:104:A:ASN:HD21	10	0.14
(1,597)	1:21:A:VAL:HG12	1:104:A:ASN:HD22	10	0.14
(1,597)	1:21:A:VAL:HG13	1:104:A:ASN:HD21	10	0.14
(1,597)	1:21:A:VAL:HG13	1:104:A:ASN:HD22	10	0.14
(1,597)	1:21:A:VAL:HG21	1:104:A:ASN:HD21	10	0.14
(1,597)	1:21:A:VAL:HG21	1:104:A:ASN:HD22	10	0.14
(1,597)	1:21:A:VAL:HG22	1:104:A:ASN:HD21	10	0.14
(1,597)	1:21:A:VAL:HG22	1:104:A:ASN:HD22	10	0.14
(1,597)	1:21:A:VAL:HG23	1:104:A:ASN:HD21	10	0.14
(1,597)	1:21:A:VAL:HG23	1:104:A:ASN:HD22	10	0.14
(1,597)	1:21:A:VAL:HG11	1:104:A:ASN:HD21	18	0.14
(1,597)	1:21:A:VAL:HG11	1:104:A:ASN:HD22	18	0.14
(1,597)	1:21:A:VAL:HG12	1:104:A:ASN:HD21	18	0.14
(1,597)	1:21:A:VAL:HG12	1:104:A:ASN:HD22	18	0.14
(1,597)	1:21:A:VAL:HG13	1:104:A:ASN:HD21	18	0.14
(1,597)	1:21:A:VAL:HG13	1:104:A:ASN:HD22	18	0.14
(1,597)	1:21:A:VAL:HG21	1:104:A:ASN:HD21	18	0.14
(1,597)	1:21:A:VAL:HG21	1:104:A:ASN:HD22	18	0.14
(1,597)	1:21:A:VAL:HG22	1:104:A:ASN:HD21	18	0.14
(1,597)	1:21:A:VAL:HG22	1:104:A:ASN:HD22	18	0.14
(1,597)	1:21:A:VAL:HG23	1:104:A:ASN:HD21	18	0.14
(1,597)	1:21:A:VAL:HG23	1:104:A:ASN:HD22	18	0.14
(1,589)	1:101:A:ASN:H	1:104:A:ASN:H	10	0.14
(1,588)	1:101:A:ASN:H	1:104:A:ASN:HD21	7	0.14
(1,588)	1:101:A:ASN:H	1:104:A:ASN:HD22	7	0.14
(1,559)	1:99:A:VAL:HB	1:100:A:LEU:H	15	0.14
(1,455)	1:83:A:THR:HG21	1:84:A:SER:H	7	0.14
(1,455)	1:83:A:THR:HG22	1:84:A:SER:H	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,455)	1:83:A:THR:HG23	1:84:A:SER:H	7	0.14
(1,438)	1:80:A:GLY:H	1:81:A:SER:HB2	20	0.14
(1,438)	1:80:A:GLY:H	1:81:A:SER:HB3	20	0.14
(1,433)	1:79:A:ALA:HA	1:80:A:GLY:H	11	0.14
(1,433)	1:79:A:ALA:HA	1:80:A:GLY:H	19	0.14
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG11	8	0.14
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG12	8	0.14
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG13	8	0.14
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG21	8	0.14
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG22	8	0.14
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG23	8	0.14
(1,315)	1:53:A:GLN:HE21	1:61:A:VAL:HB	7	0.14
(1,315)	1:53:A:GLN:HE22	1:61:A:VAL:HB	7	0.14
(1,313)	1:59:A:LEU:HB2	1:61:A:VAL:H	10	0.14
(1,313)	1:59:A:LEU:HB3	1:61:A:VAL:H	10	0.14
(1,312)	1:59:A:LEU:HB2	1:61:A:VAL:H	10	0.14
(1,312)	1:59:A:LEU:HB3	1:61:A:VAL:H	10	0.14
(1,295)	1:50:A:ARG:HB2	1:57:A:SER:H	6	0.14
(1,295)	1:50:A:ARG:HB3	1:57:A:SER:H	6	0.14
(1,221)	1:2:A:GLY:H	1:45:A:SER:HA	4	0.14
(1,221)	1:2:A:GLY:H	1:45:A:SER:HA	15	0.14
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	20	0.14
(1,23)	1:11:A:GLY:HA2	1:14:A:SER:H	6	0.14
(1,23)	1:11:A:GLY:HA3	1:14:A:SER:H	6	0.14
(1,11)	1:4:A:GLN:H	1:8:A:GLY:H	20	0.14
(1,3876)	1:44:A:ALA:HB1	1:86:A:TYR:HE1	13	0.13
(1,3876)	1:44:A:ALA:HB1	1:86:A:TYR:HE2	13	0.13
(1,3876)	1:44:A:ALA:HB2	1:86:A:TYR:HE1	13	0.13
(1,3876)	1:44:A:ALA:HB2	1:86:A:TYR:HE2	13	0.13
(1,3876)	1:44:A:ALA:HB3	1:86:A:TYR:HE1	13	0.13
(1,3876)	1:44:A:ALA:HB3	1:86:A:TYR:HE2	13	0.13
(1,3866)	1:177:A:THR:H	1:177:A:THR:HA	2	0.13
(1,3866)	1:177:A:THR:H	1:177:A:THR:HA	9	0.13
(1,3866)	1:177:A:THR:H	1:177:A:THR:HA	17	0.13
(1,3840)	1:125:A:GLN:HA	1:97:A:ALA:HA	12	0.13
(1,3796)	1:124:A:ALA:HB2	1:120:A:VAL:HA	11	0.13
(1,3790)	1:99:A:VAL:HG12	1:194:A:GLN:HA	1	0.13
(1,3785)	1:3:A:PRO:HB3	1:9:A:ALA:HB3	3	0.13
(1,3778)	1:129:A:ILE:HG22	1:130:A:ASN:HB2	17	0.13
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	14	0.13
(1,3706)	1:88:A:GLN:HE22	1:35:A:LEU:HD22	1	0.13
(1,3665)	1:19:A:SER:HB2	1:18:A:ILE:HG23	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3654)	1:37:A:THR:HG22	1:38:A:GLY:HA3	1	0.13
(1,3654)	1:39:A:VAL:HG11	1:38:A:GLY:HA2	6	0.13
(1,3620)	1:166:A:GLY:HA2	1:163:A:SER:HA	4	0.13
(1,3606)	1:35:A:LEU:HD22	1:88:A:GLN:HE22	1	0.13
(1,3604)	1:57:A:SER:HA	1:53:A:GLN:HB3	3	0.13
(1,3599)	1:129:A:ILE:HG22	1:37:A:THR:HG23	4	0.13
(1,3522)	1:117:A:LEU:HG	1:120:A:VAL:HG21	1	0.13
(1,3512)	1:74:A:VAL:HB	1:75:A:SER:HB2	16	0.13
(1,3500)	1:74:A:VAL:HG23	1:73:A:ALA:HB1	5	0.13
(1,3492)	1:120:A:VAL:HB	1:124:A:ALA:HB3	16	0.13
(1,3450)	1:93:A:ALA:HB2	1:92:A:SER:HB3	7	0.13
(1,3441)	1:116:A:LEU:HA	1:120:A:VAL:HG12	13	0.13
(1,3422)	1:35:A:LEU:HD11	1:86:A:TYR:HB3	7	0.13
(1,3387)	1:125:A:GLN:HA	1:128:A:GLY:HA2	1	0.13
(1,3381)	1:177:A:THR:HG21	1:179:A:PRO:HD2	4	0.13
(1,3378)	1:42:A:GLN:HE22	1:115:A:ALA:HB3	11	0.13
(1,3364)	1:117:A:LEU:HD23	1:105:A:ILE:HD11	13	0.13
(1,3352)	1:61:A:VAL:HG21	1:58:A:THR:HB	1	0.13
(1,3278)	1:101:A:ASN:H	1:105:A:ILE:HD12	7	0.13
(1,3203)	1:186:A:LEU:HB2	1:194:A:GLN:HG2	7	0.13
(1,3203)	1:186:A:LEU:HB2	1:194:A:GLN:HG3	7	0.13
(1,3203)	1:186:A:LEU:HB3	1:194:A:GLN:HG2	7	0.13
(1,3203)	1:186:A:LEU:HB3	1:194:A:GLN:HG3	7	0.13
(1,3202)	1:99:A:VAL:HG11	1:194:A:GLN:HA	19	0.13
(1,3202)	1:99:A:VAL:HG12	1:194:A:GLN:HA	19	0.13
(1,3202)	1:99:A:VAL:HG13	1:194:A:GLN:HA	19	0.13
(1,3202)	1:99:A:VAL:HG21	1:194:A:GLN:HA	19	0.13
(1,3202)	1:99:A:VAL:HG22	1:194:A:GLN:HA	19	0.13
(1,3202)	1:99:A:VAL:HG23	1:194:A:GLN:HA	19	0.13
(1,3186)	1:20:A:ARG:H	1:191:A:PRO:HG2	14	0.13
(1,3186)	1:20:A:ARG:H	1:191:A:PRO:HG3	14	0.13
(1,3171)	1:178:A:GLY:HA2	1:190:A:ALA:HA	1	0.13
(1,3171)	1:178:A:GLY:HA3	1:190:A:ALA:HA	1	0.13
(1,3169)	1:178:A:GLY:HA2	1:190:A:ALA:HA	1	0.13
(1,3169)	1:178:A:GLY:HA3	1:190:A:ALA:HA	1	0.13
(1,3166)	1:186:A:LEU:HD11	1:190:A:ALA:H	4	0.13
(1,3166)	1:186:A:LEU:HD12	1:190:A:ALA:H	4	0.13
(1,3166)	1:186:A:LEU:HD13	1:190:A:ALA:H	4	0.13
(1,3166)	1:186:A:LEU:HD21	1:190:A:ALA:H	4	0.13
(1,3166)	1:186:A:LEU:HD22	1:190:A:ALA:H	4	0.13
(1,3166)	1:186:A:LEU:HD23	1:190:A:ALA:H	4	0.13
(1,3121)	1:170:A:THR:HB	1:171:A:GLY:HA2	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3121)	1:170:A:THR:HB	1:171:A:GLY:HA3	6	0.13
(1,3103)	1:157:A:SER:HB2	1:158:A:GLN:HG2	16	0.13
(1,3103)	1:157:A:SER:HB2	1:158:A:GLN:HG3	16	0.13
(1,3103)	1:157:A:SER:HB3	1:158:A:GLN:HG2	16	0.13
(1,3103)	1:157:A:SER:HB3	1:158:A:GLN:HG3	16	0.13
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB1	14	0.13
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB2	14	0.13
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB3	14	0.13
(1,3095)	1:146:A:PHE:HB2	1:150:A:SER:HA	20	0.13
(1,3095)	1:146:A:PHE:HB3	1:150:A:SER:HA	20	0.13
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG21	14	0.13
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG22	14	0.13
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG23	14	0.13
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG21	14	0.13
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG22	14	0.13
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG23	14	0.13
(1,3060)	1:137:A:GLN:HG2	1:141:A:SER:HA	6	0.13
(1,3060)	1:137:A:GLN:HG3	1:141:A:SER:HA	6	0.13
(1,3021)	1:28:A:THR:HG21	1:139:A:ASP:HA	10	0.13
(1,3021)	1:28:A:THR:HG22	1:139:A:ASP:HA	10	0.13
(1,3021)	1:28:A:THR:HG23	1:139:A:ASP:HA	10	0.13
(1,3005)	1:37:A:THR:HG21	1:136:A:VAL:HA	19	0.13
(1,3005)	1:37:A:THR:HG22	1:136:A:VAL:HA	19	0.13
(1,3005)	1:37:A:THR:HG23	1:136:A:VAL:HA	19	0.13
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB2	13	0.13
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB3	13	0.13
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB2	13	0.13
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB3	13	0.13
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB2	13	0.13
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB3	13	0.13
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB2	13	0.13
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB3	13	0.13
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB2	13	0.13
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB3	13	0.13
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB2	13	0.13
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB3	13	0.13
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB2	16	0.13
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB3	16	0.13
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB2	16	0.13
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB3	16	0.13
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB2	16	0.13
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB3	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB2	16	0.13
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB3	16	0.13
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB2	16	0.13
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB3	16	0.13
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB2	16	0.13
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB3	16	0.13
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB2	4	0.13
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB3	4	0.13
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB2	4	0.13
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB3	4	0.13
(1,2906)	1:105:A:ILE:HG21	1:125:A:GLN:HG2	9	0.13
(1,2906)	1:105:A:ILE:HG21	1:125:A:GLN:HG3	9	0.13
(1,2906)	1:105:A:ILE:HG22	1:125:A:GLN:HG2	9	0.13
(1,2906)	1:105:A:ILE:HG22	1:125:A:GLN:HG3	9	0.13
(1,2906)	1:105:A:ILE:HG23	1:125:A:GLN:HG2	9	0.13
(1,2906)	1:105:A:ILE:HG23	1:125:A:GLN:HG3	9	0.13
(1,2898)	1:124:A:ALA:HB1	1:125:A:GLN:HG2	19	0.13
(1,2898)	1:124:A:ALA:HB1	1:125:A:GLN:HG3	19	0.13
(1,2898)	1:124:A:ALA:HB2	1:125:A:GLN:HG2	19	0.13
(1,2898)	1:124:A:ALA:HB2	1:125:A:GLN:HG3	19	0.13
(1,2898)	1:124:A:ALA:HB3	1:125:A:GLN:HG2	19	0.13
(1,2898)	1:124:A:ALA:HB3	1:125:A:GLN:HG3	19	0.13
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB1	4	0.13
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB2	4	0.13
(1,2884)	1:55:A:LEU:HD11	1:123:A:ALA:HB3	4	0.13
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB1	4	0.13
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB2	4	0.13
(1,2884)	1:55:A:LEU:HD12	1:123:A:ALA:HB3	4	0.13
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB1	4	0.13
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB2	4	0.13
(1,2884)	1:55:A:LEU:HD13	1:123:A:ALA:HB3	4	0.13
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB1	4	0.13
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB2	4	0.13
(1,2884)	1:55:A:LEU:HD21	1:123:A:ALA:HB3	4	0.13
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB1	4	0.13
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB2	4	0.13
(1,2884)	1:55:A:LEU:HD22	1:123:A:ALA:HB3	4	0.13
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB1	4	0.13
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB2	4	0.13
(1,2884)	1:55:A:LEU:HD23	1:123:A:ALA:HB3	4	0.13
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	10	0.13
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	10	0.13
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	10	0.13
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	10	0.13
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	10	0.13
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	10	0.13
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	10	0.13
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	10	0.13
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	10	0.13
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	10	0.13
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	10	0.13
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	10	0.13
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	10	0.13
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	10	0.13
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	10	0.13
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	10	0.13
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	10	0.13
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	10	0.13
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	10	0.13
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	10	0.13
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	10	0.13
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	10	0.13
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	10	0.13
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	10	0.13
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	10	0.13
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	10	0.13
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	10	0.13
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	10	0.13
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	10	0.13
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	10	0.13
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	10	0.13
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	10	0.13
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	10	0.13
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	10	0.13
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	10	0.13
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	10	0.13
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	10	0.13
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	10	0.13
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	10	0.13
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	10	0.13
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	10	0.13
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	10	0.13
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	10	0.13
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	10	0.13
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	10	0.13
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	10	0.13
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	10	0.13
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	10	0.13
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	10	0.13
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	10	0.13
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	10	0.13
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	10	0.13
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	10	0.13
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	10	0.13
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	10	0.13
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	10	0.13
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	10	0.13
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	10	0.13
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	10	0.13
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	10	0.13
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	10	0.13
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	10	0.13
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	10	0.13
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	10	0.13
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	10	0.13
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	10	0.13
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	10	0.13
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	10	0.13
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	10	0.13
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	10	0.13
(1,2645)	1:22:A:ALA:HA	1:100:A:LEU:HB2	8	0.13
(1,2645)	1:22:A:ALA:HA	1:100:A:LEU:HB3	8	0.13
(1,2607)	1:96:A:ASN:HB2	1:97:A:ALA:HB1	11	0.13
(1,2607)	1:96:A:ASN:HB2	1:97:A:ALA:HB2	11	0.13
(1,2607)	1:96:A:ASN:HB2	1:97:A:ALA:HB3	11	0.13
(1,2607)	1:96:A:ASN:HB3	1:97:A:ALA:HB1	11	0.13
(1,2607)	1:96:A:ASN:HB3	1:97:A:ALA:HB2	11	0.13
(1,2607)	1:96:A:ASN:HB3	1:97:A:ALA:HB3	11	0.13
(1,2517)	1:87:A:ALA:HB1	1:88:A:GLN:HE21	18	0.13
(1,2517)	1:87:A:ALA:HB1	1:88:A:GLN:HE22	18	0.13
(1,2517)	1:87:A:ALA:HB2	1:88:A:GLN:HE21	18	0.13
(1,2517)	1:87:A:ALA:HB2	1:88:A:GLN:HE22	18	0.13
(1,2517)	1:87:A:ALA:HB3	1:88:A:GLN:HE21	18	0.13
(1,2517)	1:87:A:ALA:HB3	1:88:A:GLN:HE22	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2492)	1:77:A:LEU:HD11	1:86:A:TYR:HA	2	0.13
(1,2492)	1:77:A:LEU:HD12	1:86:A:TYR:HA	2	0.13
(1,2492)	1:77:A:LEU:HD13	1:86:A:TYR:HA	2	0.13
(1,2492)	1:77:A:LEU:HD21	1:86:A:TYR:HA	2	0.13
(1,2492)	1:77:A:LEU:HD22	1:86:A:TYR:HA	2	0.13
(1,2492)	1:77:A:LEU:HD23	1:86:A:TYR:HA	2	0.13
(1,2486)	1:43:A:ILE:HD11	1:86:A:TYR:HB2	20	0.13
(1,2486)	1:43:A:ILE:HD11	1:86:A:TYR:HB3	20	0.13
(1,2486)	1:43:A:ILE:HD12	1:86:A:TYR:HB2	20	0.13
(1,2486)	1:43:A:ILE:HD12	1:86:A:TYR:HB3	20	0.13
(1,2486)	1:43:A:ILE:HD13	1:86:A:TYR:HB2	20	0.13
(1,2486)	1:43:A:ILE:HD13	1:86:A:TYR:HB3	20	0.13
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB2	11	0.13
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB3	11	0.13
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB2	20	0.13
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB3	20	0.13
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB2	11	0.13
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB3	11	0.13
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB2	20	0.13
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB3	20	0.13
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB2	11	0.13
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB3	11	0.13
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB2	20	0.13
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB3	20	0.13
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB2	14	0.13
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB3	14	0.13
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB2	17	0.13
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB3	17	0.13
(1,2308)	1:67:A:ALA:HB1	1:68:A:ARG:HE	4	0.13
(1,2308)	1:67:A:ALA:HB2	1:68:A:ARG:HE	4	0.13
(1,2308)	1:67:A:ALA:HB3	1:68:A:ARG:HE	4	0.13
(1,2241)	1:58:A:THR:HG21	1:61:A:VAL:HB	14	0.13
(1,2241)	1:58:A:THR:HG22	1:61:A:VAL:HB	14	0.13
(1,2241)	1:58:A:THR:HG23	1:61:A:VAL:HB	14	0.13
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG21	17	0.13
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG22	17	0.13
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG23	17	0.13
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG21	17	0.13
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG22	17	0.13
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG23	17	0.13
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG21	17	0.13
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG22	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG23	17	0.13
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG21	17	0.13
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG22	17	0.13
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG23	17	0.13
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG21	17	0.13
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG22	17	0.13
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG23	17	0.13
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG21	17	0.13
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG22	17	0.13
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG23	17	0.13
(1,2217)	1:56:A:ALA:HB1	1:58:A:THR:HB	15	0.13
(1,2217)	1:56:A:ALA:HB2	1:58:A:THR:HB	15	0.13
(1,2217)	1:56:A:ALA:HB3	1:58:A:THR:HB	15	0.13
(1,2163)	1:50:A:ARG:HD2	1:52:A:ALA:HA	17	0.13
(1,2163)	1:50:A:ARG:HD3	1:52:A:ALA:HA	17	0.13
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG2	5	0.13
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG3	5	0.13
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	6	0.13
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	6	0.13
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB2	17	0.13
(1,2116)	1:45:A:SER:H	1:46:A:SER:HB3	17	0.13
(1,2090)	1:39:A:VAL:HG11	1:43:A:ILE:HB	17	0.13
(1,2090)	1:39:A:VAL:HG12	1:43:A:ILE:HB	17	0.13
(1,2090)	1:39:A:VAL:HG13	1:43:A:ILE:HB	17	0.13
(1,2090)	1:39:A:VAL:HG21	1:43:A:ILE:HB	17	0.13
(1,2090)	1:39:A:VAL:HG22	1:43:A:ILE:HB	17	0.13
(1,2090)	1:39:A:VAL:HG23	1:43:A:ILE:HB	17	0.13
(1,2090)	1:39:A:VAL:HG11	1:43:A:ILE:HB	20	0.13
(1,2090)	1:39:A:VAL:HG12	1:43:A:ILE:HB	20	0.13
(1,2090)	1:39:A:VAL:HG13	1:43:A:ILE:HB	20	0.13
(1,2090)	1:39:A:VAL:HG21	1:43:A:ILE:HB	20	0.13
(1,2090)	1:39:A:VAL:HG22	1:43:A:ILE:HB	20	0.13
(1,2090)	1:39:A:VAL:HG23	1:43:A:ILE:HB	20	0.13
(1,2086)	1:40:A:SER:HB2	1:43:A:ILE:HG21	3	0.13
(1,2086)	1:40:A:SER:HB2	1:43:A:ILE:HG22	3	0.13
(1,2086)	1:40:A:SER:HB2	1:43:A:ILE:HG23	3	0.13
(1,2086)	1:40:A:SER:HB3	1:43:A:ILE:HG21	3	0.13
(1,2086)	1:40:A:SER:HB3	1:43:A:ILE:HG22	3	0.13
(1,2086)	1:40:A:SER:HB3	1:43:A:ILE:HG23	3	0.13
(1,2084)	1:41:A:GLN:HB2	1:43:A:ILE:HD11	5	0.13
(1,2084)	1:41:A:GLN:HB2	1:43:A:ILE:HD12	5	0.13
(1,2084)	1:41:A:GLN:HB2	1:43:A:ILE:HD13	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2084)	1:41:A:GLN:HB3	1:43:A:ILE:HD11	5	0.13
(1,2084)	1:41:A:GLN:HB3	1:43:A:ILE:HD12	5	0.13
(1,2084)	1:41:A:GLN:HB3	1:43:A:ILE:HD13	5	0.13
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG11	9	0.13
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG12	9	0.13
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG13	9	0.13
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG21	9	0.13
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG22	9	0.13
(1,2034)	1:36:A:ARG:HD2	1:39:A:VAL:HG23	9	0.13
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG11	9	0.13
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG12	9	0.13
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG13	9	0.13
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG21	9	0.13
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG22	9	0.13
(1,2034)	1:36:A:ARG:HD3	1:39:A:VAL:HG23	9	0.13
(1,1989)	1:33:A:THR:HB	1:34:A:VAL:H	10	0.13
(1,1962)	1:19:A:SER:HA	1:31:A:LEU:HB2	17	0.13
(1,1962)	1:19:A:SER:HA	1:31:A:LEU:HB3	17	0.13
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD11	8	0.13
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD12	8	0.13
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD13	8	0.13
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD21	8	0.13
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD22	8	0.13
(1,1956)	1:30:A:THR:HG21	1:31:A:LEU:HD23	8	0.13
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD11	8	0.13
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD12	8	0.13
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD13	8	0.13
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD21	8	0.13
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD22	8	0.13
(1,1956)	1:30:A:THR:HG22	1:31:A:LEU:HD23	8	0.13
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD11	8	0.13
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD12	8	0.13
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD13	8	0.13
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD21	8	0.13
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD22	8	0.13
(1,1956)	1:30:A:THR:HG23	1:31:A:LEU:HD23	8	0.13
(1,1904)	1:20:A:ARG:HA	1:24:A:ALA:HA	4	0.13
(1,1904)	1:20:A:ARG:HA	1:24:A:ALA:HA	19	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG11	8	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG12	8	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG13	8	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG21	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG22	8	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG23	8	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG11	15	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG12	15	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG13	15	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG21	15	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG22	15	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG23	15	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG11	17	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG12	17	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG13	17	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG21	17	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG22	17	0.13
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG23	17	0.13
(1,1777)	1:153:A:SER:H	1:153:A:SER:HA	2	0.13
(1,1777)	1:153:A:SER:H	1:153:A:SER:HA	14	0.13
(1,1697)	1:144:A:SER:H	1:146:A:PHE:HB2	10	0.13
(1,1697)	1:144:A:SER:H	1:146:A:PHE:HB3	10	0.13
(1,1660)	1:131:A:VAL:HB	1:132:A:ASP:H	5	0.13
(1,1652)	1:131:A:VAL:H	1:131:A:VAL:HA	10	0.13
(1,1652)	1:131:A:VAL:H	1:131:A:VAL:HA	11	0.13
(1,1652)	1:131:A:VAL:H	1:131:A:VAL:HA	12	0.13
(1,1652)	1:131:A:VAL:H	1:131:A:VAL:HA	15	0.13
(1,1578)	1:105:A:ILE:HA	1:107:A:THR:H	2	0.13
(1,1483)	1:79:A:ALA:HA	1:80:A:GLY:H	8	0.13
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD11	19	0.13
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD12	19	0.13
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD13	19	0.13
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD21	19	0.13
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD22	19	0.13
(1,1429)	1:62:A:ASP:H	1:66:A:LEU:HD23	19	0.13
(1,1354)	1:50:A:ARG:H	1:50:A:ARG:HD2	3	0.13
(1,1354)	1:50:A:ARG:H	1:50:A:ARG:HD3	3	0.13
(1,1354)	1:50:A:ARG:H	1:50:A:ARG:HD2	8	0.13
(1,1354)	1:50:A:ARG:H	1:50:A:ARG:HD3	8	0.13
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG2	5	0.13
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG3	5	0.13
(1,1281)	1:33:A:THR:HB	1:34:A:VAL:H	10	0.13
(1,1257)	1:27:A:ASN:H	1:27:A:ASN:HB2	4	0.13
(1,1257)	1:27:A:ASN:H	1:27:A:ASN:HB3	4	0.13
(1,1176)	1:108:A:LEU:H	1:112:A:VAL:HG21	4	0.13
(1,1175)	1:48:A:VAL:HG13	1:49:A:GLN:H	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1169)	1:42:A:GLN:HE21	1:42:A:GLN:HA	7	0.13
(1,1164)	1:142:A:SER:H	1:140:A:ILE:HG21	3	0.13
(1,1156)	1:34:A:VAL:H	1:34:A:VAL:HA	10	0.13
(1,1154)	1:106:A:ASP:H	1:105:A:ILE:HG13	6	0.13
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	3	0.13
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	5	0.13
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	9	0.13
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	12	0.13
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	13	0.13
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	15	0.13
(1,1127)	1:163:A:SER:H	1:162:A:SER:HA	5	0.13
(1,1123)	1:132:A:ASP:H	1:136:A:VAL:HB	5	0.13
(1,1107)	1:109:A:GLY:H	1:112:A:VAL:HB	4	0.13
(1,1107)	1:109:A:GLY:H	1:112:A:VAL:HB	8	0.13
(1,1075)	1:48:A:VAL:H	1:73:A:ALA:HB1	19	0.13
(1,1037)	1:173:A:SER:H	1:173:A:SER:HA	16	0.13
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG22	1	0.13
(1,963)	1:119:A:GLY:H	1:120:A:VAL:HG21	4	0.13
(1,951)	1:54:A:SER:H	1:54:A:SER:HB2	18	0.13
(1,949)	1:55:A:LEU:H	1:129:A:ILE:HD12	8	0.13
(1,942)	1:194:A:GLN:H	1:194:A:GLN:HB2	7	0.13
(1,942)	1:194:A:GLN:H	1:194:A:GLN:HB3	7	0.13
(1,940)	1:191:A:PRO:HD2	1:193:A:GLY:H	8	0.13
(1,940)	1:191:A:PRO:HD3	1:193:A:GLY:H	8	0.13
(1,933)	1:20:A:ARG:H	1:191:A:PRO:HG2	14	0.13
(1,933)	1:20:A:ARG:H	1:191:A:PRO:HG3	14	0.13
(1,932)	1:190:A:ALA:H	1:191:A:PRO:HD2	19	0.13
(1,932)	1:190:A:ALA:H	1:191:A:PRO:HD3	19	0.13
(1,920)	1:149:A:THR:HB	1:180:A:SER:H	6	0.13
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG2	17	0.13
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG3	17	0.13
(1,901)	1:163:A:SER:H	1:163:A:SER:HB2	12	0.13
(1,901)	1:163:A:SER:H	1:163:A:SER:HB3	12	0.13
(1,877)	1:147:A:LEU:H	1:150:A:SER:HB2	5	0.13
(1,877)	1:147:A:LEU:H	1:150:A:SER:HB3	5	0.13
(1,877)	1:147:A:LEU:H	1:150:A:SER:HB2	20	0.13
(1,877)	1:147:A:LEU:H	1:150:A:SER:HB3	20	0.13
(1,875)	1:148:A:SER:HB2	1:149:A:THR:H	15	0.13
(1,875)	1:148:A:SER:HB3	1:149:A:THR:H	15	0.13
(1,870)	1:27:A:ASN:HB2	1:147:A:LEU:H	15	0.13
(1,870)	1:27:A:ASN:HB3	1:147:A:LEU:H	15	0.13
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE21	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE22	12	0.13
(1,826)	1:131:A:VAL:HB	1:136:A:VAL:H	9	0.13
(1,824)	1:37:A:THR:HG21	1:136:A:VAL:H	6	0.13
(1,824)	1:37:A:THR:HG22	1:136:A:VAL:H	6	0.13
(1,824)	1:37:A:THR:HG23	1:136:A:VAL:H	6	0.13
(1,815)	1:132:A:ASP:HB2	1:135:A:SER:H	17	0.13
(1,815)	1:132:A:ASP:HB3	1:135:A:SER:H	17	0.13
(1,801)	1:131:A:VAL:HB	1:132:A:ASP:H	5	0.13
(1,781)	1:127:A:LEU:H	1:129:A:ILE:H	13	0.13
(1,771)	1:127:A:LEU:H	1:128:A:GLY:HA2	5	0.13
(1,771)	1:127:A:LEU:H	1:128:A:GLY:HA3	5	0.13
(1,728)	1:116:A:LEU:H	1:120:A:VAL:H	15	0.13
(1,670)	1:10:A:THR:H	1:113:A:LEU:HD11	10	0.13
(1,670)	1:10:A:THR:H	1:113:A:LEU:HD12	10	0.13
(1,670)	1:10:A:THR:H	1:113:A:LEU:HD13	10	0.13
(1,670)	1:10:A:THR:H	1:113:A:LEU:HD21	10	0.13
(1,670)	1:10:A:THR:H	1:113:A:LEU:HD22	10	0.13
(1,670)	1:10:A:THR:H	1:113:A:LEU:HD23	10	0.13
(1,633)	1:14:A:SER:H	1:108:A:LEU:HB2	2	0.13
(1,633)	1:14:A:SER:H	1:108:A:LEU:HB3	2	0.13
(1,455)	1:83:A:THR:HG21	1:84:A:SER:H	11	0.13
(1,455)	1:83:A:THR:HG22	1:84:A:SER:H	11	0.13
(1,455)	1:83:A:THR:HG23	1:84:A:SER:H	11	0.13
(1,433)	1:79:A:ALA:HA	1:80:A:GLY:H	8	0.13
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG11	5	0.13
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG12	5	0.13
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG13	5	0.13
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG21	5	0.13
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG22	5	0.13
(1,405)	1:47:A:VAL:H	1:74:A:VAL:HG23	5	0.13
(1,362)	1:66:A:LEU:HG	1:68:A:ARG:H	10	0.13
(1,342)	1:60:A:GLY:HA2	1:65:A:ASN:HD21	13	0.13
(1,342)	1:60:A:GLY:HA2	1:65:A:ASN:HD22	13	0.13
(1,342)	1:60:A:GLY:HA3	1:65:A:ASN:HD21	13	0.13
(1,342)	1:60:A:GLY:HA3	1:65:A:ASN:HD22	13	0.13
(1,295)	1:50:A:ARG:HB2	1:57:A:SER:H	17	0.13
(1,295)	1:50:A:ARG:HB3	1:57:A:SER:H	17	0.13
(1,268)	1:50:A:ARG:HG2	1:53:A:GLN:H	17	0.13
(1,268)	1:50:A:ARG:HG3	1:53:A:GLN:H	17	0.13
(1,257)	1:50:A:ARG:H	1:51:A:ALA:H	10	0.13
(1,256)	1:50:A:ARG:H	1:51:A:ALA:H	10	0.13
(1,231)	1:46:A:SER:H	1:47:A:VAL:H	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,230)	1:46:A:SER:H	1:47:A:VAL:H	19	0.13
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	13	0.13
(1,101)	1:27:A:ASN:H	1:27:A:ASN:HB2	4	0.13
(1,101)	1:27:A:ASN:H	1:27:A:ASN:HB3	4	0.13
(1,3909)	1:74:A:VAL:HB	1:86:A:TYR:HE2	17	0.12
(1,3866)	1:177:A:THR:H	1:177:A:THR:HA	3	0.12
(1,3866)	1:177:A:THR:H	1:177:A:THR:HA	4	0.12
(1,3866)	1:177:A:THR:H	1:177:A:THR:HA	10	0.12
(1,3866)	1:177:A:THR:H	1:177:A:THR:HA	14	0.12
(1,3786)	1:15:A:ALA:H	1:16:A:GLY:HA3	2	0.12
(1,3736)	1:191:A:PRO:HB2	1:190:A:ALA:HB2	15	0.12
(1,3735)	1:48:A:VAL:HG23	1:46:A:SER:H	9	0.12
(1,3724)	1:117:A:LEU:HB3	1:105:A:ILE:HG23	14	0.12
(1,3722)	1:59:A:LEU:HB2	1:61:A:VAL:HG22	13	0.12
(1,3718)	1:18:A:ILE:HG13	1:20:A:ARG:HG3	12	0.12
(1,3711)	1:149:A:THR:H	1:149:A:THR:HA	7	0.12
(1,3711)	1:149:A:THR:H	1:149:A:THR:HA	12	0.12
(1,3711)	1:149:A:THR:H	1:149:A:THR:HA	17	0.12
(1,3683)	1:56:A:ALA:HB3	1:50:A:ARG:HA	2	0.12
(1,3668)	1:105:A:ILE:HA	1:113:A:LEU:HD22	4	0.12
(1,3649)	1:129:A:ILE:HG21	1:131:A:VAL:H	9	0.12
(1,3643)	1:42:A:GLN:HB2	1:116:A:LEU:HD21	15	0.12
(1,3604)	1:57:A:SER:HA	1:53:A:GLN:HB2	16	0.12
(1,3575)	1:135:A:SER:HA	1:136:A:VAL:HG22	2	0.12
(1,3530)	1:42:A:GLN:H	1:41:A:GLN:HB3	4	0.12
(1,3515)	1:31:A:LEU:HD22	1:31:A:LEU:HA	4	0.12
(1,3490)	1:17:A:LEU:HD11	1:20:A:ARG:HB2	19	0.12
(1,3457)	1:129:A:ILE:H	1:129:A:ILE:HG12	20	0.12
(1,3434)	1:135:A:SER:HA	1:139:A:ASP:HB2	8	0.12
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD11	20	0.12
(1,3387)	1:125:A:GLN:HA	1:128:A:GLY:HA2	3	0.12
(1,3325)	1:129:A:ILE:H	1:127:A:LEU:HD21	14	0.12
(1,3323)	1:50:A:ARG:HB2	1:49:A:GLN:HB3	5	0.12
(1,3320)	1:99:A:VAL:HG13	1:100:A:LEU:HB3	15	0.12
(1,3287)	1:122:A:SER:HB3	1:121:A:SER:HB3	4	0.12
(1,3287)	1:122:A:SER:HB2	1:121:A:SER:HB3	13	0.12
(1,3254)	1:163:A:SER:H	1:162:A:SER:HA	1	0.12
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD21	13	0.12
(1,3214)	1:14:A:SER:HB3	1:18:A:ILE:HD11	2	0.12
(1,3201)	1:186:A:LEU:HD11	1:194:A:GLN:HG2	6	0.12
(1,3201)	1:186:A:LEU:HD11	1:194:A:GLN:HG3	6	0.12
(1,3201)	1:186:A:LEU:HD12	1:194:A:GLN:HG2	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3201)	1:186:A:LEU:HD12	1:194:A:GLN:HG3	6	0.12
(1,3201)	1:186:A:LEU:HD13	1:194:A:GLN:HG2	6	0.12
(1,3201)	1:186:A:LEU:HD13	1:194:A:GLN:HG3	6	0.12
(1,3201)	1:186:A:LEU:HD21	1:194:A:GLN:HG2	6	0.12
(1,3201)	1:186:A:LEU:HD21	1:194:A:GLN:HG3	6	0.12
(1,3201)	1:186:A:LEU:HD22	1:194:A:GLN:HG2	6	0.12
(1,3201)	1:186:A:LEU:HD22	1:194:A:GLN:HG3	6	0.12
(1,3201)	1:186:A:LEU:HD23	1:194:A:GLN:HG2	6	0.12
(1,3201)	1:186:A:LEU:HD23	1:194:A:GLN:HG3	6	0.12
(1,3198)	1:190:A:ALA:HB1	1:194:A:GLN:HB2	19	0.12
(1,3198)	1:190:A:ALA:HB1	1:194:A:GLN:HB3	19	0.12
(1,3198)	1:190:A:ALA:HB2	1:194:A:GLN:HB2	19	0.12
(1,3198)	1:190:A:ALA:HB2	1:194:A:GLN:HB3	19	0.12
(1,3198)	1:190:A:ALA:HB3	1:194:A:GLN:HB2	19	0.12
(1,3198)	1:190:A:ALA:HB3	1:194:A:GLN:HB3	19	0.12
(1,3185)	1:20:A:ARG:HD2	1:191:A:PRO:HA	19	0.12
(1,3185)	1:20:A:ARG:HD3	1:191:A:PRO:HA	19	0.12
(1,3184)	1:20:A:ARG:HA	1:191:A:PRO:HD2	6	0.12
(1,3184)	1:20:A:ARG:HA	1:191:A:PRO:HD3	6	0.12
(1,3184)	1:20:A:ARG:HA	1:191:A:PRO:HD2	9	0.12
(1,3184)	1:20:A:ARG:HA	1:191:A:PRO:HD3	9	0.12
(1,3146)	1:25:A:LEU:HD11	1:178:A:GLY:HA2	15	0.12
(1,3146)	1:25:A:LEU:HD11	1:178:A:GLY:HA3	15	0.12
(1,3146)	1:25:A:LEU:HD12	1:178:A:GLY:HA2	15	0.12
(1,3146)	1:25:A:LEU:HD12	1:178:A:GLY:HA3	15	0.12
(1,3146)	1:25:A:LEU:HD13	1:178:A:GLY:HA2	15	0.12
(1,3146)	1:25:A:LEU:HD13	1:178:A:GLY:HA3	15	0.12
(1,3146)	1:25:A:LEU:HD21	1:178:A:GLY:HA2	15	0.12
(1,3146)	1:25:A:LEU:HD21	1:178:A:GLY:HA3	15	0.12
(1,3146)	1:25:A:LEU:HD22	1:178:A:GLY:HA2	15	0.12
(1,3146)	1:25:A:LEU:HD22	1:178:A:GLY:HA3	15	0.12
(1,3146)	1:25:A:LEU:HD23	1:178:A:GLY:HA2	15	0.12
(1,3146)	1:25:A:LEU:HD23	1:178:A:GLY:HA3	15	0.12
(1,3145)	1:170:A:THR:HB	1:177:A:THR:HG21	2	0.12
(1,3145)	1:170:A:THR:HB	1:177:A:THR:HG22	2	0.12
(1,3145)	1:170:A:THR:HB	1:177:A:THR:HG23	2	0.12
(1,3108)	1:153:A:SER:HA	1:158:A:GLN:HB2	10	0.12
(1,3108)	1:153:A:SER:HA	1:158:A:GLN:HB3	10	0.12
(1,3021)	1:28:A:THR:HG21	1:139:A:ASP:HA	17	0.12
(1,3021)	1:28:A:THR:HG22	1:139:A:ASP:HA	17	0.12
(1,3021)	1:28:A:THR:HG23	1:139:A:ASP:HA	17	0.12
(1,2891)	1:36:A:ARG:HE	1:124:A:ALA:HB1	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2891)	1:36:A:ARG:HE	1:124:A:ALA:HB2	18	0.12
(1,2891)	1:36:A:ARG:HE	1:124:A:ALA:HB3	18	0.12
(1,2846)	1:117:A:LEU:HG	1:118:A:ASN:HD21	18	0.12
(1,2846)	1:117:A:LEU:HG	1:118:A:ASN:HD22	18	0.12
(1,2839)	1:105:A:ILE:HG12	1:117:A:LEU:HB2	20	0.12
(1,2839)	1:105:A:ILE:HG12	1:117:A:LEU:HB3	20	0.12
(1,2839)	1:105:A:ILE:HG13	1:117:A:LEU:HB2	20	0.12
(1,2839)	1:105:A:ILE:HG13	1:117:A:LEU:HB3	20	0.12
(1,2838)	1:94:A:LEU:HA	1:117:A:LEU:HD11	13	0.12
(1,2838)	1:94:A:LEU:HA	1:117:A:LEU:HD12	13	0.12
(1,2838)	1:94:A:LEU:HA	1:117:A:LEU:HD13	13	0.12
(1,2838)	1:94:A:LEU:HA	1:117:A:LEU:HD21	13	0.12
(1,2838)	1:94:A:LEU:HA	1:117:A:LEU:HD22	13	0.12
(1,2838)	1:94:A:LEU:HA	1:117:A:LEU:HD23	13	0.12
(1,2731)	1:108:A:LEU:HG	1:109:A:GLY:HA2	19	0.12
(1,2731)	1:108:A:LEU:HG	1:109:A:GLY:HA3	19	0.12
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD11	11	0.12
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD12	11	0.12
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD13	11	0.12
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD21	11	0.12
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD22	11	0.12
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD23	11	0.12
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD11	17	0.12
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD12	17	0.12
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD13	17	0.12
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD21	17	0.12
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD22	17	0.12
(1,2727)	1:10:A:THR:HA	1:108:A:LEU:HD23	17	0.12
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD11	15	0.12
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD12	15	0.12
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD13	15	0.12
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD21	15	0.12
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD22	15	0.12
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD23	15	0.12
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD11	15	0.12
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD12	15	0.12
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD13	15	0.12
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD21	15	0.12
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD22	15	0.12
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD23	15	0.12
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD11	15	0.12
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD12	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD13	15	0.12
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD21	15	0.12
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD22	15	0.12
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD23	15	0.12
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG21	5	0.12
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG22	5	0.12
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG23	5	0.12
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG21	5	0.12
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG22	5	0.12
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG23	5	0.12
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	16	0.12
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	16	0.12
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	16	0.12
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	16	0.12
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	16	0.12
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	16	0.12
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	16	0.12
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	16	0.12
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	16	0.12
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	16	0.12
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	16	0.12
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	16	0.12
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	16	0.12
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	16	0.12
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	16	0.12
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	16	0.12
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	16	0.12
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	16	0.12
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	16	0.12
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	16	0.12
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	16	0.12
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	16	0.12
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	16	0.12
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	16	0.12
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	16	0.12
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	16	0.12
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	16	0.12
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	16	0.12
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	16	0.12
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	16	0.12
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	16	0.12
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	16	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	16	0.12
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	16	0.12
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	16	0.12
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	16	0.12
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	16	0.12
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	16	0.12
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	16	0.12
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	16	0.12
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	16	0.12
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	16	0.12
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	16	0.12
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	16	0.12
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	16	0.12
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	16	0.12
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	16	0.12
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	16	0.12
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	16	0.12
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	16	0.12
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	16	0.12
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	16	0.12
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	16	0.12
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	16	0.12
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	16	0.12
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	16	0.12
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	16	0.12
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	16	0.12
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	16	0.12
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	16	0.12
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	16	0.12
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	16	0.12
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	16	0.12
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	16	0.12
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	16	0.12
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	16	0.12
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	16	0.12
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	16	0.12
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	16	0.12
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	16	0.12
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	16	0.12
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	16	0.12
(1,2644)	1:96:A:ASN:HB2	1:100:A:LEU:HG	11	0.12
(1,2644)	1:96:A:ASN:HB3	1:100:A:LEU:HG	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2641)	1:97:A:ALA:HB1	1:100:A:LEU:HG	17	0.12
(1,2641)	1:97:A:ALA:HB2	1:100:A:LEU:HG	17	0.12
(1,2641)	1:97:A:ALA:HB3	1:100:A:LEU:HG	17	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD11	6	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD12	6	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD13	6	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD21	6	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD22	6	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD23	6	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD11	11	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD12	11	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD13	11	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD21	11	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD22	11	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD23	11	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD11	19	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD12	19	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD13	19	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD21	19	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD22	19	0.12
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD23	19	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	4	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	4	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	4	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	4	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	4	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	4	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	8	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	8	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	8	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	8	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	8	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	8	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	18	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	18	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	18	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	18	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	18	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	18	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	19	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	19	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	19	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	19	0.12
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	19	0.12
(1,2558)	1:21:A:VAL:HG11	1:93:A:ALA:HA	6	0.12
(1,2558)	1:21:A:VAL:HG12	1:93:A:ALA:HA	6	0.12
(1,2558)	1:21:A:VAL:HG13	1:93:A:ALA:HA	6	0.12
(1,2558)	1:21:A:VAL:HG21	1:93:A:ALA:HA	6	0.12
(1,2558)	1:21:A:VAL:HG22	1:93:A:ALA:HA	6	0.12
(1,2558)	1:21:A:VAL:HG23	1:93:A:ALA:HA	6	0.12
(1,2521)	1:34:A:VAL:HG11	1:88:A:GLN:HE21	2	0.12
(1,2521)	1:34:A:VAL:HG11	1:88:A:GLN:HE22	2	0.12
(1,2521)	1:34:A:VAL:HG12	1:88:A:GLN:HE21	2	0.12
(1,2521)	1:34:A:VAL:HG12	1:88:A:GLN:HE22	2	0.12
(1,2521)	1:34:A:VAL:HG13	1:88:A:GLN:HE21	2	0.12
(1,2521)	1:34:A:VAL:HG13	1:88:A:GLN:HE22	2	0.12
(1,2521)	1:34:A:VAL:HG21	1:88:A:GLN:HE21	2	0.12
(1,2521)	1:34:A:VAL:HG21	1:88:A:GLN:HE22	2	0.12
(1,2521)	1:34:A:VAL:HG22	1:88:A:GLN:HE21	2	0.12
(1,2521)	1:34:A:VAL:HG22	1:88:A:GLN:HE22	2	0.12
(1,2521)	1:34:A:VAL:HG23	1:88:A:GLN:HE21	2	0.12
(1,2521)	1:34:A:VAL:HG23	1:88:A:GLN:HE22	2	0.12
(1,2492)	1:77:A:LEU:HD11	1:86:A:TYR:HA	5	0.12
(1,2492)	1:77:A:LEU:HD12	1:86:A:TYR:HA	5	0.12
(1,2492)	1:77:A:LEU:HD13	1:86:A:TYR:HA	5	0.12
(1,2492)	1:77:A:LEU:HD21	1:86:A:TYR:HA	5	0.12
(1,2492)	1:77:A:LEU:HD22	1:86:A:TYR:HA	5	0.12
(1,2492)	1:77:A:LEU:HD23	1:86:A:TYR:HA	5	0.12
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE1	16	0.12
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE2	16	0.12
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE1	16	0.12
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE2	16	0.12
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE1	16	0.12
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE2	16	0.12
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE1	16	0.12
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE2	16	0.12
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE1	16	0.12
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE2	16	0.12
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE1	16	0.12
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE2	16	0.12
(1,2444)	1:77:A:LEU:HG	1:78:A:PRO:HG2	17	0.12
(1,2444)	1:77:A:LEU:HG	1:78:A:PRO:HG3	17	0.12
(1,2430)	1:43:A:ILE:HD11	1:77:A:LEU:HG	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD11	5	0.12
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD12	5	0.12
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD13	5	0.12
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD21	5	0.12
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD22	5	0.12
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD23	5	0.12
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD11	5	0.12
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD12	5	0.12
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD13	5	0.12
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD21	5	0.12
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD22	5	0.12
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD23	5	0.12
(1,2328)	1:48:A:VAL:HA	1:70:A:ALA:HA	10	0.12
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB2	9	0.12
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB3	9	0.12
(1,2281)	1:61:A:VAL:HB	1:66:A:LEU:HB2	19	0.12
(1,2281)	1:61:A:VAL:HB	1:66:A:LEU:HB3	19	0.12
(1,2280)	1:62:A:ASP:HA	1:66:A:LEU:HG	5	0.12
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD21	12	0.12
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD22	12	0.12
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD21	12	0.12
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD22	12	0.12
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG11	6	0.12
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG12	6	0.12
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG13	6	0.12
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG21	6	0.12
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG22	6	0.12
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG23	6	0.12
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG11	6	0.12
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG12	6	0.12
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG13	6	0.12
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG21	6	0.12
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG22	6	0.12
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG23	6	0.12
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG11	10	0.12
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG12	10	0.12
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG13	10	0.12
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG21	10	0.12
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG22	10	0.12
(1,2244)	1:53:A:GLN:HB2	1:61:A:VAL:HG23	10	0.12
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG11	10	0.12
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG12	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG13	10	0.12
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG21	10	0.12
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG22	10	0.12
(1,2244)	1:53:A:GLN:HB3	1:61:A:VAL:HG23	10	0.12
(1,2210)	1:54:A:SER:HA	1:57:A:SER:HB2	12	0.12
(1,2210)	1:54:A:SER:HA	1:57:A:SER:HB3	12	0.12
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG2	6	0.12
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG3	6	0.12
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG2	10	0.12
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG3	10	0.12
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG2	18	0.12
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG3	18	0.12
(1,2090)	1:39:A:VAL:HG11	1:43:A:ILE:HB	10	0.12
(1,2090)	1:39:A:VAL:HG12	1:43:A:ILE:HB	10	0.12
(1,2090)	1:39:A:VAL:HG13	1:43:A:ILE:HB	10	0.12
(1,2090)	1:39:A:VAL:HG21	1:43:A:ILE:HB	10	0.12
(1,2090)	1:39:A:VAL:HG22	1:43:A:ILE:HB	10	0.12
(1,2090)	1:39:A:VAL:HG23	1:43:A:ILE:HB	10	0.12
(1,2002)	1:34:A:VAL:HB	1:35:A:LEU:H	19	0.12
(1,1957)	1:30:A:THR:HG21	1:31:A:LEU:H	1	0.12
(1,1957)	1:30:A:THR:HG22	1:31:A:LEU:H	1	0.12
(1,1957)	1:30:A:THR:HG23	1:31:A:LEU:H	1	0.12
(1,1833)	1:13:A:ALA:HA	1:16:A:GLY:HA2	11	0.12
(1,1833)	1:13:A:ALA:HA	1:16:A:GLY:HA3	11	0.12
(1,1826)	1:3:A:PRO:HA	1:8:A:GLY:HA2	6	0.12
(1,1826)	1:3:A:PRO:HA	1:8:A:GLY:HA3	6	0.12
(1,1825)	1:3:A:PRO:HA	1:8:A:GLY:HA2	6	0.12
(1,1825)	1:3:A:PRO:HA	1:8:A:GLY:HA3	6	0.12
(1,1824)	1:4:A:GLN:HG2	1:7:A:PHE:HB2	9	0.12
(1,1824)	1:4:A:GLN:HG2	1:7:A:PHE:HB3	9	0.12
(1,1824)	1:4:A:GLN:HG3	1:7:A:PHE:HB2	9	0.12
(1,1824)	1:4:A:GLN:HG3	1:7:A:PHE:HB3	9	0.12
(1,1824)	1:4:A:GLN:HG2	1:7:A:PHE:HB2	15	0.12
(1,1824)	1:4:A:GLN:HG2	1:7:A:PHE:HB3	15	0.12
(1,1824)	1:4:A:GLN:HG3	1:7:A:PHE:HB2	15	0.12
(1,1824)	1:4:A:GLN:HG3	1:7:A:PHE:HB3	15	0.12
(1,1707)	1:149:A:THR:H	1:149:A:THR:HA	7	0.12
(1,1707)	1:149:A:THR:H	1:149:A:THR:HA	12	0.12
(1,1707)	1:149:A:THR:H	1:149:A:THR:HA	17	0.12
(1,1652)	1:131:A:VAL:H	1:131:A:VAL:HA	5	0.12
(1,1652)	1:131:A:VAL:H	1:131:A:VAL:HA	8	0.12
(1,1652)	1:131:A:VAL:H	1:131:A:VAL:HA	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1578)	1:105:A:ILE:HA	1:107:A:THR:H	12	0.12
(1,1411)	1:62:A:ASP:HA	1:63:A:GLY:H	13	0.12
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG2	6	0.12
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG3	6	0.12
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG2	10	0.12
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG3	10	0.12
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG2	18	0.12
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG3	18	0.12
(1,1156)	1:31:A:LEU:H	1:31:A:LEU:HA	9	0.12
(1,1156)	1:34:A:VAL:H	1:34:A:VAL:HA	12	0.12
(1,1156)	1:34:A:VAL:H	1:34:A:VAL:HA	16	0.12
(1,1154)	1:106:A:ASP:H	1:105:A:ILE:HG13	9	0.12
(1,1154)	1:106:A:ASP:H	1:105:A:ILE:HG13	11	0.12
(1,1154)	1:106:A:ASP:H	1:105:A:ILE:HG13	12	0.12
(1,1138)	1:76:A:ARG:HB3	1:74:A:VAL:H	20	0.12
(1,1133)	1:42:A:GLN:H	1:44:A:ALA:HB1	17	0.12
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	4	0.12
(1,1132)	1:59:A:LEU:H	1:59:A:LEU:HA	10	0.12
(1,1127)	1:163:A:SER:H	1:162:A:SER:HA	1	0.12
(1,1116)	1:93:A:ALA:H	1:100:A:LEU:HD23	8	0.12
(1,1095)	1:193:A:GLY:H	1:191:A:PRO:HA	15	0.12
(1,1087)	1:64:A:ASN:H	1:66:A:LEU:HA	17	0.12
(1,1087)	1:64:A:ASN:H	1:66:A:LEU:HA	19	0.12
(1,1073)	1:61:A:VAL:HB	1:62:A:ASP:H	3	0.12
(1,1037)	1:173:A:SER:H	1:173:A:SER:HA	2	0.12
(1,1023)	1:164:A:THR:HA	1:166:A:GLY:H	8	0.12
(1,1008)	1:40:A:SER:H	1:42:A:GLN:HB2	16	0.12
(1,976)	1:123:A:ALA:H	1:119:A:GLY:HA2	18	0.12
(1,958)	1:136:A:VAL:H	1:140:A:ILE:H	14	0.12
(1,957)	1:109:A:GLY:H	1:108:A:LEU:HB3	20	0.12
(1,946)	1:196:A:GLY:H	1:197:A:PHE:HA	20	0.12
(1,940)	1:191:A:PRO:HD2	1:193:A:GLY:H	17	0.12
(1,940)	1:191:A:PRO:HD3	1:193:A:GLY:H	17	0.12
(1,920)	1:149:A:THR:HB	1:180:A:SER:H	16	0.12
(1,914)	1:170:A:THR:H	1:175:A:PRO:HD2	5	0.12
(1,914)	1:170:A:THR:H	1:175:A:PRO:HD3	5	0.12
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG2	14	0.12
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG3	14	0.12
(1,897)	1:156:A:TYR:HA	1:160:A:SER:H	4	0.12
(1,897)	1:156:A:TYR:HA	1:160:A:SER:H	7	0.12
(1,893)	1:153:A:SER:HB2	1:158:A:GLN:H	13	0.12
(1,893)	1:153:A:SER:HB3	1:158:A:GLN:H	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,876)	1:148:A:SER:H	1:149:A:THR:H	1	0.12
(1,876)	1:148:A:SER:H	1:149:A:THR:H	2	0.12
(1,857)	1:140:A:ILE:H	1:143:A:SER:HB2	2	0.12
(1,857)	1:140:A:ILE:H	1:143:A:SER:HB3	2	0.12
(1,851)	1:137:A:GLN:HB2	1:141:A:SER:H	3	0.12
(1,851)	1:137:A:GLN:HB3	1:141:A:SER:H	3	0.12
(1,648)	1:108:A:LEU:HD11	1:110:A:SER:H	20	0.12
(1,648)	1:108:A:LEU:HD12	1:110:A:SER:H	20	0.12
(1,648)	1:108:A:LEU:HD13	1:110:A:SER:H	20	0.12
(1,648)	1:108:A:LEU:HD21	1:110:A:SER:H	20	0.12
(1,648)	1:108:A:LEU:HD22	1:110:A:SER:H	20	0.12
(1,648)	1:108:A:LEU:HD23	1:110:A:SER:H	20	0.12
(1,631)	1:104:A:ASN:H	1:108:A:LEU:H	20	0.12
(1,595)	1:100:A:LEU:HA	1:104:A:ASN:HD21	4	0.12
(1,595)	1:100:A:LEU:HA	1:104:A:ASN:HD22	4	0.12
(1,594)	1:100:A:LEU:HD11	1:104:A:ASN:H	18	0.12
(1,594)	1:100:A:LEU:HD12	1:104:A:ASN:H	18	0.12
(1,594)	1:100:A:LEU:HD13	1:104:A:ASN:H	18	0.12
(1,594)	1:100:A:LEU:HD21	1:104:A:ASN:H	18	0.12
(1,594)	1:100:A:LEU:HD22	1:104:A:ASN:H	18	0.12
(1,594)	1:100:A:LEU:HD23	1:104:A:ASN:H	18	0.12
(1,589)	1:101:A:ASN:H	1:104:A:ASN:H	1	0.12
(1,589)	1:101:A:ASN:H	1:104:A:ASN:H	3	0.12
(1,589)	1:101:A:ASN:H	1:104:A:ASN:H	13	0.12
(1,561)	1:22:A:ALA:H	1:100:A:LEU:HA	12	0.12
(1,555)	1:99:A:VAL:H	1:100:A:LEU:HG	13	0.12
(1,483)	1:35:A:LEU:HB2	1:88:A:GLN:HE21	10	0.12
(1,483)	1:35:A:LEU:HB2	1:88:A:GLN:HE22	10	0.12
(1,483)	1:35:A:LEU:HB3	1:88:A:GLN:HE21	10	0.12
(1,483)	1:35:A:LEU:HB3	1:88:A:GLN:HE22	10	0.12
(1,482)	1:35:A:LEU:HB2	1:88:A:GLN:HE21	10	0.12
(1,482)	1:35:A:LEU:HB2	1:88:A:GLN:HE22	10	0.12
(1,482)	1:35:A:LEU:HB3	1:88:A:GLN:HE21	10	0.12
(1,482)	1:35:A:LEU:HB3	1:88:A:GLN:HE22	10	0.12
(1,339)	1:63:A:GLY:H	1:65:A:ASN:H	19	0.12
(1,332)	1:61:A:VAL:HA	1:64:A:ASN:H	1	0.12
(1,320)	1:62:A:ASP:HA	1:63:A:GLY:H	13	0.12
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG11	9	0.12
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG12	9	0.12
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG13	9	0.12
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG21	9	0.12
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG22	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,314)	1:48:A:VAL:H	1:61:A:VAL:HG23	9	0.12
(1,268)	1:50:A:ARG:HG2	1:53:A:GLN:H	20	0.12
(1,268)	1:50:A:ARG:HG3	1:53:A:GLN:H	20	0.12
(1,258)	1:49:A:GLN:HB2	1:51:A:ALA:H	6	0.12
(1,258)	1:49:A:GLN:HB3	1:51:A:ALA:H	6	0.12
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	6	0.12
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	10	0.12
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	19	0.12
(1,69)	1:21:A:VAL:HG11	1:22:A:ALA:H	2	0.12
(1,69)	1:21:A:VAL:HG12	1:22:A:ALA:H	2	0.12
(1,69)	1:21:A:VAL:HG13	1:22:A:ALA:H	2	0.12
(1,69)	1:21:A:VAL:HG21	1:22:A:ALA:H	2	0.12
(1,69)	1:21:A:VAL:HG22	1:22:A:ALA:H	2	0.12
(1,69)	1:21:A:VAL:HG23	1:22:A:ALA:H	2	0.12
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD1	11	0.11
(1,3894)	1:26:A:ALA:HB1	1:95:A:PHE:HD2	11	0.11
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD1	11	0.11
(1,3894)	1:26:A:ALA:HB2	1:95:A:PHE:HD2	11	0.11
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD1	11	0.11
(1,3894)	1:26:A:ALA:HB3	1:95:A:PHE:HD2	11	0.11
(1,3866)	1:177:A:THR:H	1:177:A:THR:HA	11	0.11
(1,3866)	1:177:A:THR:H	1:177:A:THR:HA	16	0.11
(1,3786)	1:15:A:ALA:H	1:16:A:GLY:HA3	17	0.11
(1,3778)	1:129:A:ILE:HG23	1:130:A:ASN:HB3	9	0.11
(1,3711)	1:149:A:THR:H	1:149:A:THR:HA	6	0.11
(1,3711)	1:149:A:THR:H	1:149:A:THR:HA	18	0.11
(1,3670)	1:23:A:ASN:H	1:26:A:ALA:HB1	17	0.11
(1,3654)	1:39:A:VAL:HG11	1:38:A:GLY:HA2	5	0.11
(1,3654)	1:37:A:THR:HG21	1:38:A:GLY:HA3	13	0.11
(1,3592)	1:99:A:VAL:HG22	1:22:A:ALA:HB2	9	0.11
(1,3535)	1:96:A:ASN:HB3	1:105:A:ILE:HD11	1	0.11
(1,3516)	1:58:A:THR:HA	1:59:A:LEU:HG	17	0.11
(1,3499)	1:55:A:LEU:HD23	1:49:A:GLN:HG2	2	0.11
(1,3479)	1:121:A:SER:HA	1:117:A:LEU:HD23	15	0.11
(1,3471)	1:76:A:ARG:HA	1:72:A:GLN:HA	2	0.11
(1,3471)	1:76:A:ARG:HA	1:72:A:GLN:HA	14	0.11
(1,3458)	1:23:A:ASN:HB2	1:24:A:ALA:HB2	8	0.11
(1,3400)	1:140:A:ILE:HD13	1:141:A:SER:HB3	4	0.11
(1,3387)	1:125:A:GLN:HA	1:128:A:GLY:HA2	4	0.11
(1,3344)	1:93:A:ALA:HB3	1:105:A:ILE:HD13	6	0.11
(1,3287)	1:122:A:SER:HB3	1:121:A:SER:HB2	19	0.11
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG12	18	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3232)	1:96:A:ASN:HB3	1:105:A:ILE:HD11	1	0.11
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD21	7	0.11
(1,3223)	1:98:A:GLY:HA2	1:100:A:LEU:HD23	11	0.11
(1,3207)	1:194:A:GLN:HG2	1:197:A:PHE:HB2	8	0.11
(1,3207)	1:194:A:GLN:HG2	1:197:A:PHE:HB3	8	0.11
(1,3207)	1:194:A:GLN:HG3	1:197:A:PHE:HB2	8	0.11
(1,3207)	1:194:A:GLN:HG3	1:197:A:PHE:HB3	8	0.11
(1,3206)	1:194:A:GLN:HG2	1:197:A:PHE:HB2	8	0.11
(1,3206)	1:194:A:GLN:HG2	1:197:A:PHE:HB3	8	0.11
(1,3206)	1:194:A:GLN:HG3	1:197:A:PHE:HB2	8	0.11
(1,3206)	1:194:A:GLN:HG3	1:197:A:PHE:HB3	8	0.11
(1,3204)	1:101:A:ASN:H	1:195:A:SER:HB2	15	0.11
(1,3204)	1:101:A:ASN:H	1:195:A:SER:HB3	15	0.11
(1,3203)	1:186:A:LEU:HB2	1:194:A:GLN:HG2	17	0.11
(1,3203)	1:186:A:LEU:HB2	1:194:A:GLN:HG3	17	0.11
(1,3203)	1:186:A:LEU:HB3	1:194:A:GLN:HG2	17	0.11
(1,3203)	1:186:A:LEU:HB3	1:194:A:GLN:HG3	17	0.11
(1,3186)	1:20:A:ARG:H	1:191:A:PRO:HG2	10	0.11
(1,3186)	1:20:A:ARG:H	1:191:A:PRO:HG3	10	0.11
(1,3166)	1:186:A:LEU:HD11	1:190:A:ALA:H	1	0.11
(1,3166)	1:186:A:LEU:HD12	1:190:A:ALA:H	1	0.11
(1,3166)	1:186:A:LEU:HD13	1:190:A:ALA:H	1	0.11
(1,3166)	1:186:A:LEU:HD21	1:190:A:ALA:H	1	0.11
(1,3166)	1:186:A:LEU:HD22	1:190:A:ALA:H	1	0.11
(1,3166)	1:186:A:LEU:HD23	1:190:A:ALA:H	1	0.11
(1,3141)	1:175:A:PRO:HD2	1:177:A:THR:HB	18	0.11
(1,3141)	1:175:A:PRO:HD3	1:177:A:THR:HB	18	0.11
(1,3122)	1:20:A:ARG:HG2	1:171:A:GLY:HA2	3	0.11
(1,3122)	1:20:A:ARG:HG2	1:171:A:GLY:HA3	3	0.11
(1,3122)	1:20:A:ARG:HG3	1:171:A:GLY:HA2	3	0.11
(1,3122)	1:20:A:ARG:HG3	1:171:A:GLY:HA3	3	0.11
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB1	17	0.11
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB2	17	0.11
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB3	17	0.11
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG21	6	0.11
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG22	6	0.11
(1,3089)	1:27:A:ASN:HD21	1:149:A:THR:HG23	6	0.11
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG21	6	0.11
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG22	6	0.11
(1,3089)	1:27:A:ASN:HD22	1:149:A:THR:HG23	6	0.11
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB2	16	0.11
(1,3067)	1:28:A:THR:HB	1:144:A:SER:HB3	16	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3021)	1:28:A:THR:HG21	1:139:A:ASP:HA	4	0.11
(1,3021)	1:28:A:THR:HG22	1:139:A:ASP:HA	4	0.11
(1,3021)	1:28:A:THR:HG23	1:139:A:ASP:HA	4	0.11
(1,2970)	1:37:A:THR:HA	1:131:A:VAL:HB	19	0.11
(1,2961)	1:38:A:GLY:HA2	1:130:A:ASN:HA	7	0.11
(1,2961)	1:38:A:GLY:HA3	1:130:A:ASN:HA	7	0.11
(1,2961)	1:38:A:GLY:HA2	1:130:A:ASN:HA	13	0.11
(1,2961)	1:38:A:GLY:HA3	1:130:A:ASN:HA	13	0.11
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB2	16	0.11
(1,2960)	1:53:A:GLN:HE21	1:130:A:ASN:HB3	16	0.11
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB2	16	0.11
(1,2960)	1:53:A:GLN:HE22	1:130:A:ASN:HB3	16	0.11
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB2	13	0.11
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB3	13	0.11
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB2	13	0.11
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB3	13	0.11
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB2	13	0.11
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB3	13	0.11
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB2	13	0.11
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB3	13	0.11
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB2	13	0.11
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB3	13	0.11
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB2	13	0.11
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB3	13	0.11
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB2	15	0.11
(1,2908)	1:120:A:VAL:HG11	1:125:A:GLN:HB3	15	0.11
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB2	15	0.11
(1,2908)	1:120:A:VAL:HG12	1:125:A:GLN:HB3	15	0.11
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB2	15	0.11
(1,2908)	1:120:A:VAL:HG13	1:125:A:GLN:HB3	15	0.11
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB2	15	0.11
(1,2908)	1:120:A:VAL:HG21	1:125:A:GLN:HB3	15	0.11
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB2	15	0.11
(1,2908)	1:120:A:VAL:HG22	1:125:A:GLN:HB3	15	0.11
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB2	15	0.11
(1,2908)	1:120:A:VAL:HG23	1:125:A:GLN:HB3	15	0.11
(1,2906)	1:105:A:ILE:HG21	1:125:A:GLN:HG2	15	0.11
(1,2906)	1:105:A:ILE:HG21	1:125:A:GLN:HG3	15	0.11
(1,2906)	1:105:A:ILE:HG22	1:125:A:GLN:HG2	15	0.11
(1,2906)	1:105:A:ILE:HG22	1:125:A:GLN:HG3	15	0.11
(1,2906)	1:105:A:ILE:HG23	1:125:A:GLN:HG2	15	0.11
(1,2906)	1:105:A:ILE:HG23	1:125:A:GLN:HG3	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2880)	1:120:A:VAL:HA	1:123:A:ALA:HB1	5	0.11
(1,2880)	1:120:A:VAL:HA	1:123:A:ALA:HB2	5	0.11
(1,2880)	1:120:A:VAL:HA	1:123:A:ALA:HB3	5	0.11
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG11	8	0.11
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG12	8	0.11
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG13	8	0.11
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG21	8	0.11
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG22	8	0.11
(1,2871)	1:42:A:GLN:HG2	1:120:A:VAL:HG23	8	0.11
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG11	8	0.11
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG12	8	0.11
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG13	8	0.11
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG21	8	0.11
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG22	8	0.11
(1,2871)	1:42:A:GLN:HG3	1:120:A:VAL:HG23	8	0.11
(1,2851)	1:115:A:ALA:HB1	1:118:A:ASN:HB2	15	0.11
(1,2851)	1:115:A:ALA:HB1	1:118:A:ASN:HB3	15	0.11
(1,2851)	1:115:A:ALA:HB2	1:118:A:ASN:HB2	15	0.11
(1,2851)	1:115:A:ALA:HB2	1:118:A:ASN:HB3	15	0.11
(1,2851)	1:115:A:ALA:HB3	1:118:A:ASN:HB2	15	0.11
(1,2851)	1:115:A:ALA:HB3	1:118:A:ASN:HB3	15	0.11
(1,2835)	1:110:A:SER:HA	1:117:A:LEU:HA	4	0.11
(1,2835)	1:110:A:SER:HA	1:117:A:LEU:HA	15	0.11
(1,2814)	1:55:A:LEU:HD11	1:116:A:LEU:HD11	3	0.11
(1,2814)	1:55:A:LEU:HD11	1:116:A:LEU:HD12	3	0.11
(1,2814)	1:55:A:LEU:HD11	1:116:A:LEU:HD13	3	0.11
(1,2814)	1:55:A:LEU:HD11	1:116:A:LEU:HD21	3	0.11
(1,2814)	1:55:A:LEU:HD11	1:116:A:LEU:HD22	3	0.11
(1,2814)	1:55:A:LEU:HD11	1:116:A:LEU:HD23	3	0.11
(1,2814)	1:55:A:LEU:HD12	1:116:A:LEU:HD11	3	0.11
(1,2814)	1:55:A:LEU:HD12	1:116:A:LEU:HD12	3	0.11
(1,2814)	1:55:A:LEU:HD12	1:116:A:LEU:HD13	3	0.11
(1,2814)	1:55:A:LEU:HD12	1:116:A:LEU:HD21	3	0.11
(1,2814)	1:55:A:LEU:HD12	1:116:A:LEU:HD22	3	0.11
(1,2814)	1:55:A:LEU:HD12	1:116:A:LEU:HD23	3	0.11
(1,2814)	1:55:A:LEU:HD13	1:116:A:LEU:HD11	3	0.11
(1,2814)	1:55:A:LEU:HD13	1:116:A:LEU:HD12	3	0.11
(1,2814)	1:55:A:LEU:HD13	1:116:A:LEU:HD13	3	0.11
(1,2814)	1:55:A:LEU:HD13	1:116:A:LEU:HD21	3	0.11
(1,2814)	1:55:A:LEU:HD13	1:116:A:LEU:HD22	3	0.11
(1,2814)	1:55:A:LEU:HD13	1:116:A:LEU:HD23	3	0.11
(1,2814)	1:55:A:LEU:HD21	1:116:A:LEU:HD11	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2814)	1:55:A:LEU:HD21	1:116:A:LEU:HD12	3	0.11
(1,2814)	1:55:A:LEU:HD21	1:116:A:LEU:HD13	3	0.11
(1,2814)	1:55:A:LEU:HD21	1:116:A:LEU:HD21	3	0.11
(1,2814)	1:55:A:LEU:HD21	1:116:A:LEU:HD22	3	0.11
(1,2814)	1:55:A:LEU:HD21	1:116:A:LEU:HD23	3	0.11
(1,2814)	1:55:A:LEU:HD22	1:116:A:LEU:HD11	3	0.11
(1,2814)	1:55:A:LEU:HD22	1:116:A:LEU:HD12	3	0.11
(1,2814)	1:55:A:LEU:HD22	1:116:A:LEU:HD13	3	0.11
(1,2814)	1:55:A:LEU:HD22	1:116:A:LEU:HD21	3	0.11
(1,2814)	1:55:A:LEU:HD22	1:116:A:LEU:HD22	3	0.11
(1,2814)	1:55:A:LEU:HD22	1:116:A:LEU:HD23	3	0.11
(1,2814)	1:55:A:LEU:HD23	1:116:A:LEU:HD11	3	0.11
(1,2814)	1:55:A:LEU:HD23	1:116:A:LEU:HD12	3	0.11
(1,2814)	1:55:A:LEU:HD23	1:116:A:LEU:HD13	3	0.11
(1,2814)	1:55:A:LEU:HD23	1:116:A:LEU:HD21	3	0.11
(1,2814)	1:55:A:LEU:HD23	1:116:A:LEU:HD22	3	0.11
(1,2814)	1:55:A:LEU:HD23	1:116:A:LEU:HD23	3	0.11
(1,2808)	1:55:A:LEU:HD11	1:116:A:LEU:HD11	3	0.11
(1,2808)	1:55:A:LEU:HD11	1:116:A:LEU:HD12	3	0.11
(1,2808)	1:55:A:LEU:HD11	1:116:A:LEU:HD13	3	0.11
(1,2808)	1:55:A:LEU:HD11	1:116:A:LEU:HD21	3	0.11
(1,2808)	1:55:A:LEU:HD11	1:116:A:LEU:HD22	3	0.11
(1,2808)	1:55:A:LEU:HD11	1:116:A:LEU:HD23	3	0.11
(1,2808)	1:55:A:LEU:HD12	1:116:A:LEU:HD11	3	0.11
(1,2808)	1:55:A:LEU:HD12	1:116:A:LEU:HD12	3	0.11
(1,2808)	1:55:A:LEU:HD12	1:116:A:LEU:HD13	3	0.11
(1,2808)	1:55:A:LEU:HD12	1:116:A:LEU:HD21	3	0.11
(1,2808)	1:55:A:LEU:HD12	1:116:A:LEU:HD22	3	0.11
(1,2808)	1:55:A:LEU:HD12	1:116:A:LEU:HD23	3	0.11
(1,2808)	1:55:A:LEU:HD13	1:116:A:LEU:HD11	3	0.11
(1,2808)	1:55:A:LEU:HD13	1:116:A:LEU:HD12	3	0.11
(1,2808)	1:55:A:LEU:HD13	1:116:A:LEU:HD13	3	0.11
(1,2808)	1:55:A:LEU:HD13	1:116:A:LEU:HD21	3	0.11
(1,2808)	1:55:A:LEU:HD13	1:116:A:LEU:HD22	3	0.11
(1,2808)	1:55:A:LEU:HD13	1:116:A:LEU:HD23	3	0.11
(1,2808)	1:55:A:LEU:HD21	1:116:A:LEU:HD11	3	0.11
(1,2808)	1:55:A:LEU:HD21	1:116:A:LEU:HD12	3	0.11
(1,2808)	1:55:A:LEU:HD21	1:116:A:LEU:HD13	3	0.11
(1,2808)	1:55:A:LEU:HD21	1:116:A:LEU:HD21	3	0.11
(1,2808)	1:55:A:LEU:HD21	1:116:A:LEU:HD22	3	0.11
(1,2808)	1:55:A:LEU:HD21	1:116:A:LEU:HD23	3	0.11
(1,2808)	1:55:A:LEU:HD22	1:116:A:LEU:HD11	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2808)	1:55:A:LEU:HD22	1:116:A:LEU:HD12	3	0.11
(1,2808)	1:55:A:LEU:HD22	1:116:A:LEU:HD13	3	0.11
(1,2808)	1:55:A:LEU:HD22	1:116:A:LEU:HD21	3	0.11
(1,2808)	1:55:A:LEU:HD22	1:116:A:LEU:HD22	3	0.11
(1,2808)	1:55:A:LEU:HD22	1:116:A:LEU:HD23	3	0.11
(1,2808)	1:55:A:LEU:HD23	1:116:A:LEU:HD11	3	0.11
(1,2808)	1:55:A:LEU:HD23	1:116:A:LEU:HD12	3	0.11
(1,2808)	1:55:A:LEU:HD23	1:116:A:LEU:HD13	3	0.11
(1,2808)	1:55:A:LEU:HD23	1:116:A:LEU:HD21	3	0.11
(1,2808)	1:55:A:LEU:HD23	1:116:A:LEU:HD22	3	0.11
(1,2808)	1:55:A:LEU:HD23	1:116:A:LEU:HD23	3	0.11
(1,2764)	1:110:A:SER:HA	1:112:A:VAL:H	8	0.11
(1,2761)	1:111:A:ARG:HB2	1:112:A:VAL:HG11	7	0.11
(1,2761)	1:111:A:ARG:HB2	1:112:A:VAL:HG12	7	0.11
(1,2761)	1:111:A:ARG:HB2	1:112:A:VAL:HG13	7	0.11
(1,2761)	1:111:A:ARG:HB2	1:112:A:VAL:HG21	7	0.11
(1,2761)	1:111:A:ARG:HB2	1:112:A:VAL:HG22	7	0.11
(1,2761)	1:111:A:ARG:HB2	1:112:A:VAL:HG23	7	0.11
(1,2761)	1:111:A:ARG:HB3	1:112:A:VAL:HG11	7	0.11
(1,2761)	1:111:A:ARG:HB3	1:112:A:VAL:HG12	7	0.11
(1,2761)	1:111:A:ARG:HB3	1:112:A:VAL:HG13	7	0.11
(1,2761)	1:111:A:ARG:HB3	1:112:A:VAL:HG21	7	0.11
(1,2761)	1:111:A:ARG:HB3	1:112:A:VAL:HG22	7	0.11
(1,2761)	1:111:A:ARG:HB3	1:112:A:VAL:HG23	7	0.11
(1,2754)	1:106:A:ASP:HA	1:111:A:ARG:HD2	9	0.11
(1,2754)	1:106:A:ASP:HA	1:111:A:ARG:HD3	9	0.11
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD2	13	0.11
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD3	13	0.11
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD2	13	0.11
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD3	13	0.11
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD2	18	0.11
(1,2752)	1:108:A:LEU:HB2	1:111:A:ARG:HD3	18	0.11
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD2	18	0.11
(1,2752)	1:108:A:LEU:HB3	1:111:A:ARG:HD3	18	0.11
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD11	14	0.11
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD12	14	0.11
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD13	14	0.11
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD21	14	0.11
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD22	14	0.11
(1,2722)	1:105:A:ILE:HD11	1:108:A:LEU:HD23	14	0.11
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD11	14	0.11
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD12	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD13	14	0.11
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD21	14	0.11
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD22	14	0.11
(1,2722)	1:105:A:ILE:HD12	1:108:A:LEU:HD23	14	0.11
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD11	14	0.11
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD12	14	0.11
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD13	14	0.11
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD21	14	0.11
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD22	14	0.11
(1,2722)	1:105:A:ILE:HD13	1:108:A:LEU:HD23	14	0.11
(1,2720)	1:107:A:THR:HG21	1:108:A:LEU:HB2	8	0.11
(1,2720)	1:107:A:THR:HG21	1:108:A:LEU:HB3	8	0.11
(1,2720)	1:107:A:THR:HG22	1:108:A:LEU:HB2	8	0.11
(1,2720)	1:107:A:THR:HG22	1:108:A:LEU:HB3	8	0.11
(1,2720)	1:107:A:THR:HG23	1:108:A:LEU:HB2	8	0.11
(1,2720)	1:107:A:THR:HG23	1:108:A:LEU:HB3	8	0.11
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG21	12	0.11
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG22	12	0.11
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG23	12	0.11
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG21	12	0.11
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG22	12	0.11
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG23	12	0.11
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG21	16	0.11
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG22	16	0.11
(1,2695)	1:96:A:ASN:HB2	1:105:A:ILE:HG23	16	0.11
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG21	16	0.11
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG22	16	0.11
(1,2695)	1:96:A:ASN:HB3	1:105:A:ILE:HG23	16	0.11
(1,2670)	1:103:A:SER:H	1:104:A:ASN:HA	14	0.11
(1,2670)	1:103:A:SER:H	1:104:A:ASN:HA	17	0.11
(1,2645)	1:22:A:ALA:HA	1:100:A:LEU:HB2	2	0.11
(1,2645)	1:22:A:ALA:HA	1:100:A:LEU:HB3	2	0.11
(1,2645)	1:22:A:ALA:HA	1:100:A:LEU:HB2	9	0.11
(1,2645)	1:22:A:ALA:HA	1:100:A:LEU:HB3	9	0.11
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD11	7	0.11
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD12	7	0.11
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD13	7	0.11
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD21	7	0.11
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD22	7	0.11
(1,2628)	1:100:A:LEU:H	1:100:A:LEU:HD23	7	0.11
(1,2610)	1:23:A:ASN:HD21	1:97:A:ALA:HB1	10	0.11
(1,2610)	1:23:A:ASN:HD21	1:97:A:ALA:HB2	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2610)	1:23:A:ASN:HD21	1:97:A:ALA:HB3	10	0.11
(1,2610)	1:23:A:ASN:HD22	1:97:A:ALA:HB1	10	0.11
(1,2610)	1:23:A:ASN:HD22	1:97:A:ALA:HB2	10	0.11
(1,2610)	1:23:A:ASN:HD22	1:97:A:ALA:HB3	10	0.11
(1,2609)	1:23:A:ASN:HD21	1:97:A:ALA:HA	11	0.11
(1,2609)	1:23:A:ASN:HD22	1:97:A:ALA:HA	11	0.11
(1,2601)	1:22:A:ALA:HB1	1:96:A:ASN:HA	4	0.11
(1,2601)	1:22:A:ALA:HB2	1:96:A:ASN:HA	4	0.11
(1,2601)	1:22:A:ALA:HB3	1:96:A:ASN:HA	4	0.11
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD11	10	0.11
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD12	10	0.11
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD13	10	0.11
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD21	10	0.11
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD22	10	0.11
(1,2573)	1:92:A:SER:HA	1:94:A:LEU:HD23	10	0.11
(1,2558)	1:21:A:VAL:HG11	1:93:A:ALA:HA	10	0.11
(1,2558)	1:21:A:VAL:HG12	1:93:A:ALA:HA	10	0.11
(1,2558)	1:21:A:VAL:HG13	1:93:A:ALA:HA	10	0.11
(1,2558)	1:21:A:VAL:HG21	1:93:A:ALA:HA	10	0.11
(1,2558)	1:21:A:VAL:HG22	1:93:A:ALA:HA	10	0.11
(1,2558)	1:21:A:VAL:HG23	1:93:A:ALA:HA	10	0.11
(1,2517)	1:87:A:ALA:HB1	1:88:A:GLN:HE21	15	0.11
(1,2517)	1:87:A:ALA:HB1	1:88:A:GLN:HE22	15	0.11
(1,2517)	1:87:A:ALA:HB2	1:88:A:GLN:HE21	15	0.11
(1,2517)	1:87:A:ALA:HB2	1:88:A:GLN:HE22	15	0.11
(1,2517)	1:87:A:ALA:HB3	1:88:A:GLN:HE21	15	0.11
(1,2517)	1:87:A:ALA:HB3	1:88:A:GLN:HE22	15	0.11
(1,2492)	1:77:A:LEU:HD11	1:86:A:TYR:HA	14	0.11
(1,2492)	1:77:A:LEU:HD12	1:86:A:TYR:HA	14	0.11
(1,2492)	1:77:A:LEU:HD13	1:86:A:TYR:HA	14	0.11
(1,2492)	1:77:A:LEU:HD21	1:86:A:TYR:HA	14	0.11
(1,2492)	1:77:A:LEU:HD22	1:86:A:TYR:HA	14	0.11
(1,2492)	1:77:A:LEU:HD23	1:86:A:TYR:HA	14	0.11
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE1	19	0.11
(1,2490)	1:39:A:VAL:HG11	1:86:A:TYR:HE2	19	0.11
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE1	19	0.11
(1,2490)	1:39:A:VAL:HG12	1:86:A:TYR:HE2	19	0.11
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE1	19	0.11
(1,2490)	1:39:A:VAL:HG13	1:86:A:TYR:HE2	19	0.11
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE1	19	0.11
(1,2490)	1:39:A:VAL:HG21	1:86:A:TYR:HE2	19	0.11
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE1	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2490)	1:39:A:VAL:HG22	1:86:A:TYR:HE2	19	0.11
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE1	19	0.11
(1,2490)	1:39:A:VAL:HG23	1:86:A:TYR:HE2	19	0.11
(1,2484)	1:83:A:THR:HG21	1:86:A:TYR:H	1	0.11
(1,2484)	1:83:A:THR:HG22	1:86:A:TYR:H	1	0.11
(1,2484)	1:83:A:THR:HG23	1:86:A:TYR:H	1	0.11
(1,2484)	1:83:A:THR:HG21	1:86:A:TYR:H	18	0.11
(1,2484)	1:83:A:THR:HG22	1:86:A:TYR:H	18	0.11
(1,2484)	1:83:A:THR:HG23	1:86:A:TYR:H	18	0.11
(1,2444)	1:77:A:LEU:HG	1:78:A:PRO:HG2	2	0.11
(1,2444)	1:77:A:LEU:HG	1:78:A:PRO:HG3	2	0.11
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB2	15	0.11
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB3	15	0.11
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB2	18	0.11
(1,2393)	1:71:A:VAL:HA	1:75:A:SER:HB3	18	0.11
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB2	15	0.11
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB3	15	0.11
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB2	18	0.11
(1,2391)	1:71:A:VAL:HA	1:75:A:SER:HB3	18	0.11
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB2	15	0.11
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB3	15	0.11
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB2	18	0.11
(1,2390)	1:71:A:VAL:HA	1:75:A:SER:HB3	18	0.11
(1,2322)	1:59:A:LEU:HD11	1:69:A:PHE:HB2	7	0.11
(1,2322)	1:59:A:LEU:HD11	1:69:A:PHE:HB3	7	0.11
(1,2322)	1:59:A:LEU:HD12	1:69:A:PHE:HB2	7	0.11
(1,2322)	1:59:A:LEU:HD12	1:69:A:PHE:HB3	7	0.11
(1,2322)	1:59:A:LEU:HD13	1:69:A:PHE:HB2	7	0.11
(1,2322)	1:59:A:LEU:HD13	1:69:A:PHE:HB3	7	0.11
(1,2322)	1:59:A:LEU:HD21	1:69:A:PHE:HB2	7	0.11
(1,2322)	1:59:A:LEU:HD21	1:69:A:PHE:HB3	7	0.11
(1,2322)	1:59:A:LEU:HD22	1:69:A:PHE:HB2	7	0.11
(1,2322)	1:59:A:LEU:HD22	1:69:A:PHE:HB3	7	0.11
(1,2322)	1:59:A:LEU:HD23	1:69:A:PHE:HB2	7	0.11
(1,2322)	1:59:A:LEU:HD23	1:69:A:PHE:HB3	7	0.11
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB2	2	0.11
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB3	2	0.11
(1,2287)	1:66:A:LEU:HD11	1:67:A:ALA:HA	18	0.11
(1,2287)	1:66:A:LEU:HD12	1:67:A:ALA:HA	18	0.11
(1,2287)	1:66:A:LEU:HD13	1:67:A:ALA:HA	18	0.11
(1,2287)	1:66:A:LEU:HD21	1:67:A:ALA:HA	18	0.11
(1,2287)	1:66:A:LEU:HD22	1:67:A:ALA:HA	18	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2287)	1:66:A:LEU:HD23	1:67:A:ALA:HA	18	0.11
(1,2280)	1:62:A:ASP:HA	1:66:A:LEU:HG	9	0.11
(1,2241)	1:58:A:THR:HG21	1:61:A:VAL:HB	2	0.11
(1,2241)	1:58:A:THR:HG22	1:61:A:VAL:HB	2	0.11
(1,2241)	1:58:A:THR:HG23	1:61:A:VAL:HB	2	0.11
(1,2240)	1:58:A:THR:HG21	1:61:A:VAL:HA	10	0.11
(1,2240)	1:58:A:THR:HG22	1:61:A:VAL:HA	10	0.11
(1,2240)	1:58:A:THR:HG23	1:61:A:VAL:HA	10	0.11
(1,2206)	1:47:A:VAL:HA	1:59:A:LEU:HB2	16	0.11
(1,2206)	1:47:A:VAL:HA	1:59:A:LEU:HB3	16	0.11
(1,2176)	1:50:A:ARG:HD2	1:54:A:SER:HA	4	0.11
(1,2176)	1:50:A:ARG:HD3	1:54:A:SER:HA	4	0.11
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG2	9	0.11
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG3	9	0.11
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG2	17	0.11
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG3	17	0.11
(1,2126)	1:46:A:SER:HB2	1:47:A:VAL:HG11	8	0.11
(1,2126)	1:46:A:SER:HB2	1:47:A:VAL:HG12	8	0.11
(1,2126)	1:46:A:SER:HB2	1:47:A:VAL:HG13	8	0.11
(1,2126)	1:46:A:SER:HB2	1:47:A:VAL:HG21	8	0.11
(1,2126)	1:46:A:SER:HB2	1:47:A:VAL:HG22	8	0.11
(1,2126)	1:46:A:SER:HB2	1:47:A:VAL:HG23	8	0.11
(1,2126)	1:46:A:SER:HB3	1:47:A:VAL:HG11	8	0.11
(1,2126)	1:46:A:SER:HB3	1:47:A:VAL:HG12	8	0.11
(1,2126)	1:46:A:SER:HB3	1:47:A:VAL:HG13	8	0.11
(1,2126)	1:46:A:SER:HB3	1:47:A:VAL:HG21	8	0.11
(1,2126)	1:46:A:SER:HB3	1:47:A:VAL:HG22	8	0.11
(1,2126)	1:46:A:SER:HB3	1:47:A:VAL:HG23	8	0.11
(1,2112)	1:41:A:GLN:HE21	1:45:A:SER:HA	3	0.11
(1,2112)	1:41:A:GLN:HE22	1:45:A:SER:HA	3	0.11
(1,2112)	1:41:A:GLN:HE21	1:45:A:SER:HA	9	0.11
(1,2112)	1:41:A:GLN:HE22	1:45:A:SER:HA	9	0.11
(1,2105)	1:41:A:GLN:HB2	1:44:A:ALA:HA	3	0.11
(1,2105)	1:41:A:GLN:HB3	1:44:A:ALA:HA	3	0.11
(1,2090)	1:39:A:VAL:HG11	1:43:A:ILE:HB	2	0.11
(1,2090)	1:39:A:VAL:HG12	1:43:A:ILE:HB	2	0.11
(1,2090)	1:39:A:VAL:HG13	1:43:A:ILE:HB	2	0.11
(1,2090)	1:39:A:VAL:HG21	1:43:A:ILE:HB	2	0.11
(1,2090)	1:39:A:VAL:HG22	1:43:A:ILE:HB	2	0.11
(1,2090)	1:39:A:VAL:HG23	1:43:A:ILE:HB	2	0.11
(1,2090)	1:39:A:VAL:HG11	1:43:A:ILE:HB	6	0.11
(1,2090)	1:39:A:VAL:HG12	1:43:A:ILE:HB	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2090)	1:39:A:VAL:HG13	1:43:A:ILE:HB	6	0.11
(1,2090)	1:39:A:VAL:HG21	1:43:A:ILE:HB	6	0.11
(1,2090)	1:39:A:VAL:HG22	1:43:A:ILE:HB	6	0.11
(1,2090)	1:39:A:VAL:HG23	1:43:A:ILE:HB	6	0.11
(1,2090)	1:39:A:VAL:HG11	1:43:A:ILE:HB	8	0.11
(1,2090)	1:39:A:VAL:HG12	1:43:A:ILE:HB	8	0.11
(1,2090)	1:39:A:VAL:HG13	1:43:A:ILE:HB	8	0.11
(1,2090)	1:39:A:VAL:HG21	1:43:A:ILE:HB	8	0.11
(1,2090)	1:39:A:VAL:HG22	1:43:A:ILE:HB	8	0.11
(1,2090)	1:39:A:VAL:HG23	1:43:A:ILE:HB	8	0.11
(1,2090)	1:39:A:VAL:HG11	1:43:A:ILE:HB	15	0.11
(1,2090)	1:39:A:VAL:HG12	1:43:A:ILE:HB	15	0.11
(1,2090)	1:39:A:VAL:HG13	1:43:A:ILE:HB	15	0.11
(1,2090)	1:39:A:VAL:HG21	1:43:A:ILE:HB	15	0.11
(1,2090)	1:39:A:VAL:HG22	1:43:A:ILE:HB	15	0.11
(1,2090)	1:39:A:VAL:HG23	1:43:A:ILE:HB	15	0.11
(1,2090)	1:39:A:VAL:HG11	1:43:A:ILE:HB	19	0.11
(1,2090)	1:39:A:VAL:HG12	1:43:A:ILE:HB	19	0.11
(1,2090)	1:39:A:VAL:HG13	1:43:A:ILE:HB	19	0.11
(1,2090)	1:39:A:VAL:HG21	1:43:A:ILE:HB	19	0.11
(1,2090)	1:39:A:VAL:HG22	1:43:A:ILE:HB	19	0.11
(1,2090)	1:39:A:VAL:HG23	1:43:A:ILE:HB	19	0.11
(1,2087)	1:39:A:VAL:HB	1:43:A:ILE:HG21	20	0.11
(1,2087)	1:39:A:VAL:HB	1:43:A:ILE:HG22	20	0.11
(1,2087)	1:39:A:VAL:HB	1:43:A:ILE:HG23	20	0.11
(1,2086)	1:40:A:SER:HB2	1:43:A:ILE:HG21	20	0.11
(1,2086)	1:40:A:SER:HB2	1:43:A:ILE:HG22	20	0.11
(1,2086)	1:40:A:SER:HB2	1:43:A:ILE:HG23	20	0.11
(1,2086)	1:40:A:SER:HB3	1:43:A:ILE:HG21	20	0.11
(1,2086)	1:40:A:SER:HB3	1:43:A:ILE:HG22	20	0.11
(1,2086)	1:40:A:SER:HB3	1:43:A:ILE:HG23	20	0.11
(1,1989)	1:33:A:THR:HB	1:34:A:VAL:H	9	0.11
(1,1957)	1:30:A:THR:HG21	1:31:A:LEU:H	7	0.11
(1,1957)	1:30:A:THR:HG22	1:31:A:LEU:H	7	0.11
(1,1957)	1:30:A:THR:HG23	1:31:A:LEU:H	7	0.11
(1,1957)	1:30:A:THR:HG21	1:31:A:LEU:H	10	0.11
(1,1957)	1:30:A:THR:HG22	1:31:A:LEU:H	10	0.11
(1,1957)	1:30:A:THR:HG23	1:31:A:LEU:H	10	0.11
(1,1957)	1:30:A:THR:HG21	1:31:A:LEU:H	17	0.11
(1,1957)	1:30:A:THR:HG22	1:31:A:LEU:H	17	0.11
(1,1957)	1:30:A:THR:HG23	1:31:A:LEU:H	17	0.11
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG11	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG12	9	0.11
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG13	9	0.11
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG21	9	0.11
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG22	9	0.11
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG23	9	0.11
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG11	13	0.11
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG12	13	0.11
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG13	13	0.11
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG21	13	0.11
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG22	13	0.11
(1,1895)	1:17:A:LEU:HG	1:21:A:VAL:HG23	13	0.11
(1,1868)	1:18:A:ILE:HB	1:19:A:SER:HB2	17	0.11
(1,1868)	1:18:A:ILE:HB	1:19:A:SER:HB3	17	0.11
(1,1833)	1:13:A:ALA:HA	1:16:A:GLY:HA2	14	0.11
(1,1833)	1:13:A:ALA:HA	1:16:A:GLY:HA3	14	0.11
(1,1823)	1:4:A:GLN:HA	1:7:A:PHE:HB2	7	0.11
(1,1823)	1:4:A:GLN:HA	1:7:A:PHE:HB3	7	0.11
(1,1803)	1:177:A:THR:H	1:175:A:PRO:HA	18	0.11
(1,1777)	1:165:A:SER:H	1:165:A:SER:HA	1	0.11
(1,1777)	1:165:A:SER:H	1:165:A:SER:HA	4	0.11
(1,1707)	1:149:A:THR:H	1:149:A:THR:HA	1	0.11
(1,1707)	1:149:A:THR:H	1:149:A:THR:HA	6	0.11
(1,1707)	1:149:A:THR:H	1:149:A:THR:HA	18	0.11
(1,1660)	1:131:A:VAL:HB	1:132:A:ASP:H	14	0.11
(1,1652)	1:131:A:VAL:H	1:131:A:VAL:HA	1	0.11
(1,1652)	1:131:A:VAL:H	1:131:A:VAL:HA	7	0.11
(1,1652)	1:131:A:VAL:H	1:131:A:VAL:HA	16	0.11
(1,1599)	1:10:A:THR:H	1:113:A:LEU:HB2	9	0.11
(1,1599)	1:10:A:THR:H	1:113:A:LEU:HB3	9	0.11
(1,1578)	1:105:A:ILE:HA	1:107:A:THR:H	5	0.11
(1,1578)	1:105:A:ILE:HA	1:107:A:THR:H	9	0.11
(1,1578)	1:105:A:ILE:HA	1:107:A:THR:H	16	0.11
(1,1354)	1:50:A:ARG:H	1:50:A:ARG:HD2	2	0.11
(1,1354)	1:50:A:ARG:H	1:50:A:ARG:HD3	2	0.11
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG2	9	0.11
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG3	9	0.11
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG2	17	0.11
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG3	17	0.11
(1,1281)	1:33:A:THR:HB	1:34:A:VAL:H	9	0.11
(1,1156)	1:34:A:VAL:H	1:34:A:VAL:HA	4	0.11
(1,1156)	1:34:A:VAL:H	1:34:A:VAL:HA	8	0.11
(1,1132)	1:135:A:SER:H	1:135:A:SER:HA	18	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1119)	1:97:A:ALA:H	1:96:A:ASN:HB3	20	0.11
(1,1112)	1:66:A:LEU:H	1:65:A:ASN:HB3	15	0.11
(1,1097)	1:66:A:LEU:H	1:63:A:GLY:HA2	7	0.11
(1,1087)	1:64:A:ASN:H	1:66:A:LEU:HA	12	0.11
(1,1052)	1:101:A:ASN:H	1:102:A:ALA:HB2	18	0.11
(1,1037)	1:173:A:SER:H	1:173:A:SER:HA	5	0.11
(1,1037)	1:173:A:SER:H	1:173:A:SER:HA	17	0.11
(1,1028)	1:71:A:VAL:H	1:66:A:LEU:HA	16	0.11
(1,1012)	1:146:A:PHE:H	1:146:A:PHE:HA	5	0.11
(1,1012)	1:146:A:PHE:H	1:146:A:PHE:HA	10	0.11
(1,1012)	1:146:A:PHE:H	1:146:A:PHE:HA	13	0.11
(1,1012)	1:146:A:PHE:H	1:146:A:PHE:HA	14	0.11
(1,1012)	1:146:A:PHE:H	1:146:A:PHE:HA	15	0.11
(1,1012)	1:146:A:PHE:H	1:146:A:PHE:HA	17	0.11
(1,1008)	1:40:A:SER:H	1:42:A:GLN:HB2	13	0.11
(1,1002)	1:92:A:SER:H	1:21:A:VAL:HB	20	0.11
(1,975)	1:60:A:GLY:HA3	1:62:A:ASP:H	7	0.11
(1,969)	1:141:A:SER:H	1:139:A:ASP:HB3	7	0.11
(1,957)	1:109:A:GLY:H	1:108:A:LEU:HB3	14	0.11
(1,953)	1:121:A:SER:H	1:119:A:GLY:HA2	11	0.11
(1,946)	1:196:A:GLY:H	1:197:A:PHE:HA	9	0.11
(1,933)	1:20:A:ARG:H	1:191:A:PRO:HG2	10	0.11
(1,933)	1:20:A:ARG:H	1:191:A:PRO:HG3	10	0.11
(1,923)	1:182:A:TYR:H	1:185:A:PRO:HD2	1	0.11
(1,923)	1:182:A:TYR:H	1:185:A:PRO:HD3	1	0.11
(1,917)	1:161:A:ALA:H	1:177:A:THR:HB	18	0.11
(1,913)	1:169:A:TYR:H	1:175:A:PRO:HD2	12	0.11
(1,913)	1:169:A:TYR:H	1:175:A:PRO:HD3	12	0.11
(1,913)	1:169:A:TYR:H	1:175:A:PRO:HD2	17	0.11
(1,913)	1:169:A:TYR:H	1:175:A:PRO:HD3	17	0.11
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG2	4	0.11
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG3	4	0.11
(1,885)	1:154:A:ALA:HA	1:156:A:TYR:H	19	0.11
(1,878)	1:153:A:SER:H	1:153:A:SER:HB2	19	0.11
(1,878)	1:153:A:SER:H	1:153:A:SER:HB3	19	0.11
(1,877)	1:147:A:LEU:H	1:150:A:SER:HB2	9	0.11
(1,877)	1:147:A:LEU:H	1:150:A:SER:HB3	9	0.11
(1,860)	1:28:A:THR:H	1:144:A:SER:HB2	3	0.11
(1,860)	1:28:A:THR:H	1:144:A:SER:HB3	3	0.11
(1,851)	1:137:A:GLN:HB2	1:141:A:SER:H	6	0.11
(1,851)	1:137:A:GLN:HB3	1:141:A:SER:H	6	0.11
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE21	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE22	3	0.11
(1,824)	1:37:A:THR:HG21	1:136:A:VAL:H	7	0.11
(1,824)	1:37:A:THR:HG22	1:136:A:VAL:H	7	0.11
(1,824)	1:37:A:THR:HG23	1:136:A:VAL:H	7	0.11
(1,824)	1:37:A:THR:HG21	1:136:A:VAL:H	15	0.11
(1,824)	1:37:A:THR:HG22	1:136:A:VAL:H	15	0.11
(1,824)	1:37:A:THR:HG23	1:136:A:VAL:H	15	0.11
(1,801)	1:131:A:VAL:HB	1:132:A:ASP:H	14	0.11
(1,788)	1:129:A:ILE:HB	1:130:A:ASN:H	5	0.11
(1,783)	1:50:A:ARG:HD2	1:129:A:ILE:H	11	0.11
(1,783)	1:50:A:ARG:HD3	1:129:A:ILE:H	11	0.11
(1,734)	1:118:A:ASN:HA	1:121:A:SER:H	7	0.11
(1,728)	1:116:A:LEU:H	1:120:A:VAL:H	3	0.11
(1,728)	1:116:A:LEU:H	1:120:A:VAL:H	12	0.11
(1,671)	1:10:A:THR:H	1:113:A:LEU:HB2	9	0.11
(1,671)	1:10:A:THR:H	1:113:A:LEU:HB3	9	0.11
(1,648)	1:108:A:LEU:HD11	1:110:A:SER:H	3	0.11
(1,648)	1:108:A:LEU:HD12	1:110:A:SER:H	3	0.11
(1,648)	1:108:A:LEU:HD13	1:110:A:SER:H	3	0.11
(1,648)	1:108:A:LEU:HD21	1:110:A:SER:H	3	0.11
(1,648)	1:108:A:LEU:HD22	1:110:A:SER:H	3	0.11
(1,648)	1:108:A:LEU:HD23	1:110:A:SER:H	3	0.11
(1,648)	1:108:A:LEU:HD11	1:110:A:SER:H	6	0.11
(1,648)	1:108:A:LEU:HD12	1:110:A:SER:H	6	0.11
(1,648)	1:108:A:LEU:HD13	1:110:A:SER:H	6	0.11
(1,648)	1:108:A:LEU:HD21	1:110:A:SER:H	6	0.11
(1,648)	1:108:A:LEU:HD22	1:110:A:SER:H	6	0.11
(1,648)	1:108:A:LEU:HD23	1:110:A:SER:H	6	0.11
(1,598)	1:96:A:ASN:HD21	1:104:A:ASN:HD21	9	0.11
(1,598)	1:96:A:ASN:HD21	1:104:A:ASN:HD22	9	0.11
(1,598)	1:96:A:ASN:HD22	1:104:A:ASN:HD21	9	0.11
(1,598)	1:96:A:ASN:HD22	1:104:A:ASN:HD22	9	0.11
(1,597)	1:21:A:VAL:HG11	1:104:A:ASN:HD21	11	0.11
(1,597)	1:21:A:VAL:HG11	1:104:A:ASN:HD22	11	0.11
(1,597)	1:21:A:VAL:HG12	1:104:A:ASN:HD21	11	0.11
(1,597)	1:21:A:VAL:HG12	1:104:A:ASN:HD22	11	0.11
(1,597)	1:21:A:VAL:HG13	1:104:A:ASN:HD21	11	0.11
(1,597)	1:21:A:VAL:HG13	1:104:A:ASN:HD22	11	0.11
(1,597)	1:21:A:VAL:HG21	1:104:A:ASN:HD21	11	0.11
(1,597)	1:21:A:VAL:HG21	1:104:A:ASN:HD22	11	0.11
(1,597)	1:21:A:VAL:HG22	1:104:A:ASN:HD21	11	0.11
(1,597)	1:21:A:VAL:HG22	1:104:A:ASN:HD22	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,597)	1:21:A:VAL:HG23	1:104:A:ASN:HD21	11	0.11
(1,597)	1:21:A:VAL:HG23	1:104:A:ASN:HD22	11	0.11
(1,588)	1:101:A:ASN:H	1:104:A:ASN:HD21	19	0.11
(1,588)	1:101:A:ASN:H	1:104:A:ASN:HD22	19	0.11
(1,524)	1:37:A:THR:H	1:95:A:PHE:HB2	5	0.11
(1,524)	1:37:A:THR:H	1:95:A:PHE:HB3	5	0.11
(1,455)	1:83:A:THR:HG21	1:84:A:SER:H	1	0.11
(1,455)	1:83:A:THR:HG22	1:84:A:SER:H	1	0.11
(1,455)	1:83:A:THR:HG23	1:84:A:SER:H	1	0.11
(1,455)	1:83:A:THR:HG21	1:84:A:SER:H	18	0.11
(1,455)	1:83:A:THR:HG22	1:84:A:SER:H	18	0.11
(1,455)	1:83:A:THR:HG23	1:84:A:SER:H	18	0.11
(1,352)	1:66:A:LEU:HG	1:67:A:ALA:H	19	0.11
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB2	10	0.11
(1,331)	1:62:A:ASP:H	1:64:A:ASN:HB3	10	0.11
(1,323)	1:61:A:VAL:HA	1:63:A:GLY:H	7	0.11
(1,295)	1:50:A:ARG:HB2	1:57:A:SER:H	7	0.11
(1,295)	1:50:A:ARG:HB3	1:57:A:SER:H	7	0.11
(1,276)	1:50:A:ARG:HB2	1:54:A:SER:H	17	0.11
(1,276)	1:50:A:ARG:HB3	1:54:A:SER:H	17	0.11
(1,268)	1:50:A:ARG:HG2	1:53:A:GLN:H	5	0.11
(1,268)	1:50:A:ARG:HG3	1:53:A:GLN:H	5	0.11
(1,258)	1:49:A:GLN:HB2	1:51:A:ALA:H	3	0.11
(1,258)	1:49:A:GLN:HB3	1:51:A:ALA:H	3	0.11
(1,203)	1:10:A:THR:H	1:42:A:GLN:HB2	4	0.11
(1,203)	1:10:A:THR:H	1:42:A:GLN:HB3	4	0.11
(1,192)	1:36:A:ARG:HG2	1:40:A:SER:H	3	0.11
(1,192)	1:36:A:ARG:HG3	1:40:A:SER:H	3	0.11
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	1	0.11
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	11	0.11
(1,106)	1:27:A:ASN:H	1:27:A:ASN:HD21	18	0.11
(1,106)	1:27:A:ASN:H	1:27:A:ASN:HD22	18	0.11
(1,43)	1:18:A:ILE:HG12	1:19:A:SER:H	1	0.11
(1,43)	1:18:A:ILE:HG13	1:19:A:SER:H	1	0.11
(1,6)	1:6:A:GLY:HA2	1:7:A:PHE:H	1	0.11
(1,6)	1:6:A:GLY:HA3	1:7:A:PHE:H	1	0.11
(1,6)	1:6:A:GLY:HA2	1:7:A:PHE:H	5	0.11
(1,6)	1:6:A:GLY:HA3	1:7:A:PHE:H	5	0.11
(1,3892)	1:37:A:THR:HG21	1:95:A:PHE:HE1	18	0.1
(1,3892)	1:37:A:THR:HG21	1:95:A:PHE:HE2	18	0.1
(1,3892)	1:37:A:THR:HG22	1:95:A:PHE:HE1	18	0.1
(1,3892)	1:37:A:THR:HG22	1:95:A:PHE:HE2	18	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3892)	1:37:A:THR:HG23	1:95:A:PHE:HE1	18	0.1
(1,3892)	1:37:A:THR:HG23	1:95:A:PHE:HE2	18	0.1
(1,3796)	1:124:A:ALA:HB1	1:120:A:VAL:HA	15	0.1
(1,3786)	1:15:A:ALA:H	1:16:A:GLY:HA3	9	0.1
(1,3786)	1:15:A:ALA:H	1:16:A:GLY:HA3	14	0.1
(1,3778)	1:129:A:ILE:HG23	1:130:A:ASN:HB3	6	0.1
(1,3683)	1:56:A:ALA:HB2	1:50:A:ARG:HA	18	0.1
(1,3543)	1:17:A:LEU:HD11	1:93:A:ALA:HA	18	0.1
(1,3480)	1:47:A:VAL:HG23	1:69:A:PHE:HB3	14	0.1
(1,3450)	1:93:A:ALA:HB1	1:92:A:SER:HB2	17	0.1
(1,3407)	1:113:A:LEU:HB3	1:9:A:ALA:HB2	9	0.1
(1,3401)	1:36:A:ARG:HB3	1:94:A:LEU:HD12	5	0.1
(1,3352)	1:61:A:VAL:HG22	1:58:A:THR:HB	2	0.1
(1,3352)	1:61:A:VAL:HG21	1:58:A:THR:HB	9	0.1
(1,3278)	1:101:A:ASN:H	1:105:A:ILE:HD12	13	0.1
(1,3278)	1:101:A:ASN:H	1:105:A:ILE:HD12	19	0.1
(1,3277)	1:89:A:ALA:HA	1:18:A:ILE:HD12	16	0.1
(1,3257)	1:75:A:SER:H	1:71:A:VAL:HG12	10	0.1
(1,3207)	1:194:A:GLN:HG2	1:197:A:PHE:HB2	19	0.1
(1,3207)	1:194:A:GLN:HG2	1:197:A:PHE:HB3	19	0.1
(1,3207)	1:194:A:GLN:HG3	1:197:A:PHE:HB2	19	0.1
(1,3207)	1:194:A:GLN:HG3	1:197:A:PHE:HB3	19	0.1
(1,3206)	1:194:A:GLN:HG2	1:197:A:PHE:HB2	19	0.1
(1,3206)	1:194:A:GLN:HG2	1:197:A:PHE:HB3	19	0.1
(1,3206)	1:194:A:GLN:HG3	1:197:A:PHE:HB2	19	0.1
(1,3206)	1:194:A:GLN:HG3	1:197:A:PHE:HB3	19	0.1
(1,3200)	1:99:A:VAL:HG11	1:194:A:GLN:HG2	17	0.1
(1,3200)	1:99:A:VAL:HG11	1:194:A:GLN:HG3	17	0.1
(1,3200)	1:99:A:VAL:HG12	1:194:A:GLN:HG2	17	0.1
(1,3200)	1:99:A:VAL:HG12	1:194:A:GLN:HG3	17	0.1
(1,3200)	1:99:A:VAL:HG13	1:194:A:GLN:HG2	17	0.1
(1,3200)	1:99:A:VAL:HG13	1:194:A:GLN:HG3	17	0.1
(1,3200)	1:99:A:VAL:HG21	1:194:A:GLN:HG2	17	0.1
(1,3200)	1:99:A:VAL:HG21	1:194:A:GLN:HG3	17	0.1
(1,3200)	1:99:A:VAL:HG22	1:194:A:GLN:HG2	17	0.1
(1,3200)	1:99:A:VAL:HG22	1:194:A:GLN:HG3	17	0.1
(1,3200)	1:99:A:VAL:HG23	1:194:A:GLN:HG2	17	0.1
(1,3200)	1:99:A:VAL:HG23	1:194:A:GLN:HG3	17	0.1
(1,3199)	1:99:A:VAL:HG11	1:194:A:GLN:HG2	17	0.1
(1,3199)	1:99:A:VAL:HG11	1:194:A:GLN:HG3	17	0.1
(1,3199)	1:99:A:VAL:HG12	1:194:A:GLN:HG2	17	0.1
(1,3199)	1:99:A:VAL:HG12	1:194:A:GLN:HG3	17	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3199)	1:99:A:VAL:HG13	1:194:A:GLN:HG2	17	0.1
(1,3199)	1:99:A:VAL:HG13	1:194:A:GLN:HG3	17	0.1
(1,3199)	1:99:A:VAL:HG21	1:194:A:GLN:HG2	17	0.1
(1,3199)	1:99:A:VAL:HG21	1:194:A:GLN:HG3	17	0.1
(1,3199)	1:99:A:VAL:HG22	1:194:A:GLN:HG2	17	0.1
(1,3199)	1:99:A:VAL:HG22	1:194:A:GLN:HG3	17	0.1
(1,3199)	1:99:A:VAL:HG23	1:194:A:GLN:HG2	17	0.1
(1,3199)	1:99:A:VAL:HG23	1:194:A:GLN:HG3	17	0.1
(1,3135)	1:170:A:THR:HB	1:175:A:PRO:HD2	13	0.1
(1,3135)	1:170:A:THR:HB	1:175:A:PRO:HD3	13	0.1
(1,3135)	1:170:A:THR:HB	1:175:A:PRO:HD2	19	0.1
(1,3135)	1:170:A:THR:HB	1:175:A:PRO:HD3	19	0.1
(1,3124)	1:31:A:LEU:HD11	1:172:A:PRO:HD2	17	0.1
(1,3124)	1:31:A:LEU:HD11	1:172:A:PRO:HD3	17	0.1
(1,3124)	1:31:A:LEU:HD12	1:172:A:PRO:HD2	17	0.1
(1,3124)	1:31:A:LEU:HD12	1:172:A:PRO:HD3	17	0.1
(1,3124)	1:31:A:LEU:HD13	1:172:A:PRO:HD2	17	0.1
(1,3124)	1:31:A:LEU:HD13	1:172:A:PRO:HD3	17	0.1
(1,3124)	1:31:A:LEU:HD21	1:172:A:PRO:HD2	17	0.1
(1,3124)	1:31:A:LEU:HD21	1:172:A:PRO:HD3	17	0.1
(1,3124)	1:31:A:LEU:HD22	1:172:A:PRO:HD2	17	0.1
(1,3124)	1:31:A:LEU:HD22	1:172:A:PRO:HD3	17	0.1
(1,3124)	1:31:A:LEU:HD23	1:172:A:PRO:HD2	17	0.1
(1,3124)	1:31:A:LEU:HD23	1:172:A:PRO:HD3	17	0.1
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG21	8	0.1
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG22	8	0.1
(1,3120)	1:167:A:ALA:HB1	1:170:A:THR:HG23	8	0.1
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG21	8	0.1
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG22	8	0.1
(1,3120)	1:167:A:ALA:HB2	1:170:A:THR:HG23	8	0.1
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG21	8	0.1
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG22	8	0.1
(1,3120)	1:167:A:ALA:HB3	1:170:A:THR:HG23	8	0.1
(1,3103)	1:157:A:SER:HB2	1:158:A:GLN:HG2	4	0.1
(1,3103)	1:157:A:SER:HB2	1:158:A:GLN:HG3	4	0.1
(1,3103)	1:157:A:SER:HB3	1:158:A:GLN:HG2	4	0.1
(1,3103)	1:157:A:SER:HB3	1:158:A:GLN:HG3	4	0.1
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB1	16	0.1
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB2	16	0.1
(1,3096)	1:148:A:SER:HA	1:154:A:ALA:HB3	16	0.1
(1,3087)	1:148:A:SER:HB2	1:149:A:THR:HB	20	0.1
(1,3087)	1:148:A:SER:HB3	1:149:A:THR:HB	20	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3005)	1:37:A:THR:HG21	1:136:A:VAL:HA	1	0.1
(1,3005)	1:37:A:THR:HG22	1:136:A:VAL:HA	1	0.1
(1,3005)	1:37:A:THR:HG23	1:136:A:VAL:HA	1	0.1
(1,3005)	1:37:A:THR:HG21	1:136:A:VAL:HA	13	0.1
(1,3005)	1:37:A:THR:HG22	1:136:A:VAL:HA	13	0.1
(1,3005)	1:37:A:THR:HG23	1:136:A:VAL:HA	13	0.1
(1,3003)	1:131:A:VAL:HG11	1:136:A:VAL:HB	14	0.1
(1,3003)	1:131:A:VAL:HG12	1:136:A:VAL:HB	14	0.1
(1,3003)	1:131:A:VAL:HG13	1:136:A:VAL:HB	14	0.1
(1,3003)	1:131:A:VAL:HG21	1:136:A:VAL:HB	14	0.1
(1,3003)	1:131:A:VAL:HG22	1:136:A:VAL:HB	14	0.1
(1,3003)	1:131:A:VAL:HG23	1:136:A:VAL:HB	14	0.1
(1,2981)	1:71:A:VAL:HB	1:134:A:GLY:HA2	9	0.1
(1,2981)	1:71:A:VAL:HB	1:134:A:GLY:HA3	9	0.1
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB2	1	0.1
(1,2979)	1:136:A:VAL:HG11	1:133:A:SER:HB3	1	0.1
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB2	1	0.1
(1,2979)	1:136:A:VAL:HG12	1:133:A:SER:HB3	1	0.1
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB2	1	0.1
(1,2979)	1:136:A:VAL:HG13	1:133:A:SER:HB3	1	0.1
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB2	1	0.1
(1,2979)	1:136:A:VAL:HG21	1:133:A:SER:HB3	1	0.1
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB2	1	0.1
(1,2979)	1:136:A:VAL:HG22	1:133:A:SER:HB3	1	0.1
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB2	1	0.1
(1,2979)	1:136:A:VAL:HG23	1:133:A:SER:HB3	1	0.1
(1,2864)	1:117:A:LEU:HG	1:120:A:VAL:HB	13	0.1
(1,2835)	1:110:A:SER:HA	1:117:A:LEU:HA	16	0.1
(1,2783)	1:7:A:PHE:HA	1:114:A:SER:HB2	6	0.1
(1,2783)	1:7:A:PHE:HA	1:114:A:SER:HB3	6	0.1
(1,2693)	1:104:A:ASN:HB2	1:105:A:ILE:HD11	20	0.1
(1,2693)	1:104:A:ASN:HB2	1:105:A:ILE:HD12	20	0.1
(1,2693)	1:104:A:ASN:HB2	1:105:A:ILE:HD13	20	0.1
(1,2693)	1:104:A:ASN:HB3	1:105:A:ILE:HD11	20	0.1
(1,2693)	1:104:A:ASN:HB3	1:105:A:ILE:HD12	20	0.1
(1,2693)	1:104:A:ASN:HB3	1:105:A:ILE:HD13	20	0.1
(1,2671)	1:103:A:SER:H	1:104:A:ASN:HB2	11	0.1
(1,2671)	1:103:A:SER:H	1:104:A:ASN:HB3	11	0.1
(1,2670)	1:103:A:SER:H	1:104:A:ASN:HA	19	0.1
(1,2669)	1:103:A:SER:H	1:104:A:ASN:HB2	11	0.1
(1,2669)	1:103:A:SER:H	1:104:A:ASN:HB3	11	0.1
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	20	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	20	0.1
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	20	0.1
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	20	0.1
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	20	0.1
(1,2647)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	20	0.1
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	20	0.1
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	20	0.1
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	20	0.1
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	20	0.1
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	20	0.1
(1,2647)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	20	0.1
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	20	0.1
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	20	0.1
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	20	0.1
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	20	0.1
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	20	0.1
(1,2647)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	20	0.1
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	20	0.1
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	20	0.1
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	20	0.1
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	20	0.1
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	20	0.1
(1,2647)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	20	0.1
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	20	0.1
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	20	0.1
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	20	0.1
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	20	0.1
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	20	0.1
(1,2647)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	20	0.1
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	20	0.1
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	20	0.1
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	20	0.1
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	20	0.1
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	20	0.1
(1,2647)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	20	0.1
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD11	20	0.1
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD12	20	0.1
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD13	20	0.1
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD21	20	0.1
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD22	20	0.1
(1,2646)	1:21:A:VAL:HG11	1:100:A:LEU:HD23	20	0.1
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD11	20	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD12	20	0.1
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD13	20	0.1
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD21	20	0.1
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD22	20	0.1
(1,2646)	1:21:A:VAL:HG12	1:100:A:LEU:HD23	20	0.1
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD11	20	0.1
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD12	20	0.1
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD13	20	0.1
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD21	20	0.1
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD22	20	0.1
(1,2646)	1:21:A:VAL:HG13	1:100:A:LEU:HD23	20	0.1
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD11	20	0.1
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD12	20	0.1
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD13	20	0.1
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD21	20	0.1
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD22	20	0.1
(1,2646)	1:21:A:VAL:HG21	1:100:A:LEU:HD23	20	0.1
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD11	20	0.1
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD12	20	0.1
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD13	20	0.1
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD21	20	0.1
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD22	20	0.1
(1,2646)	1:21:A:VAL:HG22	1:100:A:LEU:HD23	20	0.1
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD11	20	0.1
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD12	20	0.1
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD13	20	0.1
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD21	20	0.1
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD22	20	0.1
(1,2646)	1:21:A:VAL:HG23	1:100:A:LEU:HD23	20	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG11	2	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG12	2	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG13	2	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG21	2	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG22	2	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG23	2	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG11	3	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG12	3	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG13	3	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG21	3	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG22	3	0.1
(1,2621)	1:98:A:GLY:H	1:99:A:VAL:HG23	3	0.1
(1,2607)	1:96:A:ASN:HB2	1:97:A:ALA:HB1	9	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2607)	1:96:A:ASN:HB2	1:97:A:ALA:HB2	9	0.1
(1,2607)	1:96:A:ASN:HB2	1:97:A:ALA:HB3	9	0.1
(1,2607)	1:96:A:ASN:HB3	1:97:A:ALA:HB1	9	0.1
(1,2607)	1:96:A:ASN:HB3	1:97:A:ALA:HB2	9	0.1
(1,2607)	1:96:A:ASN:HB3	1:97:A:ALA:HB3	9	0.1
(1,2607)	1:96:A:ASN:HB2	1:97:A:ALA:HB1	15	0.1
(1,2607)	1:96:A:ASN:HB2	1:97:A:ALA:HB2	15	0.1
(1,2607)	1:96:A:ASN:HB2	1:97:A:ALA:HB3	15	0.1
(1,2607)	1:96:A:ASN:HB3	1:97:A:ALA:HB1	15	0.1
(1,2607)	1:96:A:ASN:HB3	1:97:A:ALA:HB2	15	0.1
(1,2607)	1:96:A:ASN:HB3	1:97:A:ALA:HB3	15	0.1
(1,2601)	1:22:A:ALA:HB1	1:96:A:ASN:HA	3	0.1
(1,2601)	1:22:A:ALA:HB2	1:96:A:ASN:HA	3	0.1
(1,2601)	1:22:A:ALA:HB3	1:96:A:ASN:HA	3	0.1
(1,2600)	1:93:A:ALA:HB1	1:96:A:ASN:HB2	14	0.1
(1,2600)	1:93:A:ALA:HB1	1:96:A:ASN:HB3	14	0.1
(1,2600)	1:93:A:ALA:HB2	1:96:A:ASN:HB2	14	0.1
(1,2600)	1:93:A:ALA:HB2	1:96:A:ASN:HB3	14	0.1
(1,2600)	1:93:A:ALA:HB3	1:96:A:ASN:HB2	14	0.1
(1,2600)	1:93:A:ALA:HB3	1:96:A:ASN:HB3	14	0.1
(1,2591)	1:23:A:ASN:HD21	1:95:A:PHE:HD1	16	0.1
(1,2591)	1:23:A:ASN:HD21	1:95:A:PHE:HD2	16	0.1
(1,2591)	1:23:A:ASN:HD22	1:95:A:PHE:HD1	16	0.1
(1,2591)	1:23:A:ASN:HD22	1:95:A:PHE:HD2	16	0.1
(1,2542)	1:31:A:LEU:HD11	1:91:A:SER:HB2	14	0.1
(1,2542)	1:31:A:LEU:HD11	1:91:A:SER:HB3	14	0.1
(1,2542)	1:31:A:LEU:HD12	1:91:A:SER:HB2	14	0.1
(1,2542)	1:31:A:LEU:HD12	1:91:A:SER:HB3	14	0.1
(1,2542)	1:31:A:LEU:HD13	1:91:A:SER:HB2	14	0.1
(1,2542)	1:31:A:LEU:HD13	1:91:A:SER:HB3	14	0.1
(1,2542)	1:31:A:LEU:HD21	1:91:A:SER:HB2	14	0.1
(1,2542)	1:31:A:LEU:HD21	1:91:A:SER:HB3	14	0.1
(1,2542)	1:31:A:LEU:HD22	1:91:A:SER:HB2	14	0.1
(1,2542)	1:31:A:LEU:HD22	1:91:A:SER:HB3	14	0.1
(1,2542)	1:31:A:LEU:HD23	1:91:A:SER:HB2	14	0.1
(1,2542)	1:31:A:LEU:HD23	1:91:A:SER:HB3	14	0.1
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD11	6	0.1
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD12	6	0.1
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD13	6	0.1
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD21	6	0.1
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD22	6	0.1
(1,2416)	1:76:A:ARG:HD2	1:77:A:LEU:HD23	6	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD11	6	0.1
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD12	6	0.1
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD13	6	0.1
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD21	6	0.1
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD22	6	0.1
(1,2416)	1:76:A:ARG:HD3	1:77:A:LEU:HD23	6	0.1
(1,2387)	1:75:A:SER:H	1:75:A:SER:HA	9	0.1
(1,2322)	1:59:A:LEU:HD11	1:69:A:PHE:HB2	17	0.1
(1,2322)	1:59:A:LEU:HD11	1:69:A:PHE:HB3	17	0.1
(1,2322)	1:59:A:LEU:HD12	1:69:A:PHE:HB2	17	0.1
(1,2322)	1:59:A:LEU:HD12	1:69:A:PHE:HB3	17	0.1
(1,2322)	1:59:A:LEU:HD13	1:69:A:PHE:HB2	17	0.1
(1,2322)	1:59:A:LEU:HD13	1:69:A:PHE:HB3	17	0.1
(1,2322)	1:59:A:LEU:HD21	1:69:A:PHE:HB2	17	0.1
(1,2322)	1:59:A:LEU:HD21	1:69:A:PHE:HB3	17	0.1
(1,2322)	1:59:A:LEU:HD22	1:69:A:PHE:HB2	17	0.1
(1,2322)	1:59:A:LEU:HD22	1:69:A:PHE:HB3	17	0.1
(1,2322)	1:59:A:LEU:HD23	1:69:A:PHE:HB2	17	0.1
(1,2322)	1:59:A:LEU:HD23	1:69:A:PHE:HB3	17	0.1
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB2	12	0.1
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB3	12	0.1
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB2	15	0.1
(1,2320)	1:65:A:ASN:H	1:69:A:PHE:HB3	15	0.1
(1,2280)	1:62:A:ASP:HA	1:66:A:LEU:HG	14	0.1
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD21	3	0.1
(1,2263)	1:60:A:GLY:HA2	1:64:A:ASN:HD22	3	0.1
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD21	3	0.1
(1,2263)	1:60:A:GLY:HA3	1:64:A:ASN:HD22	3	0.1
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG21	8	0.1
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG22	8	0.1
(1,2219)	1:47:A:VAL:HG11	1:58:A:THR:HG23	8	0.1
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG21	8	0.1
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG22	8	0.1
(1,2219)	1:47:A:VAL:HG12	1:58:A:THR:HG23	8	0.1
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG21	8	0.1
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG22	8	0.1
(1,2219)	1:47:A:VAL:HG13	1:58:A:THR:HG23	8	0.1
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG21	8	0.1
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG22	8	0.1
(1,2219)	1:47:A:VAL:HG21	1:58:A:THR:HG23	8	0.1
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG21	8	0.1
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG22	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2219)	1:47:A:VAL:HG22	1:58:A:THR:HG23	8	0.1
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG21	8	0.1
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG22	8	0.1
(1,2219)	1:47:A:VAL:HG23	1:58:A:THR:HG23	8	0.1
(1,2210)	1:54:A:SER:HA	1:57:A:SER:HB2	15	0.1
(1,2210)	1:54:A:SER:HA	1:57:A:SER:HB3	15	0.1
(1,2206)	1:47:A:VAL:HA	1:59:A:LEU:HB2	17	0.1
(1,2206)	1:47:A:VAL:HA	1:59:A:LEU:HB3	17	0.1
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG2	2	0.1
(1,2147)	1:50:A:ARG:H	1:50:A:ARG:HG3	2	0.1
(1,2090)	1:39:A:VAL:HG11	1:43:A:ILE:HB	16	0.1
(1,2090)	1:39:A:VAL:HG12	1:43:A:ILE:HB	16	0.1
(1,2090)	1:39:A:VAL:HG13	1:43:A:ILE:HB	16	0.1
(1,2090)	1:39:A:VAL:HG21	1:43:A:ILE:HB	16	0.1
(1,2090)	1:39:A:VAL:HG22	1:43:A:ILE:HB	16	0.1
(1,2090)	1:39:A:VAL:HG23	1:43:A:ILE:HB	16	0.1
(1,2090)	1:39:A:VAL:HG11	1:43:A:ILE:HB	18	0.1
(1,2090)	1:39:A:VAL:HG12	1:43:A:ILE:HB	18	0.1
(1,2090)	1:39:A:VAL:HG13	1:43:A:ILE:HB	18	0.1
(1,2090)	1:39:A:VAL:HG21	1:43:A:ILE:HB	18	0.1
(1,2090)	1:39:A:VAL:HG22	1:43:A:ILE:HB	18	0.1
(1,2090)	1:39:A:VAL:HG23	1:43:A:ILE:HB	18	0.1
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG21	8	0.1
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG22	8	0.1
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG23	8	0.1
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG21	8	0.1
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG22	8	0.1
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG23	8	0.1
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG21	8	0.1
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG22	8	0.1
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG23	8	0.1
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG21	8	0.1
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG22	8	0.1
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG23	8	0.1
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG21	8	0.1
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG22	8	0.1
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG23	8	0.1
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG21	8	0.1
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG22	8	0.1
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG23	8	0.1
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG21	13	0.1
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG22	13	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2017)	1:35:A:LEU:HD11	1:37:A:THR:HG23	13	0.1
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG21	13	0.1
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG22	13	0.1
(1,2017)	1:35:A:LEU:HD12	1:37:A:THR:HG23	13	0.1
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG21	13	0.1
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG22	13	0.1
(1,2017)	1:35:A:LEU:HD13	1:37:A:THR:HG23	13	0.1
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG21	13	0.1
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG22	13	0.1
(1,2017)	1:35:A:LEU:HD21	1:37:A:THR:HG23	13	0.1
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG21	13	0.1
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG22	13	0.1
(1,2017)	1:35:A:LEU:HD22	1:37:A:THR:HG23	13	0.1
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG21	13	0.1
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG22	13	0.1
(1,2017)	1:35:A:LEU:HD23	1:37:A:THR:HG23	13	0.1
(1,1989)	1:33:A:THR:HB	1:34:A:VAL:H	16	0.1
(1,1976)	1:32:A:ARG:HG2	1:33:A:THR:HA	4	0.1
(1,1976)	1:32:A:ARG:HG3	1:33:A:THR:HA	4	0.1
(1,1904)	1:20:A:ARG:HA	1:24:A:ALA:HA	7	0.1
(1,1807)	1:150:A:SER:H	1:150:A:SER:HA	6	0.1
(1,1736)	1:176:A:SER:HA	1:177:A:THR:H	8	0.1
(1,1652)	1:131:A:VAL:H	1:131:A:VAL:HA	9	0.1
(1,1551)	1:99:A:VAL:HB	1:100:A:LEU:H	4	0.1
(1,1411)	1:62:A:ASP:HA	1:63:A:GLY:H	10	0.1
(1,1403)	1:53:A:GLN:HE21	1:61:A:VAL:HB	10	0.1
(1,1403)	1:53:A:GLN:HE22	1:61:A:VAL:HB	10	0.1
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG2	2	0.1
(1,1352)	1:50:A:ARG:H	1:50:A:ARG:HG3	2	0.1
(1,1281)	1:33:A:THR:HB	1:34:A:VAL:H	16	0.1
(1,1257)	1:27:A:ASN:H	1:27:A:ASN:HB2	10	0.1
(1,1257)	1:27:A:ASN:H	1:27:A:ASN:HB3	10	0.1
(1,1181)	1:56:A:ALA:H	1:58:A:THR:HG21	8	0.1
(1,1169)	1:42:A:GLN:HE21	1:42:A:GLN:HA	2	0.1
(1,1166)	1:97:A:ALA:H	1:97:A:ALA:HA	4	0.1
(1,1163)	1:111:A:ARG:H	1:112:A:VAL:HG22	1	0.1
(1,1156)	1:34:A:VAL:H	1:34:A:VAL:HA	15	0.1
(1,1154)	1:106:A:ASP:H	1:105:A:ILE:HG13	10	0.1
(1,1143)	1:127:A:LEU:H	1:123:A:ALA:HB2	3	0.1
(1,1037)	1:173:A:SER:H	1:173:A:SER:HA	7	0.1
(1,1037)	1:173:A:SER:H	1:173:A:SER:HA	19	0.1
(1,1030)	1:65:A:ASN:H	1:65:A:ASN:HA	13	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1030)	1:65:A:ASN:H	1:65:A:ASN:HA	20	0.1
(1,1012)	1:146:A:PHE:H	1:146:A:PHE:HA	1	0.1
(1,1012)	1:146:A:PHE:H	1:146:A:PHE:HA	6	0.1
(1,1012)	1:146:A:PHE:H	1:146:A:PHE:HA	8	0.1
(1,1012)	1:146:A:PHE:H	1:146:A:PHE:HA	12	0.1
(1,1012)	1:146:A:PHE:H	1:146:A:PHE:HA	18	0.1
(1,1008)	1:40:A:SER:H	1:42:A:GLN:HB2	20	0.1
(1,989)	1:110:A:SER:H	1:117:A:LEU:HG	19	0.1
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG2	11	0.1
(1,911)	1:20:A:ARG:HE	1:172:A:PRO:HG3	11	0.1
(1,897)	1:156:A:TYR:HA	1:160:A:SER:H	10	0.1
(1,851)	1:137:A:GLN:HB2	1:141:A:SER:H	12	0.1
(1,851)	1:137:A:GLN:HB3	1:141:A:SER:H	12	0.1
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE21	5	0.1
(1,832)	1:136:A:VAL:H	1:137:A:GLN:HE22	5	0.1
(1,788)	1:129:A:ILE:HB	1:130:A:ASN:H	11	0.1
(1,682)	1:42:A:GLN:HE21	1:115:A:ALA:HB1	6	0.1
(1,682)	1:42:A:GLN:HE21	1:115:A:ALA:HB2	6	0.1
(1,682)	1:42:A:GLN:HE21	1:115:A:ALA:HB3	6	0.1
(1,682)	1:42:A:GLN:HE22	1:115:A:ALA:HB1	6	0.1
(1,682)	1:42:A:GLN:HE22	1:115:A:ALA:HB2	6	0.1
(1,682)	1:42:A:GLN:HE22	1:115:A:ALA:HB3	6	0.1
(1,681)	1:42:A:GLN:HE21	1:115:A:ALA:HB1	6	0.1
(1,681)	1:42:A:GLN:HE21	1:115:A:ALA:HB2	6	0.1
(1,681)	1:42:A:GLN:HE21	1:115:A:ALA:HB3	6	0.1
(1,681)	1:42:A:GLN:HE22	1:115:A:ALA:HB1	6	0.1
(1,681)	1:42:A:GLN:HE22	1:115:A:ALA:HB2	6	0.1
(1,681)	1:42:A:GLN:HE22	1:115:A:ALA:HB3	6	0.1
(1,633)	1:14:A:SER:H	1:108:A:LEU:HB2	9	0.1
(1,633)	1:14:A:SER:H	1:108:A:LEU:HB3	9	0.1
(1,609)	1:101:A:ASN:H	1:105:A:ILE:H	20	0.1
(1,580)	1:104:A:ASN:HB2	1:103:A:SER:H	11	0.1
(1,580)	1:104:A:ASN:HB3	1:103:A:SER:H	11	0.1
(1,559)	1:99:A:VAL:HB	1:100:A:LEU:H	4	0.1
(1,531)	1:95:A:PHE:HD1	1:96:A:ASN:H	12	0.1
(1,531)	1:95:A:PHE:HD2	1:96:A:ASN:H	12	0.1
(1,474)	1:88:A:GLN:H	1:88:A:GLN:HA	16	0.1
(1,388)	1:70:A:ALA:H	1:72:A:GLN:H	9	0.1
(1,340)	1:60:A:GLY:H	1:65:A:ASN:HD21	10	0.1
(1,340)	1:60:A:GLY:H	1:65:A:ASN:HD22	10	0.1
(1,332)	1:61:A:VAL:HA	1:64:A:ASN:H	7	0.1
(1,320)	1:62:A:ASP:HA	1:63:A:GLY:H	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,315)	1:53:A:GLN:HE21	1:61:A:VAL:HB	10	0.1
(1,315)	1:53:A:GLN:HE22	1:61:A:VAL:HB	10	0.1
(1,295)	1:50:A:ARG:HB2	1:57:A:SER:H	10	0.1
(1,295)	1:50:A:ARG:HB3	1:57:A:SER:H	10	0.1
(1,291)	1:55:A:LEU:HD11	1:57:A:SER:H	10	0.1
(1,291)	1:55:A:LEU:HD12	1:57:A:SER:H	10	0.1
(1,291)	1:55:A:LEU:HD13	1:57:A:SER:H	10	0.1
(1,291)	1:55:A:LEU:HD21	1:57:A:SER:H	10	0.1
(1,291)	1:55:A:LEU:HD22	1:57:A:SER:H	10	0.1
(1,291)	1:55:A:LEU:HD23	1:57:A:SER:H	10	0.1
(1,276)	1:50:A:ARG:HB2	1:54:A:SER:H	2	0.1
(1,276)	1:50:A:ARG:HB3	1:54:A:SER:H	2	0.1
(1,276)	1:50:A:ARG:HB2	1:54:A:SER:H	19	0.1
(1,276)	1:50:A:ARG:HB3	1:54:A:SER:H	19	0.1
(1,257)	1:50:A:ARG:H	1:51:A:ALA:H	5	0.1
(1,257)	1:50:A:ARG:H	1:51:A:ALA:H	20	0.1
(1,256)	1:50:A:ARG:H	1:51:A:ALA:H	5	0.1
(1,256)	1:50:A:ARG:H	1:51:A:ALA:H	20	0.1
(1,192)	1:36:A:ARG:HG2	1:40:A:SER:H	2	0.1
(1,192)	1:36:A:ARG:HG3	1:40:A:SER:H	2	0.1
(1,184)	1:37:A:THR:H	1:39:A:VAL:H	18	0.1
(1,101)	1:27:A:ASN:H	1:27:A:ASN:HB2	10	0.1
(1,101)	1:27:A:ASN:H	1:27:A:ASN:HB3	10	0.1
(1,69)	1:21:A:VAL:HG11	1:22:A:ALA:H	18	0.1
(1,69)	1:21:A:VAL:HG12	1:22:A:ALA:H	18	0.1
(1,69)	1:21:A:VAL:HG13	1:22:A:ALA:H	18	0.1
(1,69)	1:21:A:VAL:HG21	1:22:A:ALA:H	18	0.1
(1,69)	1:21:A:VAL:HG22	1:22:A:ALA:H	18	0.1
(1,69)	1:21:A:VAL:HG23	1:22:A:ALA:H	18	0.1
(1,23)	1:11:A:GLY:HA2	1:14:A:SER:H	3	0.1
(1,23)	1:11:A:GLY:HA3	1:14:A:SER:H	3	0.1
(1,6)	1:6:A:GLY:HA2	1:7:A:PHE:H	8	0.1
(1,6)	1:6:A:GLY:HA3	1:7:A:PHE:H	8	0.1

10 Dihedral-angle violation analysis

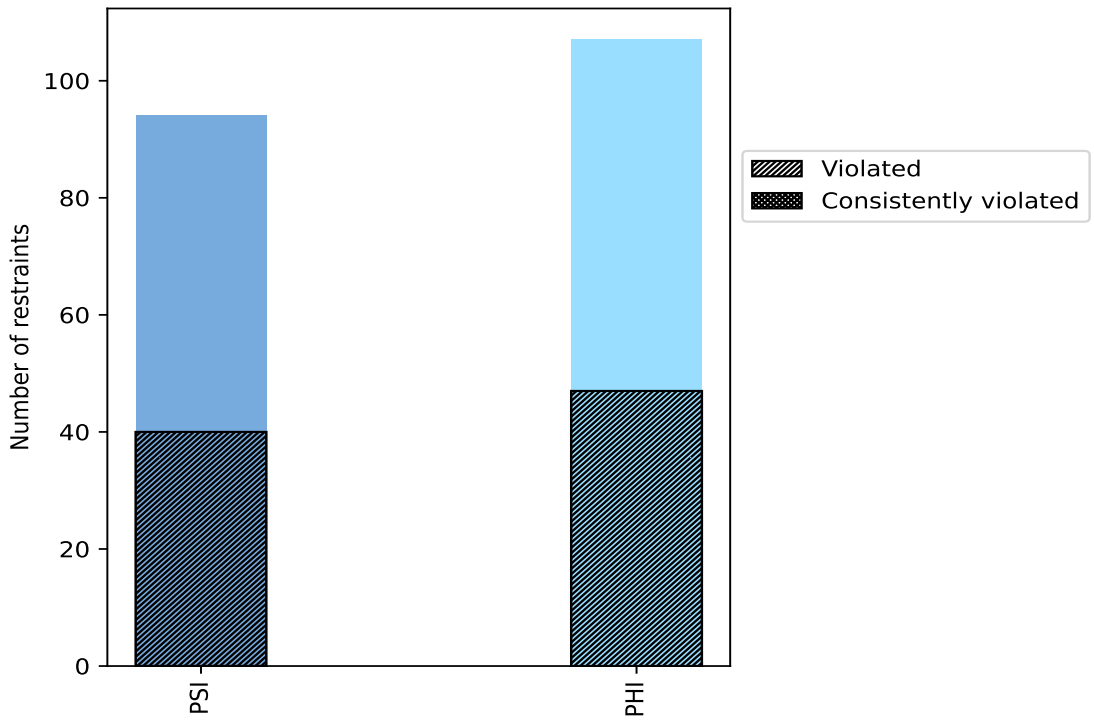
10.1 Summary of dihedral-angle violations

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]
PSI	94	46.8	40	42.6	19.9	0	0.0	0.0
PHI	107	53.2	47	43.9	23.4	0	0.0	0.0
Total	201	100.0	87	43.3	43.3	0	0.0	0.0

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

10.1.1 Bar chart : Distribution of dihedral-angles and violations



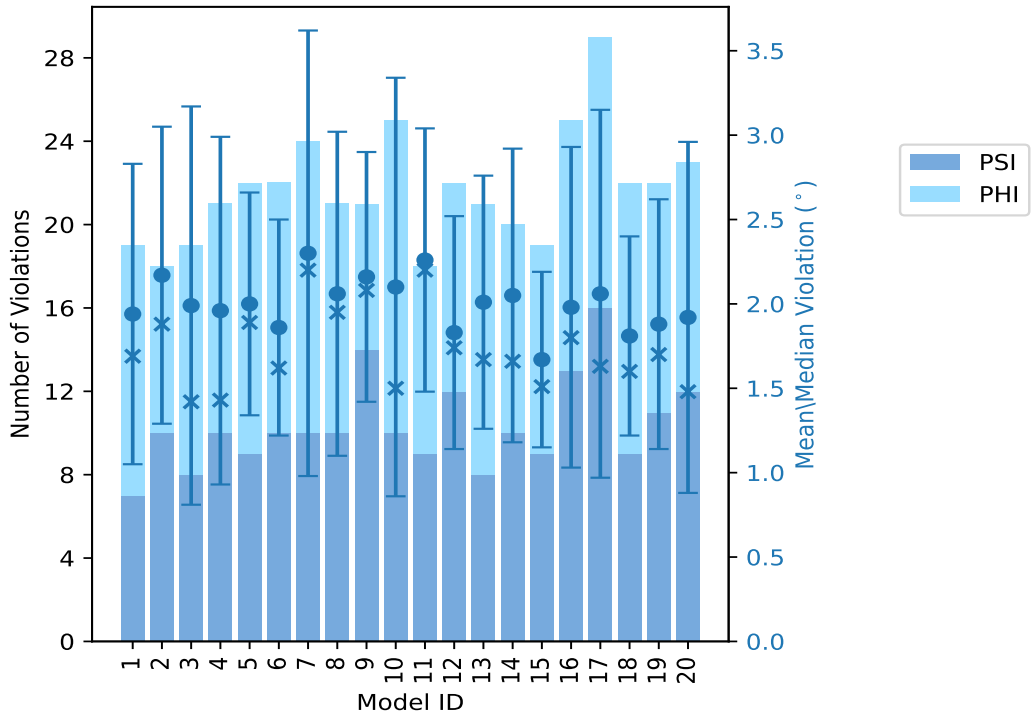
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
1	7	12	19	1.94	4.68	0.89	1.69
2	10	8	18	2.17	4.23	0.88	1.88
3	8	11	19	1.99	4.63	1.18	1.42
4	10	11	21	1.96	4.16	1.03	1.43
5	9	13	22	2.0	3.43	0.66	1.89
6	10	12	22	1.86	3.03	0.64	1.62
7	10	14	24	2.3	7.81	1.32	2.2
8	10	11	21	2.06	4.54	0.96	1.95
9	14	7	21	2.16	3.78	0.74	2.08
10	10	15	25	2.1	6.24	1.24	1.5
11	9	9	18	2.26	3.96	0.78	2.2
12	12	10	22	1.83	3.85	0.69	1.74
13	8	13	21	2.01	3.74	0.75	1.67
14	10	10	20	2.05	3.47	0.87	1.66
15	9	10	19	1.67	2.99	0.52	1.51
16	13	12	25	1.98	5.72	0.95	1.8
17	16	13	29	2.06	5.05	1.09	1.63
18	9	13	22	1.81	3.2	0.59	1.6
19	11	11	22	1.88	3.42	0.74	1.7
20	12	11	23	1.92	5.55	1.04	1.48

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	
PSI	PHI	Total	Count[1]	%
9	16	25	1	5.0
2	12	14	2	10.0
7	0	7	3	15.0
3	1	4	4	20.0
5	3	8	5	25.0
3	2	5	6	30.0
2	2	4	7	35.0
2	0	2	8	40.0
0	0	0	9	45.0
3	1	4	10	50.0
1	2	3	11	55.0

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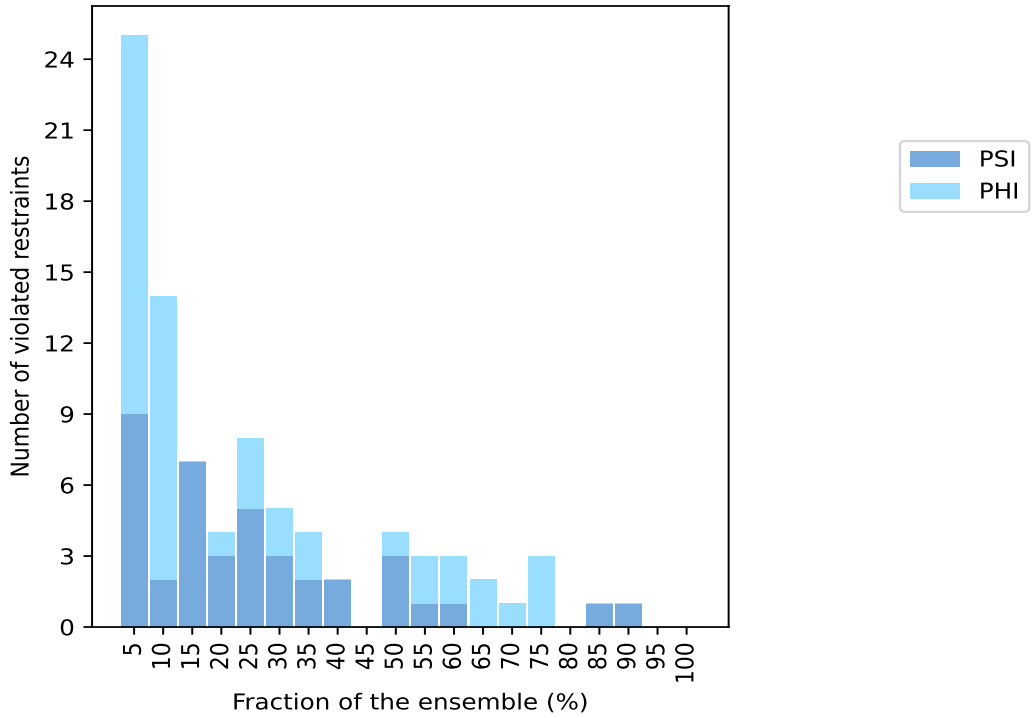
Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count[1]	%
1	2	3	12	60.0
0	2	2	13	65.0
0	1	1	14	70.0
0	3	3	15	75.0
0	0	0	16	80.0
1	0	1	17	85.0
1	0	1	18	90.0
0	0	0	19	95.0
0	0	0	20	100.0

[1] Number of models with violations

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

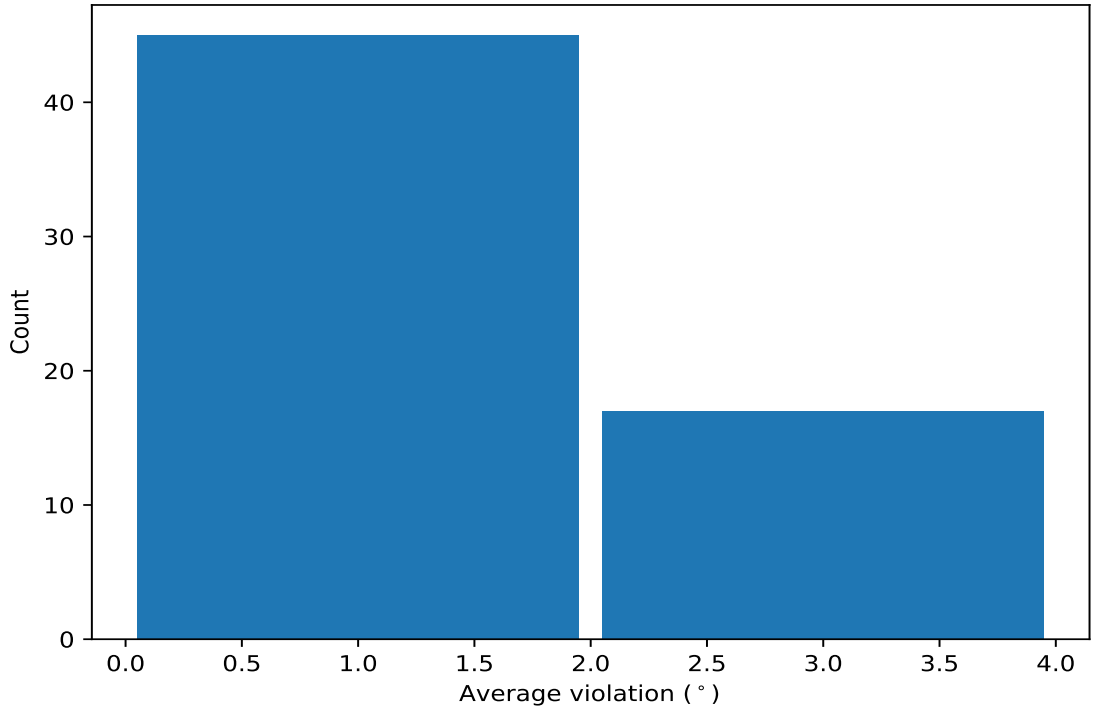


10.4 Most violated dihedral-angle restraints in the ensemble

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
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	18	3.01	1.44	2.94
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	17	2.77	0.9	2.57
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	15	2.43	1.1	2.36
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	15	2.18	1.08	1.88
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	15	1.96	0.43	1.82
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	14	1.9	0.6	1.78
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	13	2.29	0.56	2.34
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	13	2.02	0.82	2.11
(1,191)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:SER:N	12	3.25	1.41	2.96
(1,66)	1:64:A:ASN:C	1:65:A:ASN:N	1:65:A:ASN:CA	1:65:A:ASN:C	12	1.95	0.75	1.58
(1,112)	1:93:A:ALA:C	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	12	1.62	0.69	1.4
(1,45)	1:45:A:SER:N	1:45:A:SER:CA	1:45:A:SER:C	1:46:A:SER:N	11	2.29	0.39	2.3
(1,42)	1:42:A:GLN:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	11	2.2	0.81	2.07
(1,59)	1:58:A:THR:C	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	11	1.75	0.54	1.42
(1,22)	1:27:A:ASN:N	1:27:A:ASN:CA	1:27:A:ASN:C	1:28:A:THR:N	10	1.96	0.94	1.51
(1,172)	1:134:A:GLY:C	1:135:A:SER:N	1:135:A:SER:CA	1:135:A:SER:C	10	1.95	1.13	1.5
(1,10)	1:19:A:SER:N	1:19:A:SER:CA	1:19:A:SER:C	1:20:A:ARG:N	10	1.56	0.5	1.42
(1,39)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLN:N	10	1.46	0.29	1.44
(1,201)	1:183:A:PRO:N	1:183:A:PRO:CA	1:183:A:PRO:C	1:184:A:GLY:N	8	1.72	0.72	1.44
(1,92)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ASP:N	8	1.69	0.48	1.69

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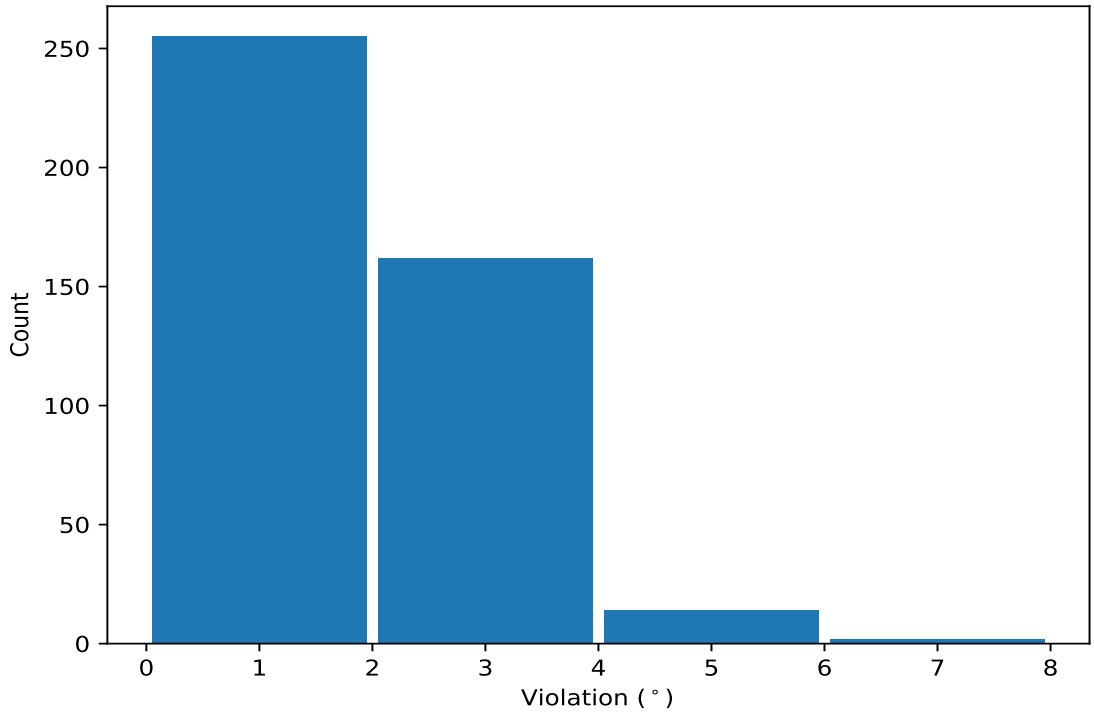
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,120)	1:99:A:VAL:C	1:100:A:LEU:N	1:100:A:LEU:CA	1:100:A:LEU:C	7	1.98	0.95	1.78
(1,24)	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1:30:A:THR:N	7	1.97	0.46	1.82
(1,96)	1:84:A:SER:N	1:84:A:SER:CA	1:84:A:SER:C	1:85:A:ALA:N	7	1.62	0.42	1.61
(1,13)	1:21:A:VAL:C	1:22:A:ALA:N	1:22:A:ALA:CA	1:22:A:ALA:C	7	1.51	0.75	1.19
(1,16)	1:23:A:ASN:N	1:23:A:ASN:CA	1:23:A:ASN:C	1:24:A:ALA:N	6	2.34	0.76	2.2
(1,114)	1:94:A:LEU:C	1:95:A:PHE:N	1:95:A:PHE:CA	1:95:A:PHE:C	6	2.24	0.67	2.48
(1,102)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:ALA:N	6	2.1	0.92	1.92
(1,170)	1:131:A:VAL:C	1:132:A:ASP:N	1:132:A:ASP:CA	1:132:A:ASP:C	6	1.69	0.42	1.64
(1,87)	1:78:A:PRO:N	1:78:A:PRO:CA	1:78:A:PRO:C	1:79:A:ALA:N	6	1.4	0.44	1.26
(1,197)	1:147:A:LEU:N	1:147:A:LEU:CA	1:147:A:LEU:C	1:148:A:SER:N	5	3.04	1.01	3.22
(1,47)	1:47:A:VAL:N	1:47:A:VAL:CA	1:47:A:VAL:C	1:48:A:VAL:N	5	2.41	1.03	2.75
(1,157)	1:121:A:SER:C	1:122:A:SER:N	1:122:A:SER:CA	1:122:A:SER:C	5	1.87	0.23	1.84
(1,98)	1:85:A:ALA:N	1:85:A:ALA:CA	1:85:A:ALA:C	1:86:A:TYR:N	5	1.75	0.53	1.53
(1,137)	1:110:A:SER:C	1:111:A:ARG:N	1:111:A:ARG:CA	1:111:A:ARG:C	5	1.74	0.65	1.63
(1,52)	1:53:A:GLN:N	1:53:A:GLN:CA	1:53:A:GLN:C	1:54:A:SER:N	5	1.6	0.62	1.43
(1,71)	1:70:A:ALA:N	1:70:A:ALA:CA	1:70:A:ALA:C	1:71:A:VAL:N	5	1.6	0.38	1.66
(1,49)	1:48:A:VAL:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	5	1.26	0.24	1.14
(1,8)	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	1:18:A:ILE:N	4	2.35	0.64	2.22
(1,194)	1:145:A:SER:C	1:146:A:PHE:N	1:146:A:PHE:CA	1:146:A:PHE:C	4	1.97	0.42	1.8
(1,12)	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	1:21:A:VAL:N	4	1.88	0.73	1.72
(1,166)	1:127:A:LEU:N	1:127:A:LEU:CA	1:127:A:LEU:C	1:128:A:GLY:N	4	1.61	0.61	1.36
(1,195)	1:146:A:PHE:N	1:146:A:PHE:CA	1:146:A:PHE:C	1:147:A:LEU:N	3	2.27	1.39	1.48
(1,64)	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	1:62:A:ASP:N	3	2.02	0.26	2.11
(1,175)	1:136:A:VAL:N	1:136:A:VAL:CA	1:136:A:VAL:C	1:137:A:GLN:N	3	1.94	0.27	2.06
(1,55)	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	1:56:A:ALA:N	3	1.73	0.39	1.59
(1,189)	1:143:A:SER:N	1:143:A:SER:CA	1:143:A:SER:C	1:144:A:SER:N	3	1.7	0.81	1.21
(1,60)	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	1:60:A:GLY:N	3	1.34	0.18	1.29
(1,69)	1:69:A:PHE:N	1:69:A:PHE:CA	1:69:A:PHE:C	1:70:A:ALA:N	3	1.2	0.22	1.06
(1,192)	1:144:A:SER:C	1:145:A:SER:N	1:145:A:SER:CA	1:145:A:SER:C	2	1.88	0.45	1.88
(1,68)	1:66:A:LEU:C	1:67:A:ALA:N	1:67:A:ALA:CA	1:67:A:ALA:C	2	1.74	0.15	1.74
(1,101)	1:87:A:ALA:C	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	2	1.68	0.57	1.68
(1,62)	1:60:A:GLY:N	1:60:A:GLY:CA	1:60:A:GLY:C	1:61:A:VAL:N	2	1.64	0.28	1.64
(1,200)	1:182:A:TYR:C	1:183:A:PRO:N	1:183:A:PRO:CA	1:183:A:PRO:C	2	1.52	0.29	1.52
(1,174)	1:135:A:SER:C	1:136:A:VAL:N	1:136:A:VAL:CA	1:136:A:VAL:C	2	1.42	0.24	1.42
(1,139)	1:111:A:ARG:C	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:C	2	1.39	0.02	1.39
(1,151)	1:118:A:ASN:C	1:119:A:GLY:N	1:119:A:GLY:CA	1:119:A:GLY:C	2	1.39	0.34	1.39
(1,113)	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	1:95:A:PHE:N	2	1.33	0.27	1.33
(1,159)	1:122:A:SER:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	2	1.3	0.14	1.3
(1,110)	1:92:A:SER:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	2	1.27	0.04	1.27
(1,5)	1:15:A:ALA:C	1:16:A:GLY:N	1:16:A:GLY:CA	1:16:A:GLY:C	2	1.23	0.03	1.23
(1,105)	1:89:A:ALA:C	1:90:A:PHE:N	1:90:A:PHE:CA	1:90:A:PHE:C	2	1.19	0.02	1.19
(1,164)	1:125:A:GLN:C	1:126:A:GLY:N	1:126:A:GLY:CA	1:126:A:GLY:C	2	1.14	0.03	1.14

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

10.5 All violated dihedral-angle restraints (i)

10.5.1 Histogram : Distribution of violations (i)

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	7	7.81
(1,100)	1:86:A:TYR:C	1:87:A:ALA:N	1:87:A:ALA:CA	1:87:A:ALA:C	10	6.24
(1,191)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:SER:N	16	5.72
(1,191)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:SER:N	20	5.55
(1,172)	1:134:A:GLY:C	1:135:A:SER:N	1:135:A:SER:CA	1:135:A:SER:C	17	5.05
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	17	4.76
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	1	4.68
(1,191)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:SER:N	3	4.63
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	8	4.54
(1,197)	1:147:A:LEU:N	1:147:A:LEU:CA	1:147:A:LEU:C	1:148:A:SER:N	10	4.48
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	3	4.34
(1,195)	1:146:A:PHE:N	1:146:A:PHE:CA	1:146:A:PHE:C	1:147:A:LEU:N	2	4.23
(1,120)	1:99:A:VAL:C	1:100:A:LEU:N	1:100:A:LEU:CA	1:100:A:LEU:C	4	4.16
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	8	4.05

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	4	4.04
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	4	4.01
(1,191)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:SER:N	11	3.96
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	12	3.85
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	11	3.78
(1,16)	1:23:A:ASN:N	1:23:A:ASN:CA	1:23:A:ASN:C	1:24:A:ALA:N	9	3.78
(1,112)	1:93:A:ALA:C	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	13	3.74
(1,102)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:ALA:N	16	3.72
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	3	3.7
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	3	3.7
(1,22)	1:27:A:ASN:N	1:27:A:ASN:CA	1:27:A:ASN:C	1:28:A:THR:N	7	3.65
(1,47)	1:47:A:VAL:N	1:47:A:VAL:CA	1:47:A:VAL:C	1:48:A:VAL:N	9	3.61
(1,66)	1:64:A:ASN:C	1:65:A:ASN:N	1:65:A:ASN:CA	1:65:A:ASN:C	20	3.59
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	2	3.59
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	17	3.54
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	17	3.54
(1,197)	1:147:A:LEU:N	1:147:A:LEU:CA	1:147:A:LEU:C	1:148:A:SER:N	14	3.47
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	5	3.43
(1,42)	1:42:A:GLN:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	9	3.43
(1,42)	1:42:A:GLN:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	19	3.42
(1,28)	1:31:A:LEU:C	1:32:A:ARG:N	1:32:A:ARG:CA	1:32:A:ARG:C	14	3.42
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	1	3.37
(1,8)	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	1:18:A:ILE:N	10	3.34
(1,13)	1:21:A:VAL:C	1:22:A:ALA:N	1:22:A:ALA:CA	1:22:A:ALA:C	14	3.32
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	8	3.31
(1,47)	1:47:A:VAL:N	1:47:A:VAL:CA	1:47:A:VAL:C	1:48:A:VAL:N	10	3.31
(1,191)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:SER:N	4	3.3
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	14	3.26
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	13	3.25
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	14	3.23
(1,197)	1:147:A:LEU:N	1:147:A:LEU:CA	1:147:A:LEU:C	1:148:A:SER:N	5	3.22
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	18	3.2
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	13	3.2
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	18	3.19
(1,114)	1:94:A:LEU:C	1:95:A:PHE:N	1:95:A:PHE:CA	1:95:A:PHE:C	7	3.08
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	6	3.03
(1,22)	1:27:A:ASN:N	1:27:A:ASN:CA	1:27:A:ASN:C	1:28:A:THR:N	11	3.02
(1,191)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:SER:N	6	3.0
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	10	3.0
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	13	2.99
(1,22)	1:27:A:ASN:N	1:27:A:ASN:CA	1:27:A:ASN:C	1:28:A:THR:N	2	2.99
(1,12)	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	1:21:A:VAL:N	15	2.99
(1,66)	1:64:A:ASN:C	1:65:A:ASN:N	1:65:A:ASN:CA	1:65:A:ASN:C	19	2.98
(1,137)	1:110:A:SER:C	1:111:A:ARG:N	1:111:A:ARG:CA	1:111:A:ARG:C	17	2.96
(1,191)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:SER:N	9	2.92
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	19	2.88
(1,201)	1:183:A:PRO:N	1:183:A:PRO:CA	1:183:A:PRO:C	1:184:A:GLY:N	6	2.86
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	19	2.85
(1,189)	1:143:A:SER:N	1:143:A:SER:CA	1:143:A:SER:C	1:144:A:SER:N	11	2.84
(1,45)	1:45:A:SER:N	1:45:A:SER:CA	1:45:A:SER:C	1:46:A:SER:N	19	2.84
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	2	2.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	7	2.8
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	5	2.79
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	13	2.79
(1,42)	1:42:A:GLN:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	2	2.79
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	18	2.78
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	15	2.77
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	7	2.76
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	2	2.75
(1,47)	1:47:A:VAL:N	1:47:A:VAL:CA	1:47:A:VAL:C	1:48:A:VAL:N	19	2.75
(1,52)	1:53:A:GLN:N	1:53:A:GLN:CA	1:53:A:GLN:C	1:54:A:SER:N	3	2.74
(1,24)	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1:30:A:THR:N	20	2.74
(1,201)	1:183:A:PRO:N	1:183:A:PRO:CA	1:183:A:PRO:C	1:184:A:GLY:N	11	2.73
(1,42)	1:42:A:GLN:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	17	2.73
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	14	2.72
(1,59)	1:58:A:THR:C	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	10	2.7
(1,33)	1:37:A:THR:N	1:37:A:THR:CA	1:37:A:THR:C	1:38:A:GLY:N	20	2.7
(1,194)	1:145:A:SER:C	1:146:A:PHE:N	1:146:A:PHE:CA	1:146:A:PHE:C	17	2.68
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	7	2.68
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	5	2.67
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	6	2.66
(1,114)	1:94:A:LEU:C	1:95:A:PHE:N	1:95:A:PHE:CA	1:95:A:PHE:C	5	2.64
(1,45)	1:45:A:SER:N	1:45:A:SER:CA	1:45:A:SER:C	1:46:A:SER:N	17	2.64
(1,172)	1:134:A:GLY:C	1:135:A:SER:N	1:135:A:SER:CA	1:135:A:SER:C	12	2.63
(1,166)	1:127:A:LEU:N	1:127:A:LEU:CA	1:127:A:LEU:C	1:128:A:GLY:N	14	2.63
(1,45)	1:45:A:SER:N	1:45:A:SER:CA	1:45:A:SER:C	1:46:A:SER:N	8	2.63
(1,114)	1:94:A:LEU:C	1:95:A:PHE:N	1:95:A:PHE:CA	1:95:A:PHE:C	17	2.62
(1,197)	1:147:A:LEU:N	1:147:A:LEU:CA	1:147:A:LEU:C	1:148:A:SER:N	1	2.61
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	20	2.6
(1,102)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:ALA:N	13	2.59
(1,92)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ASP:N	12	2.59
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	1	2.59
(1,191)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:SER:N	8	2.58
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	4	2.58
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	9	2.58
(1,66)	1:64:A:ASN:C	1:65:A:ASN:N	1:65:A:ASN:CA	1:65:A:ASN:C	10	2.57
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	20	2.57
(1,98)	1:85:A:ALA:N	1:85:A:ALA:CA	1:85:A:ALA:C	1:86:A:TYR:N	2	2.56
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	12	2.54
(1,191)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:SER:N	2	2.53
(1,59)	1:58:A:THR:C	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	5	2.53
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	7	2.52
(1,42)	1:42:A:GLN:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	10	2.52
(1,22)	1:27:A:ASN:N	1:27:A:ASN:CA	1:27:A:ASN:C	1:28:A:THR:N	6	2.52
(1,45)	1:45:A:SER:N	1:45:A:SER:CA	1:45:A:SER:C	1:46:A:SER:N	16	2.51
(1,16)	1:23:A:ASN:N	1:23:A:ASN:CA	1:23:A:ASN:C	1:24:A:ALA:N	17	2.51
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	17	2.5
(1,102)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:ALA:N	4	2.46
(1,96)	1:84:A:SER:N	1:84:A:SER:CA	1:84:A:SER:C	1:85:A:ALA:N	10	2.46
(1,24)	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1:30:A:THR:N	8	2.46
(1,10)	1:19:A:SER:N	1:19:A:SER:CA	1:19:A:SER:C	1:20:A:ARG:N	9	2.46
(1,8)	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	1:18:A:ILE:N	16	2.45

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	9	2.44
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	20	2.43
(1,186)	1:141:A:SER:C	1:142:A:SER:N	1:142:A:SER:CA	1:142:A:SER:C	11	2.42
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	18	2.38
(1,45)	1:45:A:SER:N	1:45:A:SER:CA	1:45:A:SER:C	1:46:A:SER:N	13	2.36
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	11	2.36
(1,170)	1:131:A:VAL:C	1:132:A:ASP:N	1:132:A:ASP:CA	1:132:A:ASP:C	1	2.35
(1,87)	1:78:A:PRO:N	1:78:A:PRO:CA	1:78:A:PRO:C	1:79:A:ALA:N	7	2.34
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	10	2.34
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	8	2.34
(1,192)	1:144:A:SER:C	1:145:A:SER:N	1:145:A:SER:CA	1:145:A:SER:C	7	2.33
(1,114)	1:94:A:LEU:C	1:95:A:PHE:N	1:95:A:PHE:CA	1:95:A:PHE:C	6	2.33
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	5	2.32
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	14	2.31
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	8	2.3
(1,45)	1:45:A:SER:N	1:45:A:SER:CA	1:45:A:SER:C	1:46:A:SER:N	12	2.3
(1,66)	1:64:A:ASN:C	1:65:A:ASN:N	1:65:A:ASN:CA	1:65:A:ASN:C	7	2.29
(1,64)	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	1:62:A:ASP:N	7	2.29
(1,45)	1:45:A:SER:N	1:45:A:SER:CA	1:45:A:SER:C	1:46:A:SER:N	1	2.28
(1,45)	1:45:A:SER:N	1:45:A:SER:CA	1:45:A:SER:C	1:46:A:SER:N	11	2.28
(1,59)	1:58:A:THR:C	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	7	2.27
(1,10)	1:19:A:SER:N	1:19:A:SER:CA	1:19:A:SER:C	1:20:A:ARG:N	16	2.27
(1,55)	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	1:56:A:ALA:N	15	2.26
(1,101)	1:87:A:ALA:C	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	16	2.25
(1,66)	1:64:A:ASN:C	1:65:A:ASN:N	1:65:A:ASN:CA	1:65:A:ASN:C	6	2.23
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	18	2.23
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	19	2.22
(1,16)	1:23:A:ASN:N	1:23:A:ASN:CA	1:23:A:ASN:C	1:24:A:ALA:N	5	2.21
(1,175)	1:136:A:VAL:N	1:136:A:VAL:CA	1:136:A:VAL:C	1:137:A:GLN:N	16	2.2
(1,172)	1:134:A:GLY:C	1:135:A:SER:N	1:135:A:SER:CA	1:135:A:SER:C	5	2.2
(1,120)	1:99:A:VAL:C	1:100:A:LEU:N	1:100:A:LEU:CA	1:100:A:LEU:C	12	2.2
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	11	2.2
(1,16)	1:23:A:ASN:N	1:23:A:ASN:CA	1:23:A:ASN:C	1:24:A:ALA:N	11	2.2
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	9	2.19
(1,157)	1:121:A:SER:C	1:122:A:SER:N	1:122:A:SER:CA	1:122:A:SER:C	1	2.18
(1,45)	1:45:A:SER:N	1:45:A:SER:CA	1:45:A:SER:C	1:46:A:SER:N	9	2.18
(1,191)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:SER:N	12	2.17
(1,98)	1:85:A:ALA:N	1:85:A:ALA:CA	1:85:A:ALA:C	1:86:A:TYR:N	9	2.17
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	16	2.17
(1,16)	1:23:A:ASN:N	1:23:A:ASN:CA	1:23:A:ASN:C	1:24:A:ALA:N	6	2.17
(1,201)	1:183:A:PRO:N	1:183:A:PRO:CA	1:183:A:PRO:C	1:184:A:GLY:N	5	2.14
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	7	2.12
(1,64)	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	1:62:A:ASP:N	8	2.11
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	3	2.11
(1,59)	1:58:A:THR:C	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	16	2.09
(1,24)	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1:30:A:THR:N	9	2.08
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	6	2.08
(1,157)	1:121:A:SER:C	1:122:A:SER:N	1:122:A:SER:CA	1:122:A:SER:C	11	2.07
(1,71)	1:70:A:ALA:N	1:70:A:ALA:CA	1:70:A:ALA:C	1:71:A:VAL:N	18	2.07
(1,42)	1:42:A:GLN:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	20	2.07
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	11	2.07

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,12)	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	1:21:A:VAL:N	17	2.07
(1,175)	1:136:A:VAL:N	1:136:A:VAL:CA	1:136:A:VAL:C	1:137:A:GLN:N	12	2.06
(1,10)	1:19:A:SER:N	1:19:A:SER:CA	1:19:A:SER:C	1:20:A:ARG:N	15	2.06
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	7	2.06
(1,118)	1:98:A:GLY:N	1:98:A:GLY:CA	1:98:A:GLY:C	1:99:A:VAL:N	12	2.05
(1,39)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLN:N	16	2.05
(1,92)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ASP:N	17	2.02
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	12	2.02
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	2	2.01
(1,170)	1:131:A:VAL:C	1:132:A:ASP:N	1:132:A:ASP:CA	1:132:A:ASP:C	10	2.0
(1,92)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ASP:N	4	2.0
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	16	1.98
(1,8)	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	1:18:A:ILE:N	8	1.98
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	12	1.96
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	5	1.96
(1,112)	1:93:A:ALA:C	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	8	1.95
(1,71)	1:70:A:ALA:N	1:70:A:ALA:CA	1:70:A:ALA:C	1:71:A:VAL:N	19	1.92
(1,62)	1:60:A:GLY:N	1:60:A:GLY:CA	1:60:A:GLY:C	1:61:A:VAL:N	19	1.92
(1,42)	1:42:A:GLN:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	8	1.92
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	4	1.91
(1,88)	1:78:A:PRO:C	1:79:A:ALA:N	1:79:A:ALA:CA	1:79:A:ALA:C	7	1.89
(1,68)	1:66:A:LEU:C	1:67:A:ALA:N	1:67:A:ALA:CA	1:67:A:ALA:C	8	1.89
(1,96)	1:84:A:SER:N	1:84:A:SER:CA	1:84:A:SER:C	1:85:A:ALA:N	20	1.88
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	15	1.88
(1,194)	1:145:A:SER:C	1:146:A:PHE:N	1:146:A:PHE:CA	1:146:A:PHE:C	18	1.87
(1,59)	1:58:A:THR:C	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	19	1.87
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	13	1.87
(1,120)	1:99:A:VAL:C	1:100:A:LEU:N	1:100:A:LEU:CA	1:100:A:LEU:C	15	1.86
(1,157)	1:121:A:SER:C	1:122:A:SER:N	1:122:A:SER:CA	1:122:A:SER:C	13	1.84
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	11	1.84
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	6	1.84
(1,170)	1:131:A:VAL:C	1:132:A:ASP:N	1:132:A:ASP:CA	1:132:A:ASP:C	4	1.83
(1,42)	1:42:A:GLN:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	15	1.83
(1,86)	1:77:A:LEU:C	1:78:A:PRO:N	1:78:A:PRO:CA	1:78:A:PRO:C	13	1.82
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	5	1.82
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	9	1.82
(1,24)	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1:30:A:THR:N	7	1.82
(1,200)	1:182:A:TYR:C	1:183:A:PRO:N	1:183:A:PRO:CA	1:183:A:PRO:C	16	1.8
(1,172)	1:134:A:GLY:C	1:135:A:SER:N	1:135:A:SER:CA	1:135:A:SER:C	16	1.8
(1,120)	1:99:A:VAL:C	1:100:A:LEU:N	1:100:A:LEU:CA	1:100:A:LEU:C	18	1.78
(1,39)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLN:N	5	1.78
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	3	1.77
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	2	1.75
(1,112)	1:93:A:ALA:C	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	1	1.74
(1,151)	1:118:A:ASN:C	1:119:A:GLY:N	1:119:A:GLY:CA	1:119:A:GLY:C	18	1.73
(1,194)	1:145:A:SER:C	1:146:A:PHE:N	1:146:A:PHE:CA	1:146:A:PHE:C	15	1.72
(1,96)	1:84:A:SER:N	1:84:A:SER:CA	1:84:A:SER:C	1:85:A:ALA:N	14	1.72
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	1	1.72
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	10	1.72
(1,49)	1:48:A:VAL:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	19	1.72
(1,201)	1:183:A:PRO:N	1:183:A:PRO:CA	1:183:A:PRO:C	1:184:A:GLY:N	2	1.71

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,92)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ASP:N	2	1.7
(1,52)	1:53:A:GLN:N	1:53:A:GLN:CA	1:53:A:GLN:C	1:54:A:SER:N	9	1.7
(1,92)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ASP:N	18	1.69
(1,24)	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1:30:A:THR:N	1	1.69
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	20	1.69
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	19	1.68
(1,157)	1:121:A:SER:C	1:122:A:SER:N	1:122:A:SER:CA	1:122:A:SER:C	7	1.67
(1,114)	1:94:A:LEU:C	1:95:A:PHE:N	1:95:A:PHE:CA	1:95:A:PHE:C	16	1.67
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	13	1.67
(1,64)	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	1:62:A:ASP:N	14	1.67
(1,22)	1:27:A:ASN:N	1:27:A:ASN:CA	1:27:A:ASN:C	1:28:A:THR:N	9	1.67
(1,174)	1:135:A:SER:C	1:136:A:VAL:N	1:136:A:VAL:CA	1:136:A:VAL:C	16	1.66
(1,173)	1:135:A:SER:N	1:135:A:SER:CA	1:135:A:SER:C	1:136:A:VAL:N	17	1.66
(1,71)	1:70:A:ALA:N	1:70:A:ALA:CA	1:70:A:ALA:C	1:71:A:VAL:N	14	1.66
(1,39)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLN:N	9	1.66
(1,24)	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1:30:A:THR:N	3	1.66
(1,137)	1:110:A:SER:C	1:111:A:ARG:N	1:111:A:ARG:CA	1:111:A:ARG:C	9	1.64
(1,66)	1:64:A:ASN:C	1:65:A:ASN:N	1:65:A:ASN:CA	1:65:A:ASN:C	11	1.64
(1,172)	1:134:A:GLY:C	1:135:A:SER:N	1:135:A:SER:CA	1:135:A:SER:C	13	1.63
(1,137)	1:110:A:SER:C	1:111:A:ARG:N	1:111:A:ARG:CA	1:111:A:ARG:C	1	1.63
(1,8)	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	1:18:A:ILE:N	6	1.63
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	11	1.63
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	17	1.63
(1,112)	1:93:A:ALA:C	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	18	1.62
(1,194)	1:145:A:SER:C	1:146:A:PHE:N	1:146:A:PHE:CA	1:146:A:PHE:C	6	1.61
(1,96)	1:84:A:SER:N	1:84:A:SER:CA	1:84:A:SER:C	1:85:A:ALA:N	7	1.61
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	6	1.61
(1,113)	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	1:95:A:PHE:N	5	1.6
(1,157)	1:121:A:SER:C	1:122:A:SER:N	1:122:A:SER:CA	1:122:A:SER:C	16	1.59
(1,68)	1:66:A:LEU:C	1:67:A:ALA:N	1:67:A:ALA:CA	1:67:A:ALA:C	9	1.59
(1,60)	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	1:60:A:GLY:N	18	1.59
(1,55)	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	1:56:A:ALA:N	14	1.59
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	14	1.59
(1,112)	1:93:A:ALA:C	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	20	1.58
(1,45)	1:45:A:SER:N	1:45:A:SER:CA	1:45:A:SER:C	1:46:A:SER:N	4	1.58
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	16	1.58
(1,191)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:SER:N	19	1.57
(1,175)	1:136:A:VAL:N	1:136:A:VAL:CA	1:136:A:VAL:C	1:137:A:GLN:N	13	1.57
(1,188)	1:142:A:SER:C	1:143:A:SER:N	1:143:A:SER:CA	1:143:A:SER:C	9	1.56
(1,82)	1:75:A:SER:C	1:76:A:ARG:N	1:76:A:ARG:CA	1:76:A:ARG:C	9	1.55
(1,45)	1:45:A:SER:N	1:45:A:SER:CA	1:45:A:SER:C	1:46:A:SER:N	6	1.55
(1,98)	1:85:A:ALA:N	1:85:A:ALA:CA	1:85:A:ALA:C	1:86:A:TYR:N	15	1.53
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	18	1.53
(1,103)	1:88:A:GLN:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	16	1.52
(1,66)	1:64:A:ASN:C	1:65:A:ASN:N	1:65:A:ASN:CA	1:65:A:ASN:C	5	1.52
(1,39)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLN:N	6	1.52
(1,166)	1:127:A:LEU:N	1:127:A:LEU:CA	1:127:A:LEU:C	1:128:A:GLY:N	18	1.51
(1,69)	1:69:A:PHE:N	1:69:A:PHE:CA	1:69:A:PHE:C	1:70:A:ALA:N	12	1.51
(1,48)	1:47:A:VAL:C	1:48:A:VAL:N	1:48:A:VAL:CA	1:48:A:VAL:C	15	1.51
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	13	1.51
(1,107)	1:91:A:SER:N	1:91:A:SER:CA	1:91:A:SER:C	1:92:A:SER:N	10	1.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,10)	1:19:A:SER:N	1:19:A:SER:CA	1:19:A:SER:C	1:20:A:ARG:N	12	1.49
(1,195)	1:146:A:PHE:N	1:146:A:PHE:CA	1:146:A:PHE:C	1:147:A:LEU:N	20	1.48
(1,119)	1:98:A:GLY:C	1:99:A:VAL:N	1:99:A:VAL:CA	1:99:A:VAL:C	17	1.48
(1,39)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLN:N	8	1.48
(1,10)	1:19:A:SER:N	1:19:A:SER:CA	1:19:A:SER:C	1:20:A:ARG:N	5	1.47
(1,13)	1:21:A:VAL:C	1:22:A:ALA:N	1:22:A:ALA:CA	1:22:A:ALA:C	10	1.46
(1,170)	1:131:A:VAL:C	1:132:A:ASP:N	1:132:A:ASP:CA	1:132:A:ASP:C	13	1.45
(1,137)	1:110:A:SER:C	1:111:A:ARG:N	1:111:A:ARG:CA	1:111:A:ARG:C	3	1.45
(1,87)	1:78:A:PRO:N	1:78:A:PRO:CA	1:78:A:PRO:C	1:79:A:ALA:N	2	1.45
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	15	1.45
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	2	1.45
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	14	1.45
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	18	1.44
(1,192)	1:144:A:SER:C	1:145:A:SER:N	1:145:A:SER:CA	1:145:A:SER:C	13	1.43
(1,159)	1:122:A:SER:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	18	1.43
(1,112)	1:93:A:ALA:C	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	4	1.43
(1,94)	1:83:A:THR:N	1:83:A:THR:CA	1:83:A:THR:C	1:84:A:SER:N	7	1.43
(1,52)	1:53:A:GLN:N	1:53:A:GLN:CA	1:53:A:GLN:C	1:54:A:SER:N	18	1.43
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	20	1.43
(1,170)	1:131:A:VAL:C	1:132:A:ASP:N	1:132:A:ASP:CA	1:132:A:ASP:C	3	1.42
(1,156)	1:121:A:SER:N	1:121:A:SER:CA	1:121:A:SER:C	1:122:A:SER:N	20	1.42
(1,59)	1:58:A:THR:C	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	13	1.42
(1,197)	1:147:A:LEU:N	1:147:A:LEU:CA	1:147:A:LEU:C	1:148:A:SER:N	19	1.41
(1,139)	1:111:A:ARG:C	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:C	16	1.41
(1,66)	1:64:A:ASN:C	1:65:A:ASN:N	1:65:A:ASN:CA	1:65:A:ASN:C	2	1.41
(1,59)	1:58:A:THR:C	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	1	1.41
(1,120)	1:99:A:VAL:C	1:100:A:LEU:N	1:100:A:LEU:CA	1:100:A:LEU:C	5	1.4
(1,120)	1:99:A:VAL:C	1:100:A:LEU:N	1:100:A:LEU:CA	1:100:A:LEU:C	10	1.4
(1,66)	1:64:A:ASN:C	1:65:A:ASN:N	1:65:A:ASN:CA	1:65:A:ASN:C	12	1.4
(1,27)	1:31:A:LEU:N	1:31:A:LEU:CA	1:31:A:LEU:C	1:32:A:ARG:N	15	1.4
(1,102)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:ALA:N	12	1.39
(1,39)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLN:N	1	1.39
(1,112)	1:93:A:ALA:C	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	6	1.38
(1,59)	1:58:A:THR:C	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	4	1.38
(1,139)	1:111:A:ARG:C	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:C	18	1.37
(1,112)	1:93:A:ALA:C	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	19	1.37
(1,66)	1:64:A:ASN:C	1:65:A:ASN:N	1:65:A:ASN:CA	1:65:A:ASN:C	3	1.37
(1,39)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLN:N	17	1.37
(1,12)	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	1:21:A:VAL:N	18	1.37
(1,10)	1:19:A:SER:N	1:19:A:SER:CA	1:19:A:SER:C	1:20:A:ARG:N	13	1.37
(1,172)	1:134:A:GLY:C	1:135:A:SER:N	1:135:A:SER:CA	1:135:A:SER:C	15	1.36
(1,62)	1:60:A:GLY:N	1:60:A:GLY:CA	1:60:A:GLY:C	1:61:A:VAL:N	4	1.35
(1,22)	1:27:A:ASN:N	1:27:A:ASN:CA	1:27:A:ASN:C	1:28:A:THR:N	13	1.35
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	10	1.34
(1,92)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ASP:N	5	1.33
(1,67)	1:65:A:ASN:C	1:66:A:LEU:N	1:66:A:LEU:CA	1:66:A:LEU:C	17	1.33
(1,66)	1:64:A:ASN:C	1:65:A:ASN:N	1:65:A:ASN:CA	1:65:A:ASN:C	17	1.33
(1,55)	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	1:56:A:ALA:N	16	1.33
(1,96)	1:84:A:SER:N	1:84:A:SER:CA	1:84:A:SER:C	1:85:A:ALA:N	13	1.32
(1,24)	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1:30:A:THR:N	10	1.32
(1,110)	1:92:A:SER:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	6	1.31

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,71)	1:70:A:ALA:N	1:70:A:ALA:CA	1:70:A:ALA:C	1:71:A:VAL:N	12	1.31
(1,172)	1:134:A:GLY:C	1:135:A:SER:N	1:135:A:SER:CA	1:135:A:SER:C	1	1.3
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	1	1.3
(1,46)	1:45:A:SER:C	1:46:A:SER:N	1:46:A:SER:CA	1:46:A:SER:C	5	1.3
(1,13)	1:21:A:VAL:C	1:22:A:ALA:N	1:22:A:ALA:CA	1:22:A:ALA:C	20	1.3
(1,172)	1:134:A:GLY:C	1:135:A:SER:N	1:135:A:SER:CA	1:135:A:SER:C	3	1.29
(1,102)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:ALA:N	15	1.29
(1,60)	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	1:60:A:GLY:N	17	1.29
(1,34)	1:37:A:THR:C	1:38:A:GLY:N	1:38:A:GLY:CA	1:38:A:GLY:C	19	1.29
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	5	1.29
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	5	1.27
(1,87)	1:78:A:PRO:N	1:78:A:PRO:CA	1:78:A:PRO:C	1:79:A:ALA:N	1	1.26
(1,87)	1:78:A:PRO:N	1:78:A:PRO:CA	1:78:A:PRO:C	1:79:A:ALA:N	11	1.26
(1,59)	1:58:A:THR:C	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	11	1.26
(1,56)	1:55:A:LEU:C	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	4	1.26
(1,49)	1:48:A:VAL:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	14	1.26
(1,47)	1:47:A:VAL:N	1:47:A:VAL:CA	1:47:A:VAL:C	1:48:A:VAL:N	16	1.26
(1,5)	1:15:A:ALA:C	1:16:A:GLY:N	1:16:A:GLY:CA	1:16:A:GLY:C	6	1.26
(1,153)	1:119:A:GLY:C	1:120:A:VAL:N	1:120:A:VAL:CA	1:120:A:VAL:C	20	1.25
(1,96)	1:84:A:SER:N	1:84:A:SER:CA	1:84:A:SER:C	1:85:A:ALA:N	15	1.25
(1,54)	1:54:A:SER:C	1:55:A:LEU:N	1:55:A:LEU:CA	1:55:A:LEU:C	4	1.25
(1,172)	1:134:A:GLY:C	1:135:A:SER:N	1:135:A:SER:CA	1:135:A:SER:C	20	1.24
(1,110)	1:92:A:SER:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	8	1.24
(1,98)	1:85:A:ALA:N	1:85:A:ALA:CA	1:85:A:ALA:C	1:86:A:TYR:N	19	1.24
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	7	1.24
(1,200)	1:182:A:TYR:C	1:183:A:PRO:N	1:183:A:PRO:CA	1:183:A:PRO:C	17	1.23
(1,98)	1:85:A:ALA:N	1:85:A:ALA:CA	1:85:A:ALA:C	1:86:A:TYR:N	16	1.23
(1,166)	1:127:A:LEU:N	1:127:A:LEU:CA	1:127:A:LEU:C	1:128:A:GLY:N	4	1.22
(1,92)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ASP:N	9	1.22
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	18	1.22
(1,189)	1:143:A:SER:N	1:143:A:SER:CA	1:143:A:SER:C	1:144:A:SER:N	20	1.21
(1,105)	1:89:A:ALA:C	1:90:A:PHE:N	1:90:A:PHE:CA	1:90:A:PHE:C	18	1.21
(1,39)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLN:N	15	1.21
(1,5)	1:15:A:ALA:C	1:16:A:GLY:N	1:16:A:GLY:CA	1:16:A:GLY:C	10	1.21
(1,112)	1:93:A:ALA:C	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	7	1.2
(1,42)	1:42:A:GLN:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	1	1.2
(1,10)	1:19:A:SER:N	1:19:A:SER:CA	1:19:A:SER:C	1:20:A:ARG:N	19	1.2
(1,59)	1:58:A:THR:C	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	8	1.19
(1,22)	1:27:A:ASN:N	1:27:A:ASN:CA	1:27:A:ASN:C	1:28:A:THR:N	14	1.19
(1,16)	1:23:A:ASN:N	1:23:A:ASN:CA	1:23:A:ASN:C	1:24:A:ALA:N	7	1.19
(1,13)	1:21:A:VAL:C	1:22:A:ALA:N	1:22:A:ALA:CA	1:22:A:ALA:C	12	1.19
(1,174)	1:135:A:SER:C	1:136:A:VAL:N	1:136:A:VAL:CA	1:136:A:VAL:C	12	1.18
(1,164)	1:125:A:GLN:C	1:126:A:GLY:N	1:126:A:GLY:CA	1:126:A:GLY:C	15	1.18
(1,201)	1:183:A:PRO:N	1:183:A:PRO:CA	1:183:A:PRO:C	1:184:A:GLY:N	18	1.17
(1,105)	1:89:A:ALA:C	1:90:A:PHE:N	1:90:A:PHE:CA	1:90:A:PHE:C	10	1.17
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	12	1.17
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	1	1.17
(1,159)	1:122:A:SER:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	15	1.16
(1,10)	1:19:A:SER:N	1:19:A:SER:CA	1:19:A:SER:C	1:20:A:ARG:N	10	1.16
(1,112)	1:93:A:ALA:C	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	14	1.15
(1,112)	1:93:A:ALA:C	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	16	1.15

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	4	1.15
(1,60)	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	1:60:A:GLY:N	14	1.15
(1,42)	1:42:A:GLN:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	3	1.15
(1,49)	1:48:A:VAL:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	4	1.14
(1,96)	1:84:A:SER:N	1:84:A:SER:CA	1:84:A:SER:C	1:85:A:ALA:N	6	1.13
(1,47)	1:47:A:VAL:N	1:47:A:VAL:CA	1:47:A:VAL:C	1:48:A:VAL:N	17	1.13
(1,13)	1:21:A:VAL:C	1:22:A:ALA:N	1:22:A:ALA:CA	1:22:A:ALA:C	2	1.13
(1,102)	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	1:89:A:ALA:N	3	1.12
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	4	1.12
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	8	1.12
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	6	1.12
(1,199)	1:148:A:SER:N	1:148:A:SER:CA	1:148:A:SER:C	1:149:A:THR:N	7	1.11
(1,164)	1:125:A:GLN:C	1:126:A:GLY:N	1:126:A:GLY:CA	1:126:A:GLY:C	3	1.11
(1,112)	1:93:A:ALA:C	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	17	1.11
(1,52)	1:53:A:GLN:N	1:53:A:GLN:CA	1:53:A:GLN:C	1:54:A:SER:N	17	1.11
(1,49)	1:48:A:VAL:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	15	1.11
(1,42)	1:42:A:GLN:C	1:43:A:ILE:N	1:43:A:ILE:CA	1:43:A:ILE:C	16	1.11
(1,39)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLN:N	14	1.11
(1,195)	1:146:A:PHE:N	1:146:A:PHE:CA	1:146:A:PHE:C	1:147:A:LEU:N	12	1.1
(1,101)	1:87:A:ALA:C	1:88:A:GLN:N	1:88:A:GLN:CA	1:88:A:GLN:C	8	1.1
(1,59)	1:58:A:THR:C	1:59:A:LEU:N	1:59:A:LEU:CA	1:59:A:LEU:C	20	1.1
(1,22)	1:27:A:ASN:N	1:27:A:ASN:CA	1:27:A:ASN:C	1:28:A:THR:N	17	1.1
(1,120)	1:99:A:VAL:C	1:100:A:LEU:N	1:100:A:LEU:CA	1:100:A:LEU:C	7	1.09
(1,49)	1:48:A:VAL:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	3	1.09
(1,12)	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	1:21:A:VAL:N	2	1.09
(1,11)	1:19:A:SER:C	1:20:A:ARG:N	1:20:A:ARG:CA	1:20:A:ARG:C	10	1.09
(1,201)	1:183:A:PRO:N	1:183:A:PRO:CA	1:183:A:PRO:C	1:184:A:GLY:N	9	1.08
(1,170)	1:131:A:VAL:C	1:132:A:ASP:N	1:132:A:ASP:CA	1:132:A:ASP:C	12	1.08
(1,166)	1:127:A:LEU:N	1:127:A:LEU:CA	1:127:A:LEU:C	1:128:A:GLY:N	3	1.08
(1,158)	1:122:A:SER:N	1:122:A:SER:CA	1:122:A:SER:C	1:123:A:ALA:N	19	1.08
(1,114)	1:94:A:LEU:C	1:95:A:PHE:N	1:95:A:PHE:CA	1:95:A:PHE:C	20	1.08
(1,87)	1:78:A:PRO:N	1:78:A:PRO:CA	1:78:A:PRO:C	1:79:A:ALA:N	17	1.08
(1,66)	1:64:A:ASN:C	1:65:A:ASN:N	1:65:A:ASN:CA	1:65:A:ASN:C	13	1.08
(1,63)	1:60:A:GLY:C	1:61:A:VAL:N	1:61:A:VAL:CA	1:61:A:VAL:C	6	1.08
(1,22)	1:27:A:ASN:N	1:27:A:ASN:CA	1:27:A:ASN:C	1:28:A:THR:N	8	1.08
(1,13)	1:21:A:VAL:C	1:22:A:ALA:N	1:22:A:ALA:CA	1:22:A:ALA:C	19	1.08
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	10	1.08
(1,13)	1:21:A:VAL:C	1:22:A:ALA:N	1:22:A:ALA:CA	1:22:A:ALA:C	8	1.07
(1,113)	1:94:A:LEU:N	1:94:A:LEU:CA	1:94:A:LEU:C	1:95:A:PHE:N	20	1.06
(1,76)	1:72:A:GLN:C	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	5	1.06
(1,69)	1:69:A:PHE:N	1:69:A:PHE:CA	1:69:A:PHE:C	1:70:A:ALA:N	17	1.06
(1,44)	1:43:A:ILE:C	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	2	1.06
(1,10)	1:19:A:SER:N	1:19:A:SER:CA	1:19:A:SER:C	1:20:A:ARG:N	20	1.06
(1,151)	1:118:A:ASN:C	1:119:A:GLY:N	1:119:A:GLY:CA	1:119:A:GLY:C	19	1.05
(1,140)	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:C	1:113:A:LEU:N	17	1.05
(1,39)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLN:N	20	1.05
(1,191)	1:144:A:SER:N	1:144:A:SER:CA	1:144:A:SER:C	1:145:A:SER:N	17	1.04
(1,189)	1:143:A:SER:N	1:143:A:SER:CA	1:143:A:SER:C	1:144:A:SER:N	4	1.04
(1,137)	1:110:A:SER:C	1:111:A:ARG:N	1:111:A:ARG:CA	1:111:A:ARG:C	14	1.04
(1,71)	1:70:A:ALA:N	1:70:A:ALA:CA	1:70:A:ALA:C	1:71:A:VAL:N	6	1.04
(1,22)	1:27:A:ASN:N	1:27:A:ASN:CA	1:27:A:ASN:C	1:28:A:THR:N	4	1.04

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,172)	1:134:A:GLY:C	1:135:A:SER:N	1:135:A:SER:CA	1:135:A:SER:C	10	1.03
(1,171)	1:132:A:ASP:C	1:133:A:SER:N	1:133:A:SER:CA	1:133:A:SER:C	11	1.03
(1,87)	1:78:A:PRO:N	1:78:A:PRO:CA	1:78:A:PRO:C	1:79:A:ALA:N	3	1.03
(1,52)	1:53:A:GLN:N	1:53:A:GLN:CA	1:53:A:GLN:C	1:54:A:SER:N	10	1.03
(1,201)	1:183:A:PRO:N	1:183:A:PRO:CA	1:183:A:PRO:C	1:184:A:GLY:N	16	1.02
(1,69)	1:69:A:PHE:N	1:69:A:PHE:CA	1:69:A:PHE:C	1:70:A:ALA:N	10	1.02
(1,201)	1:183:A:PRO:N	1:183:A:PRO:CA	1:183:A:PRO:C	1:184:A:GLY:N	3	1.01
(1,92)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:ASP:N	19	1.01
(1,57)	1:56:A:ALA:N	1:56:A:ALA:CA	1:56:A:ALA:C	1:57:A:SER:N	1	1.01
(1,10)	1:19:A:SER:N	1:19:A:SER:CA	1:19:A:SER:C	1:20:A:ARG:N	8	1.01
(1,7)	1:16:A:GLY:C	1:17:A:LEU:N	1:17:A:LEU:CA	1:17:A:LEU:C	12	1.01