



Full wwPDB NMR Structure Validation Report ⓘ

Mar 1, 2026 – 04:00 PM UTC

PDB ID : 7JGI / pdb_00007jgi
BMRB ID : 30774
Title : NMR structure of the cNTnC-cTnI chimera bound to A7
Authors : Cai, F.; Robertson, I.M.; Kampourakis, T.; Klein, B.A.; Sykes, B.D.
Deposited on : 2020-07-19

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
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

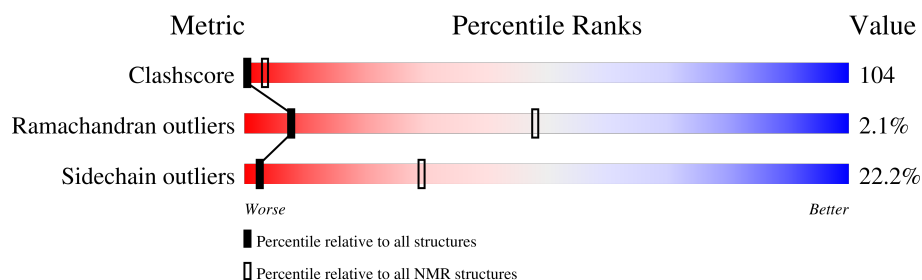
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 92%.

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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	125	16% 46% 10% 28%

2 Ensemble composition and analysis

This entry contains 10 models. Model 3 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:4-A:82, A:148-A:158 (90)	0.45	3

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 3 single-model clusters were found.

Cluster number	Models
1	2, 3, 5, 6, 10
2	4, 7
Single-model clusters	1; 8; 9

3 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 2003 atoms, of which 989 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Troponin C, slow skeletal and cardiac muscles,Troponin I, cardiac muscle chimera.

Mol	Chain	Residues	Atoms						Trace
1	A	125	Total	C	H	N	O	S	0
			1959	612	970	175	193	9	

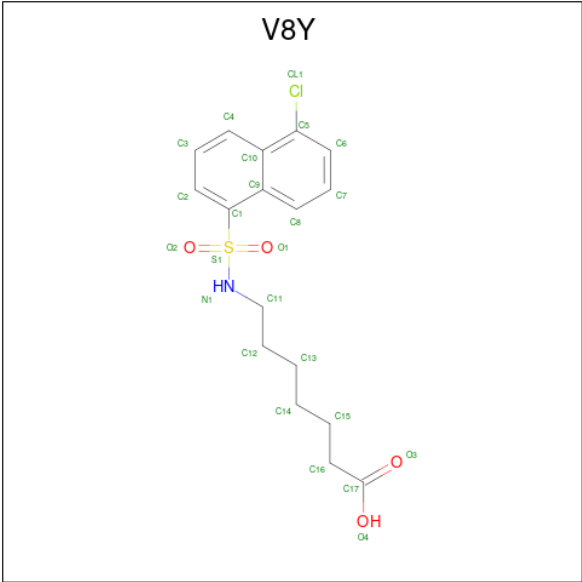
There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	35	SER	CYS	engineered mutation	UNP P63316
A	84	SER	CYS	engineered mutation	UNP P63316
A	164	GLY	-	expression tag	UNP P19429
A	165	HIS	-	expression tag	UNP P19429
A	166	HIS	-	expression tag	UNP P19429
A	167	HIS	-	expression tag	UNP P19429
A	168	HIS	-	expression tag	UNP P19429
A	169	HIS	-	expression tag	UNP P19429
A	170	HIS	-	expression tag	UNP P19429

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	
2	A	1	Total	Ca
			1	1

- Molecule 3 is 7-{[(5-chloronaphthalen-1-yl)sulfonyl]amino}heptanoic acid (CCD ID: V8Y) (formula: C₁₇H₂₀ClNO₄S) (labeled as "Ligand of Interest" by depositor).



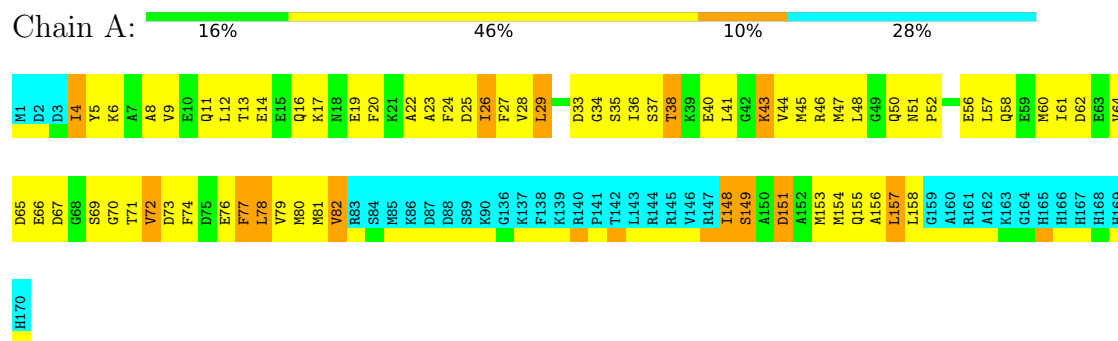
Mol	Chain	Residues	Atoms						
			Total	C	Cl	H	N	O	S
3	A	1	43	17	1	19	1	4	1

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle chimera

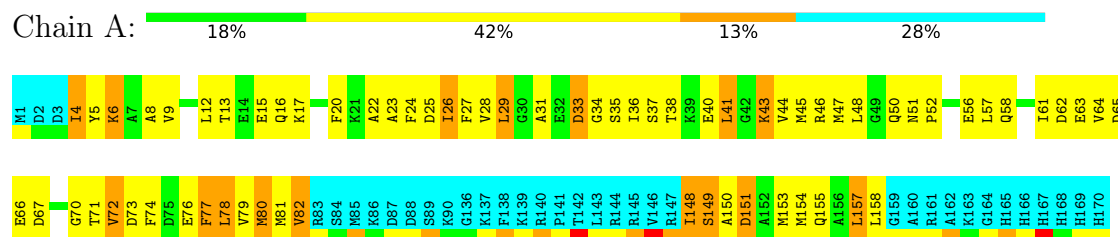


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

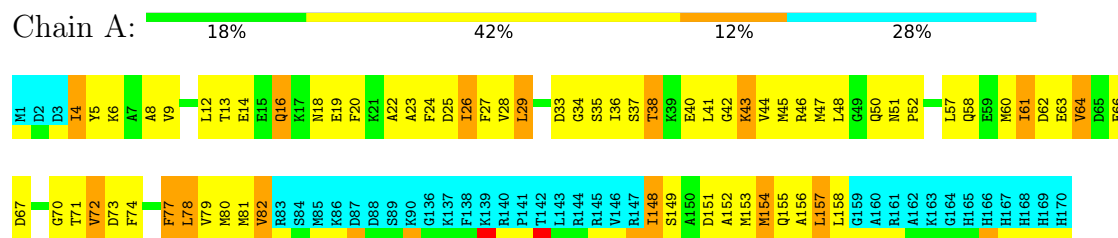
4.2.1 Score per residue for model 1

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle chimera



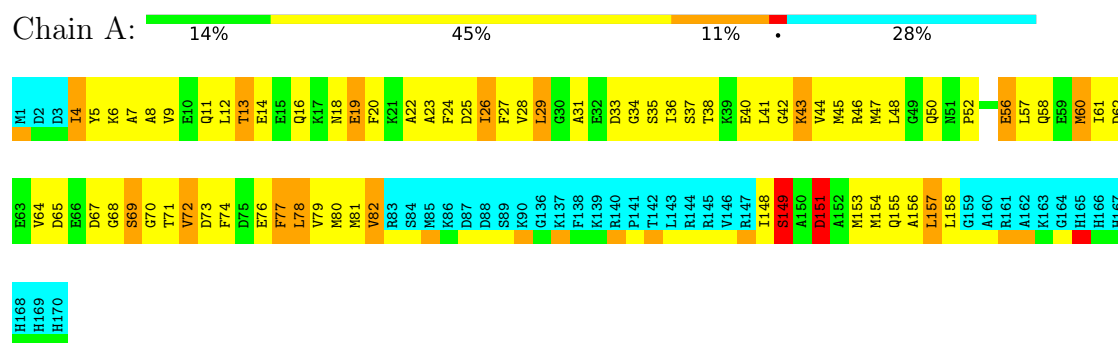
4.2.2 Score per residue for model 2

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle chimera



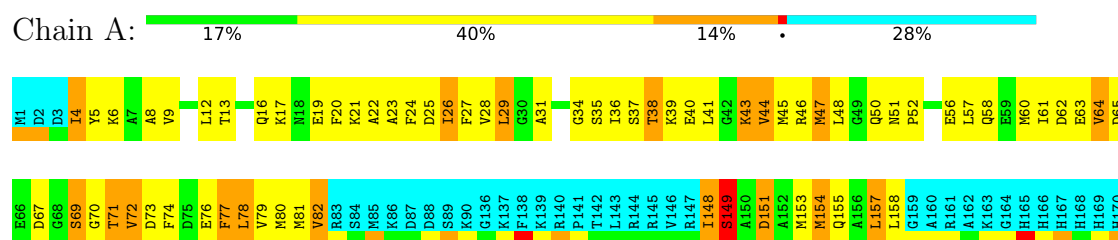
4.2.3 Score per residue for model 3 (medoid)

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle chimera



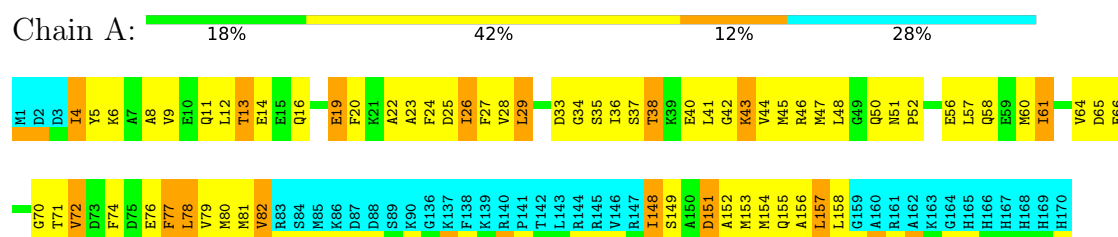
4.2.4 Score per residue for model 4

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle chimera



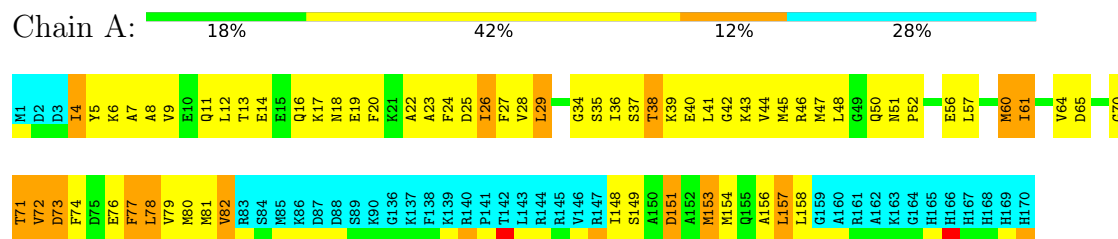
4.2.5 Score per residue for model 5

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle chimera



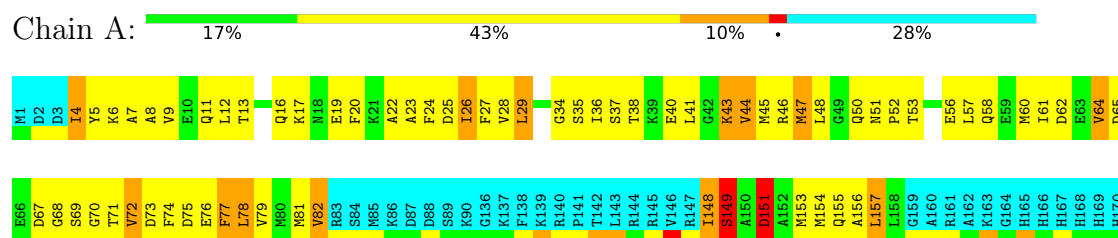
4.2.6 Score per residue for model 6

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle chimera



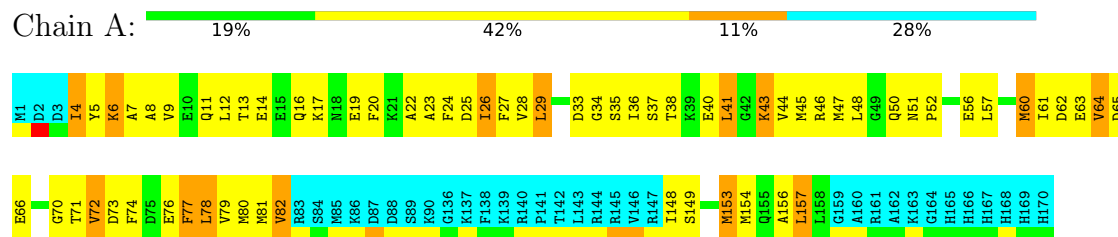
4.2.7 Score per residue for model 7

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle chimera



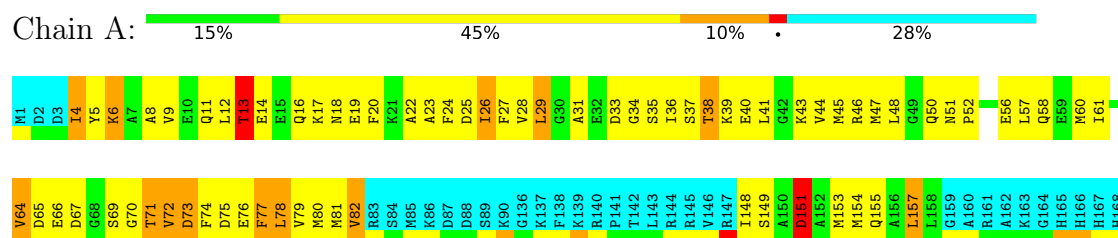
4.2.8 Score per residue for model 8

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle chimera



4.2.9 Score per residue for model 9

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle chimera

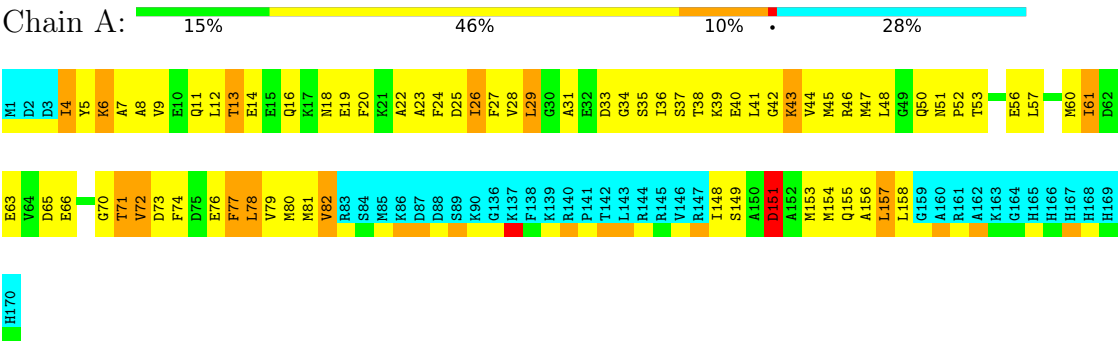


H169

H170

4.2.10 Score per residue for model 10

- Molecule 1: Troponin C, slow skeletal and cardiac muscles,Troponin I, cardiac muscle chimera



5 Refinement protocol and experimental data overview

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

Of the 300 calculated structures, 10 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
VnmrJ	refinement	
X-PLOR NIH	structure calculation	
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	1418
Number of shifts mapped to atoms	1418
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	92%

6 Model quality

6.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CA, V8Y

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts

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	695	677	677	146±10
3	A	24	19	0	2±1
All	All	7200	6960	6764	1458

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 104.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:23:ALA:HB2	1:A:154:MET:HE3	1.09	1.21	10	10
1:A:27:PHE:CZ	1:A:153:MET:HE3	1.00	1.91	1	9
1:A:27:PHE:CE1	1:A:157:LEU:HD11	0.99	1.92	2	1
1:A:22:ALA:O	1:A:26:ILE:HD12	0.96	1.59	5	10
1:A:19:GLU:O	1:A:154:MET:HE1	0.96	1.59	4	8
1:A:44:VAL:HG22	1:A:47:MET:SD	0.96	2.01	7	2
1:A:56:GLU:O	1:A:60:MET:HE3	0.93	1.62	10	1
1:A:41:LEU:HD21	1:A:60:MET:HE1	0.92	1.36	7	1
1:A:45:MET:SD	1:A:148:ILE:HD12	0.91	2.03	3	6
1:A:27:PHE:CZ	1:A:44:VAL:HG11	0.89	2.02	4	10
1:A:23:ALA:CB	1:A:154:MET:HE3	0.88	1.97	5	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:74:PHE:CE1	1:A:78:LEU:HD23	0.88	2.03	3	10
1:A:26:ILE:HD13	1:A:157:LEU:CB	0.88	1.98	8	6
1:A:23:ALA:HB2	1:A:154:MET:CE	0.88	1.99	3	7
1:A:56:GLU:O	1:A:60:MET:HE2	0.87	1.69	9	2
1:A:9:VAL:HG22	1:A:78:LEU:HD12	0.86	1.46	1	10
1:A:74:PHE:HE1	1:A:78:LEU:HD23	0.86	1.29	5	10
1:A:41:LEU:HD22	1:A:57:LEU:HD22	0.81	1.51	6	5
1:A:148:ILE:HG23	1:A:148:ILE:O	0.81	1.75	3	7
1:A:77:PHE:HA	1:A:80:MET:HE2	0.80	1.54	2	1
1:A:38:THR:N	1:A:61:ILE:HD11	0.79	1.93	9	8
1:A:27:PHE:HZ	1:A:153:MET:HE3	0.78	1.34	7	8
1:A:41:LEU:CD2	1:A:57:LEU:HD22	0.78	2.09	9	6
1:A:28:VAL:HG11	1:A:34:GLY:O	0.77	1.80	5	7
1:A:64:VAL:HG21	1:A:80:MET:SD	0.76	2.20	2	1
1:A:13:THR:HG23	1:A:16:GLN:H	0.76	1.40	1	8
1:A:24:PHE:O	1:A:28:VAL:HG22	0.75	1.81	5	10
1:A:27:PHE:CE1	1:A:153:MET:HE3	0.75	2.17	1	5
1:A:52:PRO:HG2	1:A:57:LEU:HD21	0.75	1.56	10	5
1:A:52:PRO:CG	1:A:57:LEU:HD21	0.74	2.12	10	5
1:A:80:MET:HG3	1:A:81:MET:HE2	0.74	1.57	6	1
1:A:26:ILE:HG22	1:A:44:VAL:CG2	0.74	2.12	10	10
1:A:48:LEU:HD22	1:A:48:LEU:N	0.74	1.96	9	2
1:A:64:VAL:HG13	3:A:201:V8Y:CL1	0.73	2.21	3	5
1:A:72:VAL:HG23	1:A:77:PHE:N	0.73	1.98	6	10
1:A:38:THR:HG23	1:A:61:ILE:HD12	0.73	1.56	7	4
1:A:26:ILE:HD13	1:A:157:LEU:HB2	0.73	1.61	8	2
1:A:12:LEU:HD13	1:A:20:PHE:CD1	0.73	2.18	9	9
1:A:28:VAL:HG13	1:A:36:ILE:CG1	0.72	2.13	5	10
1:A:37:SER:HB3	1:A:71:THR:HG22	0.72	1.60	1	6
1:A:48:LEU:CD2	1:A:156:ALA:HB3	0.72	2.14	2	3
1:A:41:LEU:HD21	1:A:60:MET:CE	0.72	2.15	7	1
1:A:44:VAL:HG22	1:A:47:MET:HE2	0.72	1.59	8	8
1:A:27:PHE:CD1	1:A:157:LEU:HD11	0.72	2.19	2	1
1:A:41:LEU:HD23	1:A:57:LEU:HD22	0.71	1.61	8	2
1:A:157:LEU:N	1:A:157:LEU:HD23	0.70	2.02	9	9
1:A:26:ILE:HG22	1:A:44:VAL:HG21	0.70	1.64	10	9
1:A:57:LEU:HD23	1:A:60:MET:SD	0.70	2.27	10	1
1:A:4:ILE:C	1:A:4:ILE:HD13	0.69	2.12	9	10
1:A:27:PHE:CE1	1:A:44:VAL:HG11	0.69	2.21	6	10
1:A:12:LEU:HD12	1:A:78:LEU:HD11	0.69	1.63	3	10
1:A:46:ARG:HA	1:A:50:GLN:O	0.69	1.88	5	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:79:VAL:O	1:A:82:VAL:HG13	0.69	1.86	7	10
1:A:36:ILE:HB	1:A:72:VAL:HG13	0.69	1.65	10	10
1:A:64:VAL:HG21	1:A:80:MET:CG	0.69	2.19	2	1
1:A:20:PHE:O	1:A:77:PHE:CZ	0.68	2.47	7	10
1:A:40:GLU:O	1:A:43:LYS:CG	0.68	2.42	10	5
1:A:72:VAL:HG22	1:A:72:VAL:O	0.68	1.89	3	8
1:A:26:ILE:HG21	1:A:157:LEU:HD22	0.67	1.64	9	6
1:A:12:LEU:HD13	1:A:20:PHE:CE1	0.67	2.24	5	1
1:A:44:VAL:HG13	1:A:47:MET:SD	0.67	2.29	4	2
1:A:38:THR:HG22	1:A:57:LEU:C	0.67	2.14	1	7
1:A:38:THR:N	1:A:61:ILE:CD1	0.67	2.57	6	7
1:A:5:TYR:CD2	1:A:82:VAL:CG2	0.67	2.77	10	10
1:A:20:PHE:CD2	1:A:154:MET:SD	0.67	2.88	2	4
1:A:61:ILE:HG21	1:A:70:GLY:O	0.67	1.90	8	5
1:A:26:ILE:HD13	1:A:157:LEU:HB3	0.67	1.66	8	6
1:A:48:LEU:HD21	1:A:156:ALA:HB3	0.66	1.66	2	4
1:A:64:VAL:HG11	1:A:80:MET:CG	0.66	2.21	2	1
1:A:60:MET:SD	1:A:60:MET:N	0.66	2.69	5	5
1:A:44:VAL:O	1:A:48:LEU:CD2	0.66	2.43	9	2
1:A:9:VAL:HG13	1:A:78:LEU:HG	0.66	1.67	5	9
1:A:38:THR:HG22	1:A:57:LEU:HB3	0.66	1.68	4	4
1:A:80:MET:HG2	1:A:81:MET:N	0.65	2.04	9	2
1:A:149:SER:O	1:A:153:MET:CB	0.65	2.44	10	10
1:A:28:VAL:HG13	1:A:36:ILE:HG12	0.65	1.69	10	9
1:A:80:MET:CG	1:A:81:MET:HE2	0.65	2.21	6	1
1:A:74:PHE:C	1:A:74:PHE:CD1	0.65	2.71	10	9
1:A:41:LEU:CD2	1:A:60:MET:HE1	0.65	2.18	7	1
1:A:12:LEU:CD1	1:A:78:LEU:HD11	0.64	2.22	10	9
1:A:44:VAL:CG2	1:A:47:MET:SD	0.63	2.85	4	2
1:A:57:LEU:HA	1:A:60:MET:SD	0.63	2.33	10	1
1:A:24:PHE:CZ	1:A:34:GLY:O	0.63	2.51	3	5
1:A:56:GLU:C	1:A:60:MET:HE2	0.63	2.19	9	1
1:A:61:ILE:HG21	1:A:70:GLY:C	0.62	2.19	4	7
1:A:53:THR:OG1	1:A:56:GLU:OE1	0.62	2.16	10	1
1:A:80:MET:HE1	1:A:153:MET:HE1	0.62	1.70	1	1
1:A:37:SER:OG	1:A:40:GLU:OE1	0.62	2.17	2	6
1:A:27:PHE:CE1	1:A:153:MET:HE2	0.62	2.29	8	3
1:A:65:ASP:OD2	1:A:69:SER:N	0.61	2.33	3	4
1:A:9:VAL:HG22	1:A:78:LEU:HB3	0.61	1.72	3	9
1:A:27:PHE:CZ	1:A:153:MET:CE	0.61	2.83	5	7
1:A:78:LEU:O	1:A:82:VAL:HG12	0.61	1.95	6	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:148:ILE:O	1:A:149:SER:C	0.61	2.44	7	5
1:A:38:THR:CA	1:A:61:ILE:HD11	0.61	2.25	4	7
1:A:25:ASP:O	1:A:29:LEU:N	0.61	2.34	10	10
1:A:64:VAL:HG11	1:A:80:MET:HG2	0.61	1.73	2	1
1:A:41:LEU:HD22	1:A:60:MET:HE1	0.60	1.73	4	1
1:A:148:ILE:HD11	1:A:153:MET:HG3	0.60	1.72	6	1
1:A:28:VAL:HG11	1:A:35:SER:C	0.60	2.21	6	9
1:A:78:LEU:O	1:A:78:LEU:HD13	0.60	1.96	1	8
1:A:45:MET:O	1:A:50:GLN:N	0.60	2.35	3	5
1:A:148:ILE:O	1:A:148:ILE:CG2	0.60	2.49	3	7
1:A:41:LEU:HD23	1:A:57:LEU:CD2	0.60	2.27	8	2
1:A:41:LEU:O	1:A:45:MET:HG2	0.60	1.97	8	10
1:A:28:VAL:HG21	1:A:34:GLY:O	0.59	1.96	6	4
1:A:37:SER:CB	1:A:71:THR:HG22	0.59	2.27	8	5
1:A:56:GLU:O	1:A:60:MET:SD	0.59	2.60	6	2
1:A:35:SER:CB	1:A:73:ASP:OD1	0.59	2.50	3	2
1:A:27:PHE:CZ	1:A:44:VAL:CG1	0.59	2.85	6	5
1:A:38:THR:HG22	1:A:57:LEU:CB	0.59	2.28	4	3
1:A:37:SER:C	1:A:61:ILE:HD11	0.58	2.23	10	4
1:A:44:VAL:CG1	1:A:157:LEU:HD21	0.58	2.29	2	1
1:A:65:ASP:OD1	1:A:67:ASP:OD1	0.58	2.21	4	4
1:A:28:VAL:CG1	1:A:35:SER:C	0.58	2.77	6	9
1:A:40:GLU:OE1	1:A:40:GLU:N	0.58	2.36	9	3
1:A:27:PHE:CE1	1:A:153:MET:CE	0.58	2.86	10	6
1:A:80:MET:HE2	3:A:201:V8Y:C7	0.58	2.28	3	1
1:A:27:PHE:HE1	1:A:157:LEU:HD11	0.58	1.56	2	1
1:A:72:VAL:HG23	1:A:76:GLU:C	0.57	2.24	9	3
1:A:12:LEU:HD22	1:A:16:GLN:CD	0.57	2.24	7	2
1:A:22:ALA:HB3	1:A:158:LEU:HD21	0.57	1.77	3	4
1:A:26:ILE:HA	1:A:29:LEU:HD12	0.57	1.75	4	5
1:A:26:ILE:O	1:A:43:LYS:NZ	0.57	2.36	3	3
1:A:148:ILE:O	1:A:148:ILE:HG22	0.57	1.99	5	1
1:A:60:MET:HE3	3:A:201:V8Y:N1	0.57	2.14	6	1
1:A:57:LEU:O	1:A:61:ILE:HG13	0.56	2.00	7	6
1:A:5:TYR:CD2	1:A:82:VAL:HG22	0.56	2.36	1	9
1:A:28:VAL:O	1:A:31:ALA:N	0.56	2.37	1	1
1:A:65:ASP:OD2	1:A:70:GLY:N	0.56	2.38	7	6
1:A:4:ILE:HG23	1:A:5:TYR:N	0.56	2.16	6	10
1:A:33:ASP:OD1	1:A:34:GLY:N	0.56	2.38	3	4
1:A:77:PHE:O	1:A:80:MET:SD	0.56	2.63	9	2
1:A:74:PHE:CD1	1:A:74:PHE:O	0.56	2.58	1	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:51:ASN:O	1:A:51:ASN:OD1	0.56	2.23	10	4
1:A:62:ASP:OD1	1:A:62:ASP:O	0.56	2.23	2	2
1:A:74:PHE:CD1	1:A:77:PHE:CE2	0.56	2.94	2	8
1:A:153:MET:O	1:A:157:LEU:HD23	0.55	2.00	2	1
1:A:9:VAL:HG22	1:A:78:LEU:CD1	0.55	2.26	1	5
1:A:41:LEU:CD2	1:A:60:MET:CE	0.55	2.82	7	1
1:A:48:LEU:HD13	1:A:153:MET:HA	0.55	1.78	3	2
1:A:13:THR:HG22	1:A:16:GLN:HG3	0.55	1.78	4	1
1:A:38:THR:HA	1:A:61:ILE:HD11	0.55	1.77	4	3
1:A:12:LEU:HD22	1:A:16:GLN:OE1	0.55	2.02	6	1
1:A:67:ASP:OD1	1:A:69:SER:OG	0.55	2.23	4	3
1:A:26:ILE:HG21	1:A:157:LEU:HB3	0.55	1.77	7	6
1:A:52:PRO:HG2	1:A:57:LEU:HD11	0.55	1.78	4	3
1:A:47:MET:SD	1:A:157:LEU:CD2	0.55	2.95	7	2
1:A:77:PHE:O	1:A:80:MET:CG	0.55	2.55	9	2
1:A:24:PHE:HB2	1:A:77:PHE:CE2	0.55	2.37	6	9
1:A:44:VAL:HA	1:A:47:MET:SD	0.55	2.41	4	2
1:A:33:ASP:OD1	1:A:33:ASP:O	0.54	2.25	8	2
1:A:24:PHE:HB2	1:A:77:PHE:CD2	0.54	2.37	7	10
1:A:48:LEU:HD22	1:A:48:LEU:H	0.54	1.61	9	2
1:A:6:LYS:CE	1:A:6:LYS:HA	0.54	2.32	2	5
1:A:23:ALA:HB1	1:A:157:LEU:HD12	0.54	1.78	2	1
1:A:77:PHE:CA	1:A:80:MET:HE2	0.54	2.31	2	1
1:A:65:ASP:OD1	1:A:68:GLY:N	0.54	2.41	7	2
1:A:57:LEU:O	1:A:60:MET:HG2	0.54	2.02	6	3
1:A:153:MET:O	1:A:157:LEU:HG	0.54	2.02	6	7
1:A:51:ASN:N	1:A:52:PRO:HD3	0.54	2.17	6	5
1:A:36:ILE:O	1:A:72:VAL:N	0.54	2.40	10	3
1:A:64:VAL:CG1	1:A:80:MET:HG2	0.54	2.33	2	1
1:A:65:ASP:OD1	1:A:71:THR:O	0.54	2.25	10	2
1:A:48:LEU:N	1:A:48:LEU:CD2	0.54	2.69	9	2
1:A:44:VAL:O	1:A:48:LEU:HD22	0.54	2.02	8	2
1:A:80:MET:HE2	3:A:201:V8Y:C6	0.53	2.33	3	1
1:A:57:LEU:O	1:A:60:MET:SD	0.53	2.66	7	1
1:A:29:LEU:HB3	1:A:43:LYS:NZ	0.53	2.17	8	1
1:A:28:VAL:CG1	1:A:36:ILE:N	0.53	2.71	6	3
1:A:149:SER:O	1:A:153:MET:HB2	0.53	2.03	2	7
1:A:79:VAL:O	1:A:82:VAL:CG1	0.53	2.57	7	1
1:A:77:PHE:HA	1:A:80:MET:SD	0.53	2.44	9	2
1:A:60:MET:SD	3:A:201:V8Y:O2	0.53	2.66	10	1
1:A:65:ASP:OD2	1:A:71:THR:N	0.53	2.41	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:37:SER:O	1:A:41:LEU:N	0.53	2.42	2	5
1:A:157:LEU:N	1:A:157:LEU:CD2	0.53	2.68	9	5
1:A:28:VAL:HG13	1:A:36:ILE:HG13	0.53	1.80	5	2
1:A:36:ILE:HB	1:A:72:VAL:O	0.53	2.04	6	10
1:A:19:GLU:C	1:A:154:MET:HE1	0.53	2.27	2	1
1:A:79:VAL:HA	1:A:82:VAL:CG1	0.53	2.34	7	7
1:A:48:LEU:CD2	1:A:156:ALA:CB	0.53	2.87	5	4
1:A:72:VAL:CG2	1:A:77:PHE:N	0.53	2.70	9	4
1:A:4:ILE:HD12	1:A:5:TYR:CE2	0.53	2.39	2	8
1:A:37:SER:C	1:A:61:ILE:CD1	0.52	2.81	10	2
1:A:4:ILE:HG23	1:A:5:TYR:CD2	0.52	2.39	7	6
1:A:72:VAL:O	1:A:72:VAL:CG2	0.52	2.58	3	4
1:A:60:MET:CE	1:A:61:ILE:HG12	0.52	2.35	4	1
1:A:81:MET:HE1	1:A:153:MET:CE	0.52	2.35	5	1
1:A:37:SER:HB3	1:A:71:THR:CG2	0.52	2.34	9	3
1:A:56:GLU:O	1:A:60:MET:CE	0.52	2.52	9	2
1:A:13:THR:OG1	1:A:14:GLU:N	0.52	2.41	9	4
1:A:13:THR:HG22	1:A:16:GLN:CG	0.52	2.35	4	1
1:A:50:GLN:C	1:A:52:PRO:HD3	0.52	2.29	6	4
1:A:77:PHE:O	1:A:80:MET:HG2	0.52	2.04	9	4
1:A:72:VAL:HA	1:A:76:GLU:OE1	0.52	2.05	4	6
1:A:20:PHE:HB3	1:A:77:PHE:CZ	0.52	2.39	2	6
1:A:46:ARG:CA	1:A:50:GLN:O	0.52	2.58	10	5
1:A:27:PHE:O	1:A:40:GLU:O	0.52	2.27	10	4
1:A:22:ALA:O	1:A:26:ILE:CD1	0.51	2.49	3	2
1:A:37:SER:CB	1:A:71:THR:CG2	0.51	2.88	6	3
1:A:29:LEU:CB	1:A:43:LYS:NZ	0.51	2.73	8	1
1:A:56:GLU:O	1:A:60:MET:HG2	0.51	2.05	9	1
1:A:27:PHE:O	1:A:40:GLU:HB3	0.51	2.06	1	9
1:A:41:LEU:HD13	1:A:60:MET:HE1	0.51	1.81	4	1
1:A:41:LEU:HD13	1:A:60:MET:CE	0.51	2.35	4	1
1:A:12:LEU:HD22	1:A:16:GLN:NE2	0.51	2.20	7	1
1:A:45:MET:HE3	1:A:50:GLN:HB3	0.51	1.81	3	2
1:A:57:LEU:O	1:A:60:MET:HG3	0.51	2.05	7	1
1:A:37:SER:O	1:A:40:GLU:N	0.51	2.44	5	3
1:A:37:SER:CA	1:A:71:THR:HG22	0.51	2.36	9	2
1:A:27:PHE:CD1	1:A:157:LEU:CD1	0.51	2.91	2	1
1:A:26:ILE:CG2	1:A:44:VAL:CG2	0.51	2.88	10	4
1:A:16:GLN:O	1:A:20:PHE:CD1	0.51	2.63	4	2
1:A:48:LEU:CD1	1:A:153:MET:HG3	0.51	2.36	6	3
1:A:38:THR:CG2	1:A:58:GLN:HA	0.51	2.36	1	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:74:PHE:O	1:A:77:PHE:CD2	0.51	2.64	6	8
1:A:41:LEU:CD2	1:A:57:LEU:CD2	0.51	2.89	1	1
1:A:48:LEU:CD1	1:A:153:MET:HA	0.51	2.35	3	4
1:A:52:PRO:HB2	1:A:56:GLU:OE2	0.50	2.06	7	1
1:A:4:ILE:C	1:A:4:ILE:CD1	0.50	2.85	9	2
1:A:38:THR:CG2	1:A:58:GLN:N	0.50	2.74	4	2
1:A:26:ILE:CD1	1:A:157:LEU:HB3	0.50	2.34	8	3
1:A:23:ALA:CB	1:A:157:LEU:HD12	0.50	2.36	8	5
1:A:62:ASP:HA	1:A:65:ASP:HB3	0.50	1.83	4	4
1:A:72:VAL:HG23	1:A:76:GLU:CB	0.50	2.37	9	2
1:A:38:THR:O	1:A:57:LEU:HD13	0.50	2.07	8	1
1:A:44:VAL:HG13	1:A:157:LEU:HD21	0.50	1.83	2	1
1:A:48:LEU:HD12	1:A:148:ILE:HD11	0.50	1.82	4	1
1:A:77:PHE:CA	1:A:80:MET:HE3	0.50	2.37	6	2
1:A:41:LEU:HD13	1:A:61:ILE:HG12	0.50	1.83	10	2
1:A:73:ASP:CG	1:A:76:GLU:OE1	0.50	2.54	7	1
1:A:43:LYS:HD2	1:A:44:VAL:HG23	0.50	1.84	2	1
1:A:149:SER:O	1:A:153:MET:N	0.50	2.41	8	2
1:A:20:PHE:CD2	1:A:81:MET:HG3	0.50	2.41	10	1
1:A:28:VAL:CG1	1:A:36:ILE:HA	0.50	2.36	6	6
1:A:40:GLU:O	1:A:43:LYS:HG3	0.50	2.05	1	5
1:A:148:ILE:O	1:A:150:ALA:N	0.50	2.45	1	1
1:A:48:LEU:CD1	1:A:156:ALA:HB2	0.50	2.36	8	1
1:A:5:TYR:O	1:A:8:ALA:HB3	0.49	2.07	10	10
1:A:36:ILE:CB	1:A:72:VAL:HG13	0.49	2.36	10	5
1:A:44:VAL:O	1:A:47:MET:HG2	0.49	2.07	7	2
1:A:80:MET:HE1	1:A:148:ILE:HG21	0.49	1.84	4	1
1:A:12:LEU:HD13	1:A:20:PHE:HD1	0.49	1.66	6	2
1:A:40:GLU:HA	1:A:43:LYS:HG2	0.49	1.83	3	5
1:A:151:ASP:O	1:A:155:GLN:HG3	0.49	2.06	9	8
1:A:7:ALA:O	1:A:11:GLN:HG2	0.49	2.07	8	3
1:A:60:MET:HE2	3:A:201:V8Y:C8	0.49	2.36	7	1
1:A:29:LEU:CB	1:A:43:LYS:HZ1	0.49	2.19	8	1
1:A:9:VAL:CG2	1:A:78:LEU:HB3	0.49	2.37	5	5
1:A:45:MET:SD	1:A:148:ILE:CD1	0.49	2.92	3	1
1:A:40:GLU:CD	1:A:40:GLU:N	0.49	2.70	4	1
1:A:44:VAL:HG22	1:A:47:MET:CE	0.49	2.36	4	3
1:A:36:ILE:O	1:A:71:THR:HA	0.49	2.08	6	9
1:A:77:PHE:HA	1:A:80:MET:CE	0.49	2.38	6	2
1:A:8:ALA:O	1:A:12:LEU:HG	0.49	2.07	10	5
1:A:73:ASP:OD1	1:A:76:GLU:CG	0.49	2.60	10	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:45:MET:SD	3:A:201:V8Y:O1	0.49	2.70	1	1
1:A:149:SER:O	1:A:153:MET:HB3	0.49	2.07	6	4
1:A:13:THR:HG22	1:A:16:GLN:HB2	0.49	1.83	10	3
1:A:47:MET:HG2	1:A:48:LEU:N	0.49	2.22	4	2
1:A:41:LEU:HD13	1:A:60:MET:SD	0.49	2.47	7	1
1:A:43:LYS:CD	1:A:44:VAL:HG23	0.49	2.38	5	3
1:A:64:VAL:HB	1:A:76:GLU:O	0.49	2.08	6	3
1:A:33:ASP:OD2	1:A:35:SER:OG	0.49	2.27	5	4
1:A:74:PHE:CD1	1:A:77:PHE:HE2	0.49	2.23	2	6
1:A:26:ILE:CG2	1:A:157:LEU:HD13	0.49	2.38	2	1
1:A:9:VAL:O	1:A:17:LYS:HE2	0.49	2.08	9	5
1:A:45:MET:O	1:A:50:GLN:HB2	0.49	2.07	6	10
1:A:45:MET:C	1:A:50:GLN:HB2	0.49	2.32	7	4
1:A:38:THR:CG2	1:A:61:ILE:HD12	0.49	2.35	7	1
1:A:81:MET:HE1	1:A:153:MET:SD	0.49	2.47	10	2
1:A:20:PHE:C	1:A:77:PHE:HZ	0.48	2.16	3	8
1:A:77:PHE:HA	1:A:80:MET:HE3	0.48	1.84	8	2
1:A:4:ILE:HD12	1:A:5:TYR:CD2	0.48	2.43	9	1
1:A:65:ASP:HA	1:A:76:GLU:OE1	0.48	2.07	3	6
1:A:44:VAL:CA	1:A:47:MET:SD	0.48	3.01	4	2
1:A:37:SER:HB2	1:A:71:THR:HG22	0.48	1.85	5	1
1:A:37:SER:O	1:A:38:THR:C	0.48	2.57	6	4
1:A:57:LEU:HA	1:A:60:MET:CG	0.48	2.39	7	3
1:A:6:LYS:HA	1:A:6:LYS:NZ	0.48	2.24	10	1
1:A:28:VAL:HB	1:A:31:ALA:HB3	0.48	1.85	1	3
1:A:74:PHE:HD1	1:A:77:PHE:CE2	0.48	2.27	3	9
1:A:13:THR:HG22	1:A:16:GLN:CB	0.48	2.39	6	1
1:A:42:GLY:O	1:A:45:MET:HB2	0.48	2.09	6	5
1:A:45:MET:HB3	1:A:50:GLN:HB2	0.48	1.85	8	9
1:A:28:VAL:CG1	1:A:36:ILE:CA	0.48	2.92	6	2
1:A:7:ALA:O	1:A:11:GLN:N	0.48	2.47	8	3
1:A:80:MET:CG	1:A:81:MET:N	0.47	2.76	6	3
1:A:77:PHE:CA	1:A:80:MET:SD	0.47	3.02	9	1
1:A:35:SER:HB2	1:A:71:THR:HB	0.47	1.86	7	9
1:A:29:LEU:HB3	1:A:43:LYS:HZ1	0.47	1.67	8	1
1:A:48:LEU:HD11	1:A:153:MET:HG3	0.47	1.86	10	6
1:A:77:PHE:CD1	1:A:77:PHE:C	0.47	2.91	10	9
1:A:27:PHE:O	1:A:43:LYS:HD2	0.47	2.10	3	1
1:A:26:ILE:CD1	1:A:157:LEU:O	0.47	2.62	2	1
1:A:6:LYS:HA	1:A:6:LYS:HE2	0.47	1.87	7	1
1:A:56:GLU:HG3	1:A:57:LEU:N	0.47	2.25	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:40:GLU:O	1:A:43:LYS:HD2	0.47	2.10	3	2
1:A:26:ILE:CG1	1:A:157:LEU:HB3	0.47	2.39	7	5
1:A:23:ALA:O	1:A:27:PHE:HD1	0.47	1.92	8	1
1:A:52:PRO:HG2	1:A:57:LEU:CD2	0.47	2.36	10	1
1:A:14:GLU:O	1:A:18:ASN:HB2	0.47	2.10	9	5
1:A:73:ASP:OD1	1:A:76:GLU:HG3	0.47	2.10	10	1
1:A:44:VAL:O	1:A:47:MET:HB2	0.47	2.09	9	3
1:A:65:ASP:OD2	1:A:67:ASP:OD1	0.47	2.33	9	1
1:A:35:SER:HA	1:A:73:ASP:OD1	0.47	2.10	1	1
1:A:45:MET:C	1:A:50:GLN:O	0.47	2.58	3	1
1:A:20:PHE:O	1:A:77:PHE:HZ	0.47	1.92	10	3
1:A:45:MET:HE2	1:A:52:PRO:HG3	0.46	1.85	3	1
1:A:74:PHE:CD1	1:A:74:PHE:C	0.46	2.92	3	1
1:A:28:VAL:HG12	1:A:36:ILE:HA	0.46	1.87	4	2
1:A:57:LEU:O	1:A:60:MET:CG	0.46	2.64	10	2
1:A:72:VAL:HA	1:A:76:GLU:CD	0.46	2.35	1	1
1:A:4:ILE:CG2	1:A:5:TYR:N	0.46	2.78	6	9
1:A:41:LEU:HD22	1:A:60:MET:SD	0.46	2.50	4	1
1:A:28:VAL:HG11	1:A:34:GLY:C	0.46	2.35	7	1
1:A:35:SER:CB	1:A:71:THR:HB	0.46	2.40	1	4
1:A:41:LEU:HD22	1:A:60:MET:CE	0.46	2.39	4	1
1:A:27:PHE:HA	1:A:44:VAL:CG2	0.46	2.39	9	2
1:A:41:LEU:C	1:A:41:LEU:HD23	0.46	2.36	7	2
1:A:72:VAL:O	1:A:72:VAL:HG22	0.46	2.10	10	2
1:A:152:ALA:HA	1:A:155:GLN:OE1	0.46	2.09	5	1
1:A:26:ILE:CD1	1:A:157:LEU:CB	0.46	2.83	8	1
1:A:27:PHE:CZ	1:A:153:MET:HE2	0.46	2.46	8	1
1:A:4:ILE:CD1	1:A:5:TYR:CD2	0.46	2.99	2	2
1:A:17:LYS:O	1:A:21:LYS:N	0.46	2.46	4	1
1:A:74:PHE:HD1	1:A:77:PHE:CD2	0.46	2.28	2	3
1:A:65:ASP:CG	1:A:68:GLY:CA	0.45	2.88	3	1
1:A:45:MET:CE	1:A:52:PRO:CG	0.45	2.94	6	1
1:A:47:MET:CG	1:A:48:LEU:CD2	0.45	2.94	7	1
1:A:53:THR:O	1:A:56:GLU:HG3	0.45	2.11	7	1
1:A:6:LYS:HA	1:A:6:LYS:CE	0.45	2.41	7	1
1:A:28:VAL:HB	1:A:31:ALA:CB	0.45	2.41	3	3
1:A:13:THR:CG2	1:A:16:GLN:HB2	0.45	2.41	6	2
1:A:41:LEU:CD2	1:A:60:MET:SD	0.45	3.05	4	1
1:A:20:PHE:HB3	1:A:77:PHE:HZ	0.45	1.72	2	6
1:A:77:PHE:CG	1:A:78:LEU:N	0.45	2.81	10	5
1:A:40:GLU:C	1:A:43:LYS:CG	0.45	2.90	3	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:43:LYS:HD3	1:A:44:VAL:HG23	0.45	1.87	5	1
1:A:41:LEU:CD1	1:A:60:MET:SD	0.44	3.05	7	1
1:A:19:GLU:O	1:A:154:MET:CE	0.44	2.60	2	1
1:A:74:PHE:CE1	1:A:77:PHE:HE2	0.44	2.30	2	1
1:A:9:VAL:HG22	1:A:78:LEU:CB	0.44	2.40	3	2
1:A:65:ASP:HA	1:A:76:GLU:OE2	0.44	2.11	7	1
1:A:46:ARG:HG2	1:A:50:GLN:O	0.44	2.13	8	1
1:A:26:ILE:O	1:A:43:LYS:HE3	0.44	2.13	4	2
1:A:22:ALA:CB	1:A:158:LEU:HD21	0.44	2.42	6	2
1:A:48:LEU:HD13	1:A:156:ALA:HB2	0.44	1.88	8	1
1:A:152:ALA:O	1:A:155:GLN:HB2	0.44	2.12	5	2
1:A:60:MET:HG2	3:A:201:V8Y:S1	0.44	2.52	2	1
1:A:60:MET:CE	1:A:61:ILE:CG1	0.44	2.96	4	1
1:A:13:THR:CG2	1:A:16:GLN:H	0.44	2.21	6	2
1:A:14:GLU:CD	1:A:14:GLU:C	0.44	2.86	6	1
1:A:41:LEU:HD13	1:A:61:ILE:CG1	0.44	2.43	7	1
1:A:75:ASP:O	1:A:79:VAL:HG23	0.44	2.12	7	1
1:A:9:VAL:HG22	1:A:78:LEU:CG	0.44	2.43	2	2
1:A:38:THR:CG2	1:A:57:LEU:C	0.44	2.90	1	2
1:A:73:ASP:N	1:A:76:GLU:HB2	0.44	2.28	6	2
1:A:27:PHE:O	1:A:43:LYS:HE3	0.44	2.12	2	1
1:A:27:PHE:HE1	1:A:153:MET:HE2	0.44	1.73	10	1
1:A:27:PHE:CE1	1:A:157:LEU:CD1	0.43	2.83	2	1
1:A:73:ASP:O	1:A:77:PHE:HB3	0.43	2.12	3	3
1:A:26:ILE:HG21	1:A:157:LEU:CD2	0.43	2.43	7	2
1:A:5:TYR:HA	1:A:82:VAL:HG21	0.43	1.90	1	4
1:A:45:MET:CE	1:A:52:PRO:HG3	0.43	2.43	3	1
1:A:44:VAL:O	1:A:47:MET:CG	0.43	2.66	4	2
1:A:28:VAL:O	1:A:29:LEU:C	0.43	2.59	1	1
1:A:38:THR:CG2	1:A:58:GLN:CA	0.43	2.96	1	2
1:A:40:GLU:O	1:A:43:LYS:CD	0.43	2.66	3	2
1:A:154:MET:O	1:A:158:LEU:HG	0.43	2.13	5	1
1:A:45:MET:CE	1:A:52:PRO:HG2	0.43	2.43	6	1
1:A:27:PHE:HB3	1:A:36:ILE:HG12	0.43	1.90	7	1
1:A:37:SER:O	1:A:41:LEU:HB2	0.43	2.14	7	1
1:A:60:MET:O	1:A:63:GLU:HB2	0.43	2.14	2	1
1:A:40:GLU:CA	1:A:43:LYS:HG2	0.43	2.44	3	1
1:A:44:VAL:CG1	1:A:47:MET:SD	0.43	3.05	4	1
1:A:28:VAL:HG11	1:A:36:ILE:N	0.43	2.28	6	1
1:A:20:PHE:C	1:A:77:PHE:CZ	0.43	2.97	5	3
1:A:38:THR:HG21	1:A:58:GLN:N	0.43	2.29	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:151:ASP:OD1	1:A:151:ASP:N	0.43	2.51	3	1
1:A:26:ILE:CB	1:A:157:LEU:HB3	0.43	2.44	4	2
1:A:41:LEU:HD22	1:A:57:LEU:CD2	0.43	2.36	6	1
1:A:28:VAL:CG1	1:A:34:GLY:O	0.43	2.64	7	1
1:A:64:VAL:O	1:A:76:GLU:HG2	0.43	2.13	7	2
1:A:46:ARG:HH12	1:A:51:ASN:ND2	0.43	2.12	4	1
1:A:12:LEU:CD1	1:A:20:PHE:CD1	0.42	3.02	6	1
1:A:72:VAL:CG2	1:A:77:PHE:CA	0.42	2.97	6	2
1:A:36:ILE:HD12	1:A:72:VAL:HG22	0.42	1.89	3	1
1:A:64:VAL:CG1	3:A:201:V8Y:CL1	0.42	3.04	6	1
1:A:79:VAL:HA	1:A:82:VAL:HG13	0.42	1.91	5	5
1:A:46:ARG:N	1:A:50:GLN:O	0.42	2.52	3	1
1:A:45:MET:HE3	1:A:52:PRO:CG	0.42	2.44	6	1
1:A:61:ILE:O	1:A:65:ASP:N	0.42	2.52	9	1
1:A:26:ILE:HA	1:A:29:LEU:CD1	0.42	2.45	6	1
1:A:37:SER:O	1:A:41:LEU:CB	0.42	2.67	7	1
1:A:80:MET:HE3	3:A:201:V8Y:C6	0.42	2.44	9	1
1:A:80:MET:SD	3:A:201:V8Y:C6	0.42	3.08	2	1
1:A:67:ASP:OD1	1:A:67:ASP:C	0.42	2.61	7	2
1:A:154:MET:HE2	1:A:154:MET:HB3	0.42	1.76	6	1
1:A:65:ASP:OD2	1:A:68:GLY:C	0.42	2.63	3	1
1:A:47:MET:HG2	1:A:48:LEU:HG	0.42	1.92	4	1
1:A:37:SER:N	1:A:71:THR:HG22	0.42	2.30	9	1
1:A:78:LEU:CD1	1:A:78:LEU:C	0.42	2.93	1	2
1:A:26:ILE:CG2	1:A:44:VAL:HG22	0.42	2.45	1	1
1:A:33:ASP:OD1	1:A:33:ASP:C	0.42	2.62	3	1
1:A:7:ALA:O	1:A:11:GLN:HG3	0.41	2.15	7	1
1:A:47:MET:CG	1:A:48:LEU:HD23	0.41	2.45	7	1
1:A:45:MET:O	1:A:50:GLN:CB	0.41	2.68	4	3
1:A:67:ASP:CG	1:A:69:SER:OG	0.41	2.64	4	1
1:A:47:MET:HG2	1:A:48:LEU:CD2	0.41	2.45	7	1
1:A:57:LEU:O	1:A:61:ILE:HG12	0.41	2.15	8	1
1:A:153:MET:O	1:A:157:LEU:CG	0.41	2.67	9	1
1:A:78:LEU:HD13	1:A:78:LEU:C	0.41	2.40	1	1
1:A:41:LEU:HD13	1:A:61:ILE:CD1	0.41	2.46	1	1
1:A:36:ILE:CG2	1:A:72:VAL:HG13	0.41	2.46	5	2
1:A:20:PHE:CE2	1:A:81:MET:HB3	0.41	2.51	10	1
1:A:20:PHE:HB3	1:A:78:LEU:CD2	0.41	2.45	10	1
1:A:22:ALA:HB3	1:A:158:LEU:CD2	0.41	2.46	2	1
1:A:40:GLU:C	1:A:43:LYS:HG2	0.41	2.41	3	1
1:A:153:MET:HE2	1:A:157:LEU:HD11	0.41	1.93	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:148:ILE:HD13	1:A:153:MET:SD	0.41	2.55	7	1
1:A:48:LEU:HD23	1:A:156:ALA:CB	0.41	2.46	2	1
1:A:60:MET:O	1:A:63:GLU:HB3	0.41	2.15	4	1
1:A:41:LEU:O	1:A:45:MET:CG	0.41	2.68	8	1
1:A:57:LEU:HA	1:A:60:MET:HG2	0.40	1.93	3	1
1:A:17:LYS:O	1:A:21:LYS:HB2	0.40	2.16	4	1
1:A:74:PHE:O	1:A:78:LEU:HB2	0.40	2.15	9	1
1:A:64:VAL:HG11	1:A:80:MET:HG3	0.40	1.91	2	1
1:A:51:ASN:N	1:A:52:PRO:CD	0.40	2.84	9	1
1:A:51:ASN:O	1:A:51:ASN:CG	0.40	2.65	9	1
1:A:80:MET:SD	3:A:201:V8Y:C7	0.40	3.10	4	1
1:A:27:PHE:CB	1:A:36:ILE:HG12	0.40	2.47	6	1
1:A:45:MET:HE2	1:A:52:PRO:HG2	0.40	1.93	6	1
1:A:80:MET:CG	1:A:81:MET:CE	0.40	2.97	6	1
1:A:73:ASP:OD1	1:A:76:GLU:CB	0.40	2.69	10	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	90/125 (72%)	83±1 (92±1%)	5±2 (5±2%)	2±1 (2±1%)	8	48
All	All	900/1250 (72%)	832 (92%)	49 (5%)	19 (2%)	8	48

All 4 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	151	ASP	8
1	A	148	ILE	4
1	A	149	SER	4
1	A	13	THR	3

6.3.2 Protein sidechains ⓘ

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	76/106 (72%)	59±2 (78±3%)	17±2 (22±3%)	2	29
All	All	760/1060 (72%)	591 (78%)	169 (22%)	2	29

All 39 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	4	ILE	10
1	A	26	ILE	10
1	A	29	LEU	10
1	A	43	LYS	10
1	A	72	VAL	10
1	A	77	PHE	10
1	A	78	LEU	10
1	A	82	VAL	10
1	A	157	LEU	10
1	A	6	LYS	8
1	A	64	VAL	6
1	A	38	THR	5
1	A	151	ASP	5
1	A	56	GLU	4
1	A	61	ILE	4
1	A	39	LYS	4
1	A	71	THR	4
1	A	19	GLU	3
1	A	60	MET	3
1	A	149	SER	3
1	A	41	LEU	2
1	A	80	MET	2
1	A	154	MET	2
1	A	58	GLN	2
1	A	69	SER	2
1	A	44	VAL	2
1	A	47	MET	2
1	A	11	GLN	2
1	A	13	THR	2

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Mol	Chain	Res	Type	Models (Total)
1	A	73	ASP	2
1	A	153	MET	2
1	A	15	GLU	1
1	A	33	ASP	1
1	A	63	GLU	1
1	A	16	GLN	1
1	A	67	ASP	1
1	A	148	ILE	1
1	A	75	ASP	1
1	A	66	GLU	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.6 Ligand geometry ⓘ

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 for Mogul analysis.

In the following table, the Counts columns list the number of bonds for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length is the number of standard deviations the observed value is removed from the expected value. A bond length with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
3	V8Y	A	201	-	25,25,25	2.79±0.06	4±0 (16±1%)

In the following table, the Counts columns list the number of angles for which Mogul statistics

could be retrieved, the number of angles that are observed in the model and the number of angles that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
3	V8Y	A	201	-	34,34,34	2.05±0.03	5±1 (13±1%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	V8Y	A	201	-	-	0±0,17,17,17	0±0,2,2,2

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
3	A	201	V8Y	O1-S1	10.01	1.55	1.43	9	10
3	A	201	V8Y	O2-S1	8.68	1.53	1.43	4	10
3	A	201	V8Y	S1-N1	3.14	1.66	1.61	9	10
3	A	201	V8Y	C2-C1	2.80	1.41	1.37	9	10
3	A	201	V8Y	C3-C4	2.02	1.41	1.36	4	1

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

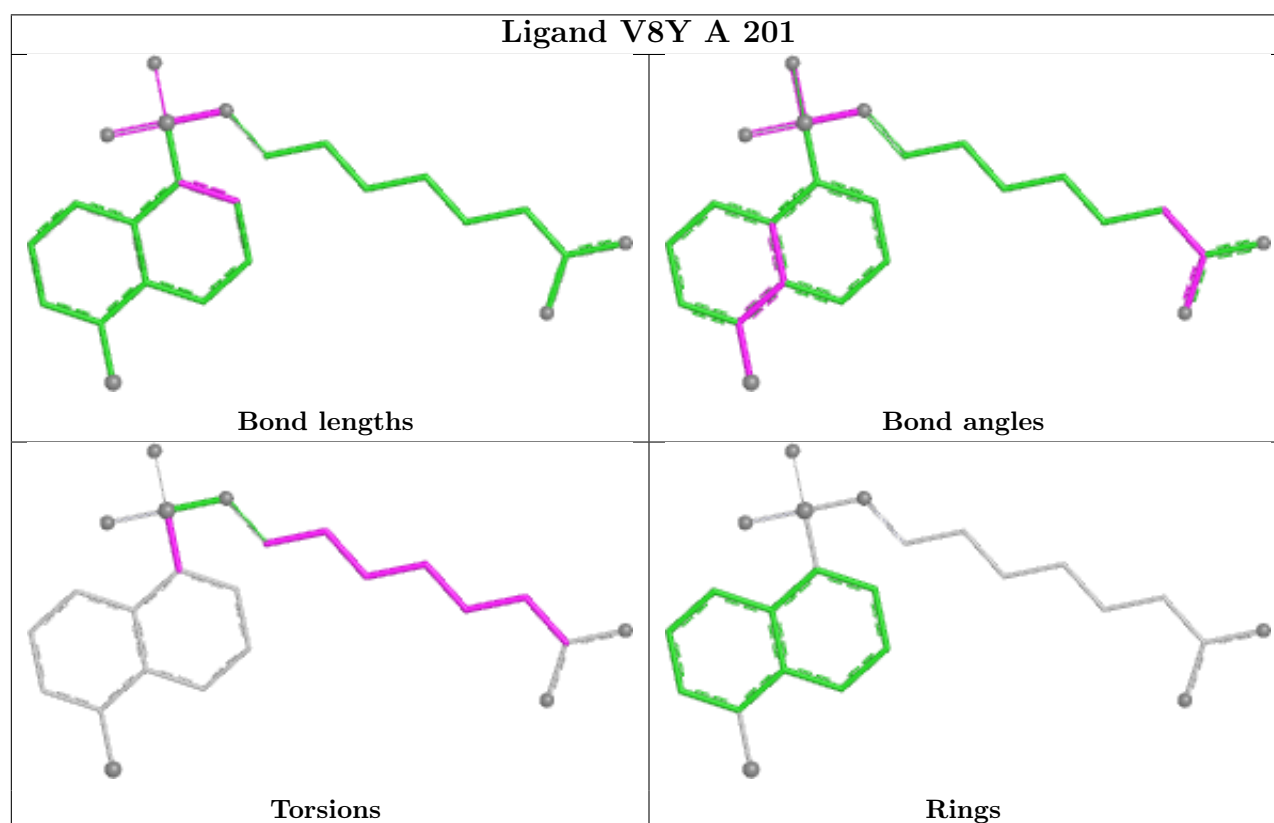
Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	201	V8Y	O2-S1-O1	9.48	108.01	119.52	9	10
3	A	201	V8Y	O2-S1-N1	3.71	112.81	107.03	10	10
3	A	201	V8Y	C10-C5-CL1	3.55	125.28	119.25	3	10
3	A	201	V8Y	C5-C10-C9	2.43	119.38	117.62	10	6
3	A	201	V8Y	C9-C1-S1	2.10	124.13	121.66	9	1
3	A	201	V8Y	O3-C17-C16	2.05	116.61	123.09	10	10

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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 92% for the well-defined parts and 84% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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	1418
Number of shifts mapped to atoms	1418
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	5

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	120	-0.16 ± 0.12	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	111	0.10 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}'$	112	-0.44 ± 0.16	None needed (< 0.5 ppm)
^{15}N	114	0.01 ± 0.43	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 92%, i.e. 1091 atoms were assigned a chemical shift out of a possible 1187. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	449/452 (99%)	184/184 (100%)	177/180 (98%)	88/88 (100%)
Sidechain	612/676 (91%)	419/440 (95%)	193/221 (87%)	0/15 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	30/59 (51%)	15/29 (52%)	15/30 (50%)	0/0 (—%)
Overall	1091/1187 (92%)	618/653 (95%)	385/431 (89%)	88/103 (85%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 84%, i.e. 1418 atoms were assigned a chemical shift out of a possible 1697. 0 out of 17 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	589/628 (94%)	243/256 (95%)	232/250 (93%)	114/122 (93%)
Sidechain	795/958 (83%)	539/618 (87%)	256/302 (85%)	0/38 (0%)
Aromatic	34/111 (31%)	17/58 (29%)	17/47 (36%)	0/6 (0%)
Overall	1418/1697 (84%)	799/932 (86%)	505/599 (84%)	114/166 (69%)

7.1.4 Statistically unusual chemical shifts ⓘ

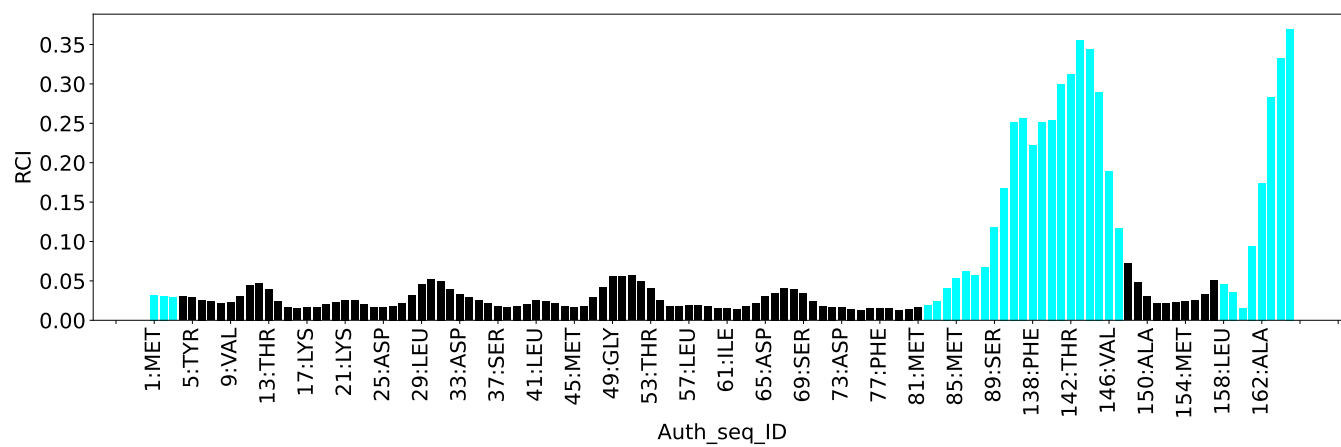
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	159	GLY	HA3	43.99	2.08 – 5.71	110.5
1	A	160	ALA	H	23.13	5.31 – 11.08	25.9
1	A	160	ALA	N	85.33	106.13 – 140.55	-11.0
1	A	17	LYS	CD	37.68	23.50 – 34.42	8.0
1	A	21	LYS	HD3	0.41	0.54 – 2.65	-5.6

7.1.5 Random Coil Index (RCI) plots ⓘ

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	1447
Intra-residue ($ i-j =0$)	623
Sequential ($ i-j =1$)	147
Medium range ($ i-j >1$ and $ i-j <5$)	281
Long range ($ i-j \geq 5$)	386
Inter-chain	10
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	11.4
Number of long range restraints per residue ¹	3.0

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	74.7	0.2
0.2-0.5 (Medium)	145.4	0.5
>0.5 (Large)	114.7	2.55

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

Dihedral-angle violations less than 1° are not included in the calculation. There are no dihedral-angle violations

9 Distance violation analysis ⓘ

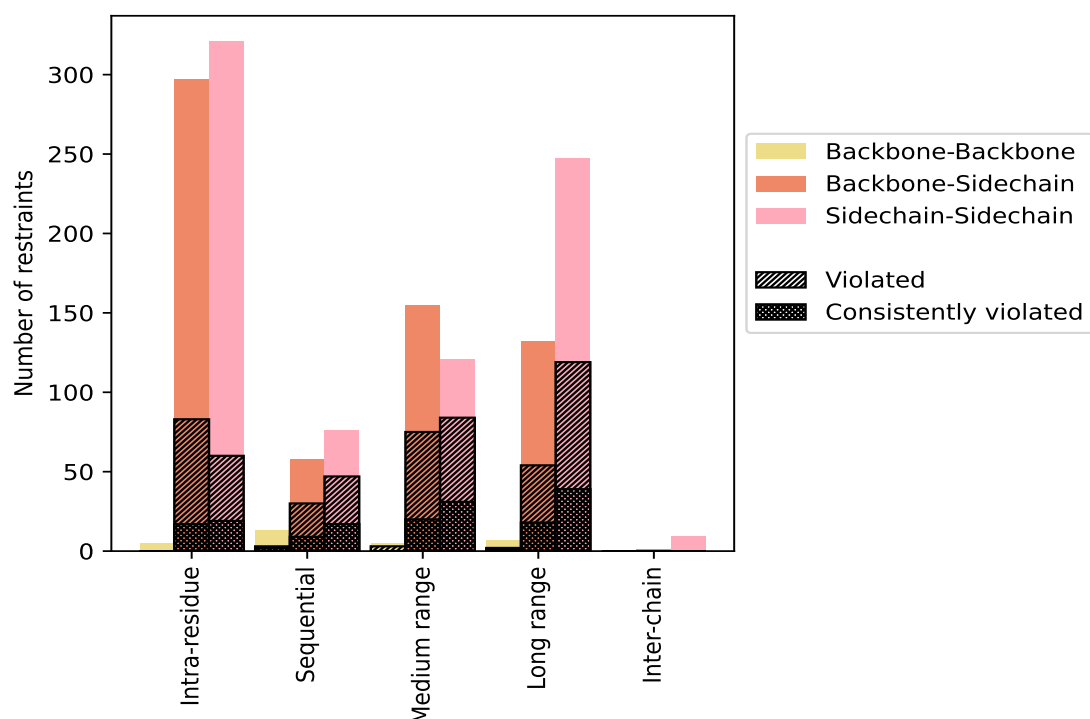
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	623	43.1	143	23.0	9.9	36	5.8	2.5
Backbone-Backbone	5	0.3	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	297	20.5	83	27.9	5.7	17	5.7	1.2
Sidechain-Sidechain	321	22.2	60	18.7	4.1	19	5.9	1.3
Sequential ($i-j =1$)	147	10.2	80	54.4	5.5	28	19.0	1.9
Backbone-Backbone	13	0.9	3	23.1	0.2	2	15.4	0.1
Backbone-Sidechain	58	4.0	30	51.7	2.1	9	15.5	0.6
Sidechain-Sidechain	76	5.3	47	61.8	3.2	17	22.4	1.2
Medium range ($i-j >1$ & $i-j <5$)	281	19.4	162	57.7	11.2	51	18.1	3.5
Backbone-Backbone	5	0.3	3	60.0	0.2	0	0.0	0.0
Backbone-Sidechain	155	10.7	75	48.4	5.2	20	12.9	1.4
Sidechain-Sidechain	121	8.4	84	69.4	5.8	31	25.6	2.1
Long range ($i-j \geq 5$)	386	26.7	175	45.3	12.1	58	15.0	4.0
Backbone-Backbone	7	0.5	2	28.6	0.1	1	14.3	0.1
Backbone-Sidechain	132	9.1	54	40.9	3.7	18	13.6	1.2
Sidechain-Sidechain	247	17.1	119	48.2	8.2	39	15.8	2.7
Inter-chain	10	0.7	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	1	0.1	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	9	0.6	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	1447	100.0	560	38.7	38.7	173	12.0	12.0
Backbone-Backbone	30	2.1	8	26.7	0.6	3	10.0	0.2
Backbone-Sidechain	643	44.4	242	37.6	16.7	64	10.0	4.4
Sidechain-Sidechain	774	53.5	310	40.1	21.4	106	13.7	7.3

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

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



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

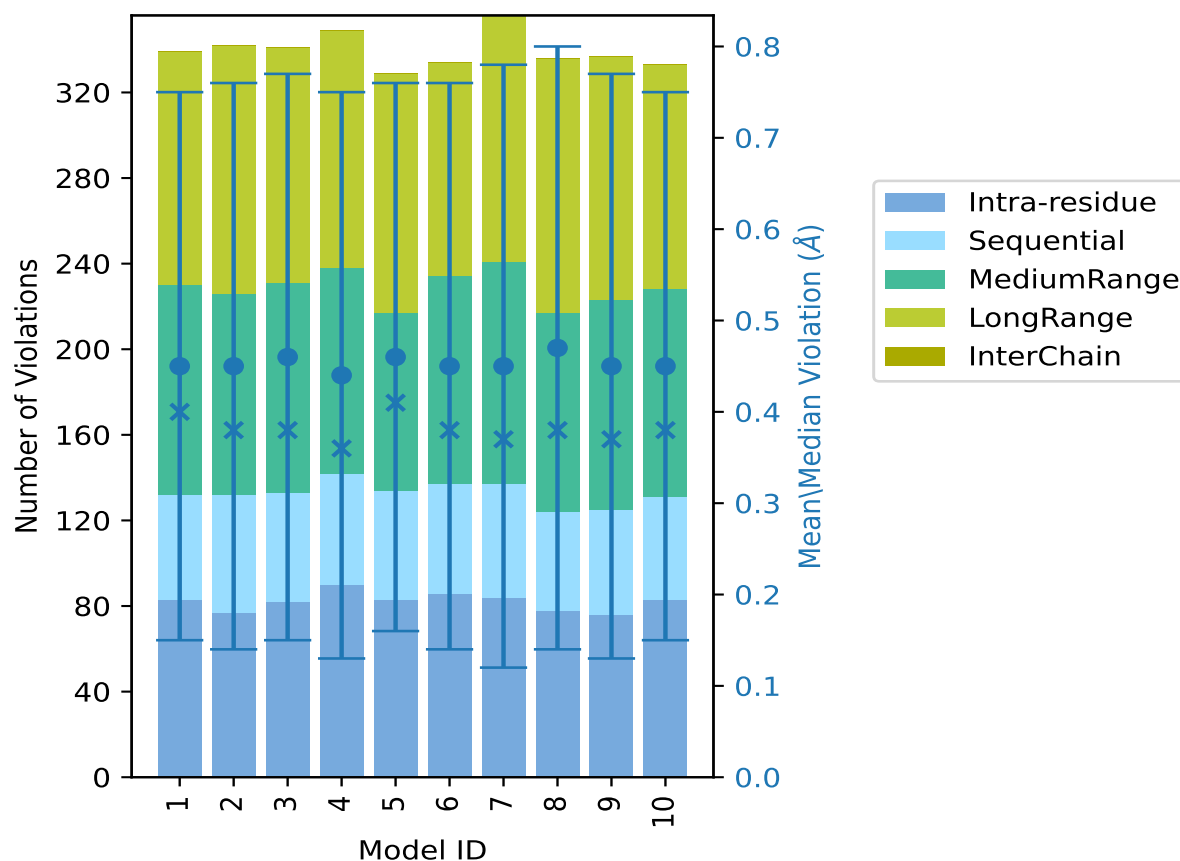
9.2 Distance violation statistics for each model [i](#)

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	83	49	98	109	0	339	0.45	1.81	0.3	0.4
2	77	55	94	116	0	342	0.45	2.55	0.31	0.38
3	82	51	98	110	0	341	0.46	1.88	0.31	0.38
4	90	52	96	111	0	349	0.44	1.94	0.31	0.36
5	83	51	83	112	0	329	0.46	1.94	0.3	0.41
6	86	51	97	100	0	334	0.45	1.81	0.31	0.38
7	84	53	104	115	0	356	0.45	1.76	0.33	0.37
8	78	46	93	119	0	336	0.47	1.87	0.33	0.38
9	76	49	98	114	0	337	0.45	1.83	0.32	0.37
10	83	48	97	105	0	333	0.45	1.89	0.3	0.38

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

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



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

9.3 Distance violation statistics for the ensemble [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, 887(IR:480, SQ:67, MR:119, LR:211, IC:10) 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	%
31	11	23	31	0	96	1	10.0
15	5	20	12	0	52	2	20.0
8	2	14	3	0	27	3	30.0

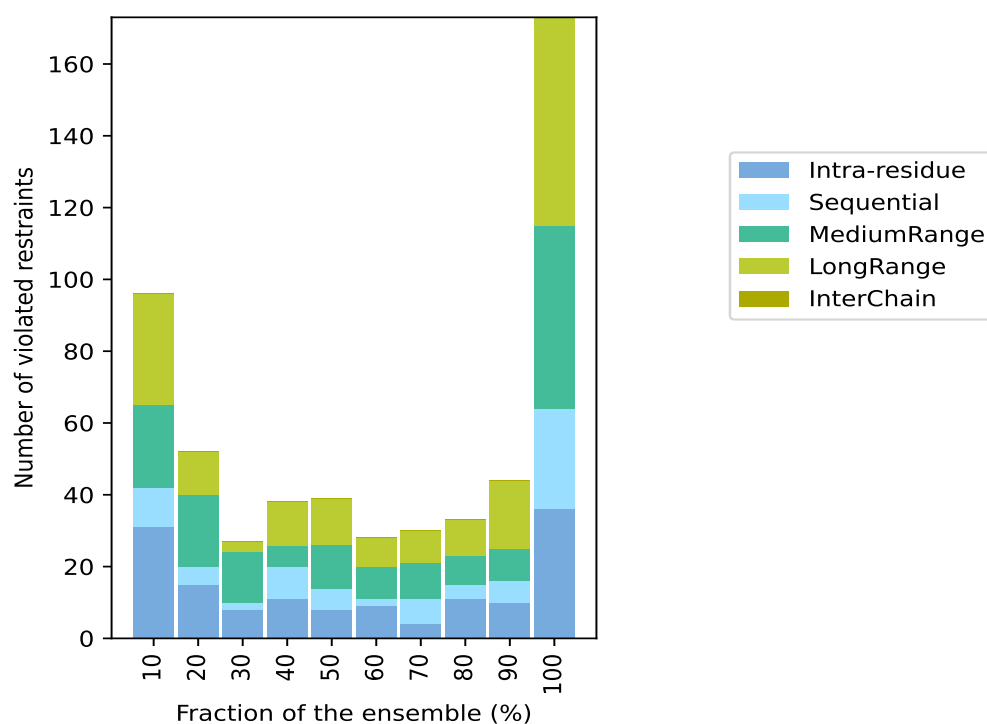
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
11	9	6	12	0	38	4	40.0
8	6	12	13	0	39	5	50.0
9	2	9	8	0	28	6	60.0
4	7	10	9	0	30	7	70.0
11	4	8	10	0	33	8	80.0
10	6	9	19	0	44	9	90.0
36	28	51	58	0	173	10	100.0

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

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

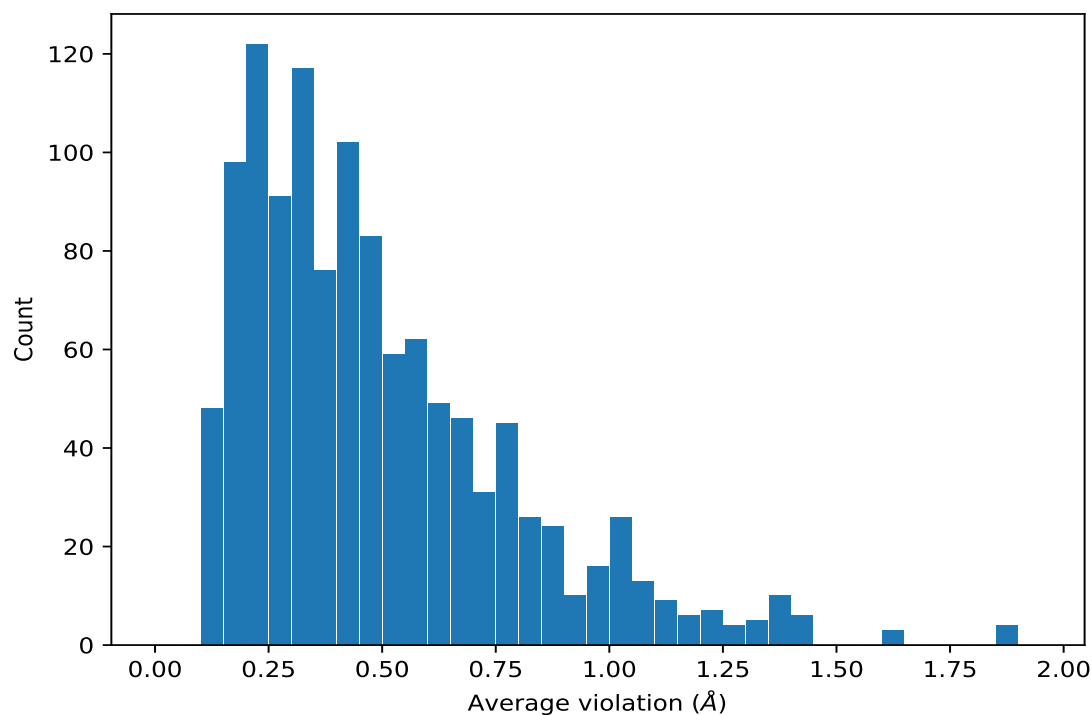


9.4 Most violated distance restraints in the ensemble [i](#)

9.4.1 Histogram : Distribution of mean distance violations [i](#)

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

in the ensemble



9.4.2 Table: Most violated distance restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1389)	1:61:A:ILE:HG22	1:69:A:SER:HB3	10	1.87	0.06	1.88
(2,1389)	1:61:A:ILE:HG23	1:60:A:MET:HA	10	1.87	0.06	1.88
(2,1389)	1:61:A:ILE:HG22	1:60:A:MET:HA	10	1.87	0.06	1.88
(2,1389)	1:61:A:ILE:HG21	1:60:A:MET:HA	10	1.87	0.06	1.88
(2,1040)	1:157:A:LEU:HD21	1:154:A:MET:HB3	10	1.61	0.11	1.66
(2,1040)	1:157:A:LEU:HD22	1:154:A:MET:HB3	10	1.61	0.11	1.66
(2,1040)	1:157:A:LEU:HD23	1:154:A:MET:HB3	10	1.61	0.11	1.66
(2,549)	1:154:A:MET:HE1	1:157:A:LEU:HD21	10	1.44	0.11	1.44
(2,549)	1:154:A:MET:HE1	1:157:A:LEU:HD22	10	1.44	0.11	1.44
(2,549)	1:154:A:MET:HE2	1:157:A:LEU:HD21	10	1.44	0.11	1.44
(2,549)	1:154:A:MET:HE1	1:157:A:LEU:HD23	10	1.44	0.11	1.44
(2,549)	1:154:A:MET:HE2	1:157:A:LEU:HD22	10	1.44	0.11	1.44
(2,549)	1:154:A:MET:HE3	1:157:A:LEU:HD21	10	1.44	0.11	1.44
(2,1422)	1:63:A:GLU:HG2	1:80:A:MET:HE1	10	1.38	0.49	1.34
(2,1422)	1:76:A:GLU:HG3	1:80:A:MET:HE3	10	1.38	0.49	1.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1422)	1:63:A:GLU:HG2	1:80:A:MET:HE2	10	1.38	0.49	1.34
(2,1422)	1:63:A:GLU:HG2	1:80:A:MET:HE3	10	1.38	0.49	1.34
(2,1221)	1:60:A:MET:HG3	1:57:A:LEU:HD13	10	1.36	0.29	1.39
(2,1221)	1:154:A:MET:HG2	1:158:A:LEU:HD23	10	1.36	0.29	1.39
(2,1221)	1:60:A:MET:HG3	1:57:A:LEU:HD12	10	1.36	0.29	1.39
(2,1221)	1:154:A:MET:HG2	1:158:A:LEU:HD21	10	1.36	0.29	1.39
(2,1221)	1:60:A:MET:HG2	1:57:A:LEU:HD12	10	1.36	0.29	1.39
(2,1221)	1:60:A:MET:HG3	1:57:A:LEU:HD11	10	1.36	0.29	1.39
(2,1213)	1:6:A:LYS:HE2	1:78:A:LEU:HD11	10	1.34	0.16	1.34
(2,1213)	1:6:A:LYS:HE3	1:78:A:LEU:HD11	10	1.34	0.16	1.34
(2,1213)	1:6:A:LYS:HE2	1:78:A:LEU:HD13	10	1.34	0.16	1.34
(2,1213)	1:6:A:LYS:HE3	1:78:A:LEU:HD13	10	1.34	0.16	1.34
(2,1213)	1:6:A:LYS:HE2	1:78:A:LEU:HD12	10	1.34	0.16	1.34
(2,1269)	1:154:A:MET:HE1	1:155:A:GLN:HA	10	1.27	0.19	1.23
(2,1269)	1:154:A:MET:HE2	1:155:A:GLN:HA	10	1.27	0.19	1.23
(2,1269)	1:154:A:MET:HE3	1:21:A:LYS:HA	10	1.27	0.19	1.23
(2,1269)	1:154:A:MET:HE3	1:155:A:GLN:HA	10	1.27	0.19	1.23
(2,1404)	1:153:A:MET:HE3	1:24:A:PHE:HA	10	1.22	0.2	1.31
(2,1404)	1:153:A:MET:HE2	1:24:A:PHE:HA	10	1.22	0.2	1.31
(2,615)	1:43:A:LYS:HD3	1:44:A:VAL:HG13	10	1.2	0.19	1.18
(2,615)	1:43:A:LYS:HD2	1:44:A:VAL:HG13	10	1.2	0.19	1.18
(2,615)	1:43:A:LYS:HD3	1:44:A:VAL:HG11	10	1.2	0.19	1.18
(2,615)	1:43:A:LYS:HD3	1:44:A:VAL:HG12	10	1.2	0.19	1.18
(2,615)	1:43:A:LYS:HD2	1:44:A:VAL:HG12	10	1.2	0.19	1.18
(2,1393)	1:26:A:ILE:HD13	1:27:A:PHE:HB2	10	1.15	0.34	1.25
(2,1393)	1:26:A:ILE:HD11	1:27:A:PHE:HB2	10	1.15	0.34	1.25
(2,1393)	1:26:A:ILE:HD12	1:27:A:PHE:HB2	10	1.15	0.34	1.25
(2,1393)	1:26:A:ILE:HD13	1:161:A:ARG:HD2	10	1.15	0.34	1.25
(2,698)	1:7:A:ALA:HB3	1:4:A:ILE:HG21	10	1.1	0.08	1.09
(2,698)	1:7:A:ALA:HB3	1:4:A:ILE:HG23	10	1.1	0.08	1.09
(2,698)	1:7:A:ALA:HB1	1:4:A:ILE:HG23	10	1.1	0.08	1.09
(2,698)	1:7:A:ALA:HB1	1:4:A:ILE:HG22	10	1.1	0.08	1.09
(2,698)	1:7:A:ALA:HB1	1:4:A:ILE:HG21	10	1.1	0.08	1.09
(2,698)	1:7:A:ALA:HB2	1:4:A:ILE:HG21	10	1.1	0.08	1.09
(2,923)	1:44:A:VAL:HG11	1:45:A:MET:HB2	10	1.1	0.09	1.11
(2,923)	1:44:A:VAL:HG12	1:45:A:MET:HB2	10	1.1	0.09	1.11
(2,923)	1:44:A:VAL:HG13	1:45:A:MET:HB2	10	1.1	0.09	1.11
(2,1266)	1:47:A:MET:HE2	1:48:A:LEU:HA	10	1.09	0.09	1.11
(2,1266)	1:47:A:MET:HE1	1:48:A:LEU:HA	10	1.09	0.09	1.11
(2,1266)	1:47:A:MET:HE3	1:48:A:LEU:HA	10	1.09	0.09	1.11
(2,1266)	1:154:A:MET:HA	1:47:A:MET:HE2	10	1.09	0.09	1.11
(2,1266)	1:154:A:MET:HA	1:47:A:MET:HE3	10	1.09	0.09	1.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,167)	1:57:A:LEU:HA	1:57:A:LEU:HD12	10	1.07	0.04	1.08
(2,167)	1:57:A:LEU:HA	1:57:A:LEU:HD13	10	1.07	0.04	1.08
(2,167)	1:57:A:LEU:HA	1:57:A:LEU:HD11	10	1.07	0.04	1.08
(2,1388)	1:61:A:ILE:HD12	1:39:A:LYS:HA	10	1.05	0.26	0.94
(2,1388)	1:61:A:ILE:HD13	1:39:A:LYS:HA	10	1.05	0.26	0.94
(2,1388)	1:61:A:ILE:HD11	1:39:A:LYS:HA	10	1.05	0.26	0.94
(2,1050)	1:45:A:MET:HG2	1:41:A:LEU:HD13	10	1.0	0.19	1.07
(2,1050)	1:45:A:MET:HG2	1:41:A:LEU:HD12	10	1.0	0.19	1.07
(2,1050)	1:45:A:MET:HG3	1:41:A:LEU:HD13	10	1.0	0.19	1.07
(2,1050)	1:45:A:MET:HG3	1:41:A:LEU:HD12	10	1.0	0.19	1.07
(2,1050)	1:45:A:MET:HG2	1:41:A:LEU:HD11	10	1.0	0.19	1.07
(2,907)	1:78:A:LEU:HD13	1:74:A:PHE:HE1	10	1.0	0.06	1.02
(2,907)	1:78:A:LEU:HD12	1:74:A:PHE:HE1	10	1.0	0.06	1.02
(2,907)	1:78:A:LEU:HD11	1:74:A:PHE:HE1	10	1.0	0.06	1.02
(2,1284)	1:45:A:MET:HE2	1:57:A:LEU:HD13	10	1.0	0.18	1.02
(2,1284)	1:45:A:MET:HE3	1:57:A:LEU:HD11	10	1.0	0.18	1.02
(2,1284)	1:45:A:MET:HE1	1:57:A:LEU:HD12	10	1.0	0.18	1.02
(2,1284)	1:45:A:MET:HE3	1:57:A:LEU:HD13	10	1.0	0.18	1.02
(2,1284)	1:45:A:MET:HE1	1:57:A:LEU:HD13	10	1.0	0.18	1.02
(2,1284)	1:45:A:MET:HE2	1:57:A:LEU:HD12	10	1.0	0.18	1.02
(2,1284)	1:45:A:MET:HE3	1:57:A:LEU:HD12	10	1.0	0.18	1.02
(2,1413)	1:78:A:LEU:HD23	1:21:A:LYS:HB2	10	0.99	0.14	1.04
(2,1413)	1:78:A:LEU:HD21	1:21:A:LYS:HB2	10	0.99	0.14	1.04
(2,1413)	1:78:A:LEU:HD21	1:17:A:LYS:HB3	10	0.99	0.14	1.04
(2,1413)	1:78:A:LEU:HD23	1:17:A:LYS:HB2	10	0.99	0.14	1.04
(2,1413)	1:78:A:LEU:HD22	1:21:A:LYS:HB2	10	0.99	0.14	1.04
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HD11	10	0.98	0.16	0.96
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HD13	10	0.98	0.16	0.96
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HG21	10	0.98	0.16	0.96
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HD12	10	0.98	0.16	0.96
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HG23	10	0.98	0.16	0.96
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HG22	10	0.98	0.16	0.96
(2,908)	1:78:A:LEU:HD13	1:74:A:PHE:HD1	10	0.97	0.04	0.96
(2,908)	1:78:A:LEU:HD12	1:74:A:PHE:HD1	10	0.97	0.04	0.96
(2,908)	1:78:A:LEU:HD11	1:74:A:PHE:HD1	10	0.97	0.04	0.96
(2,1016)	1:78:A:LEU:HD22	1:12:A:LEU:HG	10	0.93	0.12	0.97
(2,1016)	1:78:A:LEU:HD21	1:12:A:LEU:HG	10	0.93	0.12	0.97
(2,1396)	1:28:A:VAL:HG11	1:43:A:LYS:HD2	10	0.9	0.5	0.94
(2,1396)	1:28:A:VAL:HG13	1:43:A:LYS:HD2	10	0.9	0.5	0.94
(2,1396)	1:28:A:VAL:HG12	1:43:A:LYS:HD2	10	0.9	0.5	0.94
(2,1329)	1:5:A:TYR:HA	1:9:A:VAL:HG22	10	0.88	0.08	0.88
(2,1329)	1:5:A:TYR:HA	1:9:A:VAL:HG23	10	0.88	0.08	0.88

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1329)	1:5:A:TYR:HA	1:79:A:VAL:HG23	10	0.88	0.08	0.88
(2,1329)	1:5:A:TYR:HA	1:9:A:VAL:HG21	10	0.88	0.08	0.88
(2,1193)	1:80:A:MET:HA	1:64:A:VAL:HG21	10	0.87	0.16	0.87
(2,1193)	1:80:A:MET:HA	1:82:A:VAL:HG12	10	0.87	0.16	0.87
(2,1193)	1:80:A:MET:HA	1:82:A:VAL:HG13	10	0.87	0.16	0.87
(2,1193)	1:80:A:MET:HA	1:82:A:VAL:HG11	10	0.87	0.16	0.87
(2,1347)	1:38:A:THR:HG21	1:57:A:LEU:HD11	10	0.87	0.18	0.86
(2,1347)	1:38:A:THR:HG21	1:57:A:LEU:HD12	10	0.87	0.18	0.86
(2,1347)	1:38:A:THR:HG21	1:57:A:LEU:HD13	10	0.87	0.18	0.86
(2,1347)	1:38:A:THR:HG23	1:57:A:LEU:HD11	10	0.87	0.18	0.86
(2,1347)	1:38:A:THR:HG22	1:57:A:LEU:HD11	10	0.87	0.18	0.86
(2,1347)	1:38:A:THR:HG23	1:57:A:LEU:HD13	10	0.87	0.18	0.86
(2,1347)	1:38:A:THR:HG23	1:57:A:LEU:HD12	10	0.87	0.18	0.86
(2,1022)	1:35:A:SER:HA	1:31:A:ALA:HB2	10	0.85	0.07	0.84
(2,1022)	1:35:A:SER:HA	1:31:A:ALA:HB1	10	0.85	0.07	0.84
(2,979)	1:44:A:VAL:HG12	1:27:A:PHE:HB3	10	0.85	0.07	0.85
(2,979)	1:44:A:VAL:HG13	1:27:A:PHE:HB3	10	0.85	0.07	0.85
(2,979)	1:44:A:VAL:HG11	1:27:A:PHE:HB3	10	0.85	0.07	0.85
(2,1174)	1:150:A:ALA:HA	1:148:A:ILE:HD12	10	0.84	0.28	0.98
(2,1174)	1:150:A:ALA:HA	1:148:A:ILE:HD13	10	0.84	0.28	0.98
(2,1174)	1:150:A:ALA:HA	1:148:A:ILE:HD11	10	0.84	0.28	0.98
(2,1432)	1:62:A:ASP:HB3	1:61:A:ILE:HG21	10	0.84	0.13	0.82
(2,1432)	1:62:A:ASP:HB3	1:61:A:ILE:HG23	10	0.84	0.13	0.82
(2,1432)	1:62:A:ASP:HB3	1:61:A:ILE:HG22	10	0.84	0.13	0.82
(2,1207)	1:6:A:LYS:HE3	1:3:A:ASP:HA	10	0.81	0.2	0.74
(2,1207)	1:6:A:LYS:HE2	1:3:A:ASP:HA	10	0.81	0.2	0.74
(2,1434)	1:83:A:ARG:HA	1:85:A:MET:HB2	10	0.81	0.11	0.82
(2,1434)	1:83:A:ARG:HA	1:82:A:VAL:HB	10	0.81	0.11	0.82
(2,1277)	1:23:A:ALA:HB2	1:26:A:ILE:HD13	10	0.81	0.07	0.82
(2,1277)	1:23:A:ALA:HB3	1:158:A:LEU:HD23	10	0.81	0.07	0.82
(2,1277)	1:23:A:ALA:HB3	1:26:A:ILE:HD12	10	0.81	0.07	0.82
(2,1277)	1:23:A:ALA:HB3	1:26:A:ILE:HD11	10	0.81	0.07	0.82
(2,1277)	1:23:A:ALA:HB2	1:26:A:ILE:HD12	10	0.81	0.07	0.82
(2,1277)	1:23:A:ALA:HB1	1:26:A:ILE:HD11	10	0.81	0.07	0.82
(2,1277)	1:23:A:ALA:HB1	1:26:A:ILE:HD12	10	0.81	0.07	0.82
(2,695)	1:10:A:GLU:HB2	1:7:A:ALA:HB2	10	0.8	0.11	0.78
(2,695)	1:10:A:GLU:HB2	1:7:A:ALA:HB1	10	0.8	0.11	0.78
(2,695)	1:10:A:GLU:HB2	1:7:A:ALA:HB3	10	0.8	0.11	0.78
(2,695)	1:10:A:GLU:HB3	1:7:A:ALA:HB3	10	0.8	0.11	0.78
(2,695)	1:10:A:GLU:HB3	1:7:A:ALA:HB2	10	0.8	0.11	0.78
(2,695)	1:10:A:GLU:HB3	1:7:A:ALA:HB1	10	0.8	0.11	0.78
(2,417)	1:155:A:GLN:HG3	1:152:A:ALA:HB1	10	0.8	0.1	0.82

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,417)	1:155:A:GLN:HG3	1:152:A:ALA:HB3	10	0.8	0.1	0.82
(2,417)	1:155:A:GLN:HG3	1:152:A:ALA:HB2	10	0.8	0.1	0.82
(2,783)	1:9:A:VAL:HG13	1:78:A:LEU:HD23	10	0.79	0.15	0.76
(2,783)	1:9:A:VAL:HG12	1:78:A:LEU:HD23	10	0.79	0.15	0.76
(2,783)	1:9:A:VAL:HG12	1:78:A:LEU:HD21	10	0.79	0.15	0.76
(2,783)	1:9:A:VAL:HG11	1:78:A:LEU:HD21	10	0.79	0.15	0.76
(2,783)	1:9:A:VAL:HG11	1:78:A:LEU:HD22	10	0.79	0.15	0.76
(2,1248)	1:50:A:GLN:HG2	1:48:A:LEU:HD13	10	0.78	0.17	0.73
(2,1248)	1:50:A:GLN:HG2	1:48:A:LEU:HD12	10	0.78	0.17	0.73
(2,1248)	1:50:A:GLN:HG3	1:48:A:LEU:HD13	10	0.78	0.17	0.73
(2,1248)	1:50:A:GLN:HG2	1:48:A:LEU:HD11	10	0.78	0.17	0.73
(2,1248)	1:50:A:GLN:HG2	1:48:A:LEU:HD23	10	0.78	0.17	0.73
(2,1248)	1:50:A:GLN:HG3	1:48:A:LEU:HD21	10	0.78	0.17	0.73
(2,1223)	1:73:A:ASP:HB2	1:72:A:VAL:HG22	10	0.77	0.13	0.78
(2,1223)	1:2:A:ASP:HB3	1:79:A:VAL:HG21	10	0.77	0.13	0.78
(2,1223)	1:73:A:ASP:HB2	1:72:A:VAL:HG23	10	0.77	0.13	0.78
(2,1223)	1:2:A:ASP:HB3	1:79:A:VAL:HG22	10	0.77	0.13	0.78
(2,1223)	1:2:A:ASP:HB3	1:79:A:VAL:HG23	10	0.77	0.13	0.78
(2,1258)	1:85:A:MET:HE3	1:82:A:VAL:HG21	10	0.77	0.17	0.83
(2,1258)	1:85:A:MET:HE1	1:82:A:VAL:HG23	10	0.77	0.17	0.83
(2,1258)	1:85:A:MET:HE2	1:82:A:VAL:HG22	10	0.77	0.17	0.83
(2,1258)	1:85:A:MET:HE1	1:82:A:VAL:HG21	10	0.77	0.17	0.83
(2,1258)	1:85:A:MET:HE2	1:82:A:VAL:HG21	10	0.77	0.17	0.83
(2,1258)	1:85:A:MET:HE2	1:82:A:VAL:HG23	10	0.77	0.17	0.83
(2,1257)	1:85:A:MET:HE1	1:8:A:ALA:HB2	10	0.76	0.16	0.8
(2,1257)	1:85:A:MET:HE3	1:8:A:ALA:HB1	10	0.76	0.16	0.8
(2,1257)	1:85:A:MET:HE2	1:8:A:ALA:HB1	10	0.76	0.16	0.8
(2,1257)	1:85:A:MET:HE1	1:8:A:ALA:HB1	10	0.76	0.16	0.8
(2,1257)	1:85:A:MET:HE2	1:8:A:ALA:HB2	10	0.76	0.16	0.8
(2,1257)	1:85:A:MET:HE1	1:8:A:ALA:HB3	10	0.76	0.16	0.8
(2,1257)	1:85:A:MET:HE2	1:8:A:ALA:HB3	10	0.76	0.16	0.8
(2,1161)	1:38:A:THR:HB	1:57:A:LEU:HD23	10	0.76	0.25	0.73
(2,1161)	1:38:A:THR:HB	1:61:A:ILE:HD13	10	0.76	0.25	0.73
(2,1161)	1:38:A:THR:HB	1:61:A:ILE:HD11	10	0.76	0.25	0.73
(2,1161)	1:38:A:THR:HB	1:61:A:ILE:HD12	10	0.76	0.25	0.73
(2,1161)	1:38:A:THR:HB	1:57:A:LEU:HD21	10	0.76	0.25	0.73
(2,1242)	1:19:A:GLU:HB2	1:158:A:LEU:HD13	10	0.75	0.21	0.7
(2,1242)	1:19:A:GLU:HB2	1:158:A:LEU:HD11	10	0.75	0.21	0.7
(2,1242)	1:19:A:GLU:HB2	1:158:A:LEU:HD12	10	0.75	0.21	0.7
(2,702)	1:54:A:PRO:HD3	1:53:A:THR:HG23	10	0.74	0.06	0.73
(2,702)	1:54:A:PRO:HD2	1:53:A:THR:HG21	10	0.74	0.06	0.73
(2,702)	1:54:A:PRO:HD3	1:53:A:THR:HG21	10	0.74	0.06	0.73

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,702)	1:54:A:PRO:HD3	1:53:A:THR:HG22	10	0.74	0.06	0.73
(2,702)	1:54:A:PRO:HD2	1:53:A:THR:HG23	10	0.74	0.06	0.73
(2,870)	1:4:A:ILE:HD12	1:7:A:ALA:HB3	10	0.73	0.1	0.74
(2,870)	1:4:A:ILE:HD13	1:7:A:ALA:HB3	10	0.73	0.1	0.74
(2,870)	1:4:A:ILE:HD13	1:7:A:ALA:HB1	10	0.73	0.1	0.74
(2,870)	1:4:A:ILE:HD11	1:7:A:ALA:HB1	10	0.73	0.1	0.74
(2,870)	1:4:A:ILE:HD12	1:7:A:ALA:HB1	10	0.73	0.1	0.74
(2,870)	1:4:A:ILE:HD11	1:7:A:ALA:HB2	10	0.73	0.1	0.74
(2,870)	1:4:A:ILE:HD11	1:7:A:ALA:HB3	10	0.73	0.1	0.74
(2,140)	1:54:A:PRO:HA	1:57:A:LEU:HD23	10	0.71	0.12	0.73
(2,140)	1:54:A:PRO:HA	1:57:A:LEU:HD21	10	0.71	0.12	0.73
(2,1405)	1:20:A:PHE:HA	1:158:A:LEU:HD12	10	0.71	0.25	0.69
(2,1405)	1:20:A:PHE:HA	1:158:A:LEU:HD11	10	0.71	0.25	0.69
(2,1405)	1:20:A:PHE:HA	1:158:A:LEU:HD13	10	0.71	0.25	0.69
(2,1405)	1:20:A:PHE:HA	1:12:A:LEU:HD11	10	0.71	0.25	0.69
(2,1313)	1:41:A:LEU:HB3	1:38:A:THR:HG21	10	0.7	0.14	0.68
(2,1313)	1:41:A:LEU:HB3	1:38:A:THR:HG23	10	0.7	0.14	0.68
(2,1313)	1:41:A:LEU:HB3	1:38:A:THR:HG22	10	0.7	0.14	0.68
(2,1313)	1:38:A:THR:HG21	1:57:A:LEU:HG	10	0.7	0.14	0.68
(2,60)	1:3:A:ASP:HA	1:7:A:ALA:HB1	10	0.7	0.14	0.69
(2,60)	1:3:A:ASP:HA	1:7:A:ALA:HB3	10	0.7	0.14	0.69
(2,60)	1:3:A:ASP:HA	1:7:A:ALA:HB2	10	0.7	0.14	0.69
(2,1412)	1:79:A:VAL:HA	1:6:A:LYS:HA	10	0.69	0.14	0.66
(2,1371)	1:79:A:VAL:HG12	1:83:A:ARG:HB3	10	0.69	0.15	0.65
(2,1371)	1:79:A:VAL:HG11	1:83:A:ARG:HB3	10	0.69	0.15	0.65
(2,1371)	1:79:A:VAL:HG13	1:83:A:ARG:HB3	10	0.69	0.15	0.65
(2,218)	1:4:A:ILE:HA	1:4:A:ILE:HG22	10	0.69	0.01	0.69
(2,218)	1:4:A:ILE:HA	1:4:A:ILE:HG21	10	0.69	0.01	0.69
(2,218)	1:4:A:ILE:HA	1:4:A:ILE:HG23	10	0.69	0.01	0.69
(2,903)	1:4:A:ILE:HG22	1:6:A:LYS:HB3	10	0.68	0.17	0.74
(2,903)	1:4:A:ILE:HG21	1:6:A:LYS:HB2	10	0.68	0.17	0.74
(2,903)	1:4:A:ILE:HG23	1:6:A:LYS:HB3	10	0.68	0.17	0.74
(2,903)	1:4:A:ILE:HG23	1:6:A:LYS:HB2	10	0.68	0.17	0.74
(2,903)	1:4:A:ILE:HG22	1:6:A:LYS:HB2	10	0.68	0.17	0.74
(2,903)	1:4:A:ILE:HG21	1:6:A:LYS:HB3	10	0.68	0.17	0.74
(2,670)	1:8:A:ALA:HB3	1:5:A:TYR:HB2	10	0.68	0.08	0.65
(2,670)	1:8:A:ALA:HB2	1:5:A:TYR:HB2	10	0.68	0.08	0.65
(2,670)	1:8:A:ALA:HB1	1:5:A:TYR:HB2	10	0.68	0.08	0.65
(2,699)	1:13:A:THR:HG22	1:12:A:LEU:HD21	10	0.67	0.1	0.66
(2,699)	1:13:A:THR:HG23	1:12:A:LEU:HD22	10	0.67	0.1	0.66
(2,699)	1:13:A:THR:HG21	1:12:A:LEU:HD22	10	0.67	0.1	0.66
(2,699)	1:13:A:THR:HG23	1:12:A:LEU:HD23	10	0.67	0.1	0.66

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,699)	1:13:A:THR:HG22	1:12:A:LEU:HD22	10	0.67	0.1	0.66
(2,699)	1:13:A:THR:HG21	1:12:A:LEU:HD23	10	0.67	0.1	0.66
(2,226)	1:82:A:VAL:HA	1:82:A:VAL:HG12	10	0.66	0.06	0.68
(2,226)	1:82:A:VAL:HA	1:82:A:VAL:HG13	10	0.66	0.06	0.68
(2,226)	1:82:A:VAL:HA	1:82:A:VAL:HG11	10	0.66	0.06	0.68
(2,1400)	1:47:A:MET:HE3	1:27:A:PHE:HA	10	0.66	0.24	0.65
(2,1400)	1:47:A:MET:HE1	1:27:A:PHE:HA	10	0.66	0.24	0.65
(2,1400)	1:47:A:MET:HE2	1:27:A:PHE:HA	10	0.66	0.24	0.65
(2,1005)	1:8:A:ALA:HB3	1:79:A:VAL:HA	10	0.65	0.13	0.68
(2,1005)	1:8:A:ALA:HB2	1:79:A:VAL:HA	10	0.65	0.13	0.68
(2,1005)	1:8:A:ALA:HB1	1:79:A:VAL:HA	10	0.65	0.13	0.68
(2,392)	1:3:A:ASP:HB2	1:6:A:LYS:HB3	10	0.65	0.14	0.66
(2,392)	1:3:A:ASP:HB2	1:6:A:LYS:HB2	10	0.65	0.14	0.66
(2,1200)	1:52:A:PRO:HD2	1:50:A:GLN:HB2	10	0.64	0.19	0.66
(2,1200)	1:52:A:PRO:HD2	1:52:A:PRO:HB2	10	0.64	0.19	0.66
(2,1430)	1:157:A:LEU:HD23	1:27:A:PHE:HA	10	0.64	0.17	0.63
(2,1430)	1:157:A:LEU:HD22	1:27:A:PHE:HA	10	0.64	0.17	0.63
(2,1430)	1:157:A:LEU:HD21	1:27:A:PHE:HA	10	0.64	0.17	0.63
(2,503)	1:85:A:MET:HE1	1:81:A:MET:HG3	10	0.63	0.08	0.61
(2,503)	1:85:A:MET:HE2	1:81:A:MET:HG3	10	0.63	0.08	0.61
(2,503)	1:85:A:MET:HE3	1:81:A:MET:HG3	10	0.63	0.08	0.61
(2,1234)	1:10:A:GLU:HG2	1:9:A:VAL:HG11	10	0.62	0.17	0.58
(2,1234)	1:10:A:GLU:HG2	1:9:A:VAL:HG13	10	0.62	0.17	0.58
(2,1234)	1:63:A:GLU:HG2	1:64:A:VAL:HG21	10	0.62	0.17	0.58
(2,1234)	1:63:A:GLU:HG2	1:64:A:VAL:HG23	10	0.62	0.17	0.58
(2,1234)	1:10:A:GLU:HG2	1:9:A:VAL:HG12	10	0.62	0.17	0.58
(2,1234)	1:76:A:GLU:HG3	1:72:A:VAL:HG22	10	0.62	0.17	0.58
(2,1197)	1:24:A:PHE:HA	1:77:A:PHE:HE1	10	0.62	0.12	0.64
(2,97)	1:25:A:ASP:HA	1:28:A:VAL:HG13	10	0.62	0.04	0.64
(2,97)	1:25:A:ASP:HA	1:28:A:VAL:HG12	10	0.62	0.04	0.64
(2,97)	1:25:A:ASP:HA	1:28:A:VAL:HG11	10	0.62	0.04	0.64
(2,848)	1:38:A:THR:HG23	1:61:A:ILE:HG22	10	0.62	0.22	0.58
(2,848)	1:38:A:THR:HG23	1:61:A:ILE:HG21	10	0.62	0.22	0.58
(2,848)	1:38:A:THR:HG23	1:61:A:ILE:HG23	10	0.62	0.22	0.58
(2,848)	1:38:A:THR:HG22	1:61:A:ILE:HG21	10	0.62	0.22	0.58
(2,848)	1:38:A:THR:HG21	1:61:A:ILE:HG21	10	0.62	0.22	0.58
(2,848)	1:38:A:THR:HG22	1:61:A:ILE:HG22	10	0.62	0.22	0.58
(2,848)	1:38:A:THR:HG22	1:61:A:ILE:HG23	10	0.62	0.22	0.58
(2,1335)	1:64:A:VAL:HG22	1:76:A:GLU:HA	10	0.62	0.13	0.62
(2,1335)	1:64:A:VAL:HG23	1:76:A:GLU:HA	10	0.62	0.13	0.62
(2,547)	1:154:A:MET:HE3	1:81:A:MET:HG2	10	0.62	0.19	0.6
(2,547)	1:154:A:MET:HE1	1:81:A:MET:HG2	10	0.62	0.19	0.6

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,547)	1:154:A:MET:HE2	1:81:A:MET:HG2	10	0.62	0.19	0.6
(2,736)	1:82:A:VAL:HG22	1:5:A:TYR:HE1	10	0.61	0.05	0.62
(2,736)	1:82:A:VAL:HG21	1:5:A:TYR:HE1	10	0.61	0.05	0.62
(2,736)	1:82:A:VAL:HG23	1:5:A:TYR:HE1	10	0.61	0.05	0.62
(2,850)	1:4:A:ILE:HD13	1:5:A:TYR:HD1	10	0.6	0.14	0.57
(2,850)	1:4:A:ILE:HD11	1:5:A:TYR:HD1	10	0.6	0.14	0.57
(2,850)	1:4:A:ILE:HD12	1:5:A:TYR:HD1	10	0.6	0.14	0.57
(2,275)	1:44:A:VAL:HA	1:157:A:LEU:HD23	10	0.58	0.11	0.55
(2,275)	1:44:A:VAL:HA	1:157:A:LEU:HD22	10	0.58	0.11	0.55
(2,275)	1:44:A:VAL:HA	1:157:A:LEU:HD21	10	0.58	0.11	0.55
(2,841)	1:79:A:VAL:HA	1:64:A:VAL:HG13	10	0.58	0.1	0.63
(2,841)	1:79:A:VAL:HA	1:64:A:VAL:HG11	10	0.58	0.1	0.63
(2,841)	1:79:A:VAL:HA	1:64:A:VAL:HG12	10	0.58	0.1	0.63
(2,1186)	1:16:A:GLN:HA	1:15:A:GLU:HB3	10	0.58	0.11	0.64
(2,1186)	1:16:A:GLN:HA	1:19:A:GLU:HB3	10	0.58	0.11	0.64
(2,1035)	1:57:A:LEU:HB2	1:57:A:LEU:HD23	10	0.57	0.03	0.58
(2,1035)	1:57:A:LEU:HB2	1:57:A:LEU:HD21	10	0.57	0.03	0.58
(2,697)	1:7:A:ALA:HB3	1:4:A:ILE:HG12	10	0.57	0.07	0.54
(2,697)	1:7:A:ALA:HB1	1:4:A:ILE:HG12	10	0.57	0.07	0.54
(2,697)	1:7:A:ALA:HB2	1:4:A:ILE:HG12	10	0.57	0.07	0.54
(2,1204)	1:147:A:ARG:HD2	1:147:A:ARG:HG3	10	0.56	0.07	0.52
(2,1204)	1:161:A:ARG:HD3	1:161:A:ARG:HG2	10	0.56	0.07	0.52
(2,696)	1:6:A:LYS:HB3	1:7:A:ALA:HB1	10	0.56	0.2	0.52
(2,696)	1:6:A:LYS:HB2	1:7:A:ALA:HB3	10	0.56	0.2	0.52
(2,696)	1:6:A:LYS:HB3	1:7:A:ALA:HB2	10	0.56	0.2	0.52
(2,696)	1:6:A:LYS:HB3	1:7:A:ALA:HB3	10	0.56	0.2	0.52
(2,867)	1:4:A:ILE:HB	1:4:A:ILE:HD13	10	0.56	0.02	0.56
(2,867)	1:4:A:ILE:HB	1:4:A:ILE:HD11	10	0.56	0.02	0.56
(2,867)	1:4:A:ILE:HB	1:4:A:ILE:HD12	10	0.56	0.02	0.56
(2,1312)	1:38:A:THR:HG23	1:70:A:GLY:HA2	10	0.55	0.17	0.56
(2,1312)	1:38:A:THR:HG22	1:70:A:GLY:HA2	10	0.55	0.17	0.56
(2,1312)	1:38:A:THR:HG21	1:70:A:GLY:HA2	10	0.55	0.17	0.56
(2,1312)	1:38:A:THR:HG21	1:61:A:ILE:HA	10	0.55	0.17	0.56
(2,1312)	1:38:A:THR:HG23	1:61:A:ILE:HA	10	0.55	0.17	0.56
(2,45)	1:65:A:ASP:HA	1:61:A:ILE:HG23	10	0.55	0.13	0.55
(2,45)	1:65:A:ASP:HA	1:61:A:ILE:HG22	10	0.55	0.13	0.55
(2,45)	1:65:A:ASP:HA	1:61:A:ILE:HG21	10	0.55	0.13	0.55
(2,948)	1:61:A:ILE:HA	1:36:A:ILE:HG23	10	0.55	0.11	0.57
(2,948)	1:61:A:ILE:HA	1:36:A:ILE:HG21	10	0.55	0.11	0.57
(2,948)	1:61:A:ILE:HA	1:36:A:ILE:HG22	10	0.55	0.11	0.57
(2,1375)	1:78:A:LEU:HD13	1:77:A:PHE:HE1	10	0.55	0.07	0.57
(2,1375)	1:78:A:LEU:HD12	1:77:A:PHE:HE1	10	0.55	0.07	0.57

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1375)	1:78:A:LEU:HD11	1:77:A:PHE:HE1	10	0.55	0.07	0.57
(2,879)	1:78:A:LEU:HD21	1:77:A:PHE:HD1	10	0.54	0.1	0.56
(2,879)	1:78:A:LEU:HD22	1:77:A:PHE:HD1	10	0.54	0.1	0.56
(2,879)	1:78:A:LEU:HD23	1:77:A:PHE:HD1	10	0.54	0.1	0.56
(2,1383)	1:36:A:ILE:HD12	1:28:A:VAL:HG21	10	0.54	0.21	0.52
(2,1383)	1:36:A:ILE:HD12	1:28:A:VAL:HG22	10	0.54	0.21	0.52
(2,1383)	1:36:A:ILE:HD13	1:28:A:VAL:HG23	10	0.54	0.21	0.52
(2,1383)	1:36:A:ILE:HD13	1:28:A:VAL:HG22	10	0.54	0.21	0.52
(2,1383)	1:36:A:ILE:HD11	1:28:A:VAL:HG22	10	0.54	0.21	0.52
(2,1272)	1:52:A:PRO:HB3	1:57:A:LEU:HD13	10	0.54	0.11	0.52
(2,1272)	1:52:A:PRO:HB3	1:57:A:LEU:HD11	10	0.54	0.11	0.52
(2,1272)	1:52:A:PRO:HB3	1:57:A:LEU:HD12	10	0.54	0.11	0.52
(2,467)	1:63:A:GLU:HB2	1:64:A:VAL:HG12	10	0.54	0.07	0.54
(2,467)	1:63:A:GLU:HB2	1:64:A:VAL:HG11	10	0.54	0.07	0.54
(2,145)	1:40:A:GLU:HA	1:31:A:ALA:HB3	10	0.54	0.07	0.53
(2,145)	1:40:A:GLU:HA	1:31:A:ALA:HB2	10	0.54	0.07	0.53
(2,145)	1:40:A:GLU:HA	1:31:A:ALA:HB1	10	0.54	0.07	0.53
(2,1177)	1:153:A:MET:HA	1:156:A:ALA:HB3	10	0.53	0.19	0.46
(2,1177)	1:153:A:MET:HA	1:156:A:ALA:HB2	10	0.53	0.19	0.46
(2,1177)	1:153:A:MET:HA	1:156:A:ALA:HB1	10	0.53	0.19	0.46
(2,304)	1:20:A:PHE:HB3	1:74:A:PHE:HE1	10	0.51	0.07	0.52
(2,304)	1:20:A:PHE:HB2	1:74:A:PHE:HE1	10	0.51	0.07	0.52
(2,892)	1:28:A:VAL:HA	1:28:A:VAL:HG23	10	0.51	0.02	0.5
(2,892)	1:28:A:VAL:HA	1:28:A:VAL:HG21	10	0.51	0.02	0.5
(2,892)	1:28:A:VAL:HA	1:28:A:VAL:HG22	10	0.51	0.02	0.5
(2,875)	1:79:A:VAL:HG13	1:64:A:VAL:HB	10	0.51	0.1	0.5
(2,875)	1:79:A:VAL:HG11	1:64:A:VAL:HB	10	0.51	0.1	0.5
(2,875)	1:79:A:VAL:HG12	1:64:A:VAL:HB	10	0.51	0.1	0.5
(2,944)	1:72:A:VAL:HB	1:36:A:ILE:HD13	10	0.51	0.14	0.49
(2,944)	1:72:A:VAL:HB	1:36:A:ILE:HD11	10	0.51	0.14	0.49
(2,944)	1:72:A:VAL:HB	1:36:A:ILE:HD12	10	0.51	0.14	0.49
(2,982)	1:153:A:MET:HE2	1:44:A:VAL:HG23	10	0.5	0.1	0.46
(2,982)	1:153:A:MET:HE2	1:44:A:VAL:HG21	10	0.5	0.1	0.46
(2,982)	1:153:A:MET:HE2	1:44:A:VAL:HG22	10	0.5	0.1	0.46
(2,1180)	1:42:A:GLY:HA3	1:52:A:PRO:HG3	10	0.5	0.32	0.42
(2,1180)	1:42:A:GLY:HA3	1:45:A:MET:HE1	10	0.5	0.32	0.42
(2,1301)	1:151:A:ASP:HB2	1:152:A:ALA:HB3	10	0.49	0.14	0.42
(2,1301)	1:151:A:ASP:HB2	1:152:A:ALA:HB2	10	0.49	0.14	0.42
(2,1301)	1:151:A:ASP:HB3	1:152:A:ALA:HB1	10	0.49	0.14	0.42
(2,1301)	1:151:A:ASP:HB3	1:152:A:ALA:HB2	10	0.49	0.14	0.42
(2,1301)	1:151:A:ASP:HB3	1:152:A:ALA:HB3	10	0.49	0.14	0.42
(2,1301)	1:151:A:ASP:HB2	1:152:A:ALA:HB1	10	0.49	0.14	0.42

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,983)	1:154:A:MET:HE3	1:20:A:PHE:HB3	10	0.48	0.17	0.52
(2,983)	1:154:A:MET:HE1	1:20:A:PHE:HB3	10	0.48	0.17	0.52
(2,983)	1:154:A:MET:HE2	1:20:A:PHE:HB3	10	0.48	0.17	0.52
(2,1353)	1:26:A:ILE:HG13	1:26:A:ILE:HG23	10	0.48	0.08	0.47
(2,1353)	1:26:A:ILE:HG13	1:26:A:ILE:HG21	10	0.48	0.08	0.47
(2,1353)	1:26:A:ILE:HG13	1:26:A:ILE:HG22	10	0.48	0.08	0.47
(2,1191)	1:52:A:PRO:HD3	1:57:A:LEU:HD13	10	0.48	0.16	0.44
(2,1191)	1:52:A:PRO:HD3	1:57:A:LEU:HD11	10	0.48	0.16	0.44
(2,1191)	1:52:A:PRO:HD3	1:57:A:LEU:HD12	10	0.48	0.16	0.44
(2,446)	1:15:A:GLU:HG2	1:13:A:THR:HG21	10	0.47	0.17	0.54
(2,446)	1:15:A:GLU:HG2	1:13:A:THR:HG22	10	0.47	0.17	0.54
(2,446)	1:15:A:GLU:HG2	1:13:A:THR:HG23	10	0.47	0.17	0.54
(2,212)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	10	0.47	0.01	0.47
(2,1327)	1:158:A:LEU:HA	1:158:A:LEU:HD11	10	0.47	0.04	0.48
(2,1327)	1:158:A:LEU:HA	1:158:A:LEU:HD12	10	0.47	0.04	0.48
(2,1327)	1:158:A:LEU:HA	1:158:A:LEU:HD13	10	0.47	0.04	0.48
(2,1327)	1:158:A:LEU:HD11	1:154:A:MET:HA	10	0.47	0.04	0.48
(2,602)	1:44:A:VAL:HB	1:157:A:LEU:HD23	10	0.46	0.07	0.46
(2,602)	1:44:A:VAL:HB	1:157:A:LEU:HD21	10	0.46	0.07	0.46
(2,602)	1:44:A:VAL:HB	1:157:A:LEU:HD22	10	0.46	0.07	0.46
(2,985)	1:20:A:PHE:HA	1:22:A:ALA:HB2	10	0.46	0.07	0.45
(2,985)	1:20:A:PHE:HA	1:22:A:ALA:HB1	10	0.46	0.07	0.45
(2,985)	1:20:A:PHE:HA	1:22:A:ALA:HB3	10	0.46	0.07	0.45
(2,773)	1:26:A:ILE:HG12	1:29:A:LEU:HD13	10	0.46	0.09	0.47
(2,773)	1:26:A:ILE:HG12	1:29:A:LEU:HD12	10	0.46	0.09	0.47
(2,773)	1:26:A:ILE:HG12	1:29:A:LEU:HD11	10	0.46	0.09	0.47
(2,1160)	1:38:A:THR:HB	1:41:A:LEU:HB3	10	0.45	0.13	0.46
(2,1160)	1:38:A:THR:HB	1:57:A:LEU:HG	10	0.45	0.13	0.46
(2,1332)	1:9:A:VAL:HG21	1:75:A:ASP:HB3	10	0.45	0.08	0.46
(2,1332)	1:9:A:VAL:HG22	1:75:A:ASP:HB3	10	0.45	0.08	0.46
(2,1332)	1:9:A:VAL:HG23	1:75:A:ASP:HB3	10	0.45	0.08	0.46
(2,914)	1:78:A:LEU:HD12	1:17:A:LYS:HG3	10	0.45	0.05	0.44
(2,914)	1:78:A:LEU:HD11	1:17:A:LYS:HG3	10	0.45	0.05	0.44
(2,914)	1:78:A:LEU:HD13	1:17:A:LYS:HG3	10	0.45	0.05	0.44
(2,771)	1:82:A:VAL:HG22	1:82:A:VAL:HG11	10	0.45	0.08	0.45
(2,771)	1:82:A:VAL:HG21	1:82:A:VAL:HG12	10	0.45	0.08	0.45
(2,771)	1:82:A:VAL:HG23	1:82:A:VAL:HG12	10	0.45	0.08	0.45
(2,771)	1:82:A:VAL:HG23	1:82:A:VAL:HG11	10	0.45	0.08	0.45
(2,771)	1:82:A:VAL:HG22	1:82:A:VAL:HG13	10	0.45	0.08	0.45
(2,771)	1:82:A:VAL:HG22	1:82:A:VAL:HG12	10	0.45	0.08	0.45
(2,1233)	1:74:A:PHE:HB3	1:74:A:PHE:HE1	10	0.44	0.1	0.48
(2,1233)	1:74:A:PHE:HB3	1:24:A:PHE:HD1	10	0.44	0.1	0.48

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,477)	1:153:A:MET:HE2	1:154:A:MET:HA	10	0.44	0.12	0.47
(2,477)	1:153:A:MET:HE3	1:154:A:MET:HA	10	0.44	0.12	0.47
(2,442)	1:15:A:GLU:HG3	1:18:A:ASN:HB2	10	0.44	0.11	0.5
(2,995)	1:8:A:ALA:HA	1:4:A:ILE:HD12	10	0.44	0.13	0.46
(2,995)	1:8:A:ALA:HA	1:4:A:ILE:HD13	10	0.44	0.13	0.46
(2,995)	1:8:A:ALA:HA	1:4:A:ILE:HD11	10	0.44	0.13	0.46
(2,1023)	1:71:A:THR:HG22	1:35:A:SER:HA	10	0.43	0.09	0.44
(2,1023)	1:71:A:THR:HG21	1:35:A:SER:HA	10	0.43	0.09	0.44
(2,1023)	1:71:A:THR:HG23	1:35:A:SER:HA	10	0.43	0.09	0.44
(2,1150)	1:31:A:ALA:HA	1:32:A:GLU:HA	10	0.43	0.01	0.42
(2,1159)	1:69:A:SER:HB2	1:71:A:THR:HB	10	0.42	0.13	0.42
(2,1364)	1:58:A:GLN:HA	1:61:A:ILE:HG21	10	0.42	0.22	0.43
(2,1364)	1:58:A:GLN:HA	1:61:A:ILE:HG23	10	0.42	0.22	0.43
(2,1364)	1:58:A:GLN:HA	1:61:A:ILE:HG22	10	0.42	0.22	0.43
(2,1391)	1:4:A:ILE:HD13	1:6:A:LYS:HB3	10	0.42	0.13	0.4
(2,1391)	1:4:A:ILE:HD13	1:6:A:LYS:HB2	10	0.42	0.13	0.4
(2,1391)	1:4:A:ILE:HD12	1:6:A:LYS:HB3	10	0.42	0.13	0.4
(2,1391)	1:4:A:ILE:HD11	1:6:A:LYS:HB2	10	0.42	0.13	0.4
(2,814)	1:26:A:ILE:HA	1:26:A:ILE:HD11	10	0.42	0.14	0.39
(2,814)	1:26:A:ILE:HA	1:26:A:ILE:HD12	10	0.42	0.14	0.39
(2,814)	1:26:A:ILE:HA	1:26:A:ILE:HD13	10	0.42	0.14	0.39
(2,510)	1:1:A:MET:HE1	1:5:A:TYR:HB2	10	0.42	0.14	0.41
(2,510)	1:1:A:MET:HE2	1:5:A:TYR:HB2	10	0.42	0.14	0.41
(2,510)	1:1:A:MET:HE3	1:5:A:TYR:HB2	10	0.42	0.14	0.41
(2,1033)	1:42:A:GLY:HA3	1:57:A:LEU:HD21	10	0.41	0.05	0.42
(2,1033)	1:42:A:GLY:HA3	1:57:A:LEU:HD22	10	0.41	0.05	0.42
(2,1129)	1:36:A:ILE:HD12	1:77:A:PHE:HE1	10	0.41	0.17	0.42
(2,1129)	1:36:A:ILE:HD11	1:77:A:PHE:HE1	10	0.41	0.17	0.42
(2,1129)	1:36:A:ILE:HD13	1:77:A:PHE:HE1	10	0.41	0.17	0.42
(2,1184)	1:82:A:VAL:HA	1:8:A:ALA:HB2	10	0.41	0.11	0.4
(2,1184)	1:82:A:VAL:HA	1:8:A:ALA:HB1	10	0.41	0.11	0.4
(2,1184)	1:82:A:VAL:HA	1:8:A:ALA:HB3	10	0.41	0.11	0.4
(2,1394)	1:35:A:SER:HB2	1:28:A:VAL:HG13	10	0.4	0.11	0.38
(2,1394)	1:35:A:SER:HB2	1:28:A:VAL:HG12	10	0.4	0.11	0.38
(2,1394)	1:35:A:SER:HB2	1:28:A:VAL:HG11	10	0.4	0.11	0.38
(2,898)	1:4:A:ILE:HG21	1:5:A:TYR:HE1	10	0.4	0.08	0.38
(2,898)	1:4:A:ILE:HG23	1:5:A:TYR:HE1	10	0.4	0.08	0.38
(2,898)	1:4:A:ILE:HG22	1:5:A:TYR:HE1	10	0.4	0.08	0.38
(2,749)	1:78:A:LEU:HB2	1:78:A:LEU:HD11	10	0.4	0.03	0.38
(2,749)	1:78:A:LEU:HB2	1:78:A:LEU:HD13	10	0.4	0.03	0.38
(2,749)	1:78:A:LEU:HB2	1:78:A:LEU:HD12	10	0.4	0.03	0.38
(2,280)	1:9:A:VAL:HA	1:8:A:ALA:HB2	10	0.4	0.12	0.36

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,280)	1:9:A:VAL:HA	1:8:A:ALA:HB1	10	0.4	0.12	0.36
(2,280)	1:9:A:VAL:HA	1:8:A:ALA:HB3	10	0.4	0.12	0.36
(2,138)	1:8:A:ALA:HA	1:82:A:VAL:HG23	10	0.4	0.07	0.39
(2,138)	1:8:A:ALA:HA	1:82:A:VAL:HG22	10	0.4	0.07	0.39
(2,138)	1:8:A:ALA:HA	1:82:A:VAL:HG21	10	0.4	0.07	0.39
(2,645)	1:90:A:LYS:HD2	1:90:A:LYS:HG3	10	0.39	0.06	0.4
(2,645)	1:90:A:LYS:HD3	1:90:A:LYS:HG2	10	0.39	0.06	0.4
(2,1091)	1:40:A:GLU:HA	1:36:A:ILE:HG22	10	0.37	0.08	0.38
(2,1091)	1:40:A:GLU:HA	1:36:A:ILE:HG23	10	0.37	0.08	0.38
(2,1091)	1:40:A:GLU:HA	1:36:A:ILE:HG21	10	0.37	0.08	0.38
(2,911)	1:78:A:LEU:HD12	1:17:A:LYS:HE2	10	0.37	0.1	0.36
(2,911)	1:78:A:LEU:HD11	1:17:A:LYS:HE2	10	0.37	0.1	0.36
(2,911)	1:78:A:LEU:HD13	1:17:A:LYS:HE2	10	0.37	0.1	0.36
(2,716)	1:72:A:VAL:HA	1:72:A:VAL:HG12	10	0.36	0.06	0.38
(2,716)	1:72:A:VAL:HA	1:72:A:VAL:HG13	10	0.36	0.06	0.38
(2,716)	1:72:A:VAL:HA	1:72:A:VAL:HG11	10	0.36	0.06	0.38
(2,807)	1:45:A:MET:HG3	1:57:A:LEU:HD13	10	0.36	0.06	0.36
(2,807)	1:45:A:MET:HG3	1:57:A:LEU:HD11	10	0.36	0.06	0.36
(2,807)	1:45:A:MET:HG3	1:57:A:LEU:HD12	10	0.36	0.06	0.36
(2,661)	1:29:A:LEU:HB2	1:29:A:LEU:HD21	10	0.35	0.06	0.34
(2,661)	1:29:A:LEU:HB2	1:29:A:LEU:HD22	10	0.35	0.06	0.34
(2,661)	1:29:A:LEU:HB2	1:29:A:LEU:HD23	10	0.35	0.06	0.34
(2,1346)	1:54:A:PRO:HA	1:57:A:LEU:HD12	10	0.35	0.13	0.36
(2,1346)	1:54:A:PRO:HA	1:57:A:LEU:HD13	10	0.35	0.13	0.36
(2,1346)	1:54:A:PRO:HA	1:57:A:LEU:HD11	10	0.35	0.13	0.36
(2,1346)	1:45:A:MET:HA	1:48:A:LEU:HD13	10	0.35	0.13	0.36
(2,1346)	1:45:A:MET:HA	1:48:A:LEU:HD11	10	0.35	0.13	0.36
(2,296)	1:70:A:GLY:HA2	1:71:A:THR:HG21	10	0.34	0.13	0.32
(2,296)	1:70:A:GLY:HA2	1:71:A:THR:HG23	10	0.34	0.13	0.32
(2,296)	1:70:A:GLY:HA2	1:71:A:THR:HG22	10	0.34	0.13	0.32
(2,1008)	1:78:A:LEU:HD12	1:12:A:LEU:HB3	10	0.34	0.08	0.35
(2,1008)	1:78:A:LEU:HD11	1:12:A:LEU:HB3	10	0.34	0.08	0.35
(2,1008)	1:78:A:LEU:HD13	1:12:A:LEU:HB3	10	0.34	0.08	0.35
(2,1293)	1:152:A:ALA:HA	1:152:A:ALA:HB1	10	0.33	0.02	0.32
(2,1293)	1:152:A:ALA:HA	1:152:A:ALA:HB3	10	0.33	0.02	0.32
(2,1293)	1:152:A:ALA:HA	1:152:A:ALA:HB2	10	0.33	0.02	0.32
(2,1293)	1:8:A:ALA:HA	1:8:A:ALA:HB3	10	0.33	0.02	0.32
(2,804)	1:23:A:ALA:HA	1:26:A:ILE:HG21	10	0.32	0.07	0.35
(2,804)	1:23:A:ALA:HA	1:26:A:ILE:HG22	10	0.32	0.07	0.35
(2,804)	1:23:A:ALA:HA	1:26:A:ILE:HG23	10	0.32	0.07	0.35
(2,129)	1:54:A:PRO:HA	1:54:A:PRO:HG2	10	0.32	0.01	0.32
(2,1325)	1:82:A:VAL:HG23	1:4:A:ILE:HD13	10	0.31	0.11	0.3

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1325)	1:82:A:VAL:HG21	1:79:A:VAL:HG13	10	0.31	0.11	0.3
(2,1325)	1:82:A:VAL:HG21	1:4:A:ILE:HD13	10	0.31	0.11	0.3
(2,1325)	1:82:A:VAL:HG21	1:4:A:ILE:HD12	10	0.31	0.11	0.3
(2,1325)	1:82:A:VAL:HG23	1:4:A:ILE:HD12	10	0.31	0.11	0.3
(2,1325)	1:82:A:VAL:HG23	1:4:A:ILE:HD11	10	0.31	0.11	0.3
(2,1325)	1:82:A:VAL:HG22	1:4:A:ILE:HD13	10	0.31	0.11	0.3
(2,1238)	1:155:A:GLN:HG3	1:155:A:GLN:HB2	10	0.31	0.05	0.32
(2,1238)	1:58:A:GLN:HG3	1:58:A:GLN:HB2	10	0.31	0.05	0.32
(2,1261)	1:26:A:ILE:HB	1:23:A:ALA:HB3	10	0.31	0.08	0.32
(2,1261)	1:26:A:ILE:HB	1:23:A:ALA:HB1	10	0.31	0.08	0.32
(2,1261)	1:26:A:ILE:HB	1:23:A:ALA:HB2	10	0.31	0.08	0.32
(2,8)	1:51:A:ASN:HA	1:50:A:GLN:HB3	10	0.3	0.03	0.31
(2,415)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	10	0.3	0.02	0.3
(2,1046)	1:48:A:LEU:HA	1:50:A:GLN:HG2	10	0.29	0.05	0.28
(2,705)	1:81:A:MET:HB3	1:81:A:MET:HG2	10	0.28	0.01	0.28
(2,1254)	1:58:A:GLN:HB3	1:58:A:GLN:HG2	10	0.27	0.03	0.29
(2,1254)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	10	0.27	0.03	0.29
(2,201)	1:43:A:LYS:HA	1:43:A:LYS:HB3	10	0.26	0.02	0.26
(2,201)	1:43:A:LYS:HA	1:43:A:LYS:HB2	10	0.26	0.02	0.26
(2,193)	1:81:A:MET:HA	1:81:A:MET:HB2	10	0.26	0.01	0.26
(2,1222)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	10	0.26	0.08	0.25
(2,1222)	1:3:A:ASP:HB3	1:6:A:LYS:HB2	10	0.26	0.08	0.25
(2,859)	1:57:A:LEU:HD21	1:45:A:MET:HB2	10	0.25	0.09	0.28
(2,859)	1:57:A:LEU:HD22	1:45:A:MET:HB2	10	0.25	0.09	0.28
(2,929)	1:36:A:ILE:HD12	1:27:A:PHE:HD1	10	0.25	0.09	0.21
(2,929)	1:36:A:ILE:HD11	1:27:A:PHE:HD1	10	0.25	0.09	0.21
(2,929)	1:36:A:ILE:HD13	1:27:A:PHE:HD1	10	0.25	0.09	0.21
(2,521)	1:14:A:GLU:HB3	1:14:A:GLU:HA	10	0.25	0.04	0.26
(2,521)	1:14:A:GLU:HB2	1:14:A:GLU:HA	10	0.25	0.04	0.26
(2,1179)	1:89:A:SER:HA	1:89:A:SER:HB2	10	0.25	0.03	0.25
(2,1179)	1:84:A:SER:HA	1:84:A:SER:HB3	10	0.25	0.03	0.25
(2,1179)	1:84:A:SER:HA	1:84:A:SER:HB2	10	0.25	0.03	0.25
(2,1179)	1:89:A:SER:HA	1:89:A:SER:HB3	10	0.25	0.03	0.25
(2,1088)	1:29:A:LEU:HD13	1:29:A:LEU:HB3	10	0.25	0.08	0.22
(2,1088)	1:29:A:LEU:HD12	1:29:A:LEU:HB3	10	0.25	0.08	0.22
(2,1088)	1:29:A:LEU:HD11	1:29:A:LEU:HB3	10	0.25	0.08	0.22
(2,625)	1:45:A:MET:HE1	1:50:A:GLN:HG3	10	0.25	0.07	0.22
(2,625)	1:45:A:MET:HE2	1:50:A:GLN:HG3	10	0.25	0.07	0.22
(2,625)	1:45:A:MET:HE3	1:50:A:GLN:HG3	10	0.25	0.07	0.22
(2,389)	1:3:A:ASP:HA	1:3:A:ASP:HB2	10	0.24	0.0	0.24
(2,764)	1:9:A:VAL:HB	1:9:A:VAL:HG21	10	0.24	0.04	0.24
(2,764)	1:9:A:VAL:HB	1:9:A:VAL:HG23	10	0.24	0.04	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,764)	1:9:A:VAL:HB	1:9:A:VAL:HG22	10	0.24	0.04	0.24
(2,1357)	1:48:A:LEU:HG	1:48:A:LEU:HD21	10	0.23	0.06	0.22
(2,1357)	1:48:A:LEU:HB3	1:48:A:LEU:HD21	10	0.23	0.06	0.22
(2,1357)	1:48:A:LEU:HG	1:48:A:LEU:HD22	10	0.23	0.06	0.22
(2,1357)	1:48:A:LEU:HG	1:48:A:LEU:HD23	10	0.23	0.06	0.22
(2,1357)	1:48:A:LEU:HB3	1:48:A:LEU:HD22	10	0.23	0.06	0.22
(2,463)	1:64:A:VAL:HB	1:72:A:VAL:HB	10	0.23	0.05	0.24
(2,99)	1:163:A:LYS:HA	1:164:A:GLY:HA3	10	0.23	0.12	0.18
(2,99)	1:163:A:LYS:HA	1:164:A:GLY:HA2	10	0.23	0.12	0.18
(2,1324)	1:82:A:VAL:HG22	1:83:A:ARG:HG3	10	0.23	0.08	0.22
(2,1324)	1:82:A:VAL:HG21	1:83:A:ARG:HG3	10	0.23	0.08	0.22
(2,1324)	1:82:A:VAL:HG23	1:83:A:ARG:HG3	10	0.23	0.08	0.22
(2,498)	1:10:A:GLU:HG3	1:10:A:GLU:HB2	10	0.22	0.02	0.21
(2,360)	1:25:A:ASP:HB2	1:28:A:VAL:HG23	10	0.21	0.07	0.2
(2,360)	1:25:A:ASP:HB2	1:28:A:VAL:HG21	10	0.21	0.07	0.2
(2,360)	1:25:A:ASP:HB2	1:28:A:VAL:HG22	10	0.21	0.07	0.2
(2,941)	1:36:A:ILE:HD13	1:36:A:ILE:HA	10	0.21	0.03	0.2
(2,941)	1:36:A:ILE:HD12	1:36:A:ILE:HA	10	0.21	0.03	0.2
(2,1296)	1:158:A:LEU:HG	1:158:A:LEU:HB3	10	0.2	0.0	0.2
(2,1273)	1:140:A:ARG:HB2	1:140:A:ARG:HB3	10	0.2	0.01	0.2
(2,1273)	1:161:A:ARG:HB2	1:161:A:ARG:HB3	10	0.2	0.01	0.2
(2,497)	1:79:A:VAL:HA	1:79:A:VAL:HB	10	0.18	0.0	0.18
(2,175)	1:155:A:GLN:HA	1:155:A:GLN:HB3	10	0.17	0.02	0.17
(2,489)	1:10:A:GLU:HG2	1:10:A:GLU:HB3	10	0.17	0.02	0.18
(2,278)	1:71:A:THR:HB	1:35:A:SER:HB3	10	0.17	0.05	0.16
(2,1416)	1:35:A:SER:HA	1:36:A:ILE:HB	10	0.16	0.03	0.16
(2,520)	1:32:A:GLU:HA	1:32:A:GLU:HB3	10	0.16	0.02	0.17
(2,520)	1:32:A:GLU:HA	1:32:A:GLU:HB2	10	0.16	0.02	0.17
(2,1252)	1:155:A:GLN:HA	1:155:A:GLN:HB3	10	0.16	0.02	0.16
(2,1262)	1:14:A:GLU:HB2	1:13:A:THR:HG21	9	1.01	0.39	1.01
(2,1262)	1:14:A:GLU:HB2	1:13:A:THR:HG22	9	1.01	0.39	1.01
(2,1262)	1:14:A:GLU:HB3	1:13:A:THR:HG23	9	1.01	0.39	1.01
(2,1262)	1:14:A:GLU:HB3	1:13:A:THR:HG22	9	1.01	0.39	1.01
(2,1262)	1:11:A:GLN:HB3	1:7:A:ALA:HB1	9	1.01	0.39	1.01
(2,1262)	1:14:A:GLU:HB2	1:13:A:THR:HG23	9	1.01	0.39	1.01
(2,723)	1:142:A:THR:HG21	1:141:A:PRO:HA	9	1.0	0.19	1.02
(2,723)	1:142:A:THR:HG22	1:141:A:PRO:HA	9	1.0	0.19	1.02
(2,723)	1:142:A:THR:HG23	1:141:A:PRO:HA	9	1.0	0.19	1.02
(2,1340)	1:157:A:LEU:HD13	1:153:A:MET:HA	9	0.92	0.11	0.88
(2,1340)	1:157:A:LEU:HD12	1:153:A:MET:HA	9	0.92	0.11	0.88
(2,1340)	1:157:A:LEU:HD11	1:153:A:MET:HA	9	0.92	0.11	0.88
(2,494)	1:10:A:GLU:HB2	1:9:A:VAL:HG11	9	0.77	0.31	0.87

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,494)	1:10:A:GLU:HB2	1:9:A:VAL:HG13	9	0.77	0.31	0.87
(2,494)	1:10:A:GLU:HB2	1:9:A:VAL:HG12	9	0.77	0.31	0.87
(2,799)	1:143:A:LEU:HD12	1:143:A:LEU:HA	9	0.67	0.04	0.68
(2,799)	1:143:A:LEU:HD11	1:143:A:LEU:HA	9	0.67	0.04	0.68
(2,799)	1:143:A:LEU:HD13	1:143:A:LEU:HA	9	0.67	0.04	0.68
(2,966)	1:148:A:ILE:HA	1:148:A:ILE:HD13	9	0.64	0.09	0.65
(2,966)	1:148:A:ILE:HA	1:148:A:ILE:HD11	9	0.64	0.09	0.65
(2,966)	1:148:A:ILE:HA	1:148:A:ILE:HD12	9	0.64	0.09	0.65
(2,755)	1:158:A:LEU:HD12	1:154:A:MET:HG2	9	0.6	0.19	0.63
(2,755)	1:158:A:LEU:HD11	1:154:A:MET:HG2	9	0.6	0.19	0.63
(2,755)	1:158:A:LEU:HD13	1:154:A:MET:HG2	9	0.6	0.19	0.63
(2,1370)	1:79:A:VAL:HG13	1:1:A:MET:HA	9	0.57	0.19	0.62
(2,1370)	1:79:A:VAL:HG12	1:76:A:GLU:HA	9	0.57	0.19	0.62
(2,1370)	1:79:A:VAL:HG13	1:76:A:GLU:HA	9	0.57	0.19	0.62
(2,1370)	1:79:A:VAL:HG11	1:76:A:GLU:HA	9	0.57	0.19	0.62
(2,714)	1:38:A:THR:HG21	1:61:A:ILE:HG12	9	0.54	0.17	0.5
(2,714)	1:38:A:THR:HG23	1:61:A:ILE:HG12	9	0.54	0.17	0.5
(2,714)	1:38:A:THR:HG22	1:61:A:ILE:HG12	9	0.54	0.17	0.5
(2,114)	1:157:A:LEU:HA	1:157:A:LEU:HD11	9	0.48	0.08	0.43
(2,114)	1:157:A:LEU:HA	1:157:A:LEU:HD13	9	0.48	0.08	0.43
(2,114)	1:157:A:LEU:HA	1:157:A:LEU:HD12	9	0.48	0.08	0.43
(2,986)	1:157:A:LEU:HD23	1:23:A:ALA:HB2	9	0.48	0.12	0.51
(2,986)	1:157:A:LEU:HD23	1:23:A:ALA:HB3	9	0.48	0.12	0.51
(2,986)	1:157:A:LEU:HD22	1:23:A:ALA:HB1	9	0.48	0.12	0.51
(2,986)	1:157:A:LEU:HD22	1:23:A:ALA:HB2	9	0.48	0.12	0.51
(2,986)	1:157:A:LEU:HD21	1:23:A:ALA:HB2	9	0.48	0.12	0.51
(2,986)	1:157:A:LEU:HD21	1:23:A:ALA:HB3	9	0.48	0.12	0.51
(2,793)	1:26:A:ILE:HG12	1:157:A:LEU:HD11	9	0.47	0.07	0.45
(2,793)	1:26:A:ILE:HG12	1:157:A:LEU:HD12	9	0.47	0.07	0.45
(2,793)	1:26:A:ILE:HG12	1:157:A:LEU:HD13	9	0.47	0.07	0.45
(2,1014)	1:78:A:LEU:HD12	1:17:A:LYS:HD3	9	0.45	0.07	0.46
(2,1014)	1:78:A:LEU:HD11	1:17:A:LYS:HD3	9	0.45	0.07	0.46
(2,1014)	1:78:A:LEU:HD13	1:17:A:LYS:HD3	9	0.45	0.07	0.46
(2,112)	1:41:A:LEU:HA	1:41:A:LEU:HD21	9	0.45	0.16	0.43
(2,112)	1:41:A:LEU:HA	1:41:A:LEU:HD23	9	0.45	0.16	0.43
(2,112)	1:41:A:LEU:HA	1:41:A:LEU:HD22	9	0.45	0.16	0.43
(2,1331)	1:79:A:VAL:HG21	1:2:A:ASP:HB2	9	0.43	0.21	0.43
(2,1331)	1:79:A:VAL:HG22	1:2:A:ASP:HB2	9	0.43	0.21	0.43
(2,1331)	1:2:A:ASP:HB3	1:79:A:VAL:HG21	9	0.43	0.21	0.43
(2,1331)	1:79:A:VAL:HG23	1:2:A:ASP:HB2	9	0.43	0.21	0.43
(2,991)	1:60:A:MET:HG2	1:45:A:MET:HE3	9	0.41	0.18	0.44
(2,991)	1:60:A:MET:HG3	1:45:A:MET:HE2	9	0.41	0.18	0.44

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,991)	1:60:A:MET:HG3	1:45:A:MET:HE1	9	0.41	0.18	0.44
(2,991)	1:60:A:MET:HG2	1:45:A:MET:HE1	9	0.41	0.18	0.44
(2,991)	1:60:A:MET:HG3	1:45:A:MET:HE3	9	0.41	0.18	0.44
(2,618)	1:45:A:MET:HE3	1:148:A:ILE:HA	9	0.4	0.09	0.38
(2,618)	1:45:A:MET:HE1	1:148:A:ILE:HA	9	0.4	0.09	0.38
(2,618)	1:45:A:MET:HE2	1:148:A:ILE:HA	9	0.4	0.09	0.38
(2,788)	1:148:A:ILE:HA	1:148:A:ILE:HG23	9	0.4	0.06	0.37
(2,788)	1:148:A:ILE:HA	1:148:A:ILE:HG21	9	0.4	0.06	0.37
(2,788)	1:148:A:ILE:HA	1:148:A:ILE:HG22	9	0.4	0.06	0.37
(2,989)	1:52:A:PRO:HA	1:45:A:MET:HE2	9	0.4	0.12	0.42
(2,989)	1:52:A:PRO:HA	1:45:A:MET:HE3	9	0.4	0.12	0.42
(2,989)	1:52:A:PRO:HA	1:45:A:MET:HE1	9	0.4	0.12	0.42
(2,1249)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	9	0.39	0.02	0.4
(2,1007)	1:78:A:LEU:HD13	1:77:A:PHE:HD1	9	0.38	0.07	0.37
(2,1007)	1:78:A:LEU:HD12	1:77:A:PHE:HD1	9	0.38	0.07	0.37
(2,1007)	1:78:A:LEU:HD11	1:77:A:PHE:HD1	9	0.38	0.07	0.37
(2,896)	1:31:A:ALA:HB2	1:28:A:VAL:HG22	9	0.37	0.08	0.35
(2,896)	1:31:A:ALA:HB2	1:28:A:VAL:HG23	9	0.37	0.08	0.35
(2,896)	1:31:A:ALA:HB1	1:28:A:VAL:HG21	9	0.37	0.08	0.35
(2,896)	1:31:A:ALA:HB3	1:28:A:VAL:HG23	9	0.37	0.08	0.35
(2,896)	1:31:A:ALA:HB1	1:28:A:VAL:HG23	9	0.37	0.08	0.35
(2,896)	1:31:A:ALA:HB2	1:28:A:VAL:HG21	9	0.37	0.08	0.35
(2,1407)	1:156:A:ALA:HA	1:157:A:LEU:HD22	9	0.36	0.08	0.35
(2,1407)	1:23:A:ALA:HA	1:157:A:LEU:HD23	9	0.36	0.08	0.35
(2,1407)	1:23:A:ALA:HA	1:157:A:LEU:HD22	9	0.36	0.08	0.35
(2,1407)	1:156:A:ALA:HA	1:157:A:LEU:HD21	9	0.36	0.08	0.35
(2,1407)	1:156:A:ALA:HA	1:157:A:LEU:HD23	9	0.36	0.08	0.35
(2,1407)	1:23:A:ALA:HA	1:157:A:LEU:HD21	9	0.36	0.08	0.35
(2,942)	1:36:A:ILE:HD12	1:77:A:PHE:HD1	9	0.35	0.15	0.32
(2,942)	1:36:A:ILE:HD11	1:77:A:PHE:HD1	9	0.35	0.15	0.32
(2,942)	1:36:A:ILE:HD13	1:77:A:PHE:HD1	9	0.35	0.15	0.32
(2,1387)	1:71:A:THR:HB	1:61:A:ILE:HD11	9	0.34	0.1	0.36
(2,1387)	1:71:A:THR:HB	1:61:A:ILE:HD13	9	0.34	0.1	0.36
(2,1387)	1:71:A:THR:HB	1:61:A:ILE:HD12	9	0.34	0.1	0.36
(2,466)	1:72:A:VAL:HB	1:61:A:ILE:HG23	9	0.32	0.12	0.31
(2,466)	1:72:A:VAL:HB	1:61:A:ILE:HG22	9	0.32	0.12	0.31
(2,466)	1:72:A:VAL:HB	1:61:A:ILE:HG21	9	0.32	0.12	0.31
(2,69)	1:13:A:THR:HA	1:14:A:GLU:HB2	9	0.31	0.08	0.33
(2,69)	1:13:A:THR:HA	1:14:A:GLU:HB3	9	0.31	0.08	0.33
(2,891)	1:35:A:SER:HA	1:28:A:VAL:HG22	9	0.3	0.14	0.24
(2,891)	1:35:A:SER:HA	1:28:A:VAL:HG23	9	0.3	0.14	0.24
(2,1114)	1:54:A:PRO:HA	1:57:A:LEU:HB3	9	0.29	0.03	0.29

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1377)	1:44:A:VAL:HG13	1:47:A:MET:HG3	9	0.29	0.1	0.35
(2,1377)	1:44:A:VAL:HG11	1:47:A:MET:HG3	9	0.29	0.1	0.35
(2,1377)	1:44:A:VAL:HG12	1:47:A:MET:HG3	9	0.29	0.1	0.35
(2,1368)	1:157:A:LEU:HD22	1:153:A:MET:HA	9	0.28	0.09	0.28
(2,1368)	1:157:A:LEU:HD21	1:153:A:MET:HA	9	0.28	0.09	0.28
(2,1368)	1:157:A:LEU:HD23	1:153:A:MET:HA	9	0.28	0.09	0.28
(2,1109)	1:52:A:PRO:HD3	1:42:A:GLY:HA3	9	0.26	0.04	0.26
(2,674)	1:157:A:LEU:HB2	1:157:A:LEU:HD22	9	0.23	0.06	0.21
(2,674)	1:157:A:LEU:HB2	1:157:A:LEU:HD21	9	0.23	0.06	0.21
(2,674)	1:157:A:LEU:HB2	1:157:A:LEU:HD23	9	0.23	0.06	0.21
(2,1425)	1:19:A:GLU:HA	1:21:A:LYS:HB3	9	0.22	0.07	0.23
(2,1425)	1:19:A:GLU:HA	1:158:A:LEU:HG	9	0.22	0.07	0.23
(2,679)	1:148:A:ILE:HG13	1:148:A:ILE:HG22	9	0.22	0.05	0.21
(2,679)	1:148:A:ILE:HG13	1:148:A:ILE:HG23	9	0.22	0.05	0.21
(2,679)	1:148:A:ILE:HG13	1:148:A:ILE:HG21	9	0.22	0.05	0.21
(2,1053)	1:18:A:ASN:HA	1:21:A:LYS:HD3	9	0.2	0.03	0.19
(2,996)	1:11:A:GLN:HB3	1:8:A:ALA:HA	9	0.18	0.04	0.19
(2,142)	1:7:A:ALA:HA	1:10:A:GLU:HB2	9	0.18	0.07	0.15
(2,142)	1:7:A:ALA:HA	1:10:A:GLU:HB3	9	0.18	0.07	0.15
(2,303)	1:24:A:PHE:HA	1:74:A:PHE:HD1	9	0.18	0.04	0.18
(2,407)	1:52:A:PRO:HD3	1:51:A:ASN:HB3	9	0.17	0.04	0.16
(2,12)	1:73:A:ASP:HA	1:24:A:PHE:HD1	9	0.16	0.06	0.16
(2,119)	1:47:A:MET:HA	1:44:A:VAL:HA	9	0.14	0.02	0.13
(2,241)	1:83:A:ARG:HA	1:83:A:ARG:HB2	9	0.13	0.0	0.13
(2,111)	1:157:A:LEU:HA	1:157:A:LEU:HB2	9	0.11	0.01	0.11
(2,1420)	1:41:A:LEU:HD21	1:52:A:PRO:HG3	8	0.88	0.11	0.86
(2,1420)	1:41:A:LEU:HD23	1:52:A:PRO:HG3	8	0.88	0.11	0.86
(2,1420)	1:41:A:LEU:HD22	1:52:A:PRO:HG3	8	0.88	0.11	0.86
(2,1420)	1:41:A:LEU:HD22	1:60:A:MET:HE3	8	0.88	0.11	0.86
(2,1406)	1:20:A:PHE:HA	1:19:A:GLU:HG2	8	0.78	0.13	0.76
(2,1406)	1:20:A:PHE:HA	1:153:A:MET:HE3	8	0.78	0.13	0.76
(2,809)	1:48:A:LEU:HA	1:48:A:LEU:HD12	8	0.73	0.07	0.76
(2,809)	1:48:A:LEU:HA	1:48:A:LEU:HD11	8	0.73	0.07	0.76
(2,809)	1:48:A:LEU:HA	1:48:A:LEU:HD13	8	0.73	0.07	0.76
(2,865)	1:61:A:ILE:HA	1:61:A:ILE:HD11	8	0.56	0.18	0.55
(2,865)	1:61:A:ILE:HA	1:61:A:ILE:HD13	8	0.56	0.18	0.55
(2,865)	1:61:A:ILE:HA	1:61:A:ILE:HD12	8	0.56	0.18	0.55
(2,478)	1:153:A:MET:HE3	1:154:A:MET:HG2	8	0.47	0.12	0.5
(2,478)	1:153:A:MET:HE2	1:154:A:MET:HG2	8	0.47	0.12	0.5
(2,481)	1:153:A:MET:HE3	1:23:A:ALA:HB3	8	0.46	0.16	0.47
(2,481)	1:153:A:MET:HE3	1:23:A:ALA:HB1	8	0.46	0.16	0.47
(2,481)	1:153:A:MET:HE3	1:23:A:ALA:HB2	8	0.46	0.16	0.47

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,906)	1:78:A:LEU:HD13	1:20:A:PHE:HD1	8	0.42	0.05	0.42
(2,906)	1:78:A:LEU:HD12	1:20:A:PHE:HD1	8	0.42	0.05	0.42
(2,906)	1:78:A:LEU:HD11	1:20:A:PHE:HD1	8	0.42	0.05	0.42
(2,1228)	1:153:A:MET:HG3	1:48:A:LEU:HG	8	0.42	0.09	0.42
(2,800)	1:29:A:LEU:HD22	1:26:A:ILE:HA	8	0.42	0.11	0.43
(2,800)	1:29:A:LEU:HD23	1:26:A:ILE:HA	8	0.42	0.11	0.43
(2,800)	1:29:A:LEU:HD21	1:26:A:ILE:HA	8	0.42	0.11	0.43
(2,940)	1:61:A:ILE:HD12	1:37:A:SER:HB3	8	0.39	0.13	0.36
(2,940)	1:61:A:ILE:HD13	1:37:A:SER:HB3	8	0.39	0.13	0.36
(2,940)	1:61:A:ILE:HD11	1:37:A:SER:HB3	8	0.39	0.13	0.36
(2,888)	1:78:A:LEU:HD22	1:12:A:LEU:HD11	8	0.36	0.16	0.31
(2,888)	1:78:A:LEU:HD21	1:12:A:LEU:HD11	8	0.36	0.16	0.31
(2,888)	1:78:A:LEU:HD21	1:12:A:LEU:HD13	8	0.36	0.16	0.31
(2,888)	1:78:A:LEU:HD21	1:12:A:LEU:HD12	8	0.36	0.16	0.31
(2,888)	1:78:A:LEU:HD22	1:12:A:LEU:HD13	8	0.36	0.16	0.31
(2,849)	1:61:A:ILE:HG13	1:61:A:ILE:HG21	8	0.35	0.07	0.35
(2,849)	1:61:A:ILE:HG13	1:61:A:ILE:HG23	8	0.35	0.07	0.35
(2,849)	1:61:A:ILE:HG13	1:61:A:ILE:HG22	8	0.35	0.07	0.35
(2,272)	1:44:A:VAL:HA	1:47:A:MET:HB3	8	0.35	0.06	0.33
(2,1367)	1:61:A:ILE:HD12	1:41:A:LEU:HA	8	0.33	0.14	0.33
(2,1367)	1:38:A:THR:HB	1:61:A:ILE:HD11	8	0.33	0.14	0.33
(2,1367)	1:38:A:THR:HB	1:61:A:ILE:HD13	8	0.33	0.14	0.33
(2,1367)	1:38:A:THR:HB	1:61:A:ILE:HD12	8	0.33	0.14	0.33
(2,1367)	1:61:A:ILE:HD11	1:41:A:LEU:HA	8	0.33	0.14	0.33
(2,1367)	1:37:A:SER:HB2	1:61:A:ILE:HD11	8	0.33	0.14	0.33
(2,485)	1:153:A:MET:HE2	1:157:A:LEU:HD23	8	0.31	0.14	0.26
(2,485)	1:153:A:MET:HE2	1:157:A:LEU:HD22	8	0.31	0.14	0.26
(2,485)	1:153:A:MET:HE2	1:157:A:LEU:HD21	8	0.31	0.14	0.26
(2,1244)	1:15:A:GLU:HG3	1:18:A:ASN:HB3	8	0.3	0.1	0.3
(2,1133)	1:37:A:SER:HB3	1:36:A:ILE:HG22	8	0.3	0.13	0.34
(2,1133)	1:37:A:SER:HB3	1:36:A:ILE:HG23	8	0.3	0.13	0.34
(2,1133)	1:37:A:SER:HB3	1:36:A:ILE:HG21	8	0.3	0.13	0.34
(2,790)	1:153:A:MET:HG3	1:148:A:ILE:HG22	8	0.3	0.08	0.28
(2,790)	1:153:A:MET:HG3	1:148:A:ILE:HG23	8	0.3	0.08	0.28
(2,790)	1:153:A:MET:HG3	1:148:A:ILE:HG21	8	0.3	0.08	0.28
(2,876)	1:78:A:LEU:HD21	1:77:A:PHE:HE1	8	0.29	0.13	0.27
(2,876)	1:78:A:LEU:HD23	1:77:A:PHE:HE1	8	0.29	0.13	0.27
(2,876)	1:78:A:LEU:HD22	1:77:A:PHE:HE1	8	0.29	0.13	0.27
(2,157)	1:29:A:LEU:HA	1:29:A:LEU:HD11	8	0.25	0.08	0.28
(2,157)	1:29:A:LEU:HA	1:29:A:LEU:HD12	8	0.25	0.08	0.28
(2,157)	1:29:A:LEU:HA	1:29:A:LEU:HD13	8	0.25	0.08	0.28
(2,448)	1:15:A:GLU:HG2	1:15:A:GLU:HB3	8	0.2	0.02	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1049)	1:44:A:VAL:HG23	1:41:A:LEU:HA	8	0.2	0.06	0.17
(2,1049)	1:44:A:VAL:HG21	1:41:A:LEU:HA	8	0.2	0.06	0.17
(2,1049)	1:44:A:VAL:HG22	1:41:A:LEU:HA	8	0.2	0.06	0.17
(2,110)	1:66:A:GLU:HA	1:66:A:GLU:HB3	8	0.2	0.01	0.2
(2,893)	1:34:A:GLY:HA3	1:28:A:VAL:HG22	8	0.2	0.04	0.2
(2,893)	1:34:A:GLY:HA3	1:28:A:VAL:HG23	8	0.2	0.04	0.2
(2,893)	1:34:A:GLY:HA3	1:28:A:VAL:HG21	8	0.2	0.04	0.2
(2,603)	1:44:A:VAL:HB	1:27:A:PHE:HD1	8	0.19	0.03	0.2
(2,358)	1:62:A:ASP:HB2	1:61:A:ILE:HB	8	0.16	0.04	0.16
(2,905)	1:4:A:ILE:HG13	1:4:A:ILE:HG23	8	0.16	0.02	0.17
(2,905)	1:4:A:ILE:HG13	1:4:A:ILE:HG22	8	0.16	0.02	0.17
(2,905)	1:4:A:ILE:HG13	1:4:A:ILE:HG21	8	0.16	0.02	0.17
(2,57)	1:64:A:VAL:HA	1:64:A:VAL:HG23	8	0.14	0.03	0.14
(2,57)	1:64:A:VAL:HA	1:64:A:VAL:HG21	8	0.14	0.03	0.14
(2,90)	1:11:A:GLN:HA	1:11:A:GLN:HB2	8	0.14	0.01	0.15
(2,217)	1:4:A:ILE:HA	1:4:A:ILE:HD13	8	0.14	0.02	0.14
(2,217)	1:4:A:ILE:HA	1:4:A:ILE:HD12	8	0.14	0.02	0.14
(2,217)	1:4:A:ILE:HA	1:4:A:ILE:HD11	8	0.14	0.02	0.14
(2,1374)	1:28:A:VAL:HG22	1:36:A:ILE:HA	8	0.14	0.03	0.12
(2,1374)	1:28:A:VAL:HG23	1:36:A:ILE:HA	8	0.14	0.03	0.12
(2,1374)	1:28:A:VAL:HG21	1:36:A:ILE:HA	8	0.14	0.03	0.12
(2,381)	1:2:A:ASP:HB2	1:5:A:TYR:HE1	8	0.14	0.03	0.12
(2,199)	1:75:A:ASP:HA	1:75:A:ASP:HB2	8	0.12	0.01	0.12
(2,710)	1:58:A:GLN:HG2	1:38:A:THR:HG22	7	0.64	0.18	0.56
(2,710)	1:58:A:GLN:HG2	1:38:A:THR:HG21	7	0.64	0.18	0.56
(2,663)	1:22:A:ALA:HB1	1:158:A:LEU:HD12	7	0.56	0.18	0.59
(2,663)	1:22:A:ALA:HB2	1:158:A:LEU:HD11	7	0.56	0.18	0.59
(2,663)	1:22:A:ALA:HB3	1:158:A:LEU:HD11	7	0.56	0.18	0.59
(2,663)	1:22:A:ALA:HB3	1:158:A:LEU:HD12	7	0.56	0.18	0.59
(2,663)	1:22:A:ALA:HB1	1:158:A:LEU:HD11	7	0.56	0.18	0.59
(2,1379)	1:48:A:LEU:HD11	1:44:A:VAL:HG11	7	0.51	0.13	0.58
(2,1379)	1:48:A:LEU:HD13	1:44:A:VAL:HG12	7	0.51	0.13	0.58
(2,1379)	1:48:A:LEU:HD11	1:44:A:VAL:HG13	7	0.51	0.13	0.58
(2,1379)	1:48:A:LEU:HD12	1:44:A:VAL:HG12	7	0.51	0.13	0.58
(2,1379)	1:148:A:ILE:HD13	1:44:A:VAL:HG13	7	0.51	0.13	0.58
(2,1379)	1:148:A:ILE:HD11	1:44:A:VAL:HG11	7	0.51	0.13	0.58
(2,546)	1:154:A:MET:HE3	1:22:A:ALA:HB2	7	0.45	0.2	0.48
(2,546)	1:154:A:MET:HE3	1:22:A:ALA:HB1	7	0.45	0.2	0.48
(2,546)	1:154:A:MET:HE1	1:22:A:ALA:HB2	7	0.45	0.2	0.48
(2,546)	1:154:A:MET:HE2	1:22:A:ALA:HB3	7	0.45	0.2	0.48
(2,546)	1:154:A:MET:HE1	1:22:A:ALA:HB3	7	0.45	0.2	0.48
(2,984)	1:153:A:MET:HE1	1:148:A:ILE:HG12	7	0.44	0.17	0.49

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,984)	1:153:A:MET:HE2	1:148:A:ILE:HG12	7	0.44	0.17	0.49
(2,116)	1:41:A:LEU:HA	1:44:A:VAL:HG11	7	0.4	0.17	0.4
(2,116)	1:41:A:LEU:HA	1:44:A:VAL:HG12	7	0.4	0.17	0.4
(2,116)	1:41:A:LEU:HA	1:44:A:VAL:HG13	7	0.4	0.17	0.4
(2,968)	1:8:A:ALA:HA	1:85:A:MET:HE3	7	0.38	0.22	0.24
(2,968)	1:8:A:ALA:HA	1:85:A:MET:HE1	7	0.38	0.22	0.24
(2,968)	1:8:A:ALA:HA	1:85:A:MET:HE2	7	0.38	0.22	0.24
(2,1069)	1:16:A:GLN:HA	1:12:A:LEU:HD21	7	0.37	0.08	0.36
(2,1069)	1:16:A:GLN:HA	1:12:A:LEU:HD22	7	0.37	0.08	0.36
(2,1069)	1:16:A:GLN:HA	1:12:A:LEU:HD23	7	0.37	0.08	0.36
(2,339)	1:43:A:LYS:HE2	1:43:A:LYS:HB2	7	0.36	0.07	0.33
(2,339)	1:43:A:LYS:HE2	1:43:A:LYS:HB3	7	0.36	0.07	0.33
(2,339)	1:43:A:LYS:HE3	1:43:A:LYS:HB3	7	0.36	0.07	0.33
(2,391)	1:151:A:ASP:HB2	1:152:A:ALA:HA	7	0.34	0.24	0.25
(2,391)	1:151:A:ASP:HB3	1:152:A:ALA:HA	7	0.34	0.24	0.25
(2,202)	1:149:A:SER:HB3	1:152:A:ALA:HB3	7	0.33	0.14	0.24
(2,202)	1:149:A:SER:HB3	1:152:A:ALA:HB2	7	0.33	0.14	0.24
(2,202)	1:149:A:SER:HB3	1:152:A:ALA:HB1	7	0.33	0.14	0.24
(2,1203)	1:145:A:ARG:HA	1:147:A:ARG:HD3	7	0.33	0.28	0.2
(2,1203)	1:145:A:ARG:HA	1:147:A:ARG:HD2	7	0.33	0.28	0.2
(2,1203)	1:140:A:ARG:HD2	1:142:A:THR:HA	7	0.33	0.28	0.2
(2,1095)	1:36:A:ILE:HG22	1:40:A:GLU:HG3	7	0.33	0.11	0.35
(2,1095)	1:36:A:ILE:HG21	1:40:A:GLU:HG3	7	0.33	0.11	0.35
(2,1095)	1:36:A:ILE:HG23	1:40:A:GLU:HG3	7	0.33	0.11	0.35
(2,1421)	1:15:A:GLU:HB3	1:18:A:ASN:HB3	7	0.31	0.08	0.31
(2,1421)	1:15:A:GLU:HB2	1:18:A:ASN:HB3	7	0.31	0.08	0.31
(2,1421)	1:19:A:GLU:HB3	1:18:A:ASN:HB3	7	0.31	0.08	0.31
(2,1084)	1:28:A:VAL:HG11	1:27:A:PHE:HA	7	0.28	0.15	0.21
(2,1084)	1:28:A:VAL:HG13	1:27:A:PHE:HA	7	0.28	0.15	0.21
(2,1084)	1:28:A:VAL:HG12	1:27:A:PHE:HA	7	0.28	0.15	0.21
(2,673)	1:8:A:ALA:HB3	1:82:A:VAL:HG13	7	0.28	0.12	0.32
(2,673)	1:8:A:ALA:HB2	1:82:A:VAL:HG11	7	0.28	0.12	0.32
(2,673)	1:8:A:ALA:HB2	1:82:A:VAL:HG12	7	0.28	0.12	0.32
(2,673)	1:8:A:ALA:HB1	1:82:A:VAL:HG12	7	0.28	0.12	0.32
(2,673)	1:8:A:ALA:HB1	1:82:A:VAL:HG11	7	0.28	0.12	0.32
(2,518)	1:140:A:ARG:HA	1:141:A:PRO:HG3	7	0.26	0.08	0.27
(2,824)	1:158:A:LEU:HD12	1:158:A:LEU:HD22	7	0.26	0.09	0.29
(2,824)	1:158:A:LEU:HD11	1:158:A:LEU:HD23	7	0.26	0.09	0.29
(2,824)	1:158:A:LEU:HD11	1:158:A:LEU:HD21	7	0.26	0.09	0.29
(2,824)	1:158:A:LEU:HD12	1:158:A:LEU:HD23	7	0.26	0.09	0.29
(2,781)	1:9:A:VAL:HG12	1:78:A:LEU:HB3	7	0.25	0.08	0.27
(2,781)	1:9:A:VAL:HG11	1:78:A:LEU:HB3	7	0.25	0.08	0.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,781)	1:9:A:VAL:HG13	1:78:A:LEU:HB3	7	0.25	0.08	0.27
(2,894)	1:28:A:VAL:HG23	1:27:A:PHE:HB3	7	0.24	0.06	0.24
(2,894)	1:28:A:VAL:HG22	1:27:A:PHE:HB3	7	0.24	0.06	0.24
(2,894)	1:28:A:VAL:HG21	1:27:A:PHE:HB3	7	0.24	0.06	0.24
(2,482)	1:19:A:GLU:HG2	1:22:A:ALA:HB1	7	0.24	0.11	0.26
(2,482)	1:19:A:GLU:HG2	1:22:A:ALA:HB2	7	0.24	0.11	0.26
(2,482)	1:19:A:GLU:HG2	1:22:A:ALA:HB3	7	0.24	0.11	0.26
(2,174)	1:55:A:GLU:HA	1:58:A:GLN:HB2	7	0.23	0.06	0.24
(2,174)	1:55:A:GLU:HA	1:58:A:GLN:HB3	7	0.23	0.06	0.24
(2,1362)	1:64:A:VAL:HG13	1:76:A:GLU:HA	7	0.2	0.08	0.21
(2,1118)	1:65:A:ASP:HB3	1:64:A:VAL:HG22	7	0.18	0.08	0.17
(2,1118)	1:65:A:ASP:HB3	1:64:A:VAL:HG23	7	0.18	0.08	0.17
(2,1211)	1:18:A:ASN:HB3	1:19:A:GLU:HB2	7	0.18	0.07	0.18
(2,1300)	1:150:A:ALA:HA	1:150:A:ALA:HB2	7	0.18	0.05	0.18
(2,1300)	1:150:A:ALA:HA	1:150:A:ALA:HB1	7	0.18	0.05	0.18
(2,1300)	1:150:A:ALA:HA	1:150:A:ALA:HB3	7	0.18	0.05	0.18
(2,1240)	1:40:A:GLU:HB3	1:36:A:ILE:HG12	7	0.18	0.06	0.19
(2,742)	1:35:A:SER:HB2	1:71:A:THR:HG22	7	0.18	0.05	0.18
(2,742)	1:35:A:SER:HB2	1:71:A:THR:HG21	7	0.18	0.05	0.18
(2,742)	1:35:A:SER:HB2	1:71:A:THR:HG23	7	0.18	0.05	0.18
(2,662)	1:22:A:ALA:HB3	1:22:A:ALA:HA	7	0.15	0.02	0.14
(2,662)	1:22:A:ALA:HB2	1:22:A:ALA:HA	7	0.15	0.02	0.14
(2,662)	1:22:A:ALA:HB1	1:22:A:ALA:HA	7	0.15	0.02	0.14
(2,918)	1:44:A:VAL:HG12	1:27:A:PHE:HA	7	0.13	0.03	0.12
(2,918)	1:44:A:VAL:HG13	1:27:A:PHE:HA	7	0.13	0.03	0.12
(2,918)	1:44:A:VAL:HG11	1:27:A:PHE:HA	7	0.13	0.03	0.12
(2,1401)	1:85:A:MET:HG3	1:82:A:VAL:HG21	6	0.58	0.43	0.5
(2,1401)	1:85:A:MET:HG3	1:82:A:VAL:HG23	6	0.58	0.43	0.5
(2,1401)	1:85:A:MET:HG3	1:82:A:VAL:HG22	6	0.58	0.43	0.5
(2,214)	1:136:A:GLY:HA2	1:90:A:LYS:HE2	6	0.53	0.15	0.54
(2,214)	1:136:A:GLY:HA3	1:90:A:LYS:HE3	6	0.53	0.15	0.54
(2,214)	1:136:A:GLY:HA3	1:90:A:LYS:HE2	6	0.53	0.15	0.54
(2,214)	1:136:A:GLY:HA2	1:90:A:LYS:HE3	6	0.53	0.15	0.54
(2,789)	1:146:A:VAL:HG23	1:147:A:ARG:HD2	6	0.5	0.25	0.47
(2,789)	1:146:A:VAL:HG21	1:147:A:ARG:HD2	6	0.5	0.25	0.47
(2,789)	1:146:A:VAL:HG21	1:147:A:ARG:HD3	6	0.5	0.25	0.47
(2,703)	1:13:A:THR:HG22	1:16:A:GLN:HG3	6	0.49	0.12	0.48
(2,703)	1:13:A:THR:HG21	1:16:A:GLN:HG3	6	0.49	0.12	0.48
(2,703)	1:13:A:THR:HG23	1:16:A:GLN:HG3	6	0.49	0.12	0.48
(2,1390)	1:71:A:THR:HB	1:61:A:ILE:HG22	6	0.48	0.13	0.53
(2,1390)	1:71:A:THR:HB	1:61:A:ILE:HG21	6	0.48	0.13	0.53
(2,1390)	1:71:A:THR:HB	1:61:A:ILE:HG23	6	0.48	0.13	0.53

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,502)	1:85:A:MET:HG2	1:85:A:MET:HE2	6	0.47	0.06	0.47
(2,502)	1:85:A:MET:HG2	1:85:A:MET:HE3	6	0.47	0.06	0.47
(2,502)	1:85:A:MET:HG2	1:85:A:MET:HE1	6	0.47	0.06	0.47
(2,1246)	1:47:A:MET:HB3	1:48:A:LEU:HD21	6	0.43	0.3	0.34
(2,1246)	1:47:A:MET:HB3	1:48:A:LEU:HD23	6	0.43	0.3	0.34
(2,1246)	1:47:A:MET:HB3	1:48:A:LEU:HD22	6	0.43	0.3	0.34
(2,1120)	1:77:A:PHE:HA	1:81:A:MET:HE2	6	0.4	0.08	0.42
(2,1120)	1:77:A:PHE:HA	1:81:A:MET:HE3	6	0.4	0.08	0.42
(2,1120)	1:77:A:PHE:HA	1:81:A:MET:HE1	6	0.4	0.08	0.42
(2,1361)	1:41:A:LEU:HD22	1:61:A:ILE:HG13	6	0.33	0.11	0.33
(2,1361)	1:41:A:LEU:HD23	1:61:A:ILE:HG13	6	0.33	0.11	0.33
(2,1361)	1:41:A:LEU:HD21	1:61:A:ILE:HG13	6	0.33	0.11	0.33
(2,1307)	1:7:A:ALA:HB3	1:11:A:GLN:HB2	6	0.33	0.15	0.34
(2,1307)	1:7:A:ALA:HB1	1:11:A:GLN:HB2	6	0.33	0.15	0.34
(2,1343)	1:146:A:VAL:HG21	1:145:A:ARG:HA	6	0.32	0.11	0.36
(2,1343)	1:146:A:VAL:HG22	1:145:A:ARG:HA	6	0.32	0.11	0.36
(2,1343)	1:148:A:ILE:HA	1:146:A:VAL:HG22	6	0.32	0.11	0.36
(2,780)	1:64:A:VAL:HG21	1:80:A:MET:HB3	6	0.32	0.13	0.38
(2,780)	1:64:A:VAL:HG22	1:80:A:MET:HB3	6	0.32	0.13	0.38
(2,383)	1:75:A:ASP:HB2	1:1:A:MET:HE2	6	0.31	0.21	0.22
(2,383)	1:75:A:ASP:HB2	1:1:A:MET:HE3	6	0.31	0.21	0.22
(2,383)	1:75:A:ASP:HB2	1:1:A:MET:HE1	6	0.31	0.21	0.22
(2,301)	1:61:A:ILE:HA	1:64:A:VAL:HG22	6	0.3	0.12	0.3
(2,301)	1:61:A:ILE:HA	1:64:A:VAL:HG23	6	0.3	0.12	0.3
(2,313)	1:77:A:PHE:HB2	1:72:A:VAL:HG13	6	0.28	0.1	0.24
(2,313)	1:77:A:PHE:HB2	1:72:A:VAL:HG12	6	0.28	0.1	0.24
(2,313)	1:77:A:PHE:HB2	1:72:A:VAL:HG11	6	0.28	0.1	0.24
(2,947)	1:38:A:THR:HG21	1:61:A:ILE:HA	6	0.26	0.13	0.24
(2,947)	1:38:A:THR:HG23	1:61:A:ILE:HA	6	0.26	0.13	0.24
(2,455)	1:16:A:GLN:HG3	1:12:A:LEU:HD22	6	0.26	0.07	0.28
(2,455)	1:16:A:GLN:HG3	1:12:A:LEU:HD23	6	0.26	0.07	0.28
(2,938)	1:31:A:ALA:HB2	1:28:A:VAL:HG11	6	0.25	0.07	0.25
(2,938)	1:31:A:ALA:HB3	1:28:A:VAL:HG12	6	0.25	0.07	0.25
(2,938)	1:31:A:ALA:HB2	1:28:A:VAL:HG12	6	0.25	0.07	0.25
(2,938)	1:31:A:ALA:HB2	1:28:A:VAL:HG13	6	0.25	0.07	0.25
(2,843)	1:64:A:VAL:HG22	1:64:A:VAL:HG11	6	0.24	0.08	0.22
(2,843)	1:64:A:VAL:HG21	1:64:A:VAL:HG11	6	0.24	0.08	0.22
(2,843)	1:64:A:VAL:HG21	1:64:A:VAL:HG12	6	0.24	0.08	0.22
(2,843)	1:64:A:VAL:HG22	1:64:A:VAL:HG13	6	0.24	0.08	0.22
(2,873)	1:4:A:ILE:HG12	1:4:A:ILE:HD12	6	0.22	0.04	0.24
(2,873)	1:4:A:ILE:HG13	1:4:A:ILE:HD11	6	0.22	0.04	0.24
(2,873)	1:4:A:ILE:HG13	1:4:A:ILE:HD13	6	0.22	0.04	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,873)	1:4:A:ILE:HG12	1:4:A:ILE:HD13	6	0.22	0.04	0.24
(2,1094)	1:40:A:GLU:HG2	1:36:A:ILE:HG22	6	0.22	0.07	0.22
(2,1094)	1:40:A:GLU:HG2	1:36:A:ILE:HG23	6	0.22	0.07	0.22
(2,1094)	1:40:A:GLU:HG2	1:36:A:ILE:HG21	6	0.22	0.07	0.22
(2,1224)	1:85:A:MET:HG2	1:85:A:MET:HB2	6	0.21	0.01	0.21
(2,1167)	1:45:A:MET:HA	1:48:A:LEU:HD13	6	0.18	0.06	0.16
(2,1167)	1:45:A:MET:HA	1:48:A:LEU:HD11	6	0.18	0.06	0.16
(2,761)	1:12:A:LEU:HD13	1:12:A:LEU:HA	6	0.17	0.04	0.18
(2,761)	1:12:A:LEU:HD12	1:12:A:LEU:HA	6	0.17	0.04	0.18
(2,761)	1:12:A:LEU:HD11	1:12:A:LEU:HA	6	0.17	0.04	0.18
(2,1051)	1:41:A:LEU:HA	1:41:A:LEU:HD11	6	0.16	0.06	0.14
(2,1051)	1:41:A:LEU:HA	1:41:A:LEU:HD12	6	0.16	0.06	0.14
(2,236)	1:141:A:PRO:HD3	1:141:A:PRO:HB3	6	0.14	0.02	0.14
(2,488)	1:10:A:GLU:HA	1:10:A:GLU:HB3	6	0.14	0.01	0.14
(2,444)	1:40:A:GLU:HG3	1:40:A:GLU:HB2	6	0.12	0.01	0.12
(2,1382)	1:61:A:ILE:HD11	1:58:A:GLN:HG3	5	0.95	0.57	0.73
(2,1382)	1:45:A:MET:HG3	1:61:A:ILE:HD11	5	0.95	0.57	0.73
(2,1210)	1:6:A:LYS:HE2	1:10:A:GLU:HB2	5	0.69	0.24	0.57
(2,1210)	1:6:A:LYS:HE3	1:79:A:VAL:HB	5	0.69	0.24	0.57
(2,1210)	1:6:A:LYS:HE3	1:10:A:GLU:HB2	5	0.69	0.24	0.57
(2,823)	1:143:A:LEU:HD22	1:142:A:THR:HG22	5	0.59	0.17	0.61
(2,823)	1:143:A:LEU:HD21	1:142:A:THR:HG23	5	0.59	0.17	0.61
(2,823)	1:143:A:LEU:HD23	1:142:A:THR:HG22	5	0.59	0.17	0.61
(2,797)	1:146:A:VAL:HA	1:146:A:VAL:HG21	5	0.56	0.15	0.58
(2,797)	1:146:A:VAL:HA	1:146:A:VAL:HG22	5	0.56	0.15	0.58
(2,515)	1:1:A:MET:HB3	1:6:A:LYS:HB2	5	0.52	0.19	0.59
(2,515)	1:1:A:MET:HB2	1:6:A:LYS:HB2	5	0.52	0.19	0.59
(2,143)	1:40:A:GLU:HA	1:43:A:LYS:HB3	5	0.39	0.05	0.4
(2,621)	1:52:A:PRO:HD2	1:45:A:MET:HE1	5	0.37	0.13	0.36
(2,621)	1:52:A:PRO:HD2	1:45:A:MET:HE2	5	0.37	0.13	0.36
(2,621)	1:52:A:PRO:HD2	1:45:A:MET:HE3	5	0.37	0.13	0.36
(2,974)	1:79:A:VAL:HG21	1:1:A:MET:HA	5	0.36	0.05	0.37
(2,974)	1:79:A:VAL:HG22	1:1:A:MET:HA	5	0.36	0.05	0.37
(2,1185)	1:16:A:GLN:HA	1:16:A:GLN:HB3	5	0.35	0.04	0.36
(2,1185)	1:16:A:GLN:HA	1:16:A:GLN:HG2	5	0.35	0.04	0.36
(2,77)	1:48:A:LEU:HA	1:156:A:ALA:HB1	5	0.34	0.16	0.26
(2,77)	1:48:A:LEU:HA	1:156:A:ALA:HB2	5	0.34	0.16	0.26
(2,434)	1:19:A:GLU:HG3	1:158:A:LEU:HD13	5	0.34	0.11	0.37
(2,434)	1:19:A:GLU:HG3	1:158:A:LEU:HD12	5	0.34	0.11	0.37
(2,434)	1:19:A:GLU:HG3	1:158:A:LEU:HD11	5	0.34	0.11	0.37
(2,994)	1:4:A:ILE:HA	1:7:A:ALA:HB3	5	0.32	0.08	0.34
(2,994)	1:4:A:ILE:HA	1:7:A:ALA:HB1	5	0.32	0.08	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,994)	1:4:A:ILE:HA	1:7:A:ALA:HB2	5	0.32	0.08	0.34
(2,643)	1:139:A:LYS:HE2	1:140:A:ARG:HG2	5	0.32	0.13	0.38
(2,643)	1:139:A:LYS:HE2	1:140:A:ARG:HG3	5	0.32	0.13	0.38
(2,1366)	1:45:A:MET:HE2	1:57:A:LEU:HD22	5	0.3	0.14	0.23
(2,1366)	1:52:A:PRO:HG3	1:57:A:LEU:HD22	5	0.3	0.14	0.23
(2,1366)	1:45:A:MET:HE3	1:57:A:LEU:HD23	5	0.3	0.14	0.23
(2,177)	1:57:A:LEU:HA	1:60:A:MET:HE1	5	0.3	0.1	0.29
(2,177)	1:57:A:LEU:HA	1:60:A:MET:HE2	5	0.3	0.1	0.29
(2,177)	1:57:A:LEU:HA	1:60:A:MET:HE3	5	0.3	0.1	0.29
(2,237)	1:141:A:PRO:HD3	1:140:A:ARG:HB2	5	0.3	0.11	0.29
(2,638)	1:140:A:ARG:HA	1:140:A:ARG:HG3	5	0.3	0.02	0.3
(2,1024)	1:28:A:VAL:HG12	1:35:A:SER:HB3	5	0.25	0.04	0.26
(2,1024)	1:28:A:VAL:HG13	1:35:A:SER:HB3	5	0.25	0.04	0.26
(2,1436)	1:61:A:ILE:HD12	1:37:A:SER:HB3	5	0.24	0.11	0.25
(2,1436)	1:61:A:ILE:HD13	1:37:A:SER:HB3	5	0.24	0.11	0.25
(2,324)	1:141:A:PRO:HD3	1:140:A:ARG:HD3	5	0.23	0.01	0.23
(2,324)	1:141:A:PRO:HD3	1:140:A:ARG:HD2	5	0.23	0.01	0.23
(2,514)	1:1:A:MET:HE2	1:76:A:GLU:HG3	5	0.23	0.07	0.25
(2,514)	1:1:A:MET:HE3	1:76:A:GLU:HG3	5	0.23	0.07	0.25
(2,514)	1:1:A:MET:HE1	1:76:A:GLU:HG3	5	0.23	0.07	0.25
(2,782)	1:72:A:VAL:HG12	1:64:A:VAL:HG22	5	0.23	0.1	0.22
(2,782)	1:72:A:VAL:HG11	1:64:A:VAL:HG22	5	0.23	0.1	0.22
(2,782)	1:72:A:VAL:HG11	1:64:A:VAL:HG23	5	0.23	0.1	0.22
(2,812)	1:26:A:ILE:HG22	1:27:A:PHE:HA	5	0.22	0.05	0.22
(2,812)	1:26:A:ILE:HG21	1:27:A:PHE:HA	5	0.22	0.05	0.22
(2,812)	1:26:A:ILE:HG23	1:27:A:PHE:HA	5	0.22	0.05	0.22
(2,890)	1:28:A:VAL:HG21	1:24:A:PHE:HD1	5	0.21	0.03	0.21
(2,890)	1:28:A:VAL:HG23	1:24:A:PHE:HD1	5	0.21	0.03	0.21
(2,890)	1:28:A:VAL:HG22	1:24:A:PHE:HD1	5	0.21	0.03	0.21
(2,558)	1:55:A:GLU:HB2	1:55:A:GLU:HG2	5	0.21	0.03	0.22
(2,1148)	1:65:A:ASP:HA	1:64:A:VAL:HG22	5	0.2	0.06	0.17
(2,1148)	1:65:A:ASP:HA	1:64:A:VAL:HG23	5	0.2	0.06	0.17
(2,676)	1:34:A:GLY:HA3	1:31:A:ALA:HB3	5	0.19	0.05	0.22
(2,676)	1:34:A:GLY:HA3	1:31:A:ALA:HB1	5	0.19	0.05	0.22
(2,676)	1:34:A:GLY:HA3	1:31:A:ALA:HB2	5	0.19	0.05	0.22
(2,205)	1:6:A:LYS:HA	1:9:A:VAL:HG21	5	0.19	0.09	0.14
(2,205)	1:6:A:LYS:HA	1:9:A:VAL:HG23	5	0.19	0.09	0.14
(2,205)	1:6:A:LYS:HA	1:9:A:VAL:HG22	5	0.19	0.09	0.14
(2,233)	1:83:A:ARG:HA	1:5:A:TYR:HD1	5	0.17	0.05	0.17
(2,224)	1:82:A:VAL:HA	1:85:A:MET:HG2	5	0.17	0.04	0.18
(2,491)	1:79:A:VAL:HB	1:83:A:ARG:HG3	5	0.16	0.04	0.13
(2,194)	1:76:A:GLU:HA	1:79:A:VAL:HG22	5	0.15	0.03	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,194)	1:76:A:GLU:HA	1:79:A:VAL:HG23	5	0.15	0.03	0.14
(2,194)	1:76:A:GLU:HA	1:79:A:VAL:HG21	5	0.15	0.03	0.14
(2,1429)	1:27:A:PHE:HA	1:27:A:PHE:HD1	5	0.13	0.02	0.13
(2,1010)	1:78:A:LEU:HA	1:81:A:MET:HB2	5	0.13	0.02	0.13
(2,79)	1:158:A:LEU:HA	1:158:A:LEU:HG	5	0.13	0.02	0.11
(2,20)	1:71:A:THR:HA	1:36:A:ILE:HA	5	0.12	0.02	0.13
(2,1426)	1:24:A:PHE:HA	1:21:A:LYS:HD2	5	0.12	0.02	0.12
(2,289)	1:80:A:MET:HA	1:80:A:MET:HB3	5	0.12	0.01	0.12
(2,413)	1:55:A:GLU:HG2	1:55:A:GLU:HA	5	0.12	0.0	0.12
(2,65)	1:141:A:PRO:HA	1:141:A:PRO:HG3	4	0.72	0.01	0.72
(2,801)	1:143:A:LEU:HD13	1:142:A:THR:HG23	4	0.67	0.35	0.64
(2,801)	1:143:A:LEU:HD12	1:142:A:THR:HG23	4	0.67	0.35	0.64
(2,801)	1:143:A:LEU:HD11	1:142:A:THR:HG22	4	0.67	0.35	0.64
(2,1408)	1:57:A:LEU:HD22	1:60:A:MET:HE1	4	0.62	0.23	0.56
(2,1408)	1:57:A:LEU:HD23	1:60:A:MET:HE3	4	0.62	0.23	0.56
(2,1408)	1:57:A:LEU:HD23	1:60:A:MET:HE1	4	0.62	0.23	0.56
(2,1408)	1:57:A:LEU:HD22	1:60:A:MET:HE2	4	0.62	0.23	0.56
(2,1181)	1:136:A:GLY:HA3	1:137:A:LYS:HB3	4	0.53	0.2	0.57
(2,1181)	1:136:A:GLY:HA2	1:137:A:LYS:HB2	4	0.53	0.2	0.57
(2,1181)	1:136:A:GLY:HA3	1:137:A:LYS:HB2	4	0.53	0.2	0.57
(2,86)	1:90:A:LYS:HA	1:90:A:LYS:HG2	4	0.5	0.07	0.48
(2,86)	1:90:A:LYS:HA	1:90:A:LYS:HG3	4	0.5	0.07	0.48
(2,288)	1:80:A:MET:HA	1:80:A:MET:HG2	4	0.44	0.11	0.43
(2,501)	1:85:A:MET:HG3	1:85:A:MET:HE3	4	0.42	0.02	0.42
(2,501)	1:85:A:MET:HG3	1:85:A:MET:HE2	4	0.42	0.02	0.42
(2,1176)	1:84:A:SER:HB3	1:147:A:ARG:HB2	4	0.42	0.03	0.42
(2,1176)	1:84:A:SER:HB2	1:148:A:ILE:HB	4	0.42	0.03	0.42
(2,240)	1:141:A:PRO:HD3	1:140:A:ARG:HG3	4	0.39	0.2	0.38
(2,240)	1:141:A:PRO:HD3	1:140:A:ARG:HG2	4	0.39	0.2	0.38
(2,1034)	1:57:A:LEU:HD22	1:52:A:PRO:HD2	4	0.34	0.08	0.34
(2,1034)	1:57:A:LEU:HD21	1:52:A:PRO:HD2	4	0.34	0.08	0.34
(2,1227)	1:153:A:MET:HG3	1:148:A:ILE:HG13	4	0.33	0.2	0.28
(2,1310)	1:57:A:LEU:HA	1:38:A:THR:HG21	4	0.32	0.09	0.36
(2,1310)	1:57:A:LEU:HA	1:38:A:THR:HG23	4	0.32	0.09	0.36
(2,1310)	1:57:A:LEU:HA	1:38:A:THR:HG22	4	0.32	0.09	0.36
(2,1309)	1:13:A:THR:HG21	1:16:A:GLN:HB3	4	0.31	0.06	0.3
(2,1309)	1:13:A:THR:HG23	1:16:A:GLN:HG2	4	0.31	0.06	0.3
(2,1309)	1:13:A:THR:HG23	1:16:A:GLN:HB3	4	0.31	0.06	0.3
(2,784)	1:9:A:VAL:HG12	1:78:A:LEU:HD12	4	0.28	0.09	0.24
(2,784)	1:9:A:VAL:HG11	1:78:A:LEU:HD11	4	0.28	0.09	0.24
(2,784)	1:9:A:VAL:HG12	1:78:A:LEU:HD11	4	0.28	0.09	0.24
(2,784)	1:9:A:VAL:HG13	1:78:A:LEU:HD11	4	0.28	0.09	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1372)	1:79:A:VAL:HG11	1:83:A:ARG:HB2	4	0.28	0.12	0.29
(2,1372)	1:79:A:VAL:HG12	1:83:A:ARG:HB2	4	0.28	0.12	0.29
(2,1372)	1:79:A:VAL:HG13	1:83:A:ARG:HB2	4	0.28	0.12	0.29
(2,548)	1:154:A:MET:HE2	1:158:A:LEU:HD23	4	0.27	0.15	0.26
(2,548)	1:154:A:MET:HE3	1:158:A:LEU:HD23	4	0.27	0.15	0.26
(2,401)	1:33:A:ASP:HB3	1:32:A:GLU:HB3	4	0.25	0.09	0.22
(2,401)	1:33:A:ASP:HB3	1:32:A:GLU:HB2	4	0.25	0.09	0.22
(2,972)	1:1:A:MET:HG3	1:79:A:VAL:HG21	4	0.25	0.12	0.22
(2,972)	1:1:A:MET:HG3	1:79:A:VAL:HG22	4	0.25	0.12	0.22
(2,188)	1:159:A:GLY:HA2	1:160:A:ALA:HB1	4	0.22	0.09	0.24
(2,188)	1:159:A:GLY:HA2	1:160:A:ALA:HB3	4	0.22	0.09	0.24
(2,1060)	1:10:A:GLU:HA	1:9:A:VAL:HG12	4	0.22	0.11	0.18
(2,1060)	1:10:A:GLU:HA	1:9:A:VAL:HG13	4	0.22	0.11	0.18
(2,1149)	1:64:A:VAL:HA	1:76:A:GLU:HB3	4	0.22	0.11	0.19
(2,1149)	1:64:A:VAL:HA	1:63:A:GLU:HB3	4	0.22	0.11	0.19
(2,435)	1:16:A:GLN:HB3	1:12:A:LEU:HD22	4	0.22	0.02	0.22
(2,435)	1:16:A:GLN:HB3	1:12:A:LEU:HD21	4	0.22	0.02	0.22
(2,435)	1:16:A:GLN:HB3	1:12:A:LEU:HD23	4	0.22	0.02	0.22
(2,1282)	1:44:A:VAL:HB	1:26:A:ILE:HG21	4	0.2	0.05	0.18
(2,1282)	1:44:A:VAL:HB	1:26:A:ILE:HG23	4	0.2	0.05	0.18
(2,1282)	1:44:A:VAL:HB	1:26:A:ILE:HG22	4	0.2	0.05	0.18
(2,182)	1:150:A:ALA:HA	1:148:A:ILE:HG21	4	0.2	0.09	0.16
(2,182)	1:150:A:ALA:HA	1:148:A:ILE:HG22	4	0.2	0.09	0.16
(2,182)	1:150:A:ALA:HA	1:148:A:ILE:HG23	4	0.2	0.09	0.16
(2,257)	1:38:A:THR:HA	1:57:A:LEU:HD11	4	0.2	0.08	0.16
(2,257)	1:38:A:THR:HA	1:57:A:LEU:HD12	4	0.2	0.08	0.16
(2,257)	1:38:A:THR:HA	1:57:A:LEU:HD13	4	0.2	0.08	0.16
(2,920)	1:44:A:VAL:HG13	1:45:A:MET:HG2	4	0.19	0.08	0.16
(2,920)	1:44:A:VAL:HG12	1:45:A:MET:HG2	4	0.19	0.08	0.16
(2,49)	1:18:A:ASN:HA	1:21:A:LYS:HG2	4	0.18	0.04	0.2
(2,81)	1:85:A:MET:HA	1:85:A:MET:HB3	4	0.18	0.04	0.2
(2,1424)	1:47:A:MET:HA	1:48:A:LEU:HD21	4	0.18	0.04	0.15
(2,1424)	1:47:A:MET:HA	1:48:A:LEU:HD23	4	0.18	0.04	0.15
(2,657)	1:137:A:LYS:HD3	1:137:A:LYS:HA	4	0.17	0.01	0.17
(2,657)	1:137:A:LYS:HD2	1:137:A:LYS:HA	4	0.17	0.01	0.17
(2,1173)	1:15:A:GLU:HA	1:15:A:GLU:HB2	4	0.17	0.07	0.16
(2,919)	1:44:A:VAL:HG12	1:153:A:MET:HG2	4	0.17	0.04	0.16
(2,919)	1:44:A:VAL:HG13	1:153:A:MET:HG2	4	0.17	0.04	0.16
(2,919)	1:44:A:VAL:HG11	1:153:A:MET:HG2	4	0.17	0.04	0.16
(2,144)	1:40:A:GLU:HA	1:43:A:LYS:HD2	4	0.16	0.04	0.16
(2,1208)	1:6:A:LYS:HE3	1:6:A:LYS:HD2	4	0.15	0.04	0.16
(2,1208)	1:90:A:LYS:HE3	1:90:A:LYS:HD2	4	0.15	0.04	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1208)	1:90:A:LYS:HE2	1:90:A:LYS:HD3	4	0.15	0.04	0.16
(2,1303)	1:39:A:LYS:HB2	1:39:A:LYS:HG2	4	0.15	0.04	0.15
(2,1303)	1:90:A:LYS:HB2	1:90:A:LYS:HG3	4	0.15	0.04	0.15
(2,1019)	1:78:A:LEU:HD22	1:17:A:LYS:HA	4	0.15	0.03	0.15
(2,1019)	1:78:A:LEU:HD23	1:17:A:LYS:HA	4	0.15	0.03	0.15
(2,1019)	1:78:A:LEU:HD21	1:17:A:LYS:HA	4	0.15	0.03	0.15
(2,327)	1:147:A:ARG:HD3	1:147:A:ARG:HB2	4	0.15	0.05	0.13
(2,327)	1:147:A:ARG:HD2	1:147:A:ARG:HB2	4	0.15	0.05	0.13
(2,148)	1:10:A:GLU:HA	1:10:A:GLU:HG2	4	0.13	0.02	0.12
(2,1188)	1:58:A:GLN:HA	1:61:A:ILE:HG23	3	0.77	0.31	0.9
(2,1188)	1:58:A:GLN:HA	1:61:A:ILE:HG21	3	0.77	0.31	0.9
(2,1188)	1:58:A:GLN:HA	1:61:A:ILE:HD12	3	0.77	0.31	0.9
(2,653)	1:137:A:LYS:HB2	1:139:A:LYS:HG3	3	0.66	0.35	0.43
(2,653)	1:137:A:LYS:HB3	1:139:A:LYS:HG2	3	0.66	0.35	0.43
(2,95)	1:139:A:LYS:HA	1:139:A:LYS:HG2	3	0.57	0.24	0.67
(2,95)	1:139:A:LYS:HA	1:139:A:LYS:HG3	3	0.57	0.24	0.67
(2,1255)	1:85:A:MET:HE1	1:81:A:MET:HA	3	0.42	0.02	0.41
(2,1255)	1:85:A:MET:HE3	1:81:A:MET:HA	3	0.42	0.02	0.41
(2,402)	1:1:A:MET:HG2	1:79:A:VAL:HG22	3	0.4	0.21	0.29
(2,402)	1:1:A:MET:HG2	1:79:A:VAL:HG23	3	0.4	0.21	0.29
(2,402)	1:1:A:MET:HG2	1:79:A:VAL:HG21	3	0.4	0.21	0.29
(2,1287)	1:140:A:ARG:HG2	1:141:A:PRO:HD2	3	0.4	0.24	0.35
(2,223)	1:82:A:VAL:HA	1:85:A:MET:HG3	3	0.32	0.0	0.32
(2,605)	1:161:A:ARG:HB3	1:158:A:LEU:HD22	3	0.31	0.04	0.31
(2,605)	1:161:A:ARG:HB3	1:158:A:LEU:HD23	3	0.31	0.04	0.31
(2,283)	1:52:A:PRO:HD3	1:57:A:LEU:HD23	3	0.3	0.25	0.14
(2,283)	1:52:A:PRO:HD3	1:57:A:LEU:HD22	3	0.3	0.25	0.14
(2,41)	1:140:A:ARG:HA	1:140:A:ARG:HD3	3	0.29	0.08	0.32
(2,1209)	1:39:A:LYS:HE2	1:38:A:THR:HB	3	0.25	0.13	0.25
(2,1209)	1:139:A:LYS:HE2	1:139:A:LYS:HA	3	0.25	0.13	0.25
(2,604)	1:161:A:ARG:HB3	1:161:A:ARG:HD3	3	0.25	0.11	0.21
(2,846)	1:65:A:ASP:HB3	1:61:A:ILE:HG22	3	0.23	0.04	0.23
(2,846)	1:65:A:ASP:HB3	1:61:A:ILE:HG23	3	0.23	0.04	0.23
(2,846)	1:65:A:ASP:HB3	1:61:A:ILE:HG21	3	0.23	0.04	0.23
(2,640)	1:6:A:LYS:HD2	1:6:A:LYS:HA	3	0.22	0.03	0.21
(2,1072)	1:13:A:THR:HG21	1:16:A:GLN:HG2	3	0.22	0.08	0.22
(2,1072)	1:13:A:THR:HG23	1:16:A:GLN:HG2	3	0.22	0.08	0.22
(2,639)	1:3:A:ASP:HA	1:6:A:LYS:HD2	3	0.19	0.06	0.18
(2,390)	1:151:A:ASP:HA	1:151:A:ASP:HB2	3	0.18	0.05	0.18
(2,42)	1:2:A:ASP:HA	1:2:A:ASP:HB3	3	0.18	0.04	0.17
(2,763)	1:6:A:LYS:HE2	1:9:A:VAL:HG23	3	0.17	0.04	0.16
(2,763)	1:6:A:LYS:HE3	1:9:A:VAL:HG23	3	0.17	0.04	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,813)	1:26:A:ILE:HA	1:26:A:ILE:HG23	3	0.16	0.03	0.15
(2,813)	1:26:A:ILE:HA	1:26:A:ILE:HG21	3	0.16	0.03	0.15
(2,832)	1:36:A:ILE:HG22	1:40:A:GLU:HB3	3	0.16	0.03	0.17
(2,832)	1:36:A:ILE:HG21	1:40:A:GLU:HB3	3	0.16	0.03	0.17
(2,832)	1:36:A:ILE:HG23	1:40:A:GLU:HB3	3	0.16	0.03	0.17
(2,1214)	1:6:A:LYS:HE2	1:9:A:VAL:HG23	3	0.16	0.04	0.14
(2,1214)	1:6:A:LYS:HE3	1:9:A:VAL:HG23	3	0.16	0.04	0.14
(2,1059)	1:12:A:LEU:HG	1:9:A:VAL:HA	3	0.15	0.04	0.14
(2,1243)	1:32:A:GLU:HA	1:32:A:GLU:HG3	3	0.14	0.03	0.13
(2,1243)	1:10:A:GLU:HA	1:10:A:GLU:HG3	3	0.14	0.03	0.13
(2,1243)	1:32:A:GLU:HA	1:32:A:GLU:HG2	3	0.14	0.03	0.13
(2,457)	1:53:A:THR:HA	1:54:A:PRO:HG2	3	0.13	0.02	0.12
(2,385)	1:59:A:GLU:HA	1:62:A:ASP:HB3	3	0.12	0.01	0.13
(2,1241)	1:16:A:GLN:HG2	1:12:A:LEU:HB3	3	0.11	0.01	0.12
(2,1175)	1:89:A:SER:HB2	1:88:A:ASP:HB3	2	1.18	0.08	1.18
(2,1175)	1:89:A:SER:HB3	1:88:A:ASP:HB2	2	1.18	0.08	1.18
(2,1314)	1:38:A:THR:HG23	1:61:A:ILE:HG21	2	1.09	0.06	1.09
(2,1314)	1:38:A:THR:HG23	1:61:A:ILE:HG22	2	1.09	0.06	1.09
(2,825)	1:48:A:LEU:HD11	1:44:A:VAL:HG13	2	1.0	0.03	1.0
(2,825)	1:48:A:LEU:HD12	1:44:A:VAL:HG12	2	1.0	0.03	1.0
(2,1378)	1:47:A:MET:HE1	1:44:A:VAL:HG13	2	0.9	0.02	0.9
(2,1378)	1:47:A:MET:HE3	1:44:A:VAL:HG12	2	0.9	0.02	0.9
(2,1358)	1:156:A:ALA:HB3	1:48:A:LEU:HD21	2	0.73	0.01	0.73
(2,1358)	1:156:A:ALA:HB3	1:48:A:LEU:HD22	2	0.73	0.01	0.73
(2,712)	1:58:A:GLN:HB2	1:38:A:THR:HG21	2	0.68	0.2	0.68
(2,712)	1:58:A:GLN:HB2	1:38:A:THR:HG22	2	0.68	0.2	0.68
(2,976)	1:1:A:MET:HB3	1:6:A:LYS:HE3	2	0.63	0.13	0.63
(2,866)	1:61:A:ILE:HB	1:61:A:ILE:HD13	2	0.56	0.03	0.56
(2,866)	1:61:A:ILE:HB	1:61:A:ILE:HD11	2	0.56	0.03	0.56
(2,542)	1:47:A:MET:HE1	1:44:A:VAL:HG13	2	0.55	0.01	0.55
(2,542)	1:47:A:MET:HE3	1:44:A:VAL:HG12	2	0.55	0.01	0.55
(2,975)	1:1:A:MET:HB3	1:79:A:VAL:HG21	2	0.52	0.04	0.52
(2,835)	1:153:A:MET:HE1	1:148:A:ILE:HD13	2	0.43	0.0	0.43
(2,835)	1:153:A:MET:HE1	1:148:A:ILE:HD12	2	0.43	0.0	0.43
(2,1250)	1:153:A:MET:HE1	1:148:A:ILE:HD13	2	0.43	0.0	0.43
(2,1250)	1:153:A:MET:HE1	1:148:A:ILE:HD12	2	0.43	0.0	0.43
(2,135)	1:149:A:SER:HB2	1:152:A:ALA:HB2	2	0.4	0.04	0.4
(2,135)	1:149:A:SER:HB2	1:152:A:ALA:HB1	2	0.4	0.04	0.4
(2,677)	1:40:A:GLU:HG2	1:31:A:ALA:HB1	2	0.39	0.04	0.39
(2,677)	1:40:A:GLU:HG2	1:31:A:ALA:HB3	2	0.39	0.04	0.39
(2,1038)	1:158:A:LEU:HD12	1:161:A:ARG:HD3	2	0.38	0.16	0.38
(2,1038)	1:158:A:LEU:HD12	1:161:A:ARG:HD2	2	0.38	0.16	0.38

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1155)	1:151:A:ASP:HA	1:151:A:ASP:HB2	2	0.34	0.05	0.34
(2,599)	1:56:A:GLU:HG2	1:56:A:GLU:HB2	2	0.34	0.0	0.34
(2,1194)	1:42:A:GLY:HA2	1:52:A:PRO:HG3	2	0.29	0.18	0.29
(2,1194)	1:42:A:GLY:HA2	1:45:A:MET:HE1	2	0.29	0.18	0.29
(2,335)	1:139:A:LYS:HE2	1:139:A:LYS:HG3	2	0.28	0.1	0.28
(2,335)	1:139:A:LYS:HE2	1:139:A:LYS:HG2	2	0.28	0.1	0.28
(2,1411)	1:13:A:THR:HB	1:16:A:GLN:HB3	2	0.26	0.03	0.26
(2,418)	1:63:A:GLU:HG2	1:64:A:VAL:HG12	2	0.22	0.02	0.22
(2,871)	1:41:A:LEU:HB2	1:61:A:ILE:HD13	2	0.22	0.1	0.22
(2,871)	1:41:A:LEU:HB2	1:61:A:ILE:HD12	2	0.22	0.1	0.22
(2,962)	1:36:A:ILE:HB	1:61:A:ILE:HD11	2	0.22	0.04	0.22
(2,962)	1:36:A:ILE:HB	1:61:A:ILE:HD13	2	0.22	0.04	0.22
(2,847)	1:61:A:ILE:HG12	1:61:A:ILE:HG21	2	0.22	0.04	0.22
(2,847)	1:61:A:ILE:HG12	1:61:A:ILE:HG22	2	0.22	0.04	0.22
(2,1061)	1:11:A:GLN:HB2	1:12:A:LEU:HD23	2	0.21	0.0	0.21
(2,1061)	1:11:A:GLN:HB2	1:12:A:LEU:HD21	2	0.21	0.0	0.21
(2,1337)	1:16:A:GLN:HB3	1:12:A:LEU:HD22	2	0.21	0.03	0.21
(2,1337)	1:16:A:GLN:HG2	1:12:A:LEU:HD22	2	0.21	0.03	0.21
(2,88)	1:62:A:ASP:HA	1:61:A:ILE:HG23	2	0.2	0.04	0.2
(2,1253)	1:79:A:VAL:HB	1:76:A:GLU:HA	2	0.2	0.03	0.2
(2,1352)	1:57:A:LEU:HD12	1:52:A:PRO:HG2	2	0.2	0.08	0.2
(2,1352)	1:48:A:LEU:HG	1:48:A:LEU:HD11	2	0.2	0.08	0.2
(2,582)	1:45:A:MET:HA	1:48:A:LEU:HG	2	0.2	0.01	0.2
(2,601)	1:139:A:LYS:HB2	1:139:A:LYS:HG3	2	0.2	0.02	0.2
(2,399)	1:47:A:MET:HA	1:47:A:MET:HG3	2	0.19	0.01	0.19
(2,1025)	1:35:A:SER:HA	1:73:A:ASP:HB2	2	0.19	0.02	0.19
(2,326)	1:141:A:PRO:HD2	1:140:A:ARG:HD3	2	0.18	0.03	0.18
(2,326)	1:141:A:PRO:HD2	1:140:A:ARG:HD2	2	0.18	0.03	0.18
(2,270)	1:44:A:VAL:HA	1:47:A:MET:HG3	2	0.17	0.0	0.17
(2,347)	1:14:A:GLU:HA	1:17:A:LYS:HE3	2	0.17	0.05	0.17
(2,133)	1:137:A:LYS:HA	1:137:A:LYS:HB2	2	0.16	0.02	0.16
(2,245)	1:36:A:ILE:HA	1:40:A:GLU:HG2	2	0.16	0.02	0.16
(2,242)	1:83:A:ARG:HA	1:83:A:ARG:HG3	2	0.16	0.01	0.16
(2,338)	1:40:A:GLU:HA	1:43:A:LYS:HE2	2	0.16	0.05	0.16
(2,271)	1:44:A:VAL:HA	1:47:A:MET:HB2	2	0.15	0.02	0.15
(2,261)	1:58:A:GLN:HA	1:58:A:GLN:HB3	2	0.14	0.02	0.14
(2,261)	1:58:A:GLN:HA	1:58:A:GLN:HB2	2	0.14	0.02	0.14
(2,671)	1:8:A:ALA:HB2	1:5:A:TYR:HB3	2	0.14	0.01	0.14
(2,671)	1:8:A:ALA:HB1	1:5:A:TYR:HB3	2	0.14	0.01	0.14
(2,1141)	1:72:A:VAL:HA	1:61:A:ILE:HG22	2	0.14	0.02	0.14
(2,89)	1:11:A:GLN:HA	1:11:A:GLN:HG2	2	0.13	0.01	0.13
(2,958)	1:22:A:ALA:HB1	1:26:A:ILE:HD11	2	0.13	0.02	0.13

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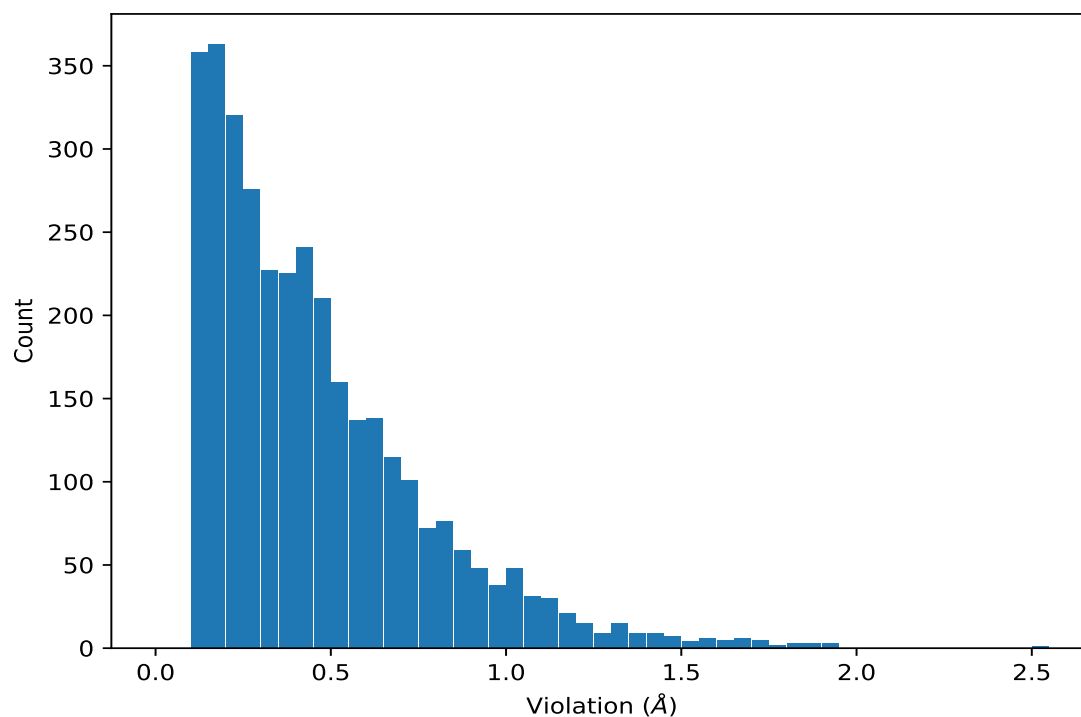
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,958)	1:22:A:ALA:HB3	1:26:A:ILE:HD12	2	0.13	0.02	0.13
(2,76)	1:154:A:MET:HA	1:158:A:LEU:HG	2	0.12	0.02	0.12
(2,305)	1:24:A:PHE:HA	1:27:A:PHE:HD1	2	0.12	0.02	0.12
(2,377)	1:83:A:ARG:HD3	1:83:A:ARG:HB3	2	0.12	0.02	0.12
(2,597)	1:56:A:GLU:HB2	1:56:A:GLU:HA	2	0.12	0.0	0.12
(2,146)	1:7:A:ALA:HA	1:7:A:ALA:HB3	2	0.11	0.0	0.11
(2,468)	1:6:A:LYS:HA	1:9:A:VAL:HB	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

9.5.1 Histogram : Distribution of distance violations [i](#)

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



9.5.2 Table : All distance violations [i](#)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1422)	1:76:A:GLU:HG3	1:80:A:MET:HE3	2	2.55
(2,1389)	1:61:A:ILE:HG23	1:60:A:MET:HA	4	1.94
(2,1389)	1:61:A:ILE:HG23	1:60:A:MET:HA	5	1.94
(2,1389)	1:61:A:ILE:HG23	1:60:A:MET:HA	2	1.93
(2,1389)	1:61:A:ILE:HG22	1:60:A:MET:HA	10	1.89
(2,1389)	1:61:A:ILE:HG22	1:60:A:MET:HA	3	1.88
(2,1389)	1:61:A:ILE:HG22	1:60:A:MET:HA	8	1.87
(2,1389)	1:61:A:ILE:HG23	1:60:A:MET:HA	9	1.83
(2,1389)	1:61:A:ILE:HG22	1:69:A:SER:HB3	1	1.81
(2,1389)	1:61:A:ILE:HG21	1:60:A:MET:HA	6	1.81
(2,1221)	1:60:A:MET:HG3	1:57:A:LEU:HD12	9	1.77
(2,1389)	1:61:A:ILE:HG21	1:60:A:MET:HA	7	1.76
(2,1040)	1:157:A:LEU:HD23	1:154:A:MET:HB3	5	1.72
(2,1040)	1:157:A:LEU:HD23	1:154:A:MET:HB3	4	1.71
(2,1040)	1:157:A:LEU:HD22	1:154:A:MET:HB3	6	1.71
(2,1382)	1:45:A:MET:HG3	1:61:A:ILE:HD11	8	1.7
(2,1040)	1:157:A:LEU:HD23	1:154:A:MET:HB3	10	1.7
(2,1221)	1:60:A:MET:HG2	1:57:A:LEU:HD12	7	1.69
(2,1221)	1:60:A:MET:HG3	1:57:A:LEU:HD12	3	1.68
(2,1040)	1:157:A:LEU:HD23	1:154:A:MET:HB3	7	1.68
(2,1422)	1:63:A:GLU:HG2	1:80:A:MET:HE2	9	1.67
(2,1269)	1:154:A:MET:HE2	1:155:A:GLN:HA	9	1.65
(2,1262)	1:11:A:GLN:HB3	1:7:A:ALA:HB1	7	1.65
(2,1040)	1:157:A:LEU:HD21	1:154:A:MET:HB3	3	1.64
(2,615)	1:43:A:LYS:HD3	1:44:A:VAL:HG12	7	1.62
(2,549)	1:154:A:MET:HE1	1:157:A:LEU:HD23	5	1.61
(2,1422)	1:63:A:GLU:HG2	1:80:A:MET:HE2	8	1.6
(2,1213)	1:6:A:LYS:HE3	1:78:A:LEU:HD11	7	1.6
(2,1388)	1:61:A:ILE:HD12	1:39:A:LYS:HA	1	1.59
(2,549)	1:154:A:MET:HE1	1:157:A:LEU:HD22	7	1.59
(2,1040)	1:157:A:LEU:HD21	1:154:A:MET:HB3	1	1.58
(2,1393)	1:26:A:ILE:HD13	1:27:A:PHE:HB2	1	1.56
(2,549)	1:154:A:MET:HE1	1:157:A:LEU:HD23	4	1.56
(2,1396)	1:28:A:VAL:HG13	1:43:A:LYS:HD2	7	1.55
(2,1040)	1:157:A:LEU:HD22	1:154:A:MET:HB3	9	1.53
(2,1388)	1:61:A:ILE:HD11	1:39:A:LYS:HA	8	1.52
(2,1269)	1:154:A:MET:HE3	1:155:A:GLN:HA	8	1.52
(2,1213)	1:6:A:LYS:HE2	1:78:A:LEU:HD13	9	1.51
(2,1404)	1:153:A:MET:HE3	1:24:A:PHE:HA	4	1.49
(2,1213)	1:6:A:LYS:HE2	1:78:A:LEU:HD12	8	1.48
(2,1382)	1:61:A:ILE:HD11	1:58:A:GLN:HG3	1	1.47
(2,1221)	1:60:A:MET:HG3	1:57:A:LEU:HD12	6	1.46
(2,1221)	1:60:A:MET:HG3	1:57:A:LEU:HD12	10	1.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1213)	1:6:A:LYS:HE2	1:78:A:LEU:HD13	4	1.45
(2,549)	1:154:A:MET:HE2	1:157:A:LEU:HD21	3	1.45
(2,1040)	1:157:A:LEU:HD21	1:154:A:MET:HB3	8	1.44
(2,549)	1:154:A:MET:HE2	1:157:A:LEU:HD22	6	1.44
(2,549)	1:154:A:MET:HE1	1:157:A:LEU:HD23	10	1.44
(2,1161)	1:38:A:THR:HB	1:57:A:LEU:HD21	8	1.43
(2,1040)	1:157:A:LEU:HD22	1:154:A:MET:HB3	2	1.42
(2,549)	1:154:A:MET:HE1	1:157:A:LEU:HD21	9	1.42
(2,1213)	1:6:A:LYS:HE3	1:78:A:LEU:HD13	6	1.41
(2,1404)	1:153:A:MET:HE3	1:24:A:PHE:HA	1	1.4
(2,1180)	1:42:A:GLY:HA3	1:45:A:MET:HE1	6	1.4
(2,1404)	1:153:A:MET:HE3	1:24:A:PHE:HA	7	1.39
(2,1396)	1:28:A:VAL:HG11	1:43:A:LYS:HD2	6	1.39
(2,1422)	1:63:A:GLU:HG2	1:80:A:MET:HE2	3	1.38
(2,1422)	1:63:A:GLU:HG2	1:80:A:MET:HE3	5	1.37
(2,1396)	1:28:A:VAL:HG12	1:43:A:LYS:HD2	9	1.36
(2,1393)	1:26:A:ILE:HD12	1:27:A:PHE:HB2	8	1.36
(2,615)	1:43:A:LYS:HD3	1:44:A:VAL:HG11	3	1.36
(2,615)	1:43:A:LYS:HD2	1:44:A:VAL:HG13	8	1.36
(2,494)	1:10:A:GLU:HB2	1:9:A:VAL:HG12	10	1.35
(2,1393)	1:26:A:ILE:HD12	1:27:A:PHE:HB2	6	1.34
(2,1269)	1:154:A:MET:HE3	1:21:A:LYS:HA	4	1.34
(2,1404)	1:153:A:MET:HE3	1:24:A:PHE:HA	3	1.33
(2,1396)	1:28:A:VAL:HG11	1:43:A:LYS:HD2	8	1.33
(2,1221)	1:60:A:MET:HG3	1:57:A:LEU:HD13	1	1.33
(2,549)	1:154:A:MET:HE1	1:157:A:LEU:HD21	1	1.33
(2,1404)	1:153:A:MET:HE3	1:24:A:PHE:HA	2	1.32
(2,1393)	1:26:A:ILE:HD11	1:27:A:PHE:HB2	2	1.31
(2,1262)	1:14:A:GLU:HB3	1:13:A:THR:HG23	3	1.31
(2,1221)	1:60:A:MET:HG3	1:57:A:LEU:HD11	8	1.31
(2,549)	1:154:A:MET:HE1	1:157:A:LEU:HD22	2	1.31
(2,1422)	1:63:A:GLU:HG2	1:80:A:MET:HE2	10	1.3
(2,1396)	1:28:A:VAL:HG11	1:43:A:LYS:HD2	4	1.3
(2,1269)	1:154:A:MET:HE3	1:21:A:LYS:HA	7	1.3
(2,549)	1:154:A:MET:HE3	1:157:A:LEU:HD21	8	1.3
(2,1422)	1:63:A:GLU:HG2	1:80:A:MET:HE2	6	1.29
(2,1404)	1:153:A:MET:HE3	1:24:A:PHE:HA	9	1.29
(2,1393)	1:26:A:ILE:HD11	1:27:A:PHE:HB2	7	1.29
(2,723)	1:142:A:THR:HG23	1:141:A:PRO:HA	6	1.28
(2,1213)	1:6:A:LYS:HE3	1:78:A:LEU:HD11	2	1.27
(2,615)	1:43:A:LYS:HD3	1:44:A:VAL:HG11	6	1.27
(2,1175)	1:89:A:SER:HB3	1:88:A:ASP:HB2	4	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1284)	1:45:A:MET:HE3	1:57:A:LEU:HD11	10	1.25
(2,1269)	1:154:A:MET:HE2	1:155:A:GLN:HA	6	1.25
(2,1405)	1:20:A:PHE:HA	1:12:A:LEU:HD11	7	1.24
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HG21	10	1.24
(2,923)	1:44:A:VAL:HG12	1:45:A:MET:HB2	5	1.24
(2,1266)	1:154:A:MET:HA	1:47:A:MET:HE3	9	1.23
(2,698)	1:7:A:ALA:HB1	1:4:A:ILE:HG23	8	1.23
(2,1269)	1:154:A:MET:HE2	1:155:A:GLN:HA	3	1.22
(2,698)	1:7:A:ALA:HB3	1:4:A:ILE:HG21	1	1.22
(2,1393)	1:26:A:ILE:HD11	1:27:A:PHE:HB2	4	1.21
(2,1284)	1:45:A:MET:HE1	1:57:A:LEU:HD13	5	1.21
(2,1266)	1:47:A:MET:HE2	1:48:A:LEU:HA	1	1.21
(2,1213)	1:6:A:LYS:HE3	1:78:A:LEU:HD11	3	1.21
(2,923)	1:44:A:VAL:HG12	1:45:A:MET:HB2	6	1.21
(2,1422)	1:63:A:GLU:HG2	1:80:A:MET:HE1	7	1.2
(2,1284)	1:45:A:MET:HE1	1:57:A:LEU:HD12	3	1.2
(2,1213)	1:6:A:LYS:HE3	1:78:A:LEU:HD13	5	1.2
(2,1193)	1:80:A:MET:HA	1:82:A:VAL:HG11	7	1.19
(2,1050)	1:45:A:MET:HG3	1:41:A:LEU:HD13	5	1.19
(2,698)	1:7:A:ALA:HB1	1:4:A:ILE:HG21	6	1.19
(2,615)	1:43:A:LYS:HD3	1:44:A:VAL:HG13	4	1.19
(2,1269)	1:154:A:MET:HE1	1:155:A:GLN:HA	10	1.18
(2,1262)	1:14:A:GLU:HB2	1:13:A:THR:HG22	8	1.18
(2,1207)	1:6:A:LYS:HE3	1:3:A:ASP:HA	5	1.18
(2,1269)	1:154:A:MET:HE1	1:155:A:GLN:HA	1	1.17
(2,1174)	1:150:A:ALA:HA	1:148:A:ILE:HD13	3	1.17
(2,923)	1:44:A:VAL:HG11	1:45:A:MET:HB2	8	1.17
(2,801)	1:143:A:LEU:HD11	1:142:A:THR:HG22	7	1.17
(2,615)	1:43:A:LYS:HD3	1:44:A:VAL:HG13	1	1.17
(2,1347)	1:38:A:THR:HG23	1:57:A:LEU:HD13	7	1.16
(2,1213)	1:6:A:LYS:HE2	1:78:A:LEU:HD13	10	1.16
(2,698)	1:7:A:ALA:HB1	1:4:A:ILE:HG22	4	1.16
(2,653)	1:137:A:LYS:HB2	1:139:A:LYS:HG3	8	1.16
(2,1401)	1:85:A:MET:HG3	1:82:A:VAL:HG22	3	1.15
(2,1347)	1:38:A:THR:HG21	1:57:A:LEU:HD11	1	1.15
(2,1314)	1:38:A:THR:HG23	1:61:A:ILE:HG22	1	1.15
(2,1266)	1:154:A:MET:HA	1:47:A:MET:HE2	8	1.15
(2,1266)	1:47:A:MET:HE2	1:48:A:LEU:HA	10	1.15
(2,1413)	1:78:A:LEU:HD22	1:21:A:LYS:HB2	9	1.14
(2,1213)	1:6:A:LYS:HE2	1:78:A:LEU:HD11	1	1.14
(2,1050)	1:45:A:MET:HG3	1:41:A:LEU:HD12	4	1.14
(2,923)	1:44:A:VAL:HG13	1:45:A:MET:HB2	9	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,167)	1:57:A:LEU:HA	1:57:A:LEU:HD11	5	1.14
(2,1413)	1:78:A:LEU:HD23	1:17:A:LYS:HB2	5	1.13
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HD11	2	1.13
(2,1432)	1:62:A:ASP:HB3	1:61:A:ILE:HG23	9	1.12
(2,1242)	1:19:A:GLU:HB2	1:158:A:LEU:HD12	9	1.12
(2,1210)	1:6:A:LYS:HE3	1:10:A:GLU:HB2	3	1.12
(2,907)	1:78:A:LEU:HD13	1:74:A:PHE:HE1	2	1.12
(2,1340)	1:157:A:LEU:HD12	1:153:A:MET:HA	3	1.11
(2,1284)	1:45:A:MET:HE3	1:57:A:LEU:HD13	4	1.11
(2,1266)	1:47:A:MET:HE2	1:48:A:LEU:HA	2	1.11
(2,1266)	1:47:A:MET:HE2	1:48:A:LEU:HA	4	1.11
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HD13	5	1.11
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HD12	6	1.11
(2,1050)	1:45:A:MET:HG2	1:41:A:LEU:HD13	1	1.11
(2,923)	1:44:A:VAL:HG12	1:45:A:MET:HB2	3	1.11
(2,923)	1:44:A:VAL:HG11	1:45:A:MET:HB2	10	1.11
(2,723)	1:142:A:THR:HG21	1:141:A:PRO:HA	7	1.11
(2,167)	1:57:A:LEU:HA	1:57:A:LEU:HD12	8	1.11
(2,1262)	1:14:A:GLU:HB3	1:13:A:THR:HG23	5	1.1
(2,1248)	1:50:A:GLN:HG2	1:48:A:LEU:HD11	10	1.1
(2,1242)	1:19:A:GLU:HB2	1:158:A:LEU:HD11	5	1.1
(2,1175)	1:89:A:SER:HB2	1:88:A:ASP:HB3	3	1.1
(2,1050)	1:45:A:MET:HG2	1:41:A:LEU:HD12	2	1.1
(2,1016)	1:78:A:LEU:HD21	1:12:A:LEU:HG	4	1.1
(2,923)	1:44:A:VAL:HG12	1:45:A:MET:HB2	2	1.1
(2,698)	1:7:A:ALA:HB3	1:4:A:ILE:HG21	9	1.1
(2,1430)	1:157:A:LEU:HD23	1:27:A:PHE:HA	2	1.09
(2,1420)	1:41:A:LEU:HD23	1:52:A:PRO:HG3	2	1.09
(2,1413)	1:78:A:LEU:HD22	1:21:A:LYS:HB2	8	1.09
(2,1404)	1:153:A:MET:HE3	1:24:A:PHE:HA	10	1.09
(2,1329)	1:5:A:TYR:HA	1:9:A:VAL:HG23	8	1.09
(2,1050)	1:45:A:MET:HG3	1:41:A:LEU:HD13	3	1.09
(2,723)	1:142:A:THR:HG21	1:141:A:PRO:HA	9	1.09
(2,723)	1:142:A:THR:HG22	1:141:A:PRO:HA	10	1.09
(2,167)	1:57:A:LEU:HA	1:57:A:LEU:HD11	4	1.09
(2,1221)	1:154:A:MET:HG2	1:158:A:LEU:HD23	5	1.08
(2,698)	1:7:A:ALA:HB2	1:4:A:ILE:HG21	7	1.08
(2,167)	1:57:A:LEU:HA	1:57:A:LEU:HD13	6	1.08
(2,167)	1:57:A:LEU:HA	1:57:A:LEU:HD13	9	1.08
(2,1284)	1:45:A:MET:HE2	1:57:A:LEU:HD12	6	1.07
(2,1269)	1:154:A:MET:HE3	1:21:A:LYS:HA	5	1.07
(2,167)	1:57:A:LEU:HA	1:57:A:LEU:HD12	2	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1193)	1:80:A:MET:HA	1:82:A:VAL:HG11	10	1.06
(2,1188)	1:58:A:GLN:HA	1:61:A:ILE:HG21	1	1.06
(2,1016)	1:78:A:LEU:HD22	1:12:A:LEU:HG	5	1.06
(2,167)	1:57:A:LEU:HA	1:57:A:LEU:HD13	3	1.06
(2,1434)	1:83:A:ARG:HA	1:82:A:VAL:HB	5	1.05
(2,1413)	1:78:A:LEU:HD21	1:17:A:LYS:HB3	4	1.05
(2,1413)	1:78:A:LEU:HD21	1:21:A:LYS:HB2	6	1.05
(2,1393)	1:26:A:ILE:HD12	1:27:A:PHE:HB2	5	1.05
(2,1393)	1:26:A:ILE:HD12	1:27:A:PHE:HB2	10	1.05
(2,1340)	1:157:A:LEU:HD12	1:153:A:MET:HA	8	1.05
(2,1266)	1:47:A:MET:HE1	1:48:A:LEU:HA	7	1.05
(2,1050)	1:45:A:MET:HG3	1:41:A:LEU:HD13	6	1.05
(2,1050)	1:45:A:MET:HG3	1:41:A:LEU:HD13	9	1.05
(2,923)	1:44:A:VAL:HG11	1:45:A:MET:HB2	1	1.05
(2,615)	1:43:A:LYS:HD3	1:44:A:VAL:HG12	9	1.05
(2,1393)	1:26:A:ILE:HD12	1:27:A:PHE:HB2	3	1.04
(2,1313)	1:38:A:THR:HG21	1:57:A:LEU:HG	8	1.04
(2,1207)	1:6:A:LYS:HE3	1:3:A:ASP:HA	6	1.04
(2,907)	1:78:A:LEU:HD12	1:74:A:PHE:HE1	5	1.04
(2,783)	1:9:A:VAL:HG11	1:78:A:LEU:HD21	10	1.04
(2,1420)	1:41:A:LEU:HD21	1:52:A:PRO:HG3	5	1.03
(2,1388)	1:61:A:ILE:HD12	1:39:A:LYS:HA	7	1.03
(2,1314)	1:38:A:THR:HG23	1:61:A:ILE:HG21	8	1.03
(2,1207)	1:6:A:LYS:HE3	1:3:A:ASP:HA	3	1.03
(2,1050)	1:45:A:MET:HG3	1:41:A:LEU:HD13	7	1.03
(2,908)	1:78:A:LEU:HD12	1:74:A:PHE:HD1	5	1.03
(2,908)	1:78:A:LEU:HD11	1:74:A:PHE:HD1	8	1.03
(2,908)	1:78:A:LEU:HD12	1:74:A:PHE:HD1	10	1.03
(2,907)	1:78:A:LEU:HD11	1:74:A:PHE:HE1	8	1.03
(2,907)	1:78:A:LEU:HD12	1:74:A:PHE:HE1	9	1.03
(2,698)	1:7:A:ALA:HB3	1:4:A:ILE:HG23	2	1.03
(2,615)	1:43:A:LYS:HD3	1:44:A:VAL:HG11	5	1.03
(2,615)	1:43:A:LYS:HD2	1:44:A:VAL:HG12	10	1.03
(2,167)	1:57:A:LEU:HA	1:57:A:LEU:HD12	10	1.03
(2,1413)	1:78:A:LEU:HD23	1:21:A:LYS:HB2	1	1.02
(2,1405)	1:20:A:PHE:HA	1:158:A:LEU:HD12	9	1.02
(2,1404)	1:153:A:MET:HE3	1:24:A:PHE:HA	6	1.02
(2,1401)	1:85:A:MET:HG3	1:82:A:VAL:HG21	1	1.02
(2,1400)	1:47:A:MET:HE3	1:27:A:PHE:HA	7	1.02
(2,1388)	1:61:A:ILE:HD13	1:39:A:LYS:HA	9	1.02
(2,1371)	1:79:A:VAL:HG11	1:83:A:ARG:HB3	10	1.02
(2,1174)	1:150:A:ALA:HA	1:148:A:ILE:HD12	2	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1174)	1:150:A:ALA:HA	1:148:A:ILE:HD12	4	1.02
(2,1016)	1:78:A:LEU:HD22	1:12:A:LEU:HG	8	1.02
(2,907)	1:78:A:LEU:HD13	1:74:A:PHE:HE1	3	1.02
(2,825)	1:48:A:LEU:HD12	1:44:A:VAL:HG12	9	1.02
(2,723)	1:142:A:THR:HG22	1:141:A:PRO:HA	5	1.02
(2,698)	1:7:A:ALA:HB1	1:4:A:ILE:HG22	5	1.02
(2,167)	1:57:A:LEU:HA	1:57:A:LEU:HD12	1	1.02
(2,1262)	1:14:A:GLU:HB2	1:13:A:THR:HG23	9	1.01
(2,1221)	1:154:A:MET:HG2	1:158:A:LEU:HD21	4	1.01
(2,907)	1:78:A:LEU:HD13	1:74:A:PHE:HE1	1	1.01
(2,698)	1:7:A:ALA:HB1	1:4:A:ILE:HG23	3	1.01
(2,698)	1:7:A:ALA:HB3	1:4:A:ILE:HG21	10	1.01
(2,167)	1:57:A:LEU:HA	1:57:A:LEU:HD13	7	1.01
(2,1406)	1:20:A:PHE:HA	1:153:A:MET:HE3	4	1.0
(2,1269)	1:154:A:MET:HE1	1:155:A:GLN:HA	2	1.0
(2,1248)	1:50:A:GLN:HG3	1:48:A:LEU:HD13	3	1.0
(2,1016)	1:78:A:LEU:HD21	1:12:A:LEU:HG	3	1.0
(2,1016)	1:78:A:LEU:HD21	1:12:A:LEU:HG	10	1.0
(2,907)	1:78:A:LEU:HD12	1:74:A:PHE:HE1	10	1.0
(2,723)	1:142:A:THR:HG21	1:141:A:PRO:HA	1	1.0
(2,695)	1:10:A:GLU:HB2	1:7:A:ALA:HB2	10	1.0
(2,1412)	1:79:A:VAL:HA	1:6:A:LYS:HA	9	0.99
(2,1266)	1:47:A:MET:HE1	1:48:A:LEU:HA	3	0.99
(2,1266)	1:47:A:MET:HE3	1:48:A:LEU:HA	6	0.99
(2,1234)	1:76:A:GLU:HG3	1:72:A:VAL:HG22	10	0.99
(2,1174)	1:150:A:ALA:HA	1:148:A:ILE:HD12	1	0.99
(2,1174)	1:150:A:ALA:HA	1:148:A:ILE:HD12	5	0.99
(2,848)	1:38:A:THR:HG23	1:61:A:ILE:HG21	9	0.99
(2,1340)	1:157:A:LEU:HD12	1:153:A:MET:HA	10	0.98
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HG23	7	0.98
(2,1174)	1:150:A:ALA:HA	1:148:A:ILE:HD13	7	0.98
(2,908)	1:78:A:LEU:HD12	1:74:A:PHE:HD1	9	0.98
(2,783)	1:9:A:VAL:HG12	1:78:A:LEU:HD21	4	0.98
(2,1404)	1:153:A:MET:HE3	1:24:A:PHE:HA	5	0.97
(2,1284)	1:45:A:MET:HE1	1:57:A:LEU:HD12	9	0.97
(2,1193)	1:80:A:MET:HA	1:82:A:VAL:HG13	6	0.97
(2,923)	1:44:A:VAL:HG13	1:45:A:MET:HB2	7	0.97
(2,908)	1:78:A:LEU:HD12	1:74:A:PHE:HD1	6	0.97
(2,825)	1:48:A:LEU:HD11	1:44:A:VAL:HG13	8	0.97
(2,723)	1:142:A:THR:HG22	1:141:A:PRO:HA	8	0.97
(2,714)	1:38:A:THR:HG23	1:61:A:ILE:HG12	7	0.97
(2,417)	1:155:A:GLN:HG3	1:152:A:ALA:HB1	7	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1413)	1:78:A:LEU:HD21	1:21:A:LYS:HB2	10	0.96
(2,1406)	1:20:A:PHE:HA	1:153:A:MET:HE3	8	0.96
(2,1340)	1:157:A:LEU:HD12	1:153:A:MET:HA	5	0.96
(2,1257)	1:85:A:MET:HE1	1:8:A:ALA:HB2	2	0.96
(2,1257)	1:85:A:MET:HE2	1:8:A:ALA:HB3	10	0.96
(2,1177)	1:153:A:MET:HA	1:156:A:ALA:HB2	2	0.96
(2,1022)	1:35:A:SER:HA	1:31:A:ALA:HB1	4	0.96
(2,908)	1:78:A:LEU:HD13	1:74:A:PHE:HD1	1	0.96
(2,1408)	1:57:A:LEU:HD23	1:60:A:MET:HE3	10	0.95
(2,1257)	1:85:A:MET:HE3	1:8:A:ALA:HB1	3	0.95
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HD13	3	0.95
(2,979)	1:44:A:VAL:HG12	1:27:A:PHE:HB3	8	0.95
(2,979)	1:44:A:VAL:HG12	1:27:A:PHE:HB3	10	0.95
(2,908)	1:78:A:LEU:HD12	1:74:A:PHE:HD1	4	0.95
(2,755)	1:158:A:LEU:HD11	1:154:A:MET:HG2	9	0.95
(2,615)	1:43:A:LYS:HD2	1:44:A:VAL:HG13	2	0.95
(2,494)	1:10:A:GLU:HB2	1:9:A:VAL:HG13	2	0.95
(2,1432)	1:62:A:ASP:HB3	1:61:A:ILE:HG23	5	0.94
(2,1400)	1:47:A:MET:HE1	1:27:A:PHE:HA	4	0.94
(2,1388)	1:61:A:ILE:HD11	1:39:A:LYS:HA	6	0.94
(2,1277)	1:23:A:ALA:HB2	1:26:A:ILE:HD12	8	0.94
(2,1266)	1:47:A:MET:HE3	1:48:A:LEU:HA	5	0.94
(2,1258)	1:85:A:MET:HE2	1:82:A:VAL:HG22	3	0.94
(2,1223)	1:73:A:ASP:HB2	1:72:A:VAL:HG22	6	0.94
(2,1203)	1:140:A:ARG:HD2	1:142:A:THR:HA	6	0.94
(2,1022)	1:35:A:SER:HA	1:31:A:ALA:HB1	7	0.94
(2,923)	1:44:A:VAL:HG11	1:45:A:MET:HB2	4	0.94
(2,908)	1:78:A:LEU:HD13	1:74:A:PHE:HD1	3	0.94
(2,908)	1:78:A:LEU:HD13	1:74:A:PHE:HD1	7	0.94
(2,907)	1:78:A:LEU:HD12	1:74:A:PHE:HE1	6	0.94
(2,865)	1:61:A:ILE:HA	1:61:A:ILE:HD13	7	0.94
(2,848)	1:38:A:THR:HG23	1:61:A:ILE:HG22	7	0.94
(2,696)	1:6:A:LYS:HB2	1:7:A:ALA:HB3	10	0.94
(2,1432)	1:62:A:ASP:HB3	1:61:A:ILE:HG23	8	0.93
(2,1388)	1:61:A:ILE:HD12	1:39:A:LYS:HA	3	0.93
(2,1347)	1:38:A:THR:HG22	1:57:A:LEU:HD11	5	0.93
(2,1347)	1:38:A:THR:HG23	1:57:A:LEU:HD12	10	0.93
(2,1223)	1:73:A:ASP:HB2	1:72:A:VAL:HG22	3	0.93
(2,1016)	1:78:A:LEU:HD21	1:12:A:LEU:HG	6	0.93
(2,783)	1:9:A:VAL:HG13	1:78:A:LEU:HD23	5	0.93
(2,695)	1:10:A:GLU:HB3	1:7:A:ALA:HB2	5	0.93
(2,60)	1:3:A:ASP:HA	1:7:A:ALA:HB3	10	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1388)	1:61:A:ILE:HD12	1:39:A:LYS:HA	5	0.92
(2,1378)	1:47:A:MET:HE1	1:44:A:VAL:HG13	4	0.92
(2,1262)	1:14:A:GLU:HB2	1:13:A:THR:HG22	2	0.92
(2,1248)	1:50:A:GLN:HG2	1:48:A:LEU:HD12	2	0.92
(2,1022)	1:35:A:SER:HA	1:31:A:ALA:HB1	3	0.92
(2,907)	1:78:A:LEU:HD12	1:74:A:PHE:HE1	4	0.92
(2,907)	1:78:A:LEU:HD13	1:74:A:PHE:HE1	7	0.92
(2,1420)	1:41:A:LEU:HD22	1:52:A:PRO:HG3	9	0.91
(2,1388)	1:61:A:ILE:HD13	1:39:A:LYS:HA	2	0.91
(2,1347)	1:38:A:THR:HG21	1:57:A:LEU:HD13	9	0.91
(2,1329)	1:5:A:TYR:HA	1:9:A:VAL:HG23	2	0.91
(2,1262)	1:14:A:GLU:HB2	1:13:A:THR:HG21	1	0.91
(2,1258)	1:85:A:MET:HE3	1:82:A:VAL:HG21	1	0.91
(2,1258)	1:85:A:MET:HE2	1:82:A:VAL:HG22	4	0.91
(2,1207)	1:6:A:LYS:HE2	1:3:A:ASP:HA	4	0.91
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HG22	9	0.91
(2,979)	1:44:A:VAL:HG13	1:27:A:PHE:HB3	2	0.91
(2,695)	1:10:A:GLU:HB2	1:7:A:ALA:HB1	2	0.91
(2,1413)	1:78:A:LEU:HD23	1:21:A:LYS:HB2	2	0.9
(2,1188)	1:58:A:GLN:HA	1:61:A:ILE:HG23	8	0.9
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HG21	4	0.9
(2,908)	1:78:A:LEU:HD13	1:74:A:PHE:HD1	2	0.9
(2,710)	1:58:A:GLN:HG2	1:38:A:THR:HG22	8	0.9
(2,1378)	1:47:A:MET:HE3	1:44:A:VAL:HG12	7	0.89
(2,1329)	1:5:A:TYR:HA	1:79:A:VAL:HG23	3	0.89
(2,1329)	1:5:A:TYR:HA	1:9:A:VAL:HG23	7	0.89
(2,1200)	1:52:A:PRO:HD2	1:50:A:GLN:HB2	10	0.89
(2,1193)	1:80:A:MET:HA	1:82:A:VAL:HG13	8	0.89
(2,1022)	1:35:A:SER:HA	1:31:A:ALA:HB1	6	0.89
(2,870)	1:4:A:ILE:HD11	1:7:A:ALA:HB3	9	0.89
(2,712)	1:58:A:GLN:HB2	1:38:A:THR:HG21	4	0.89
(2,710)	1:58:A:GLN:HG2	1:38:A:THR:HG22	1	0.89
(2,494)	1:10:A:GLU:HB2	1:9:A:VAL:HG13	3	0.89
(2,392)	1:3:A:ASP:HB2	1:6:A:LYS:HB3	3	0.89
(2,60)	1:3:A:ASP:HA	1:7:A:ALA:HB1	3	0.89
(2,1434)	1:83:A:ARG:HA	1:85:A:MET:HB2	10	0.88
(2,1340)	1:157:A:LEU:HD13	1:153:A:MET:HA	1	0.88
(2,1335)	1:64:A:VAL:HG22	1:76:A:GLU:HA	4	0.88
(2,1329)	1:5:A:TYR:HA	1:9:A:VAL:HG23	9	0.88
(2,1223)	1:73:A:ASP:HB2	1:72:A:VAL:HG22	4	0.88
(2,1005)	1:8:A:ALA:HB1	1:79:A:VAL:HA	8	0.88
(2,1404)	1:153:A:MET:HE2	1:24:A:PHE:HA	8	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1329)	1:5:A:TYR:HA	1:9:A:VAL:HG21	5	0.87
(2,1242)	1:19:A:GLU:HB2	1:158:A:LEU:HD11	2	0.87
(2,1197)	1:24:A:PHE:HA	1:77:A:PHE:HE1	7	0.87
(2,1193)	1:80:A:MET:HA	1:64:A:VAL:HG21	1	0.87
(2,1193)	1:80:A:MET:HA	1:82:A:VAL:HG12	4	0.87
(2,903)	1:4:A:ILE:HG23	1:6:A:LYS:HB2	5	0.87
(2,494)	1:10:A:GLU:HB2	1:9:A:VAL:HG11	1	0.87
(2,494)	1:10:A:GLU:HB2	1:9:A:VAL:HG12	8	0.87
(2,417)	1:155:A:GLN:HG3	1:152:A:ALA:HB2	9	0.87
(2,1434)	1:83:A:ARG:HA	1:85:A:MET:HB2	6	0.86
(2,1432)	1:62:A:ASP:HB3	1:61:A:ILE:HG23	2	0.86
(2,1420)	1:41:A:LEU:HD22	1:52:A:PRO:HG3	3	0.86
(2,1371)	1:79:A:VAL:HG13	1:83:A:ARG:HB3	7	0.86
(2,1354)	1:148:A:ILE:HG13	1:48:A:LEU:HD13	5	0.86
(2,1340)	1:157:A:LEU:HD11	1:153:A:MET:HA	6	0.86
(2,1331)	1:2:A:ASP:HB3	1:79:A:VAL:HG21	8	0.86
(2,1262)	1:14:A:GLU:HB3	1:13:A:THR:HG22	6	0.86
(2,1223)	1:73:A:ASP:HB2	1:72:A:VAL:HG22	1	0.86
(2,1221)	1:154:A:MET:HG2	1:158:A:LEU:HD23	2	0.86
(2,979)	1:44:A:VAL:HG13	1:27:A:PHE:HB3	3	0.86
(2,979)	1:44:A:VAL:HG12	1:27:A:PHE:HB3	4	0.86
(2,903)	1:4:A:ILE:HG21	1:6:A:LYS:HB3	8	0.86
(2,870)	1:4:A:ILE:HD13	1:7:A:ALA:HB3	10	0.86
(2,789)	1:146:A:VAL:HG21	1:147:A:ARG:HD2	3	0.86
(2,723)	1:142:A:THR:HG22	1:141:A:PRO:HA	4	0.86
(2,695)	1:10:A:GLU:HB2	1:7:A:ALA:HB1	7	0.86
(2,663)	1:22:A:ALA:HB3	1:158:A:LEU:HD11	7	0.86
(2,417)	1:155:A:GLN:HG3	1:152:A:ALA:HB1	1	0.86
(2,417)	1:155:A:GLN:HG3	1:152:A:ALA:HB1	3	0.86
(2,417)	1:155:A:GLN:HG3	1:152:A:ALA:HB3	5	0.86
(2,140)	1:54:A:PRO:HA	1:57:A:LEU:HD21	10	0.86
(2,1420)	1:41:A:LEU:HD22	1:60:A:MET:HE3	6	0.85
(2,1388)	1:61:A:ILE:HD11	1:39:A:LYS:HA	4	0.85
(2,1340)	1:157:A:LEU:HD13	1:153:A:MET:HA	4	0.85
(2,1284)	1:45:A:MET:HE2	1:57:A:LEU:HD13	1	0.85
(2,1258)	1:85:A:MET:HE1	1:82:A:VAL:HG23	2	0.85
(2,1022)	1:35:A:SER:HA	1:31:A:ALA:HB1	2	0.85
(2,699)	1:13:A:THR:HG23	1:12:A:LEU:HD22	2	0.85
(2,547)	1:154:A:MET:HE3	1:81:A:MET:HG2	9	0.85
(2,392)	1:3:A:ASP:HB2	1:6:A:LYS:HB3	8	0.85
(2,1400)	1:47:A:MET:HE1	1:27:A:PHE:HA	2	0.84
(2,1341)	1:157:A:LEU:HD12	1:47:A:MET:HE1	2	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1277)	1:23:A:ALA:HB2	1:26:A:ILE:HD13	1	0.84
(2,1277)	1:23:A:ALA:HB3	1:26:A:ILE:HD12	3	0.84
(2,1272)	1:52:A:PRO:HB3	1:57:A:LEU:HD11	10	0.84
(2,1193)	1:80:A:MET:HA	1:64:A:VAL:HG21	3	0.84
(2,979)	1:44:A:VAL:HG11	1:27:A:PHE:HB3	9	0.84
(2,823)	1:143:A:LEU:HD22	1:142:A:THR:HG22	1	0.84
(2,695)	1:10:A:GLU:HB2	1:7:A:ALA:HB3	3	0.84
(2,670)	1:8:A:ALA:HB1	1:5:A:TYR:HB2	10	0.84
(2,1434)	1:83:A:ARG:HA	1:85:A:MET:HB2	2	0.83
(2,1434)	1:83:A:ARG:HA	1:85:A:MET:HB2	3	0.83
(2,1432)	1:62:A:ASP:HB3	1:61:A:ILE:HG21	6	0.83
(2,1420)	1:41:A:LEU:HD21	1:52:A:PRO:HG3	1	0.83
(2,1412)	1:79:A:VAL:HA	1:6:A:LYS:HA	7	0.83
(2,1277)	1:23:A:ALA:HB3	1:26:A:ILE:HD11	4	0.83
(2,1277)	1:23:A:ALA:HB1	1:26:A:ILE:HD11	7	0.83
(2,1258)	1:85:A:MET:HE1	1:82:A:VAL:HG21	5	0.83
(2,1258)	1:85:A:MET:HE2	1:82:A:VAL:HG23	10	0.83
(2,1257)	1:85:A:MET:HE2	1:8:A:ALA:HB1	4	0.83
(2,1246)	1:47:A:MET:HB3	1:48:A:LEU:HD22	7	0.83
(2,1234)	1:63:A:GLU:HG2	1:64:A:VAL:HG21	4	0.83
(2,1022)	1:35:A:SER:HA	1:31:A:ALA:HB2	8	0.83
(2,850)	1:4:A:ILE:HD12	1:5:A:TYR:HD1	7	0.83
(2,702)	1:54:A:PRO:HD2	1:53:A:THR:HG21	7	0.83
(2,547)	1:154:A:MET:HE3	1:81:A:MET:HG2	2	0.83
(2,494)	1:10:A:GLU:HB2	1:9:A:VAL:HG13	7	0.83
(2,1434)	1:83:A:ARG:HA	1:85:A:MET:HB2	1	0.82
(2,1432)	1:62:A:ASP:HB3	1:61:A:ILE:HG21	1	0.82
(2,1329)	1:5:A:TYR:HA	1:9:A:VAL:HG22	1	0.82
(2,1329)	1:5:A:TYR:HA	1:9:A:VAL:HG22	10	0.82
(2,1313)	1:41:A:LEU:HB3	1:38:A:THR:HG22	4	0.82
(2,1257)	1:85:A:MET:HE1	1:8:A:ALA:HB2	1	0.82
(2,1161)	1:38:A:THR:HB	1:61:A:ILE:HD12	5	0.82
(2,1022)	1:35:A:SER:HA	1:31:A:ALA:HB1	9	0.82
(2,1016)	1:78:A:LEU:HD22	1:12:A:LEU:HG	2	0.82
(2,702)	1:54:A:PRO:HD3	1:53:A:THR:HG21	4	0.82
(2,275)	1:44:A:VAL:HA	1:157:A:LEU:HD22	7	0.82
(2,1400)	1:47:A:MET:HE1	1:27:A:PHE:HA	5	0.81
(2,1383)	1:36:A:ILE:HD13	1:28:A:VAL:HG23	3	0.81
(2,1370)	1:79:A:VAL:HG13	1:76:A:GLU:HA	6	0.81
(2,1347)	1:38:A:THR:HG21	1:57:A:LEU:HD12	2	0.81
(2,1329)	1:5:A:TYR:HA	1:9:A:VAL:HG22	4	0.81
(2,1284)	1:45:A:MET:HE3	1:57:A:LEU:HD11	2	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1277)	1:23:A:ALA:HB1	1:26:A:ILE:HD12	10	0.81
(2,1246)	1:47:A:MET:HB3	1:48:A:LEU:HD22	4	0.81
(2,1223)	1:73:A:ASP:HB2	1:72:A:VAL:HG23	5	0.81
(2,1161)	1:38:A:THR:HB	1:61:A:ILE:HD13	2	0.81
(2,1022)	1:35:A:SER:HA	1:31:A:ALA:HB2	1	0.81
(2,1016)	1:78:A:LEU:HD22	1:12:A:LEU:HG	7	0.81
(2,979)	1:44:A:VAL:HG12	1:27:A:PHE:HB3	1	0.81
(2,903)	1:4:A:ILE:HG23	1:6:A:LYS:HB3	4	0.81
(2,870)	1:4:A:ILE:HD11	1:7:A:ALA:HB1	4	0.81
(2,809)	1:48:A:LEU:HA	1:48:A:LEU:HD13	5	0.81
(2,783)	1:9:A:VAL:HG11	1:78:A:LEU:HD22	8	0.81
(2,547)	1:154:A:MET:HE1	1:81:A:MET:HG2	3	0.81
(2,60)	1:3:A:ASP:HA	1:7:A:ALA:HB3	7	0.81
(2,1413)	1:78:A:LEU:HD23	1:21:A:LYS:HB2	7	0.8
(2,1401)	1:85:A:MET:HG3	1:82:A:VAL:HG22	4	0.8
(2,1383)	1:36:A:ILE:HD13	1:28:A:VAL:HG23	8	0.8
(2,1371)	1:79:A:VAL:HG11	1:83:A:ARG:HB3	2	0.8
(2,1347)	1:38:A:THR:HG23	1:57:A:LEU:HD13	6	0.8
(2,1340)	1:157:A:LEU:HD11	1:153:A:MET:HA	9	0.8
(2,1312)	1:38:A:THR:HG23	1:70:A:GLY:HA2	2	0.8
(2,1301)	1:151:A:ASP:HB2	1:152:A:ALA:HB3	10	0.8
(2,1284)	1:45:A:MET:HE3	1:57:A:LEU:HD11	8	0.8
(2,1207)	1:6:A:LYS:HE3	1:3:A:ASP:HA	9	0.8
(2,1191)	1:52:A:PRO:HD3	1:57:A:LEU:HD11	9	0.8
(2,979)	1:44:A:VAL:HG13	1:27:A:PHE:HB3	5	0.8
(2,966)	1:148:A:ILE:HA	1:148:A:ILE:HD12	7	0.8
(2,903)	1:4:A:ILE:HG22	1:6:A:LYS:HB3	1	0.8
(2,809)	1:48:A:LEU:HA	1:48:A:LEU:HD12	1	0.8
(2,702)	1:54:A:PRO:HD3	1:53:A:THR:HG21	6	0.8
(2,547)	1:154:A:MET:HE3	1:81:A:MET:HG2	5	0.8
(2,140)	1:54:A:PRO:HA	1:57:A:LEU:HD21	7	0.8
(2,95)	1:139:A:LYS:HA	1:139:A:LYS:HG2	3	0.8
(2,1434)	1:83:A:ARG:HA	1:85:A:MET:HB2	9	0.79
(2,1340)	1:157:A:LEU:HD13	1:153:A:MET:HA	7	0.79
(2,1329)	1:5:A:TYR:HA	1:9:A:VAL:HG21	6	0.79
(2,1277)	1:23:A:ALA:HB2	1:26:A:ILE:HD12	5	0.79
(2,1277)	1:23:A:ALA:HB2	1:26:A:ILE:HD12	6	0.79
(2,1257)	1:85:A:MET:HE2	1:8:A:ALA:HB1	8	0.79
(2,1248)	1:50:A:GLN:HG2	1:48:A:LEU:HD13	4	0.79
(2,870)	1:4:A:ILE:HD12	1:7:A:ALA:HB1	8	0.79
(2,801)	1:143:A:LEU:HD13	1:142:A:THR:HG23	3	0.79
(2,724)	1:142:A:THR:HA	1:142:A:THR:HG23	3	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,140)	1:54:A:PRO:HA	1:57:A:LEU:HD23	9	0.79
(2,1405)	1:20:A:PHE:HA	1:158:A:LEU:HD11	4	0.78
(2,1335)	1:64:A:VAL:HG23	1:76:A:GLU:HA	10	0.78
(2,1161)	1:38:A:THR:HB	1:61:A:ILE:HD12	9	0.78
(2,979)	1:44:A:VAL:HG11	1:27:A:PHE:HB3	7	0.78
(2,809)	1:48:A:LEU:HA	1:48:A:LEU:HD13	6	0.78
(2,789)	1:146:A:VAL:HG21	1:147:A:ARG:HD2	7	0.78
(2,702)	1:54:A:PRO:HD3	1:53:A:THR:HG21	3	0.78
(2,696)	1:6:A:LYS:HB2	1:7:A:ALA:HB3	7	0.78
(2,503)	1:85:A:MET:HE2	1:81:A:MET:HG3	2	0.78
(2,417)	1:155:A:GLN:HG3	1:152:A:ALA:HB1	10	0.78
(2,391)	1:151:A:ASP:HB3	1:152:A:ALA:HA	8	0.78
(2,1406)	1:20:A:PHE:HA	1:19:A:GLU:HG2	1	0.77
(2,1383)	1:36:A:ILE:HD13	1:28:A:VAL:HG23	4	0.77
(2,1370)	1:79:A:VAL:HG13	1:76:A:GLU:HA	4	0.77
(2,1242)	1:19:A:GLU:HB2	1:158:A:LEU:HD11	7	0.77
(2,1210)	1:6:A:LYS:HE2	1:10:A:GLU:HB2	8	0.77
(2,1200)	1:52:A:PRO:HD2	1:50:A:GLN:HB2	2	0.77
(2,1181)	1:136:A:GLY:HA2	1:137:A:LYS:HB2	2	0.77
(2,1022)	1:35:A:SER:HA	1:31:A:ALA:HB1	10	0.77
(2,1016)	1:78:A:LEU:HD22	1:12:A:LEU:HG	1	0.77
(2,1005)	1:8:A:ALA:HB2	1:79:A:VAL:HA	7	0.77
(2,850)	1:4:A:ILE:HD13	1:5:A:TYR:HD1	3	0.77
(2,848)	1:38:A:THR:HG21	1:61:A:ILE:HG21	5	0.77
(2,783)	1:9:A:VAL:HG11	1:78:A:LEU:HD22	9	0.77
(2,699)	1:13:A:THR:HG21	1:12:A:LEU:HD22	3	0.77
(2,699)	1:13:A:THR:HG23	1:12:A:LEU:HD22	8	0.77
(2,670)	1:8:A:ALA:HB1	1:5:A:TYR:HB2	9	0.77
(2,515)	1:1:A:MET:HB3	1:6:A:LYS:HB2	2	0.77
(2,383)	1:75:A:ASP:HB2	1:1:A:MET:HE3	3	0.77
(2,78)	1:154:A:MET:HA	1:157:A:LEU:HD11	2	0.77
(2,1432)	1:62:A:ASP:HB3	1:61:A:ILE:HG22	3	0.76
(2,1412)	1:79:A:VAL:HA	1:6:A:LYS:HA	1	0.76
(2,1406)	1:20:A:PHE:HA	1:19:A:GLU:HG2	9	0.76
(2,1388)	1:61:A:ILE:HD12	1:39:A:LYS:HA	10	0.76
(2,1364)	1:58:A:GLN:HA	1:61:A:ILE:HG21	2	0.76
(2,1200)	1:52:A:PRO:HD2	1:50:A:GLN:HB2	5	0.76
(2,1174)	1:150:A:ALA:HA	1:148:A:ILE:HD12	8	0.76
(2,1161)	1:38:A:THR:HB	1:61:A:ILE:HD12	10	0.76
(2,976)	1:1:A:MET:HB3	1:6:A:LYS:HE3	3	0.76
(2,903)	1:4:A:ILE:HG22	1:6:A:LYS:HB3	6	0.76
(2,809)	1:48:A:LEU:HA	1:48:A:LEU:HD11	2	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,809)	1:48:A:LEU:HA	1:48:A:LEU:HD13	10	0.76
(2,697)	1:7:A:ALA:HB3	1:4:A:ILE:HG12	9	0.76
(2,546)	1:154:A:MET:HE2	1:22:A:ALA:HB3	7	0.76
(2,417)	1:155:A:GLN:HG3	1:152:A:ALA:HB2	4	0.76
(2,140)	1:54:A:PRO:HA	1:57:A:LEU:HD21	3	0.76
(2,1422)	1:63:A:GLU:HG2	1:80:A:MET:HE1	1	0.75
(2,1420)	1:41:A:LEU:HD21	1:52:A:PRO:HG3	8	0.75
(2,1420)	1:41:A:LEU:HD22	1:52:A:PRO:HG3	10	0.75
(2,1406)	1:20:A:PHE:HA	1:153:A:MET:HE3	6	0.75
(2,1347)	1:38:A:THR:HG21	1:57:A:LEU:HD13	3	0.75
(2,1248)	1:50:A:GLN:HG2	1:48:A:LEU:HD11	6	0.75
(2,1223)	1:2:A:ASP:HB3	1:79:A:VAL:HG21	2	0.75
(2,1016)	1:78:A:LEU:HD22	1:12:A:LEU:HG	9	0.75
(2,966)	1:148:A:ILE:HA	1:148:A:ILE:HD12	5	0.75
(2,870)	1:4:A:ILE:HD12	1:7:A:ALA:HB1	5	0.75
(2,841)	1:79:A:VAL:HA	1:64:A:VAL:HG13	7	0.75
(2,783)	1:9:A:VAL:HG11	1:78:A:LEU:HD21	6	0.75
(2,755)	1:158:A:LEU:HD11	1:154:A:MET:HG2	6	0.75
(2,696)	1:6:A:LYS:HB2	1:7:A:ALA:HB3	2	0.75
(2,226)	1:82:A:VAL:HA	1:82:A:VAL:HG13	9	0.75
(2,1432)	1:62:A:ASP:HB3	1:61:A:ILE:HG23	4	0.74
(2,1432)	1:62:A:ASP:HB3	1:61:A:ILE:HG22	10	0.74
(2,1412)	1:79:A:VAL:HA	1:6:A:LYS:HA	8	0.74
(2,1370)	1:79:A:VAL:HG12	1:76:A:GLU:HA	2	0.74
(2,1358)	1:156:A:ALA:HB3	1:48:A:LEU:HD22	9	0.74
(2,1312)	1:38:A:THR:HG23	1:61:A:ILE:HA	9	0.74
(2,1258)	1:85:A:MET:HE1	1:82:A:VAL:HG21	9	0.74
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HD11	1	0.74
(2,1159)	1:69:A:SER:HB2	1:71:A:THR:HB	1	0.74
(2,979)	1:44:A:VAL:HG13	1:27:A:PHE:HB3	6	0.74
(2,944)	1:72:A:VAL:HB	1:36:A:ILE:HD13	1	0.74
(2,783)	1:9:A:VAL:HG12	1:78:A:LEU:HD23	7	0.74
(2,503)	1:85:A:MET:HE1	1:81:A:MET:HG3	8	0.74
(2,275)	1:44:A:VAL:HA	1:157:A:LEU:HD22	4	0.74
(2,140)	1:54:A:PRO:HA	1:57:A:LEU:HD23	4	0.74
(2,45)	1:65:A:ASP:HA	1:61:A:ILE:HG22	10	0.74
(2,1434)	1:83:A:ARG:HA	1:85:A:MET:HB2	8	0.73
(2,1422)	1:63:A:GLU:HG2	1:80:A:MET:HE2	4	0.73
(2,1406)	1:20:A:PHE:HA	1:19:A:GLU:HG2	2	0.73
(2,1405)	1:20:A:PHE:HA	1:158:A:LEU:HD12	6	0.73
(2,1382)	1:61:A:ILE:HD11	1:58:A:GLN:HG3	3	0.73
(2,1242)	1:19:A:GLU:HB2	1:158:A:LEU:HD11	3	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1223)	1:73:A:ASP:HB2	1:72:A:VAL:HG22	9	0.73
(2,1200)	1:52:A:PRO:HD2	1:50:A:GLN:HB2	3	0.73
(2,1182)	1:71:A:THR:HB	1:61:A:ILE:HG21	8	0.73
(2,1177)	1:153:A:MET:HA	1:156:A:ALA:HB2	3	0.73
(2,1174)	1:150:A:ALA:HA	1:148:A:ILE:HD12	10	0.73
(2,1022)	1:35:A:SER:HA	1:31:A:ALA:HB2	5	0.73
(2,968)	1:8:A:ALA:HA	1:85:A:MET:HE1	3	0.73
(2,903)	1:4:A:ILE:HG22	1:6:A:LYS:HB3	9	0.73
(2,870)	1:4:A:ILE:HD12	1:7:A:ALA:HB3	1	0.73
(2,850)	1:4:A:ILE:HD12	1:5:A:TYR:HD1	5	0.73
(2,809)	1:48:A:LEU:HA	1:48:A:LEU:HD12	3	0.73
(2,797)	1:146:A:VAL:HA	1:146:A:VAL:HG21	9	0.73
(2,702)	1:54:A:PRO:HD3	1:53:A:THR:HG23	1	0.73
(2,702)	1:54:A:PRO:HD3	1:53:A:THR:HG23	8	0.73
(2,695)	1:10:A:GLU:HB3	1:7:A:ALA:HB1	9	0.73
(2,112)	1:41:A:LEU:HA	1:41:A:LEU:HD21	8	0.73
(2,60)	1:3:A:ASP:HA	1:7:A:ALA:HB1	5	0.73
(2,1408)	1:57:A:LEU:HD23	1:60:A:MET:HE1	3	0.72
(2,1406)	1:20:A:PHE:HA	1:19:A:GLU:HG2	10	0.72
(2,1383)	1:36:A:ILE:HD13	1:28:A:VAL:HG23	9	0.72
(2,1358)	1:156:A:ALA:HB3	1:48:A:LEU:HD21	8	0.72
(2,1284)	1:45:A:MET:HE3	1:57:A:LEU:HD12	7	0.72
(2,1258)	1:85:A:MET:HE2	1:82:A:VAL:HG21	6	0.72
(2,1234)	1:76:A:GLU:HG3	1:72:A:VAL:HG22	9	0.72
(2,1193)	1:80:A:MET:HA	1:64:A:VAL:HG21	9	0.72
(2,1129)	1:36:A:ILE:HD12	1:77:A:PHE:HE1	7	0.72
(2,1005)	1:8:A:ALA:HB3	1:79:A:VAL:HA	2	0.72
(2,848)	1:38:A:THR:HG23	1:61:A:ILE:HG23	3	0.72
(2,848)	1:38:A:THR:HG22	1:61:A:ILE:HG21	4	0.72
(2,799)	1:143:A:LEU:HD12	1:143:A:LEU:HA	8	0.72
(2,702)	1:54:A:PRO:HD2	1:53:A:THR:HG23	9	0.72
(2,670)	1:8:A:ALA:HB3	1:5:A:TYR:HB2	6	0.72
(2,417)	1:155:A:GLN:HG3	1:152:A:ALA:HB2	6	0.72
(2,140)	1:54:A:PRO:HA	1:57:A:LEU:HD21	8	0.72
(2,65)	1:141:A:PRO:HA	1:141:A:PRO:HG3	5	0.72
(2,65)	1:141:A:PRO:HA	1:141:A:PRO:HG3	6	0.72
(2,65)	1:141:A:PRO:HA	1:141:A:PRO:HG3	7	0.72
(2,60)	1:3:A:ASP:HA	1:7:A:ALA:HB3	2	0.72
(2,1413)	1:78:A:LEU:HD21	1:21:A:LYS:HB2	3	0.71
(2,1391)	1:4:A:ILE:HD13	1:6:A:LYS:HB3	3	0.71
(2,1347)	1:38:A:THR:HG21	1:57:A:LEU:HD12	8	0.71
(2,1313)	1:41:A:LEU:HB3	1:38:A:THR:HG22	6	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1312)	1:38:A:THR:HG21	1:61:A:ILE:HA	5	0.71
(2,1287)	1:140:A:ARG:HG2	1:141:A:PRO:HD2	7	0.71
(2,1248)	1:50:A:GLN:HG3	1:48:A:LEU:HD13	7	0.71
(2,1197)	1:24:A:PHE:HA	1:77:A:PHE:HE1	4	0.71
(2,1005)	1:8:A:ALA:HB3	1:79:A:VAL:HA	1	0.71
(2,983)	1:154:A:MET:HE1	1:20:A:PHE:HB3	6	0.71
(2,850)	1:4:A:ILE:HD11	1:5:A:TYR:HD1	6	0.71
(2,802)	1:146:A:VAL:HA	1:146:A:VAL:HG12	5	0.71
(2,799)	1:143:A:LEU:HD12	1:143:A:LEU:HA	5	0.71
(2,702)	1:54:A:PRO:HD3	1:53:A:THR:HG22	5	0.71
(2,226)	1:82:A:VAL:HA	1:82:A:VAL:HG13	5	0.71
(2,214)	1:136:A:GLY:HA3	1:90:A:LYS:HE2	6	0.71
(2,140)	1:54:A:PRO:HA	1:57:A:LEU:HD23	6	0.71
(2,1405)	1:20:A:PHE:HA	1:158:A:LEU:HD11	2	0.7
(2,1382)	1:61:A:ILE:HD11	1:58:A:GLN:HG3	5	0.7
(2,1370)	1:79:A:VAL:HG12	1:76:A:GLU:HA	3	0.7
(2,1335)	1:64:A:VAL:HG23	1:76:A:GLU:HA	8	0.7
(2,1313)	1:41:A:LEU:HB3	1:38:A:THR:HG23	9	0.7
(2,1313)	1:41:A:LEU:HB3	1:38:A:THR:HG22	10	0.7
(2,1277)	1:23:A:ALA:HB3	1:158:A:LEU:HD23	2	0.7
(2,1204)	1:147:A:ARG:HD2	1:147:A:ARG:HG3	6	0.7
(2,1197)	1:24:A:PHE:HA	1:77:A:PHE:HE1	8	0.7
(2,1161)	1:38:A:THR:HB	1:61:A:ILE:HD11	3	0.7
(2,888)	1:78:A:LEU:HD22	1:12:A:LEU:HD11	5	0.7
(2,879)	1:78:A:LEU:HD22	1:77:A:PHE:HD1	3	0.7
(2,710)	1:58:A:GLN:HG2	1:38:A:THR:HG22	2	0.7
(2,703)	1:13:A:THR:HG23	1:16:A:GLN:HG3	9	0.7
(2,702)	1:54:A:PRO:HD2	1:53:A:THR:HG21	2	0.7
(2,699)	1:13:A:THR:HG21	1:12:A:LEU:HD22	10	0.7
(2,663)	1:22:A:ALA:HB3	1:158:A:LEU:HD12	8	0.7
(2,402)	1:1:A:MET:HG2	1:79:A:VAL:HG22	1	0.7
(2,280)	1:9:A:VAL:HA	1:8:A:ALA:HB2	6	0.7
(2,218)	1:4:A:ILE:HA	1:4:A:ILE:HG23	4	0.7
(2,214)	1:136:A:GLY:HA3	1:90:A:LYS:HE2	7	0.7
(2,140)	1:54:A:PRO:HA	1:57:A:LEU:HD23	2	0.7
(2,65)	1:141:A:PRO:HA	1:141:A:PRO:HG3	9	0.7
(2,45)	1:65:A:ASP:HA	1:61:A:ILE:HG23	1	0.7
(2,1430)	1:157:A:LEU:HD21	1:27:A:PHE:HA	6	0.69
(2,1277)	1:23:A:ALA:HB3	1:26:A:ILE:HD11	9	0.69
(2,1248)	1:50:A:GLN:HG3	1:48:A:LEU:HD13	5	0.69
(2,1248)	1:50:A:GLN:HG2	1:48:A:LEU:HD23	8	0.69
(2,1207)	1:6:A:LYS:HE3	1:3:A:ASP:HA	1	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1191)	1:52:A:PRO:HD3	1:57:A:LEU:HD11	8	0.69
(2,1186)	1:16:A:GLN:HA	1:15:A:GLU:HB3	5	0.69
(2,1160)	1:38:A:THR:HB	1:57:A:LEU:HG	4	0.69
(2,982)	1:153:A:MET:HE2	1:44:A:VAL:HG21	3	0.69
(2,966)	1:148:A:ILE:HA	1:148:A:ILE:HD13	1	0.69
(2,948)	1:61:A:ILE:HA	1:36:A:ILE:HG22	6	0.69
(2,944)	1:72:A:VAL:HB	1:36:A:ILE:HD13	10	0.69
(2,799)	1:143:A:LEU:HD11	1:143:A:LEU:HA	2	0.69
(2,695)	1:10:A:GLU:HB2	1:7:A:ALA:HB2	1	0.69
(2,695)	1:10:A:GLU:HB2	1:7:A:ALA:HB3	8	0.69
(2,670)	1:8:A:ALA:HB2	1:5:A:TYR:HB2	8	0.69
(2,467)	1:63:A:GLU:HB2	1:64:A:VAL:HG12	4	0.69
(2,226)	1:82:A:VAL:HA	1:82:A:VAL:HG11	6	0.69
(2,218)	1:4:A:ILE:HA	1:4:A:ILE:HG21	3	0.69
(2,218)	1:4:A:ILE:HA	1:4:A:ILE:HG23	5	0.69
(2,218)	1:4:A:ILE:HA	1:4:A:ILE:HG22	6	0.69
(2,218)	1:4:A:ILE:HA	1:4:A:ILE:HG22	7	0.69
(2,218)	1:4:A:ILE:HA	1:4:A:ILE:HG22	10	0.69
(2,1434)	1:83:A:ARG:HA	1:85:A:MET:HB2	7	0.68
(2,1430)	1:157:A:LEU:HD23	1:27:A:PHE:HA	1	0.68
(2,1412)	1:79:A:VAL:HA	1:6:A:LYS:HA	2	0.68
(2,1405)	1:20:A:PHE:HA	1:158:A:LEU:HD13	10	0.68
(2,1371)	1:79:A:VAL:HG12	1:83:A:ARG:HB3	4	0.68
(2,1371)	1:79:A:VAL:HG12	1:83:A:ARG:HB3	6	0.68
(2,1050)	1:45:A:MET:HG2	1:41:A:LEU:HD11	8	0.68
(2,1005)	1:8:A:ALA:HB2	1:79:A:VAL:HA	4	0.68
(2,966)	1:148:A:ILE:HA	1:148:A:ILE:HD11	4	0.68
(2,799)	1:143:A:LEU:HD11	1:143:A:LEU:HA	4	0.68
(2,799)	1:143:A:LEU:HD11	1:143:A:LEU:HA	6	0.68
(2,799)	1:143:A:LEU:HD13	1:143:A:LEU:HA	9	0.68
(2,799)	1:143:A:LEU:HD13	1:143:A:LEU:HA	10	0.68
(2,797)	1:146:A:VAL:HA	1:146:A:VAL:HG21	4	0.68
(2,755)	1:158:A:LEU:HD13	1:154:A:MET:HG2	7	0.68
(2,695)	1:10:A:GLU:HB3	1:7:A:ALA:HB3	4	0.68
(2,695)	1:10:A:GLU:HB3	1:7:A:ALA:HB3	6	0.68
(2,392)	1:3:A:ASP:HB2	1:6:A:LYS:HB3	5	0.68
(2,392)	1:3:A:ASP:HB2	1:6:A:LYS:HB3	6	0.68
(2,226)	1:82:A:VAL:HA	1:82:A:VAL:HG12	4	0.68
(2,226)	1:82:A:VAL:HA	1:82:A:VAL:HG12	10	0.68
(2,218)	1:4:A:ILE:HA	1:4:A:ILE:HG22	1	0.68
(2,218)	1:4:A:ILE:HA	1:4:A:ILE:HG21	8	0.68
(2,218)	1:4:A:ILE:HA	1:4:A:ILE:HG22	9	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,97)	1:25:A:ASP:HA	1:28:A:VAL:HG13	1	0.68
(2,1430)	1:157:A:LEU:HD22	1:27:A:PHE:HA	5	0.67
(2,1400)	1:47:A:MET:HE3	1:27:A:PHE:HA	1	0.67
(2,1379)	1:48:A:LEU:HD11	1:44:A:VAL:HG13	4	0.67
(2,1234)	1:63:A:GLU:HG2	1:64:A:VAL:HG23	5	0.67
(2,1207)	1:6:A:LYS:HE2	1:3:A:ASP:HA	7	0.67
(2,1200)	1:52:A:PRO:HD2	1:50:A:GLN:HB2	1	0.67
(2,1193)	1:80:A:MET:HA	1:64:A:VAL:HG21	5	0.67
(2,1177)	1:153:A:MET:HA	1:156:A:ALA:HB3	9	0.67
(2,1005)	1:8:A:ALA:HB2	1:79:A:VAL:HA	5	0.67
(2,986)	1:157:A:LEU:HD22	1:23:A:ALA:HB2	5	0.67
(2,942)	1:36:A:ILE:HD11	1:77:A:PHE:HD1	7	0.67
(2,875)	1:79:A:VAL:HG13	1:64:A:VAL:HB	1	0.67
(2,755)	1:158:A:LEU:HD12	1:154:A:MET:HG2	1	0.67
(2,510)	1:1:A:MET:HE3	1:5:A:TYR:HB2	9	0.67
(2,503)	1:85:A:MET:HE2	1:81:A:MET:HG3	7	0.67
(2,392)	1:3:A:ASP:HB2	1:6:A:LYS:HB3	9	0.67
(2,240)	1:141:A:PRO:HD3	1:140:A:ARG:HG3	4	0.67
(2,226)	1:82:A:VAL:HA	1:82:A:VAL:HG11	7	0.67
(2,218)	1:4:A:ILE:HA	1:4:A:ILE:HG21	2	0.67
(2,95)	1:139:A:LYS:HA	1:139:A:LYS:HG3	6	0.67
(2,1301)	1:151:A:ASP:HB2	1:152:A:ALA:HB2	2	0.66
(2,1242)	1:19:A:GLU:HB2	1:158:A:LEU:HD12	6	0.66
(2,1200)	1:52:A:PRO:HD2	1:50:A:GLN:HB2	4	0.66
(2,1197)	1:24:A:PHE:HA	1:77:A:PHE:HE1	1	0.66
(2,1186)	1:16:A:GLN:HA	1:15:A:GLU:HB3	2	0.66
(2,948)	1:61:A:ILE:HA	1:36:A:ILE:HG22	7	0.66
(2,879)	1:78:A:LEU:HD21	1:77:A:PHE:HD1	2	0.66
(2,865)	1:61:A:ILE:HA	1:61:A:ILE:HD12	4	0.66
(2,793)	1:26:A:ILE:HG12	1:157:A:LEU:HD11	5	0.66
(2,736)	1:82:A:VAL:HG21	1:5:A:TYR:HE1	2	0.66
(2,736)	1:82:A:VAL:HG22	1:5:A:TYR:HE1	9	0.66
(2,699)	1:13:A:THR:HG21	1:12:A:LEU:HD22	5	0.66
(2,699)	1:13:A:THR:HG22	1:12:A:LEU:HD22	7	0.66
(2,670)	1:8:A:ALA:HB2	1:5:A:TYR:HB2	5	0.66
(2,546)	1:154:A:MET:HE3	1:22:A:ALA:HB1	9	0.66
(2,503)	1:85:A:MET:HE1	1:81:A:MET:HG3	6	0.66
(2,446)	1:15:A:GLU:HG2	1:13:A:THR:HG22	2	0.66
(2,446)	1:15:A:GLU:HG2	1:13:A:THR:HG23	9	0.66
(2,417)	1:155:A:GLN:HG3	1:152:A:ALA:HB3	2	0.66
(2,392)	1:3:A:ASP:HB2	1:6:A:LYS:HB3	1	0.66
(2,283)	1:52:A:PRO:HD3	1:57:A:LEU:HD22	1	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,97)	1:25:A:ASP:HA	1:28:A:VAL:HG13	2	0.66
(2,60)	1:3:A:ASP:HA	1:7:A:ALA:HB2	4	0.66
(2,45)	1:65:A:ASP:HA	1:61:A:ILE:HG22	8	0.66
(2,1430)	1:157:A:LEU:HD23	1:27:A:PHE:HA	3	0.65
(2,1412)	1:79:A:VAL:HA	1:6:A:LYS:HA	3	0.65
(2,1313)	1:41:A:LEU:HB3	1:38:A:THR:HG23	3	0.65
(2,1227)	1:153:A:MET:HG3	1:148:A:ILE:HG13	5	0.65
(2,1223)	1:2:A:ASP:HB3	1:79:A:VAL:HG23	10	0.65
(2,1204)	1:161:A:ARG:HD3	1:161:A:ARG:HG2	3	0.65
(2,1197)	1:24:A:PHE:HA	1:77:A:PHE:HE1	6	0.65
(2,1186)	1:16:A:GLN:HA	1:15:A:GLU:HB3	8	0.65
(2,966)	1:148:A:ILE:HA	1:148:A:ILE:HD12	9	0.65
(2,944)	1:72:A:VAL:HB	1:36:A:ILE:HD11	2	0.65
(2,870)	1:4:A:ILE:HD13	1:7:A:ALA:HB3	2	0.65
(2,850)	1:4:A:ILE:HD11	1:5:A:TYR:HD1	2	0.65
(2,841)	1:79:A:VAL:HA	1:64:A:VAL:HG13	8	0.65
(2,814)	1:26:A:ILE:HA	1:26:A:ILE:HD13	5	0.65
(2,699)	1:13:A:THR:HG22	1:12:A:LEU:HD21	1	0.65
(2,515)	1:1:A:MET:HB3	1:6:A:LYS:HB2	10	0.65
(2,481)	1:153:A:MET:HE3	1:23:A:ALA:HB1	9	0.65
(2,446)	1:15:A:GLU:HG2	1:13:A:THR:HG23	5	0.65
(2,296)	1:70:A:GLY:HA2	1:71:A:THR:HG23	5	0.65
(2,226)	1:82:A:VAL:HA	1:82:A:VAL:HG13	8	0.65
(2,145)	1:40:A:GLU:HA	1:31:A:ALA:HB2	10	0.65
(2,116)	1:41:A:LEU:HA	1:44:A:VAL:HG13	9	0.65
(2,97)	1:25:A:ASP:HA	1:28:A:VAL:HG13	4	0.65
(2,1335)	1:64:A:VAL:HG22	1:76:A:GLU:HA	5	0.64
(2,1313)	1:41:A:LEU:HB3	1:38:A:THR:HG21	1	0.64
(2,1242)	1:19:A:GLU:HB2	1:158:A:LEU:HD11	4	0.64
(2,1186)	1:16:A:GLN:HA	1:15:A:GLU:HB3	3	0.64
(2,1186)	1:16:A:GLN:HA	1:15:A:GLU:HB3	9	0.64
(2,1161)	1:38:A:THR:HB	1:57:A:LEU:HD23	1	0.64
(2,1005)	1:8:A:ALA:HB2	1:79:A:VAL:HA	3	0.64
(2,968)	1:8:A:ALA:HA	1:85:A:MET:HE2	10	0.64
(2,948)	1:61:A:ILE:HA	1:36:A:ILE:HG23	4	0.64
(2,875)	1:79:A:VAL:HG13	1:64:A:VAL:HB	6	0.64
(2,870)	1:4:A:ILE:HD13	1:7:A:ALA:HB1	3	0.64
(2,841)	1:79:A:VAL:HA	1:64:A:VAL:HG13	1	0.64
(2,841)	1:79:A:VAL:HA	1:64:A:VAL:HG11	2	0.64
(2,841)	1:79:A:VAL:HA	1:64:A:VAL:HG13	9	0.64
(2,736)	1:82:A:VAL:HG23	1:5:A:TYR:HE1	4	0.64
(2,670)	1:8:A:ALA:HB2	1:5:A:TYR:HB2	3	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,392)	1:3:A:ASP:HB2	1:6:A:LYS:HB3	4	0.64
(2,304)	1:20:A:PHE:HB3	1:74:A:PHE:HE1	5	0.64
(2,275)	1:44:A:VAL:HA	1:157:A:LEU:HD21	9	0.64
(2,145)	1:40:A:GLU:HA	1:31:A:ALA:HB2	9	0.64
(2,97)	1:25:A:ASP:HA	1:28:A:VAL:HG13	6	0.64
(2,97)	1:25:A:ASP:HA	1:28:A:VAL:HG13	8	0.64
(2,97)	1:25:A:ASP:HA	1:28:A:VAL:HG11	10	0.64
(2,60)	1:3:A:ASP:HA	1:7:A:ALA:HB2	8	0.64
(2,1434)	1:83:A:ARG:HA	1:85:A:MET:HB2	4	0.63
(2,1432)	1:62:A:ASP:HB3	1:61:A:ILE:HG21	7	0.63
(2,1400)	1:47:A:MET:HE1	1:27:A:PHE:HA	8	0.63
(2,1364)	1:58:A:GLN:HA	1:61:A:ILE:HG21	4	0.63
(2,1312)	1:38:A:THR:HG21	1:70:A:GLY:HA2	10	0.63
(2,1200)	1:52:A:PRO:HD2	1:50:A:GLN:HB2	9	0.63
(2,1193)	1:80:A:MET:HA	1:64:A:VAL:HG21	2	0.63
(2,1186)	1:16:A:GLN:HA	1:15:A:GLU:HB3	10	0.63
(2,1129)	1:36:A:ILE:HD11	1:77:A:PHE:HE1	9	0.63
(2,991)	1:60:A:MET:HG3	1:45:A:MET:HE1	10	0.63
(2,984)	1:153:A:MET:HE1	1:148:A:ILE:HG12	9	0.63
(2,940)	1:61:A:ILE:HD12	1:37:A:SER:HB3	6	0.63
(2,875)	1:79:A:VAL:HG12	1:64:A:VAL:HB	8	0.63
(2,870)	1:4:A:ILE:HD13	1:7:A:ALA:HB1	6	0.63
(2,809)	1:48:A:LEU:HA	1:48:A:LEU:HD12	4	0.63
(2,783)	1:9:A:VAL:HG13	1:78:A:LEU:HD23	1	0.63
(2,783)	1:9:A:VAL:HG12	1:78:A:LEU:HD23	2	0.63
(2,755)	1:158:A:LEU:HD11	1:154:A:MET:HG2	2	0.63
(2,736)	1:82:A:VAL:HG22	1:5:A:TYR:HE1	8	0.63
(2,736)	1:82:A:VAL:HG21	1:5:A:TYR:HE1	10	0.63
(2,702)	1:54:A:PRO:HD3	1:53:A:THR:HG22	10	0.63
(2,670)	1:8:A:ALA:HB2	1:5:A:TYR:HB2	4	0.63
(2,503)	1:85:A:MET:HE3	1:81:A:MET:HG3	10	0.63
(2,140)	1:54:A:PRO:HA	1:57:A:LEU:HD21	5	0.63
(2,114)	1:157:A:LEU:HA	1:157:A:LEU:HD13	5	0.63
(2,97)	1:25:A:ASP:HA	1:28:A:VAL:HG11	9	0.63
(2,1412)	1:79:A:VAL:HA	1:6:A:LYS:HA	5	0.62
(2,1400)	1:47:A:MET:HE2	1:27:A:PHE:HA	6	0.62
(2,1375)	1:78:A:LEU:HD12	1:77:A:PHE:HE1	6	0.62
(2,1371)	1:79:A:VAL:HG11	1:83:A:ARG:HB3	3	0.62
(2,1370)	1:79:A:VAL:HG11	1:76:A:GLU:HA	7	0.62
(2,1364)	1:58:A:GLN:HA	1:61:A:ILE:HG21	9	0.62
(2,1335)	1:64:A:VAL:HG22	1:76:A:GLU:HA	9	0.62
(2,1257)	1:85:A:MET:HE3	1:8:A:ALA:HB1	7	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1204)	1:161:A:ARG:HD3	1:161:A:ARG:HG2	4	0.62
(2,1197)	1:24:A:PHE:HA	1:77:A:PHE:HE1	3	0.62
(2,983)	1:154:A:MET:HE3	1:20:A:PHE:HB3	5	0.62
(2,903)	1:4:A:ILE:HG21	1:6:A:LYS:HB2	3	0.62
(2,841)	1:79:A:VAL:HA	1:64:A:VAL:HG12	10	0.62
(2,697)	1:7:A:ALA:HB1	1:4:A:ILE:HG12	6	0.62
(2,696)	1:6:A:LYS:HB3	1:7:A:ALA:HB2	3	0.62
(2,670)	1:8:A:ALA:HB3	1:5:A:TYR:HB2	1	0.62
(2,481)	1:153:A:MET:HE3	1:23:A:ALA:HB1	2	0.62
(2,478)	1:153:A:MET:HE3	1:154:A:MET:HG2	4	0.62
(2,226)	1:82:A:VAL:HA	1:82:A:VAL:HG13	3	0.62
(2,1430)	1:157:A:LEU:HD22	1:27:A:PHE:HA	4	0.61
(2,1390)	1:71:A:THR:HB	1:61:A:ILE:HG23	6	0.61
(2,1375)	1:78:A:LEU:HD12	1:77:A:PHE:HE1	4	0.61
(2,1375)	1:78:A:LEU:HD13	1:77:A:PHE:HE1	7	0.61
(2,1375)	1:78:A:LEU:HD11	1:77:A:PHE:HE1	8	0.61
(2,1353)	1:26:A:ILE:HG13	1:26:A:ILE:HG22	8	0.61
(2,1335)	1:64:A:VAL:HG22	1:76:A:GLU:HA	3	0.61
(2,1257)	1:85:A:MET:HE1	1:8:A:ALA:HB3	9	0.61
(2,1234)	1:10:A:GLU:HG2	1:9:A:VAL:HG13	2	0.61
(2,1207)	1:6:A:LYS:HE2	1:3:A:ASP:HA	2	0.61
(2,1207)	1:6:A:LYS:HE3	1:3:A:ASP:HA	8	0.61
(2,1197)	1:24:A:PHE:HA	1:77:A:PHE:HE1	9	0.61
(2,1186)	1:16:A:GLN:HA	1:15:A:GLU:HB3	4	0.61
(2,1161)	1:38:A:THR:HB	1:61:A:ILE:HD13	4	0.61
(2,1084)	1:28:A:VAL:HG13	1:27:A:PHE:HA	3	0.61
(2,1023)	1:71:A:THR:HG22	1:35:A:SER:HA	2	0.61
(2,1005)	1:8:A:ALA:HB1	1:79:A:VAL:HA	9	0.61
(2,995)	1:8:A:ALA:HA	1:4:A:ILE:HD12	10	0.61
(2,984)	1:153:A:MET:HE1	1:148:A:ILE:HG12	4	0.61
(2,983)	1:154:A:MET:HE3	1:20:A:PHE:HB3	1	0.61
(2,982)	1:153:A:MET:HE2	1:44:A:VAL:HG21	2	0.61
(2,966)	1:148:A:ILE:HA	1:148:A:ILE:HD13	2	0.61
(2,948)	1:61:A:ILE:HA	1:36:A:ILE:HG22	10	0.61
(2,865)	1:61:A:ILE:HA	1:61:A:ILE:HD13	3	0.61
(2,865)	1:61:A:ILE:HA	1:61:A:ILE:HD11	9	0.61
(2,823)	1:143:A:LEU:HD21	1:142:A:THR:HG23	2	0.61
(2,823)	1:143:A:LEU:HD22	1:142:A:THR:HG22	5	0.61
(2,799)	1:143:A:LEU:HD12	1:143:A:LEU:HA	3	0.61
(2,773)	1:26:A:ILE:HG12	1:29:A:LEU:HD12	5	0.61
(2,736)	1:82:A:VAL:HG22	1:5:A:TYR:HE1	5	0.61
(2,714)	1:38:A:THR:HG21	1:61:A:ILE:HG12	2	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,663)	1:22:A:ALA:HB3	1:158:A:LEU:HD11	5	0.61
(2,547)	1:154:A:MET:HE1	1:81:A:MET:HG2	6	0.61
(2,467)	1:63:A:GLU:HB2	1:64:A:VAL:HG12	3	0.61
(2,417)	1:155:A:GLN:HG3	1:152:A:ALA:HB3	8	0.61
(2,114)	1:157:A:LEU:HA	1:157:A:LEU:HD13	8	0.61
(2,97)	1:25:A:ASP:HA	1:28:A:VAL:HG12	7	0.61
(2,86)	1:90:A:LYS:HA	1:90:A:LYS:HG2	6	0.61
(2,45)	1:65:A:ASP:HA	1:61:A:ILE:HG21	7	0.61
(2,1390)	1:71:A:THR:HB	1:61:A:ILE:HG21	10	0.6
(2,1383)	1:36:A:ILE:HD12	1:28:A:VAL:HG22	10	0.6
(2,1379)	1:148:A:ILE:HD13	1:44:A:VAL:HG13	7	0.6
(2,1375)	1:78:A:LEU:HD13	1:77:A:PHE:HE1	1	0.6
(2,1371)	1:79:A:VAL:HG12	1:83:A:ARG:HB3	5	0.6
(2,1364)	1:58:A:GLN:HA	1:61:A:ILE:HG21	1	0.6
(2,1335)	1:64:A:VAL:HG22	1:76:A:GLU:HA	1	0.6
(2,1313)	1:41:A:LEU:HB3	1:38:A:THR:HG21	5	0.6
(2,1301)	1:151:A:ASP:HB2	1:152:A:ALA:HB2	8	0.6
(2,1258)	1:85:A:MET:HE2	1:82:A:VAL:HG21	8	0.6
(2,1242)	1:19:A:GLU:HB2	1:158:A:LEU:HD13	1	0.6
(2,1204)	1:147:A:ARG:HD2	1:147:A:ARG:HG3	8	0.6
(2,1200)	1:52:A:PRO:HD2	1:50:A:GLN:HB2	7	0.6
(2,1181)	1:136:A:GLY:HA3	1:137:A:LYS:HB3	8	0.6
(2,1050)	1:45:A:MET:HG3	1:41:A:LEU:HD13	10	0.6
(2,991)	1:60:A:MET:HG3	1:45:A:MET:HE1	4	0.6
(2,991)	1:60:A:MET:HG2	1:45:A:MET:HE3	7	0.6
(2,989)	1:52:A:PRO:HA	1:45:A:MET:HE3	2	0.6
(2,948)	1:61:A:ILE:HA	1:36:A:ILE:HG23	2	0.6
(2,867)	1:4:A:ILE:HB	1:4:A:ILE:HD13	10	0.6
(2,866)	1:61:A:ILE:HB	1:61:A:ILE:HD11	1	0.6
(2,823)	1:143:A:LEU:HD23	1:142:A:THR:HG22	6	0.6
(2,814)	1:26:A:ILE:HA	1:26:A:ILE:HD13	8	0.6
(2,809)	1:48:A:LEU:HA	1:48:A:LEU:HD12	7	0.6
(2,736)	1:82:A:VAL:HG23	1:5:A:TYR:HE1	3	0.6
(2,736)	1:82:A:VAL:HG22	1:5:A:TYR:HE1	6	0.6
(2,670)	1:8:A:ALA:HB2	1:5:A:TYR:HB2	7	0.6
(2,602)	1:44:A:VAL:HB	1:157:A:LEU:HD23	8	0.6
(2,226)	1:82:A:VAL:HA	1:82:A:VAL:HG12	1	0.6
(2,214)	1:136:A:GLY:HA3	1:90:A:LYS:HE3	5	0.6
(2,1412)	1:79:A:VAL:HA	1:6:A:LYS:HA	6	0.59
(2,1394)	1:35:A:SER:HB2	1:28:A:VAL:HG13	2	0.59
(2,1379)	1:148:A:ILE:HD11	1:44:A:VAL:HG11	10	0.59
(2,1223)	1:2:A:ASP:HB3	1:79:A:VAL:HG22	7	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1200)	1:52:A:PRO:HD2	1:50:A:GLN:HB2	8	0.59
(2,1035)	1:57:A:LEU:HB2	1:57:A:LEU:HD23	4	0.59
(2,1035)	1:57:A:LEU:HB2	1:57:A:LEU:HD23	6	0.59
(2,1035)	1:57:A:LEU:HB2	1:57:A:LEU:HD21	7	0.59
(2,1035)	1:57:A:LEU:HB2	1:57:A:LEU:HD23	9	0.59
(2,983)	1:154:A:MET:HE3	1:20:A:PHE:HB3	9	0.59
(2,783)	1:9:A:VAL:HG12	1:78:A:LEU:HD21	3	0.59
(2,699)	1:13:A:THR:HG23	1:12:A:LEU:HD23	4	0.59
(2,697)	1:7:A:ALA:HB3	1:4:A:ILE:HG12	2	0.59
(2,696)	1:6:A:LYS:HB3	1:7:A:ALA:HB1	5	0.59
(2,670)	1:8:A:ALA:HB3	1:5:A:TYR:HB2	2	0.59
(2,663)	1:22:A:ALA:HB1	1:158:A:LEU:HD12	2	0.59
(2,515)	1:1:A:MET:HB3	1:6:A:LYS:HB2	7	0.59
(2,503)	1:85:A:MET:HE1	1:81:A:MET:HG3	1	0.59
(2,477)	1:153:A:MET:HE2	1:154:A:MET:HA	5	0.59
(2,467)	1:63:A:GLU:HB2	1:64:A:VAL:HG12	8	0.59
(2,275)	1:44:A:VAL:HA	1:157:A:LEU:HD23	8	0.59
(2,145)	1:40:A:GLU:HA	1:31:A:ALA:HB2	6	0.59
(2,45)	1:65:A:ASP:HA	1:61:A:ILE:HG23	5	0.59
(2,1406)	1:20:A:PHE:HA	1:19:A:GLU:HG2	5	0.58
(2,1405)	1:20:A:PHE:HA	1:158:A:LEU:HD12	1	0.58
(2,1396)	1:28:A:VAL:HG11	1:43:A:LYS:HD2	2	0.58
(2,1379)	1:48:A:LEU:HD13	1:44:A:VAL:HG12	2	0.58
(2,1367)	1:61:A:ILE:HD11	1:41:A:LEU:HA	8	0.58
(2,1313)	1:41:A:LEU:HB3	1:38:A:THR:HG21	2	0.58
(2,1257)	1:85:A:MET:HE1	1:8:A:ALA:HB1	5	0.58
(2,1035)	1:57:A:LEU:HB2	1:57:A:LEU:HD23	2	0.58
(2,1035)	1:57:A:LEU:HB2	1:57:A:LEU:HD21	3	0.58
(2,1035)	1:57:A:LEU:HB2	1:57:A:LEU:HD21	10	0.58
(2,995)	1:8:A:ALA:HA	1:4:A:ILE:HD13	3	0.58
(2,982)	1:153:A:MET:HE2	1:44:A:VAL:HG21	8	0.58
(2,879)	1:78:A:LEU:HD22	1:77:A:PHE:HD1	4	0.58
(2,879)	1:78:A:LEU:HD21	1:77:A:PHE:HD1	9	0.58
(2,799)	1:143:A:LEU:HD12	1:143:A:LEU:HA	1	0.58
(2,797)	1:146:A:VAL:HA	1:146:A:VAL:HG22	6	0.58
(2,771)	1:82:A:VAL:HG23	1:82:A:VAL:HG11	9	0.58
(2,547)	1:154:A:MET:HE3	1:81:A:MET:HG2	1	0.58
(2,547)	1:154:A:MET:HE3	1:81:A:MET:HG2	4	0.58
(2,510)	1:1:A:MET:HE2	1:5:A:TYR:HB2	4	0.58
(2,494)	1:10:A:GLU:HB2	1:9:A:VAL:HG11	4	0.58
(2,481)	1:153:A:MET:HE3	1:23:A:ALA:HB3	1	0.58
(2,478)	1:153:A:MET:HE2	1:154:A:MET:HG2	8	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,466)	1:72:A:VAL:HB	1:61:A:ILE:HG23	9	0.58
(2,1430)	1:157:A:LEU:HD22	1:27:A:PHE:HA	10	0.57
(2,1371)	1:79:A:VAL:HG12	1:83:A:ARG:HB3	1	0.57
(2,1346)	1:45:A:MET:HA	1:48:A:LEU:HD11	10	0.57
(2,1332)	1:9:A:VAL:HG22	1:75:A:ASP:HB3	9	0.57
(2,1331)	1:79:A:VAL:HG21	1:2:A:ASP:HB2	4	0.57
(2,1331)	1:79:A:VAL:HG22	1:2:A:ASP:HB2	7	0.57
(2,1312)	1:38:A:THR:HG23	1:70:A:GLY:HA2	1	0.57
(2,1242)	1:19:A:GLU:HB2	1:158:A:LEU:HD11	10	0.57
(2,1223)	1:2:A:ASP:HB3	1:79:A:VAL:HG21	8	0.57
(2,1210)	1:6:A:LYS:HE2	1:10:A:GLU:HB2	1	0.57
(2,1207)	1:6:A:LYS:HE2	1:3:A:ASP:HA	10	0.57
(2,1174)	1:150:A:ALA:HA	1:148:A:ILE:HD11	9	0.57
(2,1161)	1:38:A:THR:HB	1:61:A:ILE:HD13	6	0.57
(2,1035)	1:57:A:LEU:HB2	1:57:A:LEU:HD23	5	0.57
(2,1035)	1:57:A:LEU:HB2	1:57:A:LEU:HD21	8	0.57
(2,914)	1:78:A:LEU:HD11	1:17:A:LYS:HG3	5	0.57
(2,879)	1:78:A:LEU:HD22	1:77:A:PHE:HD1	6	0.57
(2,867)	1:4:A:ILE:HB	1:4:A:ILE:HD11	3	0.57
(2,723)	1:142:A:THR:HG22	1:141:A:PRO:HA	2	0.57
(2,697)	1:7:A:ALA:HB1	1:4:A:ILE:HG12	5	0.57
(2,503)	1:85:A:MET:HE3	1:81:A:MET:HG3	9	0.57
(2,477)	1:153:A:MET:HE2	1:154:A:MET:HA	3	0.57
(2,477)	1:153:A:MET:HE3	1:154:A:MET:HA	10	0.57
(2,304)	1:20:A:PHE:HB2	1:74:A:PHE:HE1	2	0.57
(2,304)	1:20:A:PHE:HB3	1:74:A:PHE:HE1	4	0.57
(2,304)	1:20:A:PHE:HB3	1:74:A:PHE:HE1	7	0.57
(2,112)	1:41:A:LEU:HA	1:41:A:LEU:HD21	1	0.57
(2,97)	1:25:A:ASP:HA	1:28:A:VAL:HG13	5	0.57
(2,1412)	1:79:A:VAL:HA	1:6:A:LYS:HA	4	0.56
(2,1353)	1:26:A:ILE:HG13	1:26:A:ILE:HG23	1	0.56
(2,1312)	1:38:A:THR:HG23	1:70:A:GLY:HA2	8	0.56
(2,1307)	1:7:A:ALA:HB3	1:11:A:GLN:HB2	1	0.56
(2,1272)	1:52:A:PRO:HB3	1:57:A:LEU:HD11	8	0.56
(2,1234)	1:10:A:GLU:HG2	1:9:A:VAL:HG11	1	0.56
(2,1233)	1:74:A:PHE:HB3	1:74:A:PHE:HE1	3	0.56
(2,1191)	1:52:A:PRO:HD3	1:57:A:LEU:HD13	4	0.56
(2,1180)	1:42:A:GLY:HA3	1:52:A:PRO:HG3	2	0.56
(2,1180)	1:42:A:GLY:HA3	1:52:A:PRO:HG3	10	0.56
(2,986)	1:157:A:LEU:HD23	1:23:A:ALA:HB3	3	0.56
(2,867)	1:4:A:ILE:HB	1:4:A:ILE:HD11	2	0.56
(2,867)	1:4:A:ILE:HB	1:4:A:ILE:HD13	5	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,867)	1:4:A:ILE:HB	1:4:A:ILE:HD12	7	0.56
(2,867)	1:4:A:ILE:HB	1:4:A:ILE:HD13	8	0.56
(2,800)	1:29:A:LEU:HD21	1:26:A:ILE:HA	7	0.56
(2,800)	1:29:A:LEU:HD21	1:26:A:ILE:HA	8	0.56
(2,736)	1:82:A:VAL:HG22	1:5:A:TYR:HE1	1	0.56
(2,710)	1:58:A:GLN:HG2	1:38:A:THR:HG22	7	0.56
(2,699)	1:13:A:THR:HG21	1:12:A:LEU:HD23	9	0.56
(2,542)	1:47:A:MET:HE1	1:44:A:VAL:HG13	4	0.56
(2,503)	1:85:A:MET:HE3	1:81:A:MET:HG3	3	0.56
(2,503)	1:85:A:MET:HE3	1:81:A:MET:HG3	5	0.56
(2,288)	1:80:A:MET:HA	1:80:A:MET:HG2	8	0.56
(2,145)	1:40:A:GLU:HA	1:31:A:ALA:HB2	3	0.56
(2,1430)	1:157:A:LEU:HD21	1:27:A:PHE:HA	9	0.55
(2,1375)	1:78:A:LEU:HD12	1:77:A:PHE:HE1	10	0.55
(2,1353)	1:26:A:ILE:HG13	1:26:A:ILE:HG21	7	0.55
(2,1347)	1:38:A:THR:HG23	1:57:A:LEU:HD11	4	0.55
(2,1346)	1:45:A:MET:HA	1:48:A:LEU:HD13	7	0.55
(2,1248)	1:50:A:GLN:HG2	1:48:A:LEU:HD13	1	0.55
(2,1248)	1:50:A:GLN:HG3	1:48:A:LEU:HD21	9	0.55
(2,1210)	1:6:A:LYS:HE3	1:79:A:VAL:HB	7	0.55
(2,1184)	1:82:A:VAL:HA	1:8:A:ALA:HB3	10	0.55
(2,1177)	1:153:A:MET:HA	1:156:A:ALA:HB3	8	0.55
(2,995)	1:8:A:ALA:HA	1:4:A:ILE:HD12	5	0.55
(2,985)	1:20:A:PHE:HA	1:22:A:ALA:HB3	7	0.55
(2,985)	1:20:A:PHE:HA	1:22:A:ALA:HB1	9	0.55
(2,975)	1:1:A:MET:HB3	1:79:A:VAL:HG21	1	0.55
(2,966)	1:148:A:ILE:HA	1:148:A:ILE:HD11	3	0.55
(2,966)	1:148:A:ILE:HA	1:148:A:ILE:HD13	6	0.55
(2,911)	1:78:A:LEU:HD11	1:17:A:LYS:HE2	10	0.55
(2,896)	1:31:A:ALA:HB1	1:28:A:VAL:HG23	10	0.55
(2,892)	1:28:A:VAL:HA	1:28:A:VAL:HG23	1	0.55
(2,879)	1:78:A:LEU:HD21	1:77:A:PHE:HD1	5	0.55
(2,876)	1:78:A:LEU:HD21	1:77:A:PHE:HE1	2	0.55
(2,870)	1:4:A:ILE:HD11	1:7:A:ALA:HB2	7	0.55
(2,867)	1:4:A:ILE:HB	1:4:A:ILE:HD13	1	0.55
(2,867)	1:4:A:ILE:HB	1:4:A:ILE:HD12	4	0.55
(2,867)	1:4:A:ILE:HB	1:4:A:ILE:HD11	6	0.55
(2,814)	1:26:A:ILE:HA	1:26:A:ILE:HD12	7	0.55
(2,773)	1:26:A:ILE:HG12	1:29:A:LEU:HD13	4	0.55
(2,755)	1:158:A:LEU:HD13	1:154:A:MET:HG2	10	0.55
(2,618)	1:45:A:MET:HE1	1:148:A:ILE:HA	7	0.55
(2,502)	1:85:A:MET:HG2	1:85:A:MET:HE3	10	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,485)	1:153:A:MET:HE2	1:157:A:LEU:HD23	3	0.55
(2,478)	1:153:A:MET:HE3	1:154:A:MET:HG2	5	0.55
(2,467)	1:63:A:GLU:HB2	1:64:A:VAL:HG12	2	0.55
(2,446)	1:15:A:GLU:HG2	1:13:A:THR:HG21	1	0.55
(2,446)	1:15:A:GLU:HG2	1:13:A:THR:HG22	8	0.55
(2,391)	1:151:A:ASP:HB2	1:152:A:ALA:HA	2	0.55
(2,275)	1:44:A:VAL:HA	1:157:A:LEU:HD21	6	0.55
(2,1391)	1:4:A:ILE:HD12	1:6:A:LYS:HB3	5	0.54
(2,1390)	1:71:A:THR:HB	1:61:A:ILE:HG22	5	0.54
(2,1387)	1:71:A:THR:HB	1:61:A:ILE:HD13	10	0.54
(2,1371)	1:79:A:VAL:HG12	1:83:A:ARG:HB3	8	0.54
(2,1371)	1:79:A:VAL:HG12	1:83:A:ARG:HB3	9	0.54
(2,1353)	1:26:A:ILE:HG13	1:26:A:ILE:HG23	6	0.54
(2,1332)	1:9:A:VAL:HG21	1:75:A:ASP:HB3	1	0.54
(2,1312)	1:38:A:THR:HG22	1:70:A:GLY:HA2	3	0.54
(2,1272)	1:52:A:PRO:HB3	1:57:A:LEU:HD13	1	0.54
(2,1203)	1:145:A:ARG:HA	1:147:A:ARG:HD2	9	0.54
(2,1184)	1:82:A:VAL:HA	1:8:A:ALA:HB1	5	0.54
(2,1181)	1:136:A:GLY:HA3	1:137:A:LYS:HB2	6	0.54
(2,1180)	1:42:A:GLY:HA3	1:52:A:PRO:HG3	5	0.54
(2,1160)	1:38:A:THR:HB	1:41:A:LEU:HB3	10	0.54
(2,1038)	1:158:A:LEU:HD12	1:161:A:ARG:HD2	4	0.54
(2,985)	1:20:A:PHE:HA	1:22:A:ALA:HB2	6	0.54
(2,984)	1:153:A:MET:HE1	1:148:A:ILE:HG12	1	0.54
(2,948)	1:61:A:ILE:HA	1:36:A:ILE:HG23	5	0.54
(2,940)	1:61:A:ILE:HD13	1:37:A:SER:HB3	8	0.54
(2,892)	1:28:A:VAL:HA	1:28:A:VAL:HG22	3	0.54
(2,875)	1:79:A:VAL:HG13	1:64:A:VAL:HB	4	0.54
(2,788)	1:148:A:ILE:HA	1:148:A:ILE:HG21	10	0.54
(2,697)	1:7:A:ALA:HB1	1:4:A:ILE:HG12	4	0.54
(2,621)	1:52:A:PRO:HD2	1:45:A:MET:HE3	9	0.54
(2,602)	1:44:A:VAL:HB	1:157:A:LEU:HD21	2	0.54
(2,542)	1:47:A:MET:HE3	1:44:A:VAL:HG12	7	0.54
(2,467)	1:63:A:GLU:HB2	1:64:A:VAL:HG12	1	0.54
(2,275)	1:44:A:VAL:HA	1:157:A:LEU:HD23	1	0.54
(2,145)	1:40:A:GLU:HA	1:31:A:ALA:HB3	2	0.54
(2,77)	1:48:A:LEU:HA	1:156:A:ALA:HB2	3	0.54
(2,60)	1:3:A:ASP:HA	1:7:A:ALA:HB2	6	0.54
(2,1391)	1:4:A:ILE:HD13	1:6:A:LYS:HB3	6	0.53
(2,1375)	1:78:A:LEU:HD12	1:77:A:PHE:HE1	9	0.53
(2,1332)	1:9:A:VAL:HG23	1:75:A:ASP:HB3	5	0.53
(2,1272)	1:52:A:PRO:HB3	1:57:A:LEU:HD11	2	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1272)	1:52:A:PRO:HB3	1:57:A:LEU:HD11	9	0.53
(2,1233)	1:74:A:PHE:HB3	1:24:A:PHE:HD1	9	0.53
(2,1228)	1:153:A:MET:HG3	1:48:A:LEU:HG	6	0.53
(2,1204)	1:147:A:ARG:HD2	1:147:A:ARG:HG3	10	0.53
(2,1160)	1:38:A:THR:HB	1:41:A:LEU:HB3	6	0.53
(2,1129)	1:36:A:ILE:HD12	1:77:A:PHE:HE1	1	0.53
(2,1014)	1:78:A:LEU:HD11	1:17:A:LYS:HD3	10	0.53
(2,986)	1:157:A:LEU:HD23	1:23:A:ALA:HB2	1	0.53
(2,983)	1:154:A:MET:HE1	1:20:A:PHE:HB3	3	0.53
(2,944)	1:72:A:VAL:HB	1:36:A:ILE:HD13	6	0.53
(2,892)	1:28:A:VAL:HA	1:28:A:VAL:HG21	2	0.53
(2,892)	1:28:A:VAL:HA	1:28:A:VAL:HG21	6	0.53
(2,875)	1:79:A:VAL:HG12	1:64:A:VAL:HB	9	0.53
(2,866)	1:61:A:ILE:HB	1:61:A:ILE:HD13	8	0.53
(2,771)	1:82:A:VAL:HG22	1:82:A:VAL:HG13	10	0.53
(2,697)	1:7:A:ALA:HB2	1:4:A:ILE:HG12	7	0.53
(2,697)	1:7:A:ALA:HB1	1:4:A:ILE:HG12	8	0.53
(2,467)	1:63:A:GLU:HB2	1:64:A:VAL:HG12	9	0.53
(2,442)	1:15:A:GLU:HG3	1:18:A:ASN:HB2	3	0.53
(2,280)	1:9:A:VAL:HA	1:8:A:ALA:HB1	10	0.53
(2,275)	1:44:A:VAL:HA	1:157:A:LEU:HD23	2	0.53
(2,226)	1:82:A:VAL:HA	1:82:A:VAL:HG13	2	0.53
(2,202)	1:149:A:SER:HB3	1:152:A:ALA:HB1	6	0.53
(2,116)	1:41:A:LEU:HA	1:44:A:VAL:HG12	2	0.53
(2,112)	1:41:A:LEU:HA	1:41:A:LEU:HD23	2	0.53
(2,112)	1:41:A:LEU:HA	1:41:A:LEU:HD23	9	0.53
(2,60)	1:3:A:ASP:HA	1:7:A:ALA:HB3	9	0.53
(2,1405)	1:20:A:PHE:HA	1:158:A:LEU:HD13	3	0.52
(2,1394)	1:35:A:SER:HB2	1:28:A:VAL:HG13	4	0.52
(2,1394)	1:35:A:SER:HB2	1:28:A:VAL:HG12	5	0.52
(2,1390)	1:71:A:THR:HB	1:61:A:ILE:HG21	2	0.52
(2,1332)	1:9:A:VAL:HG21	1:75:A:ASP:HB3	4	0.52
(2,1327)	1:158:A:LEU:HA	1:158:A:LEU:HD12	3	0.52
(2,1327)	1:158:A:LEU:HA	1:158:A:LEU:HD12	7	0.52
(2,1313)	1:41:A:LEU:HB3	1:38:A:THR:HG23	7	0.52
(2,1257)	1:85:A:MET:HE2	1:8:A:ALA:HB2	6	0.52
(2,1233)	1:74:A:PHE:HB3	1:74:A:PHE:HE1	1	0.52
(2,1233)	1:74:A:PHE:HB3	1:24:A:PHE:HD1	7	0.52
(2,1204)	1:147:A:ARG:HD2	1:147:A:ARG:HG3	5	0.52
(2,1204)	1:147:A:ARG:HD2	1:147:A:ARG:HG3	7	0.52
(2,1197)	1:24:A:PHE:HA	1:77:A:PHE:HE1	5	0.52
(2,1133)	1:37:A:SER:HB3	1:36:A:ILE:HG21	7	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1014)	1:78:A:LEU:HD12	1:17:A:LYS:HD3	3	0.52
(2,995)	1:8:A:ALA:HA	1:4:A:ILE:HD13	2	0.52
(2,966)	1:148:A:ILE:HA	1:148:A:ILE:HD13	10	0.52
(2,944)	1:72:A:VAL:HB	1:36:A:ILE:HD12	8	0.52
(2,879)	1:78:A:LEU:HD22	1:77:A:PHE:HD1	10	0.52
(2,789)	1:146:A:VAL:HG23	1:147:A:ARG:HD2	2	0.52
(2,755)	1:158:A:LEU:HD13	1:154:A:MET:HG2	3	0.52
(2,714)	1:38:A:THR:HG22	1:61:A:ILE:HG12	10	0.52
(2,697)	1:7:A:ALA:HB3	1:4:A:ILE:HG12	1	0.52
(2,697)	1:7:A:ALA:HB3	1:4:A:ILE:HG12	10	0.52
(2,510)	1:1:A:MET:HE1	1:5:A:TYR:HB2	2	0.52
(2,502)	1:85:A:MET:HG2	1:85:A:MET:HE3	6	0.52
(2,478)	1:153:A:MET:HE3	1:154:A:MET:HG2	9	0.52
(2,446)	1:15:A:GLU:HG2	1:13:A:THR:HG22	6	0.52
(2,442)	1:15:A:GLU:HG3	1:18:A:ASN:HB2	10	0.52
(2,304)	1:20:A:PHE:HB3	1:74:A:PHE:HE1	10	0.52
(2,288)	1:80:A:MET:HA	1:80:A:MET:HG2	6	0.52
(2,145)	1:40:A:GLU:HA	1:31:A:ALA:HB1	5	0.52
(2,97)	1:25:A:ASP:HA	1:28:A:VAL:HG13	3	0.52
(2,86)	1:90:A:LYS:HA	1:90:A:LYS:HG3	4	0.52
(2,77)	1:48:A:LEU:HA	1:156:A:ALA:HB2	4	0.52
(2,1407)	1:23:A:ALA:HA	1:157:A:LEU:HD23	3	0.51
(2,1366)	1:45:A:MET:HE2	1:57:A:LEU:HD22	1	0.51
(2,1335)	1:64:A:VAL:HG22	1:76:A:GLU:HA	6	0.51
(2,1327)	1:158:A:LEU:HA	1:158:A:LEU:HD12	10	0.51
(2,1272)	1:52:A:PRO:HB3	1:57:A:LEU:HD13	5	0.51
(2,1228)	1:153:A:MET:HG3	1:48:A:LEU:HG	5	0.51
(2,1204)	1:147:A:ARG:HD2	1:147:A:ARG:HG3	2	0.51
(2,1159)	1:69:A:SER:HB2	1:71:A:THR:HB	8	0.51
(2,1023)	1:71:A:THR:HG23	1:35:A:SER:HA	10	0.51
(2,1014)	1:78:A:LEU:HD12	1:17:A:LYS:HD3	2	0.51
(2,986)	1:157:A:LEU:HD22	1:23:A:ALA:HB1	4	0.51
(2,986)	1:157:A:LEU:HD21	1:23:A:ALA:HB2	6	0.51
(2,983)	1:154:A:MET:HE3	1:20:A:PHE:HB3	4	0.51
(2,898)	1:4:A:ILE:HG21	1:5:A:TYR:HE1	9	0.51
(2,892)	1:28:A:VAL:HA	1:28:A:VAL:HG22	9	0.51
(2,891)	1:35:A:SER:HA	1:28:A:VAL:HG23	3	0.51
(2,841)	1:79:A:VAL:HA	1:64:A:VAL:HG13	4	0.51
(2,841)	1:79:A:VAL:HA	1:64:A:VAL:HG13	6	0.51
(2,797)	1:146:A:VAL:HA	1:146:A:VAL:HG21	1	0.51
(2,793)	1:26:A:ILE:HG12	1:157:A:LEU:HD13	8	0.51
(2,714)	1:38:A:THR:HG23	1:61:A:ILE:HG12	9	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,703)	1:13:A:THR:HG22	1:16:A:GLN:HG3	1	0.51
(2,697)	1:7:A:ALA:HB1	1:4:A:ILE:HG12	3	0.51
(2,477)	1:153:A:MET:HE2	1:154:A:MET:HA	7	0.51
(2,442)	1:15:A:GLU:HG3	1:18:A:ASN:HB2	8	0.51
(2,339)	1:43:A:LYS:HE2	1:43:A:LYS:HB2	1	0.51
(2,304)	1:20:A:PHE:HB3	1:74:A:PHE:HE1	6	0.51
(2,275)	1:44:A:VAL:HA	1:157:A:LEU:HD22	10	0.51
(2,145)	1:40:A:GLU:HA	1:31:A:ALA:HB3	4	0.51
(2,138)	1:8:A:ALA:HA	1:82:A:VAL:HG22	10	0.51
(2,114)	1:157:A:LEU:HA	1:157:A:LEU:HD11	7	0.51
(2,60)	1:3:A:ASP:HA	1:7:A:ALA:HB1	1	0.51
(2,45)	1:65:A:ASP:HA	1:61:A:ILE:HG23	2	0.51
(2,1412)	1:79:A:VAL:HA	1:6:A:LYS:HA	10	0.5
(2,1353)	1:26:A:ILE:HG13	1:26:A:ILE:HG23	5	0.5
(2,1325)	1:82:A:VAL:HG22	1:4:A:ILE:HD13	10	0.5
(2,1272)	1:52:A:PRO:HB3	1:57:A:LEU:HD12	3	0.5
(2,1204)	1:147:A:ARG:HD2	1:147:A:ARG:HG3	9	0.5
(2,1035)	1:57:A:LEU:HB2	1:57:A:LEU:HD23	1	0.5
(2,991)	1:60:A:MET:HG3	1:45:A:MET:HE1	9	0.5
(2,982)	1:153:A:MET:HE2	1:44:A:VAL:HG22	10	0.5
(2,976)	1:1:A:MET:HB3	1:6:A:LYS:HE3	1	0.5
(2,892)	1:28:A:VAL:HA	1:28:A:VAL:HG22	4	0.5
(2,892)	1:28:A:VAL:HA	1:28:A:VAL:HG22	8	0.5
(2,867)	1:4:A:ILE:HB	1:4:A:ILE:HD12	9	0.5
(2,850)	1:4:A:ILE:HD12	1:5:A:TYR:HD1	9	0.5
(2,807)	1:45:A:MET:HG3	1:57:A:LEU:HD11	8	0.5
(2,801)	1:143:A:LEU:HD13	1:142:A:THR:HG23	2	0.5
(2,773)	1:26:A:ILE:HG12	1:29:A:LEU:HD11	6	0.5
(2,771)	1:82:A:VAL:HG23	1:82:A:VAL:HG12	6	0.5
(2,714)	1:38:A:THR:HG21	1:61:A:ILE:HG12	5	0.5
(2,703)	1:13:A:THR:HG22	1:16:A:GLN:HG3	2	0.5
(2,546)	1:154:A:MET:HE3	1:22:A:ALA:HB2	1	0.5
(2,502)	1:85:A:MET:HG2	1:85:A:MET:HE2	2	0.5
(2,477)	1:153:A:MET:HE2	1:154:A:MET:HA	9	0.5
(2,467)	1:63:A:GLU:HB2	1:64:A:VAL:HG12	5	0.5
(2,467)	1:63:A:GLU:HB2	1:64:A:VAL:HG12	6	0.5
(2,442)	1:15:A:GLU:HG3	1:18:A:ASN:HB2	5	0.5
(2,442)	1:15:A:GLU:HG3	1:18:A:ASN:HB2	7	0.5
(2,442)	1:15:A:GLU:HG3	1:18:A:ASN:HB2	9	0.5
(2,237)	1:141:A:PRO:HD3	1:140:A:ARG:HB2	6	0.5
(2,114)	1:157:A:LEU:HA	1:157:A:LEU:HD11	3	0.5
(2,1361)	1:41:A:LEU:HD23	1:61:A:ILE:HG13	3	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1327)	1:158:A:LEU:HA	1:158:A:LEU:HD12	2	0.49
(2,1272)	1:52:A:PRO:HB3	1:57:A:LEU:HD12	7	0.49
(2,1204)	1:147:A:ARG:HD2	1:147:A:ARG:HG3	1	0.49
(2,1197)	1:24:A:PHE:HA	1:77:A:PHE:HE1	10	0.49
(2,1184)	1:82:A:VAL:HA	1:8:A:ALA:HB2	2	0.49
(2,1184)	1:82:A:VAL:HA	1:8:A:ALA:HB1	3	0.49
(2,1180)	1:42:A:GLY:HA3	1:52:A:PRO:HG3	3	0.49
(2,1157)	1:142:A:THR:HA	1:143:A:LEU:HB2	7	0.49
(2,1156)	1:154:A:MET:HA	1:157:A:LEU:HB2	8	0.49
(2,1120)	1:77:A:PHE:HA	1:81:A:MET:HE2	8	0.49
(2,1023)	1:71:A:THR:HG22	1:35:A:SER:HA	1	0.49
(2,986)	1:157:A:LEU:HD22	1:23:A:ALA:HB1	10	0.49
(2,985)	1:20:A:PHE:HA	1:22:A:ALA:HB3	8	0.49
(2,984)	1:153:A:MET:HE1	1:148:A:ILE:HG12	7	0.49
(2,948)	1:61:A:ILE:HA	1:36:A:ILE:HG21	3	0.49
(2,948)	1:61:A:ILE:HA	1:36:A:ILE:HG23	9	0.49
(2,906)	1:78:A:LEU:HD12	1:20:A:PHE:HD1	5	0.49
(2,898)	1:4:A:ILE:HG21	1:5:A:TYR:HE1	7	0.49
(2,892)	1:28:A:VAL:HA	1:28:A:VAL:HG21	5	0.49
(2,892)	1:28:A:VAL:HA	1:28:A:VAL:HG21	10	0.49
(2,865)	1:61:A:ILE:HA	1:61:A:ILE:HD12	6	0.49
(2,850)	1:4:A:ILE:HD13	1:5:A:TYR:HD1	1	0.49
(2,800)	1:29:A:LEU:HD22	1:26:A:ILE:HA	4	0.49
(2,792)	1:157:A:LEU:HD13	1:157:A:LEU:HB2	2	0.49
(2,773)	1:26:A:ILE:HG12	1:29:A:LEU:HD13	3	0.49
(2,771)	1:82:A:VAL:HG23	1:82:A:VAL:HG12	3	0.49
(2,771)	1:82:A:VAL:HG23	1:82:A:VAL:HG12	5	0.49
(2,736)	1:82:A:VAL:HG22	1:5:A:TYR:HE1	7	0.49
(2,714)	1:38:A:THR:HG22	1:61:A:ILE:HG12	6	0.49
(2,710)	1:58:A:GLN:HG2	1:38:A:THR:HG21	10	0.49
(2,699)	1:13:A:THR:HG23	1:12:A:LEU:HD22	6	0.49
(2,621)	1:52:A:PRO:HD2	1:45:A:MET:HE2	7	0.49
(2,618)	1:45:A:MET:HE2	1:148:A:ILE:HA	5	0.49
(2,602)	1:44:A:VAL:HB	1:157:A:LEU:HD21	6	0.49
(2,503)	1:85:A:MET:HE3	1:81:A:MET:HG3	4	0.49
(2,478)	1:153:A:MET:HE3	1:154:A:MET:HG2	2	0.49
(2,434)	1:19:A:GLU:HG3	1:158:A:LEU:HD11	4	0.49
(2,304)	1:20:A:PHE:HB3	1:74:A:PHE:HE1	9	0.49
(2,214)	1:136:A:GLY:HA2	1:90:A:LYS:HE3	10	0.49
(2,212)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	10	0.49
(2,1405)	1:20:A:PHE:HA	1:158:A:LEU:HD11	5	0.48
(2,1375)	1:78:A:LEU:HD13	1:77:A:PHE:HE1	3	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1375)	1:78:A:LEU:HD12	1:77:A:PHE:HE1	5	0.48
(2,1367)	1:61:A:ILE:HD12	1:41:A:LEU:HA	1	0.48
(2,1327)	1:158:A:LEU:HA	1:158:A:LEU:HD11	1	0.48
(2,1246)	1:47:A:MET:HB3	1:48:A:LEU:HD23	3	0.48
(2,1234)	1:10:A:GLU:HG2	1:9:A:VAL:HG12	8	0.48
(2,1233)	1:74:A:PHE:HB3	1:24:A:PHE:HD1	8	0.48
(2,1160)	1:38:A:THR:HB	1:41:A:LEU:HB3	5	0.48
(2,1091)	1:40:A:GLU:HA	1:36:A:ILE:HG21	7	0.48
(2,1069)	1:16:A:GLN:HA	1:12:A:LEU:HD22	7	0.48
(2,1033)	1:42:A:GLY:HA3	1:57:A:LEU:HD22	10	0.48
(2,985)	1:20:A:PHE:HA	1:22:A:ALA:HB1	10	0.48
(2,975)	1:1:A:MET:HB3	1:79:A:VAL:HG21	8	0.48
(2,940)	1:61:A:ILE:HD12	1:37:A:SER:HB3	5	0.48
(2,914)	1:78:A:LEU:HD12	1:17:A:LYS:HG3	7	0.48
(2,914)	1:78:A:LEU:HD13	1:17:A:LYS:HG3	8	0.48
(2,911)	1:78:A:LEU:HD12	1:17:A:LYS:HE2	3	0.48
(2,892)	1:28:A:VAL:HA	1:28:A:VAL:HG23	7	0.48
(2,888)	1:78:A:LEU:HD21	1:12:A:LEU:HD13	4	0.48
(2,850)	1:4:A:ILE:HD13	1:5:A:TYR:HD1	8	0.48
(2,849)	1:61:A:ILE:HG13	1:61:A:ILE:HG23	7	0.48
(2,793)	1:26:A:ILE:HG12	1:157:A:LEU:HD11	3	0.48
(2,773)	1:26:A:ILE:HG12	1:29:A:LEU:HD11	10	0.48
(2,714)	1:38:A:THR:HG23	1:61:A:ILE:HG12	3	0.48
(2,712)	1:58:A:GLN:HB2	1:38:A:THR:HG22	5	0.48
(2,663)	1:22:A:ALA:HB1	1:158:A:LEU:HD11	10	0.48
(2,645)	1:90:A:LYS:HD3	1:90:A:LYS:HG2	7	0.48
(2,645)	1:90:A:LYS:HD3	1:90:A:LYS:HG2	10	0.48
(2,602)	1:44:A:VAL:HB	1:157:A:LEU:HD22	4	0.48
(2,547)	1:154:A:MET:HE3	1:81:A:MET:HG2	10	0.48
(2,546)	1:154:A:MET:HE1	1:22:A:ALA:HB3	8	0.48
(2,481)	1:153:A:MET:HE3	1:23:A:ALA:HB1	4	0.48
(2,313)	1:77:A:PHE:HB2	1:72:A:VAL:HG13	8	0.48
(2,301)	1:61:A:ILE:HA	1:64:A:VAL:HG22	1	0.48
(2,212)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	6	0.48
(2,212)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	9	0.48
(2,202)	1:149:A:SER:HB3	1:152:A:ALA:HB2	7	0.48
(2,145)	1:40:A:GLU:HA	1:31:A:ALA:HB3	8	0.48
(2,138)	1:8:A:ALA:HA	1:82:A:VAL:HG22	2	0.48
(2,45)	1:65:A:ASP:HA	1:61:A:ILE:HG22	3	0.48
(2,45)	1:65:A:ASP:HA	1:61:A:ILE:HG21	6	0.48
(2,1430)	1:157:A:LEU:HD23	1:27:A:PHE:HA	8	0.47
(2,1396)	1:28:A:VAL:HG11	1:43:A:LYS:HD2	1	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1394)	1:35:A:SER:HB2	1:28:A:VAL:HG13	8	0.47
(2,1331)	1:79:A:VAL:HG23	1:2:A:ASP:HB2	10	0.47
(2,1327)	1:158:A:LEU:HA	1:158:A:LEU:HD13	6	0.47
(2,1261)	1:26:A:ILE:HB	1:23:A:ALA:HB3	5	0.47
(2,1244)	1:15:A:GLU:HG3	1:18:A:ASN:HB3	7	0.47
(2,1234)	1:10:A:GLU:HG2	1:9:A:VAL:HG13	3	0.47
(2,1233)	1:74:A:PHE:HB3	1:24:A:PHE:HD1	2	0.47
(2,1228)	1:153:A:MET:HG3	1:48:A:LEU:HG	2	0.47
(2,1194)	1:42:A:GLY:HA2	1:45:A:MET:HE1	6	0.47
(2,1191)	1:52:A:PRO:HD3	1:57:A:LEU:HD12	7	0.47
(2,1191)	1:52:A:PRO:HD3	1:57:A:LEU:HD11	10	0.47
(2,1177)	1:153:A:MET:HA	1:156:A:ALA:HB1	5	0.47
(2,1160)	1:38:A:THR:HB	1:41:A:LEU:HB3	7	0.47
(2,1091)	1:40:A:GLU:HA	1:36:A:ILE:HG22	5	0.47
(2,1091)	1:40:A:GLU:HA	1:36:A:ILE:HG22	9	0.47
(2,1033)	1:42:A:GLY:HA3	1:57:A:LEU:HD22	3	0.47
(2,1033)	1:42:A:GLY:HA3	1:57:A:LEU:HD21	6	0.47
(2,1014)	1:78:A:LEU:HD12	1:17:A:LYS:HD3	7	0.47
(2,989)	1:52:A:PRO:HA	1:45:A:MET:HE3	5	0.47
(2,986)	1:157:A:LEU:HD22	1:23:A:ALA:HB2	7	0.47
(2,982)	1:153:A:MET:HE2	1:44:A:VAL:HG21	9	0.47
(2,914)	1:78:A:LEU:HD12	1:17:A:LYS:HG3	1	0.47
(2,903)	1:4:A:ILE:HG22	1:6:A:LYS:HB2	10	0.47
(2,898)	1:4:A:ILE:HG21	1:5:A:TYR:HE1	1	0.47
(2,898)	1:4:A:ILE:HG23	1:5:A:TYR:HE1	8	0.47
(2,879)	1:78:A:LEU:HD21	1:77:A:PHE:HD1	1	0.47
(2,875)	1:79:A:VAL:HG11	1:64:A:VAL:HB	10	0.47
(2,814)	1:26:A:ILE:HA	1:26:A:ILE:HD13	10	0.47
(2,793)	1:26:A:ILE:HG12	1:157:A:LEU:HD12	6	0.47
(2,790)	1:153:A:MET:HG3	1:148:A:ILE:HG21	9	0.47
(2,780)	1:64:A:VAL:HG22	1:80:A:MET:HB3	3	0.47
(2,749)	1:78:A:LEU:HB2	1:78:A:LEU:HD11	1	0.47
(2,710)	1:58:A:GLN:HG2	1:38:A:THR:HG22	9	0.47
(2,703)	1:13:A:THR:HG22	1:16:A:GLN:HG3	7	0.47
(2,618)	1:45:A:MET:HE3	1:148:A:ILE:HA	1	0.47
(2,602)	1:44:A:VAL:HB	1:157:A:LEU:HD23	1	0.47
(2,510)	1:1:A:MET:HE1	1:5:A:TYR:HB2	1	0.47
(2,510)	1:1:A:MET:HE2	1:5:A:TYR:HB2	3	0.47
(2,442)	1:15:A:GLU:HG3	1:18:A:ASN:HB2	4	0.47
(2,392)	1:3:A:ASP:HB2	1:6:A:LYS:HB2	2	0.47
(2,392)	1:3:A:ASP:HB2	1:6:A:LYS:HB2	7	0.47
(2,392)	1:3:A:ASP:HB2	1:6:A:LYS:HB2	10	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,275)	1:44:A:VAL:HA	1:157:A:LEU:HD23	3	0.47
(2,212)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	2	0.47
(2,212)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	4	0.47
(2,212)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	8	0.47
(2,202)	1:149:A:SER:HB3	1:152:A:ALA:HB2	3	0.47
(2,177)	1:57:A:LEU:HA	1:60:A:MET:HE3	10	0.47
(2,145)	1:40:A:GLU:HA	1:31:A:ALA:HB3	7	0.47
(2,116)	1:41:A:LEU:HA	1:44:A:VAL:HG12	5	0.47
(2,1335)	1:64:A:VAL:HG22	1:76:A:GLU:HA	2	0.46
(2,1332)	1:9:A:VAL:HG22	1:75:A:ASP:HB3	2	0.46
(2,1234)	1:63:A:GLU:HG2	1:64:A:VAL:HG21	6	0.46
(2,1234)	1:10:A:GLU:HG2	1:9:A:VAL:HG13	7	0.46
(2,1186)	1:16:A:GLN:HA	1:15:A:GLU:HB3	6	0.46
(2,1160)	1:38:A:THR:HB	1:41:A:LEU:HB3	3	0.46
(2,1069)	1:16:A:GLN:HA	1:12:A:LEU:HD22	6	0.46
(2,1033)	1:42:A:GLY:HA3	1:57:A:LEU:HD21	9	0.46
(2,1014)	1:78:A:LEU:HD12	1:17:A:LYS:HD3	1	0.46
(2,1014)	1:78:A:LEU:HD11	1:17:A:LYS:HD3	5	0.46
(2,1014)	1:78:A:LEU:HD11	1:17:A:LYS:HD3	6	0.46
(2,1008)	1:78:A:LEU:HD12	1:12:A:LEU:HB3	7	0.46
(2,1007)	1:78:A:LEU:HD12	1:77:A:PHE:HD1	4	0.46
(2,1007)	1:78:A:LEU:HD12	1:77:A:PHE:HD1	6	0.46
(2,1005)	1:8:A:ALA:HB3	1:79:A:VAL:HA	6	0.46
(2,995)	1:8:A:ALA:HA	1:4:A:ILE:HD13	6	0.46
(2,982)	1:153:A:MET:HE2	1:44:A:VAL:HG23	1	0.46
(2,982)	1:153:A:MET:HE2	1:44:A:VAL:HG23	4	0.46
(2,982)	1:153:A:MET:HE2	1:44:A:VAL:HG23	5	0.46
(2,982)	1:153:A:MET:HE2	1:44:A:VAL:HG21	6	0.46
(2,968)	1:8:A:ALA:HA	1:85:A:MET:HE3	1	0.46
(2,944)	1:72:A:VAL:HB	1:36:A:ILE:HD12	9	0.46
(2,942)	1:36:A:ILE:HD12	1:77:A:PHE:HD1	1	0.46
(2,906)	1:78:A:LEU:HD12	1:20:A:PHE:HD1	9	0.46
(2,903)	1:4:A:ILE:HG22	1:6:A:LYS:HB2	7	0.46
(2,891)	1:35:A:SER:HA	1:28:A:VAL:HG22	2	0.46
(2,865)	1:61:A:ILE:HA	1:61:A:ILE:HD13	5	0.46
(2,773)	1:26:A:ILE:HG12	1:29:A:LEU:HD13	1	0.46
(2,749)	1:78:A:LEU:HB2	1:78:A:LEU:HD11	2	0.46
(2,643)	1:139:A:LYS:HE2	1:140:A:ARG:HG2	6	0.46
(2,485)	1:153:A:MET:HE2	1:157:A:LEU:HD21	8	0.46
(2,481)	1:153:A:MET:HE3	1:23:A:ALA:HB2	7	0.46
(2,275)	1:44:A:VAL:HA	1:157:A:LEU:HD22	5	0.46
(2,272)	1:44:A:VAL:HA	1:47:A:MET:HB3	8	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,212)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	5	0.46
(2,212)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	7	0.46
(2,138)	1:8:A:ALA:HA	1:82:A:VAL:HG23	5	0.46
(2,45)	1:65:A:ASP:HA	1:61:A:ILE:HG23	4	0.46
(2,1372)	1:79:A:VAL:HG11	1:83:A:ARG:HB2	10	0.45
(2,1370)	1:79:A:VAL:HG13	1:76:A:GLU:HA	8	0.45
(2,1332)	1:9:A:VAL:HG23	1:75:A:ASP:HB3	6	0.45
(2,1325)	1:82:A:VAL:HG21	1:4:A:ILE:HD12	4	0.45
(2,1272)	1:52:A:PRO:HB3	1:57:A:LEU:HD12	6	0.45
(2,1228)	1:153:A:MET:HG3	1:48:A:LEU:HG	3	0.45
(2,1222)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	8	0.45
(2,1177)	1:153:A:MET:HA	1:156:A:ALA:HB2	6	0.45
(2,1176)	1:84:A:SER:HB3	1:147:A:ARG:HB2	4	0.45
(2,1161)	1:38:A:THR:HB	1:61:A:ILE:HD12	7	0.45
(2,1160)	1:38:A:THR:HB	1:41:A:LEU:HB3	9	0.45
(2,1159)	1:69:A:SER:HB2	1:71:A:THR:HB	5	0.45
(2,1129)	1:36:A:ILE:HD13	1:77:A:PHE:HE1	5	0.45
(2,1120)	1:77:A:PHE:HA	1:81:A:MET:HE1	10	0.45
(2,1034)	1:57:A:LEU:HD21	1:52:A:PRO:HD2	1	0.45
(2,995)	1:8:A:ALA:HA	1:4:A:ILE:HD11	7	0.45
(2,906)	1:78:A:LEU:HD13	1:20:A:PHE:HD1	2	0.45
(2,876)	1:78:A:LEU:HD23	1:77:A:PHE:HE1	3	0.45
(2,875)	1:79:A:VAL:HG11	1:64:A:VAL:HB	3	0.45
(2,850)	1:4:A:ILE:HD13	1:5:A:TYR:HD1	10	0.45
(2,848)	1:38:A:THR:HG23	1:61:A:ILE:HG22	1	0.45
(2,848)	1:38:A:THR:HG22	1:61:A:ILE:HG22	6	0.45
(2,848)	1:38:A:THR:HG22	1:61:A:ILE:HG23	10	0.45
(2,800)	1:29:A:LEU:HD23	1:26:A:ILE:HA	5	0.45
(2,793)	1:26:A:ILE:HG12	1:157:A:LEU:HD11	7	0.45
(2,710)	1:58:A:GLN:HG2	1:38:A:THR:HG21	6	0.45
(2,703)	1:13:A:THR:HG23	1:16:A:GLN:HG3	8	0.45
(2,696)	1:6:A:LYS:HB3	1:7:A:ALA:HB3	9	0.45
(2,661)	1:29:A:LEU:HB2	1:29:A:LEU:HD23	3	0.45
(2,602)	1:44:A:VAL:HB	1:157:A:LEU:HD22	7	0.45
(2,602)	1:44:A:VAL:HB	1:157:A:LEU:HD22	10	0.45
(2,548)	1:154:A:MET:HE2	1:158:A:LEU:HD23	1	0.45
(2,501)	1:85:A:MET:HG3	1:85:A:MET:HE2	5	0.45
(2,467)	1:63:A:GLU:HB2	1:64:A:VAL:HG12	7	0.45
(2,212)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	3	0.45
(2,143)	1:40:A:GLU:HA	1:43:A:LYS:HB3	5	0.45
(2,99)	1:163:A:LYS:HA	1:164:A:GLY:HA3	1	0.45
(2,1391)	1:4:A:ILE:HD13	1:6:A:LYS:HB3	1	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1383)	1:36:A:ILE:HD11	1:28:A:VAL:HG22	6	0.44
(2,1364)	1:58:A:GLN:HA	1:61:A:ILE:HG23	8	0.44
(2,1353)	1:26:A:ILE:HG13	1:26:A:ILE:HG23	4	0.44
(2,1343)	1:146:A:VAL:HG22	1:145:A:ARG:HA	6	0.44
(2,1327)	1:158:A:LEU:HA	1:158:A:LEU:HD13	9	0.44
(2,1272)	1:52:A:PRO:HB3	1:57:A:LEU:HD12	4	0.44
(2,1255)	1:85:A:MET:HE3	1:81:A:MET:HA	4	0.44
(2,1150)	1:31:A:ALA:HA	1:32:A:GLU:HA	1	0.44
(2,1150)	1:31:A:ALA:HA	1:32:A:GLU:HA	9	0.44
(2,1150)	1:31:A:ALA:HA	1:32:A:GLU:HA	10	0.44
(2,1095)	1:36:A:ILE:HG22	1:40:A:GLU:HG3	2	0.44
(2,1095)	1:36:A:ILE:HG21	1:40:A:GLU:HG3	10	0.44
(2,1033)	1:42:A:GLY:HA3	1:57:A:LEU:HD21	5	0.44
(2,1023)	1:71:A:THR:HG23	1:35:A:SER:HA	7	0.44
(2,1023)	1:71:A:THR:HG22	1:35:A:SER:HA	8	0.44
(2,991)	1:60:A:MET:HG2	1:45:A:MET:HE3	2	0.44
(2,989)	1:52:A:PRO:HA	1:45:A:MET:HE2	1	0.44
(2,914)	1:78:A:LEU:HD11	1:17:A:LYS:HG3	4	0.44
(2,914)	1:78:A:LEU:HD11	1:17:A:LYS:HG3	9	0.44
(2,911)	1:78:A:LEU:HD12	1:17:A:LYS:HE2	7	0.44
(2,906)	1:78:A:LEU:HD11	1:20:A:PHE:HD1	8	0.44
(2,896)	1:31:A:ALA:HB1	1:28:A:VAL:HG21	9	0.44
(2,879)	1:78:A:LEU:HD23	1:77:A:PHE:HD1	8	0.44
(2,841)	1:79:A:VAL:HA	1:64:A:VAL:HG13	3	0.44
(2,793)	1:26:A:ILE:HG12	1:157:A:LEU:HD12	9	0.44
(2,714)	1:38:A:THR:HG22	1:61:A:ILE:HG12	4	0.44
(2,673)	1:8:A:ALA:HB1	1:82:A:VAL:HG11	8	0.44
(2,661)	1:29:A:LEU:HB2	1:29:A:LEU:HD21	9	0.44
(2,645)	1:90:A:LYS:HD3	1:90:A:LYS:HG2	6	0.44
(2,502)	1:85:A:MET:HG2	1:85:A:MET:HE2	9	0.44
(2,481)	1:153:A:MET:HE3	1:23:A:ALA:HB1	3	0.44
(2,477)	1:153:A:MET:HE2	1:154:A:MET:HA	4	0.44
(2,446)	1:15:A:GLU:HG2	1:13:A:THR:HG23	10	0.44
(2,391)	1:151:A:ASP:HB2	1:152:A:ALA:HA	1	0.44
(2,212)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	1	0.44
(2,143)	1:40:A:GLU:HA	1:43:A:LYS:HB3	1	0.44
(2,135)	1:149:A:SER:HB2	1:152:A:ALA:HB1	4	0.44
(2,86)	1:90:A:LYS:HA	1:90:A:LYS:HG3	5	0.44
(2,1430)	1:157:A:LEU:HD22	1:27:A:PHE:HA	7	0.43
(2,1407)	1:156:A:ALA:HA	1:157:A:LEU:HD21	5	0.43
(2,1400)	1:47:A:MET:HE3	1:27:A:PHE:HA	10	0.43
(2,1391)	1:4:A:ILE:HD12	1:6:A:LYS:HB3	4	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1379)	1:48:A:LEU:HD13	1:44:A:VAL:HG12	3	0.43
(2,1361)	1:41:A:LEU:HD22	1:61:A:ILE:HG13	1	0.43
(2,1353)	1:26:A:ILE:HG13	1:26:A:ILE:HG21	9	0.43
(2,1353)	1:26:A:ILE:HG13	1:26:A:ILE:HG23	10	0.43
(2,1335)	1:64:A:VAL:HG22	1:76:A:GLU:HA	7	0.43
(2,1331)	1:79:A:VAL:HG23	1:2:A:ASP:HB2	9	0.43
(2,1327)	1:158:A:LEU:HA	1:158:A:LEU:HD12	5	0.43
(2,1312)	1:38:A:THR:HG22	1:70:A:GLY:HA2	7	0.43
(2,1301)	1:151:A:ASP:HB2	1:152:A:ALA:HB3	1	0.43
(2,1301)	1:151:A:ASP:HB3	1:152:A:ALA:HB3	7	0.43
(2,1250)	1:153:A:MET:HE1	1:148:A:ILE:HD12	4	0.43
(2,1250)	1:153:A:MET:HE1	1:148:A:ILE:HD13	8	0.43
(2,1233)	1:74:A:PHE:HB3	1:24:A:PHE:HD1	10	0.43
(2,1231)	1:153:A:MET:HG2	1:157:A:LEU:HD11	2	0.43
(2,1176)	1:84:A:SER:HB2	1:148:A:ILE:HB	5	0.43
(2,1150)	1:31:A:ALA:HA	1:32:A:GLU:HA	2	0.43
(2,1150)	1:31:A:ALA:HA	1:32:A:GLU:HA	3	0.43
(2,1088)	1:29:A:LEU:HD12	1:29:A:LEU:HB3	5	0.43
(2,1023)	1:71:A:THR:HG22	1:35:A:SER:HA	5	0.43
(2,1007)	1:78:A:LEU:HD12	1:77:A:PHE:HD1	10	0.43
(2,995)	1:8:A:ALA:HA	1:4:A:ILE:HD11	4	0.43
(2,989)	1:52:A:PRO:HA	1:45:A:MET:HE3	8	0.43
(2,974)	1:79:A:VAL:HG21	1:1:A:MET:HA	6	0.43
(2,972)	1:1:A:MET:HG3	1:79:A:VAL:HG21	9	0.43
(2,948)	1:61:A:ILE:HA	1:36:A:ILE:HG21	8	0.43
(2,929)	1:36:A:ILE:HD11	1:27:A:PHE:HD1	6	0.43
(2,911)	1:78:A:LEU:HD12	1:17:A:LYS:HE2	2	0.43
(2,891)	1:35:A:SER:HA	1:28:A:VAL:HG22	5	0.43
(2,875)	1:79:A:VAL:HG13	1:64:A:VAL:HB	7	0.43
(2,849)	1:61:A:ILE:HG13	1:61:A:ILE:HG22	6	0.43
(2,835)	1:153:A:MET:HE1	1:148:A:ILE:HD12	4	0.43
(2,835)	1:153:A:MET:HE1	1:148:A:ILE:HD13	8	0.43
(2,793)	1:26:A:ILE:HG12	1:157:A:LEU:HD11	1	0.43
(2,788)	1:148:A:ILE:HA	1:148:A:ILE:HG23	1	0.43
(2,784)	1:9:A:VAL:HG12	1:78:A:LEU:HD12	2	0.43
(2,677)	1:40:A:GLU:HG2	1:31:A:ALA:HB1	1	0.43
(2,653)	1:137:A:LYS:HB3	1:139:A:LYS:HG2	10	0.43
(2,643)	1:139:A:LYS:HE2	1:140:A:ARG:HG2	2	0.43
(2,618)	1:45:A:MET:HE1	1:148:A:ILE:HA	2	0.43
(2,502)	1:85:A:MET:HG2	1:85:A:MET:HE3	8	0.43
(2,501)	1:85:A:MET:HG3	1:85:A:MET:HE2	4	0.43
(2,482)	1:19:A:GLU:HG2	1:22:A:ALA:HB3	8	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,442)	1:15:A:GLU:HG3	1:18:A:ASN:HB2	2	0.43
(2,304)	1:20:A:PHE:HB2	1:74:A:PHE:HE1	3	0.43
(2,138)	1:8:A:ALA:HA	1:82:A:VAL:HG23	7	0.43
(2,114)	1:157:A:LEU:HA	1:157:A:LEU:HD12	6	0.43
(2,114)	1:157:A:LEU:HA	1:157:A:LEU:HD13	10	0.43
(2,112)	1:41:A:LEU:HA	1:41:A:LEU:HD22	3	0.43
(2,112)	1:41:A:LEU:HA	1:41:A:LEU:HD21	6	0.43
(2,1407)	1:156:A:ALA:HA	1:157:A:LEU:HD23	6	0.42
(2,1366)	1:45:A:MET:HE2	1:57:A:LEU:HD22	6	0.42
(2,1364)	1:58:A:GLN:HA	1:61:A:ILE:HG23	3	0.42
(2,1325)	1:82:A:VAL:HG23	1:4:A:ILE:HD13	1	0.42
(2,1310)	1:57:A:LEU:HA	1:38:A:THR:HG23	7	0.42
(2,1307)	1:7:A:ALA:HB3	1:11:A:GLN:HB2	4	0.42
(2,1301)	1:151:A:ASP:HB3	1:152:A:ALA:HB1	4	0.42
(2,1301)	1:151:A:ASP:HB3	1:152:A:ALA:HB1	6	0.42
(2,1249)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	3	0.42
(2,1242)	1:19:A:GLU:HB2	1:158:A:LEU:HD12	8	0.42
(2,1210)	1:6:A:LYS:HE3	1:79:A:VAL:HB	2	0.42
(2,1191)	1:52:A:PRO:HD3	1:57:A:LEU:HD13	1	0.42
(2,1177)	1:153:A:MET:HA	1:156:A:ALA:HB1	4	0.42
(2,1176)	1:84:A:SER:HB3	1:147:A:ARG:HB2	6	0.42
(2,1159)	1:69:A:SER:HB2	1:71:A:THR:HB	3	0.42
(2,1159)	1:69:A:SER:HB2	1:71:A:THR:HB	7	0.42
(2,1150)	1:31:A:ALA:HA	1:32:A:GLU:HA	4	0.42
(2,1150)	1:31:A:ALA:HA	1:32:A:GLU:HA	7	0.42
(2,1150)	1:31:A:ALA:HA	1:32:A:GLU:HA	8	0.42
(2,1129)	1:36:A:ILE:HD11	1:77:A:PHE:HE1	4	0.42
(2,1129)	1:36:A:ILE:HD11	1:77:A:PHE:HE1	8	0.42
(2,1120)	1:77:A:PHE:HA	1:81:A:MET:HE1	9	0.42
(2,1023)	1:71:A:THR:HG21	1:35:A:SER:HA	3	0.42
(2,1008)	1:78:A:LEU:HD11	1:12:A:LEU:HB3	5	0.42
(2,1007)	1:78:A:LEU:HD13	1:77:A:PHE:HD1	7	0.42
(2,994)	1:4:A:ILE:HA	1:7:A:ALA:HB3	1	0.42
(2,989)	1:52:A:PRO:HA	1:45:A:MET:HE3	4	0.42
(2,989)	1:52:A:PRO:HA	1:45:A:MET:HE1	9	0.42
(2,985)	1:20:A:PHE:HA	1:22:A:ALA:HB2	4	0.42
(2,983)	1:154:A:MET:HE3	1:20:A:PHE:HB3	10	0.42
(2,947)	1:38:A:THR:HG23	1:61:A:ILE:HA	8	0.42
(2,944)	1:72:A:VAL:HB	1:36:A:ILE:HD11	7	0.42
(2,848)	1:38:A:THR:HG23	1:61:A:ILE:HG21	2	0.42
(2,841)	1:79:A:VAL:HA	1:64:A:VAL:HG13	5	0.42
(2,793)	1:26:A:ILE:HG12	1:157:A:LEU:HD11	4	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,789)	1:146:A:VAL:HG21	1:147:A:ARG:HD2	4	0.42
(2,788)	1:148:A:ILE:HA	1:148:A:ILE:HG22	9	0.42
(2,773)	1:26:A:ILE:HG12	1:29:A:LEU:HD13	9	0.42
(2,485)	1:153:A:MET:HE2	1:157:A:LEU:HD22	10	0.42
(2,484)	1:153:A:MET:HE3	1:157:A:LEU:HD11	2	0.42
(2,467)	1:63:A:GLU:HB2	1:64:A:VAL:HG11	10	0.42
(2,449)	1:15:A:GLU:HG2	1:16:A:GLN:HA	1	0.42
(2,397)	1:85:A:MET:HA	1:85:A:MET:HG2	5	0.42
(2,304)	1:20:A:PHE:HB3	1:74:A:PHE:HE1	8	0.42
(2,272)	1:44:A:VAL:HA	1:47:A:MET:HB3	9	0.42
(2,166)	1:55:A:GLU:HA	1:55:A:GLU:HB3	7	0.42
(2,86)	1:90:A:LYS:HA	1:90:A:LYS:HG2	3	0.42
(2,1421)	1:15:A:GLU:HB2	1:18:A:ASN:HB3	2	0.41
(2,1421)	1:19:A:GLU:HB3	1:18:A:ASN:HB3	7	0.41
(2,1387)	1:71:A:THR:HB	1:61:A:ILE:HD13	7	0.41
(2,1367)	1:38:A:THR:HB	1:61:A:ILE:HD12	5	0.41
(2,1346)	1:54:A:PRO:HA	1:57:A:LEU:HD11	3	0.41
(2,1343)	1:148:A:ILE:HA	1:146:A:VAL:HG22	5	0.41
(2,1327)	1:158:A:LEU:HA	1:158:A:LEU:HD12	4	0.41
(2,1301)	1:151:A:ASP:HB3	1:152:A:ALA:HB2	5	0.41
(2,1255)	1:85:A:MET:HE1	1:81:A:MET:HA	1	0.41
(2,1249)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	2	0.41
(2,1209)	1:39:A:LYS:HE2	1:38:A:THR:HB	6	0.41
(2,1197)	1:24:A:PHE:HA	1:77:A:PHE:HE1	2	0.41
(2,1191)	1:52:A:PRO:HD3	1:57:A:LEU:HD13	5	0.41
(2,1184)	1:82:A:VAL:HA	1:8:A:ALA:HB2	6	0.41
(2,1177)	1:153:A:MET:HA	1:156:A:ALA:HB1	7	0.41
(2,1159)	1:69:A:SER:HB2	1:71:A:THR:HB	10	0.41
(2,1150)	1:31:A:ALA:HA	1:32:A:GLU:HA	5	0.41
(2,1150)	1:31:A:ALA:HA	1:32:A:GLU:HA	6	0.41
(2,1120)	1:77:A:PHE:HA	1:81:A:MET:HE2	1	0.41
(2,1120)	1:77:A:PHE:HA	1:81:A:MET:HE3	2	0.41
(2,1091)	1:40:A:GLU:HA	1:36:A:ILE:HG22	2	0.41
(2,985)	1:20:A:PHE:HA	1:22:A:ALA:HB1	2	0.41
(2,985)	1:20:A:PHE:HA	1:22:A:ALA:HB2	3	0.41
(2,984)	1:153:A:MET:HE1	1:148:A:ILE:HG12	5	0.41
(2,914)	1:78:A:LEU:HD12	1:17:A:LYS:HG3	2	0.41
(2,914)	1:78:A:LEU:HD11	1:17:A:LYS:HG3	6	0.41
(2,906)	1:78:A:LEU:HD12	1:20:A:PHE:HD1	4	0.41
(2,896)	1:31:A:ALA:HB2	1:28:A:VAL:HG22	7	0.41
(2,891)	1:35:A:SER:HA	1:28:A:VAL:HG22	1	0.41
(2,850)	1:4:A:ILE:HD12	1:5:A:TYR:HD1	4	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,807)	1:45:A:MET:HG3	1:57:A:LEU:HD12	9	0.41
(2,804)	1:23:A:ALA:HA	1:26:A:ILE:HG22	5	0.41
(2,800)	1:29:A:LEU:HD22	1:26:A:ILE:HA	1	0.41
(2,773)	1:26:A:ILE:HG12	1:29:A:LEU:HD11	8	0.41
(2,771)	1:82:A:VAL:HG22	1:82:A:VAL:HG11	1	0.41
(2,771)	1:82:A:VAL:HG23	1:82:A:VAL:HG11	4	0.41
(2,716)	1:72:A:VAL:HA	1:72:A:VAL:HG13	2	0.41
(2,673)	1:8:A:ALA:HB2	1:82:A:VAL:HG11	4	0.41
(2,645)	1:90:A:LYS:HD2	1:90:A:LYS:HG3	9	0.41
(2,602)	1:44:A:VAL:HB	1:157:A:LEU:HD23	3	0.41
(2,602)	1:44:A:VAL:HB	1:157:A:LEU:HD22	5	0.41
(2,518)	1:140:A:ARG:HA	1:141:A:PRO:HG3	5	0.41
(2,501)	1:85:A:MET:HG3	1:85:A:MET:HE3	1	0.41
(2,339)	1:43:A:LYS:HE2	1:43:A:LYS:HB2	10	0.41
(2,304)	1:20:A:PHE:HB3	1:74:A:PHE:HE1	1	0.41
(2,296)	1:70:A:GLY:HA2	1:71:A:THR:HG23	6	0.41
(2,296)	1:70:A:GLY:HA2	1:71:A:THR:HG23	9	0.41
(2,280)	1:9:A:VAL:HA	1:8:A:ALA:HB2	1	0.41
(2,280)	1:9:A:VAL:HA	1:8:A:ALA:HB3	9	0.41
(2,114)	1:157:A:LEU:HA	1:157:A:LEU:HD11	1	0.41
(2,114)	1:157:A:LEU:HA	1:157:A:LEU:HD11	4	0.41
(2,69)	1:13:A:THR:HA	1:14:A:GLU:HB2	2	0.41
(2,1436)	1:61:A:ILE:HD12	1:37:A:SER:HB3	6	0.4
(2,1408)	1:57:A:LEU:HD22	1:60:A:MET:HE1	1	0.4
(2,1407)	1:156:A:ALA:HA	1:157:A:LEU:HD22	1	0.4
(2,1394)	1:35:A:SER:HB2	1:28:A:VAL:HG13	10	0.4
(2,1370)	1:79:A:VAL:HG13	1:76:A:GLU:HA	9	0.4
(2,1368)	1:157:A:LEU:HD21	1:153:A:MET:HA	8	0.4
(2,1355)	1:26:A:ILE:HG21	1:27:A:PHE:HE1	2	0.4
(2,1332)	1:9:A:VAL:HG22	1:75:A:ASP:HB3	8	0.4
(2,1255)	1:85:A:MET:HE3	1:81:A:MET:HA	3	0.4
(2,1249)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	6	0.4
(2,1249)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	8	0.4
(2,1249)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	10	0.4
(2,1238)	1:58:A:GLN:HG3	1:58:A:GLN:HB2	2	0.4
(2,1186)	1:16:A:GLN:HA	1:15:A:GLU:HB3	1	0.4
(2,1186)	1:16:A:GLN:HA	1:19:A:GLU:HB3	7	0.4
(2,1184)	1:82:A:VAL:HA	1:8:A:ALA:HB1	8	0.4
(2,1060)	1:10:A:GLU:HA	1:9:A:VAL:HG13	5	0.4
(2,1033)	1:42:A:GLY:HA3	1:57:A:LEU:HD21	2	0.4
(2,1014)	1:78:A:LEU:HD13	1:17:A:LYS:HD3	8	0.4
(2,1005)	1:8:A:ALA:HB1	1:79:A:VAL:HA	10	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,947)	1:38:A:THR:HG23	1:61:A:ILE:HA	7	0.4
(2,944)	1:72:A:VAL:HB	1:36:A:ILE:HD12	4	0.4
(2,942)	1:36:A:ILE:HD13	1:77:A:PHE:HD1	9	0.4
(2,903)	1:4:A:ILE:HG21	1:6:A:LYS:HB2	2	0.4
(2,896)	1:31:A:ALA:HB1	1:28:A:VAL:HG23	6	0.4
(2,824)	1:158:A:LEU:HD12	1:158:A:LEU:HD22	5	0.4
(2,814)	1:26:A:ILE:HA	1:26:A:ILE:HD13	3	0.4
(2,793)	1:26:A:ILE:HG12	1:157:A:LEU:HD13	10	0.4
(2,788)	1:148:A:ILE:HA	1:148:A:ILE:HG23	7	0.4
(2,780)	1:64:A:VAL:HG21	1:80:A:MET:HB3	2	0.4
(2,780)	1:64:A:VAL:HG22	1:80:A:MET:HB3	7	0.4
(2,771)	1:82:A:VAL:HG21	1:82:A:VAL:HG12	2	0.4
(2,716)	1:72:A:VAL:HA	1:72:A:VAL:HG11	7	0.4
(2,696)	1:6:A:LYS:HB3	1:7:A:ALA:HB2	4	0.4
(2,696)	1:6:A:LYS:HB3	1:7:A:ALA:HB2	6	0.4
(2,653)	1:137:A:LYS:HB3	1:139:A:LYS:HG2	6	0.4
(2,645)	1:90:A:LYS:HD2	1:90:A:LYS:HG3	2	0.4
(2,604)	1:161:A:ARG:HB3	1:161:A:ARG:HD3	8	0.4
(2,547)	1:154:A:MET:HE3	1:81:A:MET:HG2	7	0.4
(2,501)	1:85:A:MET:HG3	1:85:A:MET:HE2	3	0.4
(2,401)	1:33:A:ASP:HB3	1:32:A:GLU:HB2	7	0.4
(2,301)	1:61:A:ILE:HA	1:64:A:VAL:HG23	8	0.4
(2,240)	1:141:A:PRO:HD3	1:140:A:ARG:HG2	7	0.4
(2,145)	1:40:A:GLU:HA	1:31:A:ALA:HB3	1	0.4
(2,143)	1:40:A:GLU:HA	1:43:A:LYS:HB3	3	0.4
(2,140)	1:54:A:PRO:HA	1:57:A:LEU:HD23	1	0.4
(2,138)	1:8:A:ALA:HA	1:82:A:VAL:HG23	6	0.4
(2,116)	1:41:A:LEU:HA	1:44:A:VAL:HG11	1	0.4
(2,114)	1:157:A:LEU:HA	1:157:A:LEU:HD12	9	0.4
(2,69)	1:13:A:THR:HA	1:14:A:GLU:HB2	4	0.4
(2,1408)	1:57:A:LEU:HD22	1:60:A:MET:HE2	9	0.39
(2,1396)	1:28:A:VAL:HG11	1:43:A:LYS:HD2	3	0.39
(2,1383)	1:36:A:ILE:HD12	1:28:A:VAL:HG21	1	0.39
(2,1379)	1:48:A:LEU:HD11	1:44:A:VAL:HG11	1	0.39
(2,1377)	1:44:A:VAL:HG13	1:47:A:MET:HG3	1	0.39
(2,1375)	1:78:A:LEU:HD13	1:77:A:PHE:HE1	2	0.39
(2,1368)	1:157:A:LEU:HD22	1:153:A:MET:HA	2	0.39
(2,1368)	1:157:A:LEU:HD23	1:153:A:MET:HA	5	0.39
(2,1361)	1:41:A:LEU:HD21	1:61:A:ILE:HG13	9	0.39
(2,1327)	1:158:A:LEU:HD11	1:154:A:MET:HA	8	0.39
(2,1309)	1:13:A:THR:HG23	1:16:A:GLN:HB3	5	0.39
(2,1301)	1:151:A:ASP:HB2	1:152:A:ALA:HB1	9	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1249)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	1	0.39
(2,1228)	1:153:A:MET:HG3	1:48:A:LEU:HG	10	0.39
(2,1198)	1:46:A:ARG:HD3	1:46:A:ARG:HB3	3	0.39
(2,1191)	1:52:A:PRO:HD3	1:57:A:LEU:HD12	6	0.39
(2,1185)	1:16:A:GLN:HA	1:16:A:GLN:HB3	1	0.39
(2,1184)	1:82:A:VAL:HA	1:8:A:ALA:HB1	7	0.39
(2,1160)	1:38:A:THR:HB	1:41:A:LEU:HB3	2	0.39
(2,1159)	1:69:A:SER:HB2	1:71:A:THR:HB	4	0.39
(2,1155)	1:151:A:ASP:HA	1:151:A:ASP:HB2	4	0.39
(2,1091)	1:40:A:GLU:HA	1:36:A:ILE:HG22	4	0.39
(2,1069)	1:16:A:GLN:HA	1:12:A:LEU:HD21	1	0.39
(2,985)	1:20:A:PHE:HA	1:22:A:ALA:HB3	5	0.39
(2,974)	1:79:A:VAL:HG21	1:1:A:MET:HA	8	0.39
(2,929)	1:36:A:ILE:HD12	1:27:A:PHE:HD1	2	0.39
(2,914)	1:78:A:LEU:HD12	1:17:A:LYS:HG3	3	0.39
(2,914)	1:78:A:LEU:HD11	1:17:A:LYS:HG3	10	0.39
(2,906)	1:78:A:LEU:HD13	1:20:A:PHE:HD1	3	0.39
(2,906)	1:78:A:LEU:HD13	1:20:A:PHE:HD1	7	0.39
(2,898)	1:4:A:ILE:HG22	1:5:A:TYR:HE1	4	0.39
(2,888)	1:78:A:LEU:HD21	1:12:A:LEU:HD11	3	0.39
(2,859)	1:57:A:LEU:HD21	1:45:A:MET:HB2	4	0.39
(2,849)	1:61:A:ILE:HG13	1:61:A:ILE:HG23	3	0.39
(2,816)	1:153:A:MET:HG3	1:48:A:LEU:HD11	8	0.39
(2,807)	1:45:A:MET:HG3	1:57:A:LEU:HD12	3	0.39
(2,749)	1:78:A:LEU:HB2	1:78:A:LEU:HD11	3	0.39
(2,749)	1:78:A:LEU:HB2	1:78:A:LEU:HD13	5	0.39
(2,749)	1:78:A:LEU:HB2	1:78:A:LEU:HD12	8	0.39
(2,716)	1:72:A:VAL:HA	1:72:A:VAL:HG12	1	0.39
(2,716)	1:72:A:VAL:HA	1:72:A:VAL:HG13	3	0.39
(2,716)	1:72:A:VAL:HA	1:72:A:VAL:HG12	6	0.39
(2,696)	1:6:A:LYS:HB3	1:7:A:ALA:HB2	8	0.39
(2,674)	1:157:A:LEU:HB2	1:157:A:LEU:HD23	8	0.39
(2,645)	1:90:A:LYS:HD3	1:90:A:LYS:HG2	5	0.39
(2,502)	1:85:A:MET:HG2	1:85:A:MET:HE1	7	0.39
(2,478)	1:153:A:MET:HE3	1:154:A:MET:HG2	10	0.39
(2,466)	1:72:A:VAL:HB	1:61:A:ILE:HG22	2	0.39
(2,272)	1:44:A:VAL:HA	1:47:A:MET:HB3	6	0.39
(2,116)	1:41:A:LEU:HA	1:44:A:VAL:HG12	3	0.39
(2,69)	1:13:A:THR:HA	1:14:A:GLU:HB2	9	0.39
(2,1387)	1:71:A:THR:HB	1:61:A:ILE:HD11	2	0.38
(2,1353)	1:26:A:ILE:HG13	1:26:A:ILE:HG21	3	0.38
(2,1343)	1:146:A:VAL:HG21	1:145:A:ARG:HA	3	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1310)	1:57:A:LEU:HA	1:38:A:THR:HG23	10	0.38
(2,1261)	1:26:A:ILE:HB	1:23:A:ALA:HB1	3	0.38
(2,1249)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	4	0.38
(2,1244)	1:15:A:GLU:HG3	1:18:A:ASN:HB3	2	0.38
(2,1233)	1:74:A:PHE:HB3	1:24:A:PHE:HD1	5	0.38
(2,1228)	1:153:A:MET:HG3	1:48:A:LEU:HG	7	0.38
(2,1185)	1:16:A:GLN:HA	1:16:A:GLN:HB3	9	0.38
(2,1176)	1:84:A:SER:HB3	1:147:A:ARG:HB2	10	0.38
(2,1149)	1:64:A:VAL:HA	1:63:A:GLU:HB3	6	0.38
(2,1095)	1:36:A:ILE:HG21	1:40:A:GLU:HG3	7	0.38
(2,1046)	1:48:A:LEU:HA	1:50:A:GLN:HG2	6	0.38
(2,1034)	1:57:A:LEU:HD22	1:52:A:PRO:HD2	8	0.38
(2,1033)	1:42:A:GLY:HA3	1:57:A:LEU:HD21	4	0.38
(2,983)	1:154:A:MET:HE3	1:20:A:PHE:HB3	2	0.38
(2,942)	1:36:A:ILE:HD11	1:77:A:PHE:HD1	8	0.38
(2,940)	1:61:A:ILE:HD13	1:37:A:SER:HB3	10	0.38
(2,898)	1:4:A:ILE:HG23	1:5:A:TYR:HE1	3	0.38
(2,875)	1:79:A:VAL:HG12	1:64:A:VAL:HB	5	0.38
(2,829)	1:153:A:MET:HG3	1:48:A:LEU:HD21	3	0.38
(2,814)	1:26:A:ILE:HA	1:26:A:ILE:HD12	9	0.38
(2,804)	1:23:A:ALA:HA	1:26:A:ILE:HG22	10	0.38
(2,771)	1:82:A:VAL:HG22	1:82:A:VAL:HG12	8	0.38
(2,749)	1:78:A:LEU:HB2	1:78:A:LEU:HD13	4	0.38
(2,749)	1:78:A:LEU:HB2	1:78:A:LEU:HD13	6	0.38
(2,749)	1:78:A:LEU:HB2	1:78:A:LEU:HD11	7	0.38
(2,749)	1:78:A:LEU:HB2	1:78:A:LEU:HD13	9	0.38
(2,749)	1:78:A:LEU:HB2	1:78:A:LEU:HD13	10	0.38
(2,716)	1:72:A:VAL:HA	1:72:A:VAL:HG12	5	0.38
(2,661)	1:29:A:LEU:HB2	1:29:A:LEU:HD21	4	0.38
(2,643)	1:139:A:LYS:HE2	1:140:A:ARG:HG3	3	0.38
(2,618)	1:45:A:MET:HE1	1:148:A:ILE:HA	8	0.38
(2,618)	1:45:A:MET:HE2	1:148:A:ILE:HA	10	0.38
(2,548)	1:154:A:MET:HE3	1:158:A:LEU:HD23	6	0.38
(2,477)	1:153:A:MET:HE2	1:154:A:MET:HA	6	0.38
(2,466)	1:72:A:VAL:HB	1:61:A:ILE:HG21	10	0.38
(2,335)	1:139:A:LYS:HE2	1:139:A:LYS:HG3	1	0.38
(2,301)	1:61:A:ILE:HA	1:64:A:VAL:HG23	4	0.38
(2,296)	1:70:A:GLY:HA2	1:71:A:THR:HG23	2	0.38
(2,214)	1:136:A:GLY:HA3	1:90:A:LYS:HE2	8	0.38
(2,138)	1:8:A:ALA:HA	1:82:A:VAL:HG21	3	0.38
(2,99)	1:163:A:LYS:HA	1:164:A:GLY:HA3	5	0.38
(2,1394)	1:35:A:SER:HB2	1:28:A:VAL:HG11	7	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1391)	1:4:A:ILE:HD13	1:6:A:LYS:HB3	8	0.37
(2,1383)	1:36:A:ILE:HD12	1:28:A:VAL:HG22	2	0.37
(2,1377)	1:44:A:VAL:HG11	1:47:A:MET:HG3	2	0.37
(2,1367)	1:38:A:THR:HB	1:61:A:ILE:HD12	9	0.37
(2,1346)	1:54:A:PRO:HA	1:57:A:LEU:HD13	9	0.37
(2,1324)	1:82:A:VAL:HG22	1:83:A:ARG:HG3	7	0.37
(2,1301)	1:151:A:ASP:HB2	1:152:A:ALA:HB3	3	0.37
(2,1258)	1:85:A:MET:HE3	1:82:A:VAL:HG21	7	0.37
(2,1249)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	9	0.37
(2,1222)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	3	0.37
(2,1023)	1:71:A:THR:HG21	1:35:A:SER:HA	6	0.37
(2,1008)	1:78:A:LEU:HD11	1:12:A:LEU:HB3	4	0.37
(2,1008)	1:78:A:LEU:HD11	1:12:A:LEU:HB3	9	0.37
(2,1007)	1:78:A:LEU:HD11	1:77:A:PHE:HD1	8	0.37
(2,994)	1:4:A:ILE:HA	1:7:A:ALA:HB1	8	0.37
(2,985)	1:20:A:PHE:HA	1:22:A:ALA:HB2	1	0.37
(2,974)	1:79:A:VAL:HG21	1:1:A:MET:HA	3	0.37
(2,911)	1:78:A:LEU:HD11	1:17:A:LYS:HE2	4	0.37
(2,898)	1:4:A:ILE:HG22	1:5:A:TYR:HE1	5	0.37
(2,898)	1:4:A:ILE:HG21	1:5:A:TYR:HE1	6	0.37
(2,865)	1:61:A:ILE:HA	1:61:A:ILE:HD13	10	0.37
(2,807)	1:45:A:MET:HG3	1:57:A:LEU:HD11	2	0.37
(2,807)	1:45:A:MET:HG3	1:57:A:LEU:HD11	10	0.37
(2,804)	1:23:A:ALA:HA	1:26:A:ILE:HG23	9	0.37
(2,788)	1:148:A:ILE:HA	1:148:A:ILE:HG21	3	0.37
(2,781)	1:9:A:VAL:HG12	1:78:A:LEU:HB3	7	0.37
(2,773)	1:26:A:ILE:HG12	1:29:A:LEU:HD12	7	0.37
(2,716)	1:72:A:VAL:HA	1:72:A:VAL:HG13	10	0.37
(2,478)	1:153:A:MET:HE3	1:154:A:MET:HG2	7	0.37
(2,434)	1:19:A:GLU:HG3	1:158:A:LEU:HD12	2	0.37
(2,434)	1:19:A:GLU:HG3	1:158:A:LEU:HD12	8	0.37
(2,112)	1:41:A:LEU:HA	1:41:A:LEU:HD23	10	0.37
(2,99)	1:163:A:LYS:HA	1:164:A:GLY:HA3	9	0.37
(2,1396)	1:28:A:VAL:HG11	1:43:A:LYS:HD2	5	0.36
(2,1387)	1:71:A:THR:HB	1:61:A:ILE:HD13	5	0.36
(2,1387)	1:71:A:THR:HB	1:61:A:ILE:HD12	6	0.36
(2,1377)	1:44:A:VAL:HG13	1:47:A:MET:HG3	10	0.36
(2,1346)	1:54:A:PRO:HA	1:57:A:LEU:HD13	2	0.36
(2,1346)	1:54:A:PRO:HA	1:57:A:LEU:HD11	4	0.36
(2,1307)	1:7:A:ALA:HB3	1:11:A:GLN:HB2	8	0.36
(2,1293)	1:152:A:ALA:HA	1:152:A:ALA:HB2	6	0.36
(2,1293)	1:8:A:ALA:HA	1:8:A:ALA:HB3	7	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1249)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	5	0.36
(2,1228)	1:153:A:MET:HG3	1:48:A:LEU:HG	4	0.36
(2,1185)	1:16:A:GLN:HA	1:16:A:GLN:HG2	7	0.36
(2,1177)	1:153:A:MET:HA	1:156:A:ALA:HB3	10	0.36
(2,1133)	1:37:A:SER:HB3	1:36:A:ILE:HG22	1	0.36
(2,1133)	1:37:A:SER:HB3	1:36:A:ILE:HG21	8	0.36
(2,1114)	1:54:A:PRO:HA	1:57:A:LEU:HB3	6	0.36
(2,1109)	1:52:A:PRO:HD3	1:42:A:GLY:HA3	7	0.36
(2,1091)	1:40:A:GLU:HA	1:36:A:ILE:HG21	6	0.36
(2,1069)	1:16:A:GLN:HA	1:12:A:LEU:HD22	8	0.36
(2,1069)	1:16:A:GLN:HA	1:12:A:LEU:HD23	9	0.36
(2,1033)	1:42:A:GLY:HA3	1:57:A:LEU:HD22	8	0.36
(2,1008)	1:78:A:LEU:HD12	1:12:A:LEU:HB3	1	0.36
(2,1007)	1:78:A:LEU:HD12	1:77:A:PHE:HD1	9	0.36
(2,938)	1:31:A:ALA:HB2	1:28:A:VAL:HG13	10	0.36
(2,911)	1:78:A:LEU:HD11	1:17:A:LYS:HE2	6	0.36
(2,894)	1:28:A:VAL:HG23	1:27:A:PHE:HB3	8	0.36
(2,875)	1:79:A:VAL:HG11	1:64:A:VAL:HB	2	0.36
(2,843)	1:64:A:VAL:HG22	1:64:A:VAL:HG13	10	0.36
(2,814)	1:26:A:ILE:HA	1:26:A:ILE:HD12	4	0.36
(2,807)	1:45:A:MET:HG3	1:57:A:LEU:HD13	1	0.36
(2,804)	1:23:A:ALA:HA	1:26:A:ILE:HG23	3	0.36
(2,790)	1:153:A:MET:HG3	1:148:A:ILE:HG23	10	0.36
(2,788)	1:148:A:ILE:HA	1:148:A:ILE:HG23	2	0.36
(2,788)	1:148:A:ILE:HA	1:148:A:ILE:HG21	4	0.36
(2,788)	1:148:A:ILE:HA	1:148:A:ILE:HG22	6	0.36
(2,788)	1:148:A:ILE:HA	1:148:A:ILE:HG22	8	0.36
(2,780)	1:64:A:VAL:HG22	1:80:A:MET:HB3	4	0.36
(2,716)	1:72:A:VAL:HA	1:72:A:VAL:HG13	4	0.36
(2,661)	1:29:A:LEU:HB2	1:29:A:LEU:HD22	6	0.36
(2,621)	1:52:A:PRO:HD2	1:45:A:MET:HE2	8	0.36
(2,280)	1:9:A:VAL:HA	1:8:A:ALA:HB1	4	0.36
(2,240)	1:141:A:PRO:HD3	1:140:A:ARG:HG3	5	0.36
(2,138)	1:8:A:ALA:HA	1:82:A:VAL:HG23	8	0.36
(2,135)	1:149:A:SER:HB2	1:152:A:ALA:HB2	3	0.36
(2,41)	1:140:A:ARG:HA	1:140:A:ARG:HD3	8	0.36
(2,1421)	1:15:A:GLU:HB3	1:18:A:ASN:HB3	6	0.35
(2,1407)	1:23:A:ALA:HA	1:157:A:LEU:HD21	9	0.35
(2,1394)	1:35:A:SER:HB2	1:28:A:VAL:HG11	9	0.35
(2,1390)	1:71:A:THR:HB	1:61:A:ILE:HG22	1	0.35
(2,1387)	1:71:A:THR:HB	1:61:A:ILE:HD12	4	0.35
(2,1377)	1:44:A:VAL:HG11	1:47:A:MET:HG3	3	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1377)	1:44:A:VAL:HG11	1:47:A:MET:HG3	5	0.35
(2,1370)	1:79:A:VAL:HG13	1:1:A:MET:HA	1	0.35
(2,1357)	1:48:A:LEU:HG	1:48:A:LEU:HD22	7	0.35
(2,1332)	1:9:A:VAL:HG21	1:75:A:ASP:HB3	3	0.35
(2,1332)	1:9:A:VAL:HG22	1:75:A:ASP:HB3	7	0.35
(2,1324)	1:82:A:VAL:HG21	1:83:A:ARG:HG3	10	0.35
(2,1293)	1:152:A:ALA:HA	1:152:A:ALA:HB1	3	0.35
(2,1287)	1:140:A:ARG:HG2	1:141:A:PRO:HD2	4	0.35
(2,1238)	1:155:A:GLN:HG3	1:155:A:GLN:HB2	1	0.35
(2,1238)	1:58:A:GLN:HG3	1:58:A:GLN:HB2	8	0.35
(2,1238)	1:155:A:GLN:HG3	1:155:A:GLN:HB2	9	0.35
(2,1185)	1:16:A:GLN:HA	1:16:A:GLN:HG2	8	0.35
(2,1180)	1:42:A:GLY:HA3	1:52:A:PRO:HG3	7	0.35
(2,1159)	1:69:A:SER:HB2	1:71:A:THR:HB	6	0.35
(2,1133)	1:37:A:SER:HB3	1:36:A:ILE:HG22	4	0.35
(2,1118)	1:65:A:ASP:HB3	1:64:A:VAL:HG23	4	0.35
(2,1095)	1:36:A:ILE:HG22	1:40:A:GLU:HG3	9	0.35
(2,1088)	1:29:A:LEU:HD13	1:29:A:LEU:HB3	2	0.35
(2,1069)	1:16:A:GLN:HA	1:12:A:LEU:HD22	2	0.35
(2,1046)	1:48:A:LEU:HA	1:50:A:GLN:HG2	9	0.35
(2,1033)	1:42:A:GLY:HA3	1:57:A:LEU:HD21	1	0.35
(2,896)	1:31:A:ALA:HB1	1:28:A:VAL:HG21	3	0.35
(2,879)	1:78:A:LEU:HD21	1:77:A:PHE:HD1	7	0.35
(2,849)	1:61:A:ILE:HG13	1:61:A:ILE:HG21	4	0.35
(2,849)	1:61:A:ILE:HG13	1:61:A:ILE:HG22	9	0.35
(2,804)	1:23:A:ALA:HA	1:26:A:ILE:HG22	4	0.35
(2,804)	1:23:A:ALA:HA	1:26:A:ILE:HG22	6	0.35
(2,782)	1:72:A:VAL:HG12	1:64:A:VAL:HG22	2	0.35
(2,782)	1:72:A:VAL:HG12	1:64:A:VAL:HG22	7	0.35
(2,755)	1:158:A:LEU:HD13	1:154:A:MET:HG2	4	0.35
(2,716)	1:72:A:VAL:HA	1:72:A:VAL:HG11	9	0.35
(2,677)	1:40:A:GLU:HG2	1:31:A:ALA:HB3	3	0.35
(2,673)	1:8:A:ALA:HB2	1:82:A:VAL:HG12	5	0.35
(2,661)	1:29:A:LEU:HB2	1:29:A:LEU:HD21	10	0.35
(2,645)	1:90:A:LYS:HD2	1:90:A:LYS:HG3	1	0.35
(2,645)	1:90:A:LYS:HD2	1:90:A:LYS:HG3	8	0.35
(2,625)	1:45:A:MET:HE2	1:50:A:GLN:HG3	5	0.35
(2,625)	1:45:A:MET:HE2	1:50:A:GLN:HG3	10	0.35
(2,605)	1:161:A:ARG:HB3	1:158:A:LEU:HD22	2	0.35
(2,602)	1:44:A:VAL:HB	1:157:A:LEU:HD21	9	0.35
(2,510)	1:1:A:MET:HE1	1:5:A:TYR:HB2	5	0.35
(2,313)	1:77:A:PHE:HB2	1:72:A:VAL:HG13	1	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,280)	1:9:A:VAL:HA	1:8:A:ALA:HB1	5	0.35
(2,182)	1:150:A:ALA:HA	1:148:A:ILE:HG21	8	0.35
(2,177)	1:57:A:LEU:HA	1:60:A:MET:HE3	7	0.35
(2,1353)	1:26:A:ILE:HG13	1:26:A:ILE:HG23	2	0.34
(2,1343)	1:146:A:VAL:HG21	1:145:A:ARG:HA	10	0.34
(2,1331)	1:79:A:VAL:HG21	1:2:A:ASP:HB2	1	0.34
(2,1211)	1:18:A:ASN:HB3	1:19:A:GLU:HB2	8	0.34
(2,1188)	1:58:A:GLN:HA	1:61:A:ILE:HD12	2	0.34
(2,1184)	1:82:A:VAL:HA	1:8:A:ALA:HB3	9	0.34
(2,1133)	1:37:A:SER:HB3	1:36:A:ILE:HG23	3	0.34
(2,1095)	1:36:A:ILE:HG22	1:40:A:GLU:HG3	5	0.34
(2,1091)	1:40:A:GLU:HA	1:36:A:ILE:HG23	8	0.34
(2,1046)	1:48:A:LEU:HA	1:50:A:GLN:HG2	7	0.34
(2,1008)	1:78:A:LEU:HD11	1:12:A:LEU:HB3	10	0.34
(2,994)	1:4:A:ILE:HA	1:7:A:ALA:HB1	6	0.34
(2,991)	1:60:A:MET:HG3	1:45:A:MET:HE2	3	0.34
(2,974)	1:79:A:VAL:HG22	1:1:A:MET:HA	7	0.34
(2,947)	1:38:A:THR:HG23	1:61:A:ILE:HA	2	0.34
(2,944)	1:72:A:VAL:HB	1:36:A:ILE:HD12	3	0.34
(2,944)	1:72:A:VAL:HB	1:36:A:ILE:HD12	5	0.34
(2,896)	1:31:A:ALA:HB3	1:28:A:VAL:HG23	5	0.34
(2,888)	1:78:A:LEU:HD22	1:12:A:LEU:HD13	7	0.34
(2,859)	1:57:A:LEU:HD22	1:45:A:MET:HB2	8	0.34
(2,800)	1:29:A:LEU:HD21	1:26:A:ILE:HA	9	0.34
(2,661)	1:29:A:LEU:HB2	1:29:A:LEU:HD21	7	0.34
(2,625)	1:45:A:MET:HE3	1:50:A:GLN:HG3	6	0.34
(2,618)	1:45:A:MET:HE2	1:148:A:ILE:HA	9	0.34
(2,599)	1:56:A:GLU:HG2	1:56:A:GLU:HB2	2	0.34
(2,599)	1:56:A:GLU:HG2	1:56:A:GLU:HB2	9	0.34
(2,466)	1:72:A:VAL:HB	1:61:A:ILE:HG23	1	0.34
(2,339)	1:43:A:LYS:HE2	1:43:A:LYS:HB2	2	0.34
(2,272)	1:44:A:VAL:HA	1:47:A:MET:HB3	10	0.34
(2,205)	1:6:A:LYS:HA	1:9:A:VAL:HG23	2	0.34
(2,157)	1:29:A:LEU:HA	1:29:A:LEU:HD11	4	0.34
(2,143)	1:40:A:GLU:HA	1:43:A:LYS:HB3	10	0.34
(2,138)	1:8:A:ALA:HA	1:82:A:VAL:HG23	9	0.34
(2,8)	1:51:A:ASN:HA	1:50:A:GLN:HB3	8	0.34
(2,1407)	1:23:A:ALA:HA	1:157:A:LEU:HD22	4	0.33
(2,1405)	1:20:A:PHE:HA	1:158:A:LEU:HD11	8	0.33
(2,1391)	1:4:A:ILE:HD11	1:6:A:LYS:HB2	7	0.33
(2,1391)	1:4:A:ILE:HD12	1:6:A:LYS:HB3	9	0.33
(2,1332)	1:9:A:VAL:HG21	1:75:A:ASP:HB3	10	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1325)	1:82:A:VAL:HG23	1:4:A:ILE:HD13	6	0.33
(2,1310)	1:57:A:LEU:HA	1:38:A:THR:HG21	9	0.33
(2,1309)	1:13:A:THR:HG21	1:16:A:GLN:HB3	3	0.33
(2,1293)	1:152:A:ALA:HA	1:152:A:ALA:HB3	2	0.33
(2,1261)	1:26:A:ILE:HB	1:23:A:ALA:HB1	4	0.33
(2,1261)	1:26:A:ILE:HB	1:23:A:ALA:HB2	10	0.33
(2,1244)	1:15:A:GLU:HG3	1:18:A:ASN:HB3	8	0.33
(2,1238)	1:155:A:GLN:HG3	1:155:A:GLN:HB2	7	0.33
(2,1091)	1:40:A:GLU:HA	1:36:A:ILE:HG21	10	0.33
(2,1084)	1:28:A:VAL:HG11	1:27:A:PHE:HA	1	0.33
(2,1033)	1:42:A:GLY:HA3	1:57:A:LEU:HD22	7	0.33
(2,1007)	1:78:A:LEU:HD12	1:77:A:PHE:HD1	5	0.33
(2,995)	1:8:A:ALA:HA	1:4:A:ILE:HD12	1	0.33
(2,989)	1:52:A:PRO:HA	1:45:A:MET:HE3	7	0.33
(2,986)	1:157:A:LEU:HD23	1:23:A:ALA:HB3	8	0.33
(2,982)	1:153:A:MET:HE2	1:44:A:VAL:HG21	7	0.33
(2,948)	1:61:A:ILE:HA	1:36:A:ILE:HG23	1	0.33
(2,940)	1:61:A:ILE:HD12	1:37:A:SER:HB3	2	0.33
(2,911)	1:78:A:LEU:HD11	1:17:A:LYS:HE2	9	0.33
(2,865)	1:61:A:ILE:HA	1:61:A:ILE:HD11	2	0.33
(2,843)	1:64:A:VAL:HG22	1:64:A:VAL:HG11	4	0.33
(2,824)	1:158:A:LEU:HD12	1:158:A:LEU:HD22	2	0.33
(2,807)	1:45:A:MET:HG3	1:57:A:LEU:HD13	4	0.33
(2,679)	1:148:A:ILE:HG13	1:148:A:ILE:HG22	5	0.33
(2,663)	1:22:A:ALA:HB2	1:158:A:LEU:HD11	4	0.33
(2,663)	1:22:A:ALA:HB1	1:158:A:LEU:HD12	9	0.33
(2,645)	1:90:A:LYS:HD3	1:90:A:LYS:HG2	3	0.33
(2,515)	1:1:A:MET:HB3	1:6:A:LYS:HB2	1	0.33
(2,494)	1:10:A:GLU:HB2	1:9:A:VAL:HG12	9	0.33
(2,481)	1:153:A:MET:HE3	1:23:A:ALA:HB2	10	0.33
(2,455)	1:16:A:GLN:HG3	1:12:A:LEU:HD22	3	0.33
(2,415)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	7	0.33
(2,360)	1:25:A:ASP:HB2	1:28:A:VAL:HG22	8	0.33
(2,339)	1:43:A:LYS:HE3	1:43:A:LYS:HB3	7	0.33
(2,339)	1:43:A:LYS:HE2	1:43:A:LYS:HB3	9	0.33
(2,296)	1:70:A:GLY:HA2	1:71:A:THR:HG21	1	0.33
(2,288)	1:80:A:MET:HA	1:80:A:MET:HG2	9	0.33
(2,288)	1:80:A:MET:HA	1:80:A:MET:HG2	10	0.33
(2,280)	1:9:A:VAL:HA	1:8:A:ALA:HB1	3	0.33
(2,257)	1:38:A:THR:HA	1:57:A:LEU:HD13	9	0.33
(2,237)	1:141:A:PRO:HD3	1:140:A:ARG:HB2	9	0.33
(2,223)	1:82:A:VAL:HA	1:85:A:MET:HG3	3	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,129)	1:54:A:PRO:HA	1:54:A:PRO:HG2	3	0.33
(2,129)	1:54:A:PRO:HA	1:54:A:PRO:HG2	10	0.33
(2,69)	1:13:A:THR:HA	1:14:A:GLU:HB2	1	0.33
(2,69)	1:13:A:THR:HA	1:14:A:GLU:HB2	8	0.33
(2,1425)	1:19:A:GLU:HA	1:21:A:LYS:HB3	9	0.32
(2,1383)	1:36:A:ILE:HD12	1:28:A:VAL:HG21	7	0.32
(2,1307)	1:7:A:ALA:HB3	1:11:A:GLN:HB2	6	0.32
(2,1293)	1:152:A:ALA:HA	1:152:A:ALA:HB1	1	0.32
(2,1293)	1:152:A:ALA:HA	1:152:A:ALA:HB3	5	0.32
(2,1261)	1:26:A:ILE:HB	1:23:A:ALA:HB2	6	0.32
(2,1261)	1:26:A:ILE:HB	1:23:A:ALA:HB2	7	0.32
(2,1238)	1:58:A:GLN:HG3	1:58:A:GLN:HB2	6	0.32
(2,1227)	1:153:A:MET:HG3	1:148:A:ILE:HG13	9	0.32
(2,1180)	1:42:A:GLY:HA3	1:52:A:PRO:HG3	1	0.32
(2,1167)	1:45:A:MET:HA	1:48:A:LEU:HD13	1	0.32
(2,1129)	1:36:A:ILE:HD12	1:77:A:PHE:HE1	10	0.32
(2,971)	1:1:A:MET:HE1	1:79:A:VAL:HG13	6	0.32
(2,942)	1:36:A:ILE:HD11	1:77:A:PHE:HD1	4	0.32
(2,942)	1:36:A:ILE:HD13	1:77:A:PHE:HD1	10	0.32
(2,920)	1:44:A:VAL:HG12	1:45:A:MET:HG2	5	0.32
(2,896)	1:31:A:ALA:HB2	1:28:A:VAL:HG22	1	0.32
(2,871)	1:41:A:LEU:HB2	1:61:A:ILE:HD12	7	0.32
(2,848)	1:38:A:THR:HG23	1:61:A:ILE:HG21	8	0.32
(2,781)	1:9:A:VAL:HG12	1:78:A:LEU:HB3	1	0.32
(2,764)	1:9:A:VAL:HB	1:9:A:VAL:HG23	2	0.32
(2,673)	1:8:A:ALA:HB1	1:82:A:VAL:HG12	7	0.32
(2,661)	1:29:A:LEU:HB2	1:29:A:LEU:HD21	1	0.32
(2,661)	1:29:A:LEU:HB2	1:29:A:LEU:HD21	8	0.32
(2,638)	1:140:A:ARG:HA	1:140:A:ARG:HG3	4	0.32
(2,546)	1:154:A:MET:HE1	1:22:A:ALA:HB2	6	0.32
(2,546)	1:154:A:MET:HE3	1:22:A:ALA:HB1	10	0.32
(2,511)	1:1:A:MET:HE2	1:6:A:LYS:HE3	3	0.32
(2,510)	1:1:A:MET:HE1	1:5:A:TYR:HB2	6	0.32
(2,463)	1:64:A:VAL:HB	1:72:A:VAL:HB	4	0.32
(2,415)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	4	0.32
(2,272)	1:44:A:VAL:HA	1:47:A:MET:HB3	5	0.32
(2,223)	1:82:A:VAL:HA	1:85:A:MET:HG3	1	0.32
(2,223)	1:82:A:VAL:HA	1:85:A:MET:HG3	4	0.32
(2,157)	1:29:A:LEU:HA	1:29:A:LEU:HD13	7	0.32
(2,143)	1:40:A:GLU:HA	1:43:A:LYS:HB3	2	0.32
(2,142)	1:7:A:ALA:HA	1:10:A:GLU:HB3	6	0.32
(2,138)	1:8:A:ALA:HA	1:82:A:VAL:HG21	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,129)	1:54:A:PRO:HA	1:54:A:PRO:HG2	5	0.32
(2,129)	1:54:A:PRO:HA	1:54:A:PRO:HG2	6	0.32
(2,129)	1:54:A:PRO:HA	1:54:A:PRO:HG2	7	0.32
(2,129)	1:54:A:PRO:HA	1:54:A:PRO:HG2	8	0.32
(2,129)	1:54:A:PRO:HA	1:54:A:PRO:HG2	9	0.32
(2,41)	1:140:A:ARG:HA	1:140:A:ARG:HD3	1	0.32
(2,8)	1:51:A:ASN:HA	1:50:A:GLN:HB3	3	0.32
(2,8)	1:51:A:ASN:HA	1:50:A:GLN:HB3	5	0.32
(2,1436)	1:61:A:ILE:HD13	1:37:A:SER:HB3	8	0.31
(2,1421)	1:15:A:GLU:HB3	1:18:A:ASN:HB3	1	0.31
(2,1400)	1:47:A:MET:HE2	1:27:A:PHE:HA	3	0.31
(2,1400)	1:47:A:MET:HE2	1:27:A:PHE:HA	9	0.31
(2,1362)	1:64:A:VAL:HG13	1:76:A:GLU:HA	4	0.31
(2,1325)	1:82:A:VAL:HG23	1:4:A:ILE:HD13	8	0.31
(2,1293)	1:152:A:ALA:HA	1:152:A:ALA:HB2	4	0.31
(2,1293)	1:152:A:ALA:HA	1:152:A:ALA:HB3	8	0.31
(2,1293)	1:152:A:ALA:HA	1:152:A:ALA:HB2	9	0.31
(2,1293)	1:152:A:ALA:HA	1:152:A:ALA:HB1	10	0.31
(2,1254)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	4	0.31
(2,1254)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	5	0.31
(2,1244)	1:15:A:GLU:HG3	1:18:A:ASN:HB3	3	0.31
(2,1180)	1:42:A:GLY:HA3	1:52:A:PRO:HG3	9	0.31
(2,1179)	1:84:A:SER:HA	1:84:A:SER:HB3	2	0.31
(2,1177)	1:153:A:MET:HA	1:156:A:ALA:HB3	1	0.31
(2,1159)	1:69:A:SER:HB2	1:71:A:THR:HB	2	0.31
(2,1114)	1:54:A:PRO:HA	1:57:A:LEU:HB3	3	0.31
(2,1114)	1:54:A:PRO:HA	1:57:A:LEU:HB3	9	0.31
(2,1072)	1:13:A:THR:HG23	1:16:A:GLN:HG2	2	0.31
(2,1008)	1:78:A:LEU:HD13	1:12:A:LEU:HB3	8	0.31
(2,1007)	1:78:A:LEU:HD13	1:77:A:PHE:HD1	3	0.31
(2,929)	1:36:A:ILE:HD13	1:27:A:PHE:HD1	7	0.31
(2,906)	1:78:A:LEU:HD12	1:20:A:PHE:HD1	10	0.31
(2,876)	1:78:A:LEU:HD22	1:77:A:PHE:HE1	5	0.31
(2,859)	1:57:A:LEU:HD22	1:45:A:MET:HB2	3	0.31
(2,849)	1:61:A:ILE:HG13	1:61:A:ILE:HG21	5	0.31
(2,823)	1:143:A:LEU:HD22	1:142:A:THR:HG22	8	0.31
(2,804)	1:23:A:ALA:HA	1:26:A:ILE:HG23	7	0.31
(2,797)	1:146:A:VAL:HA	1:146:A:VAL:HG22	8	0.31
(2,714)	1:38:A:THR:HG21	1:61:A:ILE:HG12	8	0.31
(2,696)	1:6:A:LYS:HB3	1:7:A:ALA:HB1	1	0.31
(2,645)	1:90:A:LYS:HD3	1:90:A:LYS:HG2	4	0.31
(2,605)	1:161:A:ARG:HB3	1:158:A:LEU:HD23	4	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,518)	1:140:A:ARG:HA	1:141:A:PRO:HG3	7	0.31
(2,514)	1:1:A:MET:HE2	1:76:A:GLU:HG3	8	0.31
(2,466)	1:72:A:VAL:HB	1:61:A:ILE:HG23	6	0.31
(2,415)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	5	0.31
(2,415)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	9	0.31
(2,360)	1:25:A:ASP:HB2	1:28:A:VAL:HG23	7	0.31
(2,339)	1:43:A:LYS:HE2	1:43:A:LYS:HB3	4	0.31
(2,296)	1:70:A:GLY:HA2	1:71:A:THR:HG23	4	0.31
(2,280)	1:9:A:VAL:HA	1:8:A:ALA:HB1	8	0.31
(2,188)	1:159:A:GLY:HA2	1:160:A:ALA:HB3	5	0.31
(2,129)	1:54:A:PRO:HA	1:54:A:PRO:HG2	2	0.31
(2,129)	1:54:A:PRO:HA	1:54:A:PRO:HG2	4	0.31
(2,112)	1:41:A:LEU:HA	1:41:A:LEU:HD21	5	0.31
(2,8)	1:51:A:ASN:HA	1:50:A:GLN:HB3	2	0.31
(2,8)	1:51:A:ASN:HA	1:50:A:GLN:HB3	4	0.31
(2,8)	1:51:A:ASN:HA	1:50:A:GLN:HB3	9	0.31
(2,8)	1:51:A:ASN:HA	1:50:A:GLN:HB3	10	0.31
(2,1425)	1:19:A:GLU:HA	1:21:A:LYS:HB3	3	0.3
(2,1394)	1:35:A:SER:HB2	1:28:A:VAL:HG13	1	0.3
(2,1379)	1:48:A:LEU:HD12	1:44:A:VAL:HG12	6	0.3
(2,1377)	1:44:A:VAL:HG11	1:47:A:MET:HG3	6	0.3
(2,1372)	1:79:A:VAL:HG13	1:83:A:ARG:HB2	7	0.3
(2,1254)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	10	0.3
(2,1251)	1:52:A:PRO:HB2	1:52:A:PRO:HG3	6	0.3
(2,1244)	1:15:A:GLU:HG3	1:18:A:ASN:HB3	6	0.3
(2,1155)	1:151:A:ASP:HA	1:151:A:ASP:HB2	5	0.3
(2,1114)	1:54:A:PRO:HA	1:57:A:LEU:HB3	5	0.3
(2,1094)	1:40:A:GLU:HG2	1:36:A:ILE:HG22	2	0.3
(2,1094)	1:40:A:GLU:HG2	1:36:A:ILE:HG21	10	0.3
(2,1046)	1:48:A:LEU:HA	1:50:A:GLN:HG2	10	0.3
(2,1024)	1:28:A:VAL:HG12	1:35:A:SER:HB3	2	0.3
(2,938)	1:31:A:ALA:HB2	1:28:A:VAL:HG13	9	0.3
(2,898)	1:4:A:ILE:HG21	1:5:A:TYR:HE1	10	0.3
(2,859)	1:57:A:LEU:HD21	1:45:A:MET:HB2	1	0.3
(2,859)	1:57:A:LEU:HD21	1:45:A:MET:HB2	5	0.3
(2,824)	1:158:A:LEU:HD11	1:158:A:LEU:HD21	4	0.3
(2,807)	1:45:A:MET:HG3	1:57:A:LEU:HD12	6	0.3
(2,804)	1:23:A:ALA:HA	1:26:A:ILE:HG21	1	0.3
(2,755)	1:158:A:LEU:HD11	1:154:A:MET:HG2	5	0.3
(2,703)	1:13:A:THR:HG21	1:16:A:GLN:HG3	6	0.3
(2,638)	1:140:A:ARG:HA	1:140:A:ARG:HG3	1	0.3
(2,638)	1:140:A:ARG:HA	1:140:A:ARG:HG3	8	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,618)	1:45:A:MET:HE2	1:148:A:ILE:HA	4	0.3
(2,521)	1:14:A:GLU:HB3	1:14:A:GLU:HA	8	0.3
(2,521)	1:14:A:GLU:HB3	1:14:A:GLU:HA	9	0.3
(2,494)	1:10:A:GLU:HB2	1:9:A:VAL:HG11	5	0.3
(2,485)	1:153:A:MET:HE2	1:157:A:LEU:HD22	5	0.3
(2,482)	1:19:A:GLU:HG2	1:22:A:ALA:HB1	9	0.3
(2,477)	1:153:A:MET:HE3	1:154:A:MET:HA	2	0.3
(2,434)	1:19:A:GLU:HG3	1:158:A:LEU:HD12	9	0.3
(2,415)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	1	0.3
(2,415)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	8	0.3
(2,415)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	10	0.3
(2,383)	1:75:A:ASP:HB2	1:1:A:MET:HE2	5	0.3
(2,339)	1:43:A:LYS:HE2	1:43:A:LYS:HB3	6	0.3
(2,296)	1:70:A:GLY:HA2	1:71:A:THR:HG22	10	0.3
(2,272)	1:44:A:VAL:HA	1:47:A:MET:HB3	2	0.3
(2,214)	1:136:A:GLY:HA2	1:90:A:LYS:HE2	4	0.3
(2,188)	1:159:A:GLY:HA2	1:160:A:ALA:HB1	4	0.3
(2,157)	1:29:A:LEU:HA	1:29:A:LEU:HD12	8	0.3
(2,157)	1:29:A:LEU:HA	1:29:A:LEU:HD11	9	0.3
(2,129)	1:54:A:PRO:HA	1:54:A:PRO:HG2	1	0.3
(2,1411)	1:13:A:THR:HB	1:16:A:GLN:HB3	5	0.29
(2,1407)	1:156:A:ALA:HA	1:157:A:LEU:HD22	2	0.29
(2,1368)	1:157:A:LEU:HD23	1:153:A:MET:HA	7	0.29
(2,1367)	1:38:A:THR:HB	1:61:A:ILE:HD11	3	0.29
(2,1364)	1:58:A:GLN:HA	1:61:A:ILE:HG21	5	0.29
(2,1357)	1:48:A:LEU:HG	1:48:A:LEU:HD21	1	0.29
(2,1357)	1:48:A:LEU:HB3	1:48:A:LEU:HD21	2	0.29
(2,1346)	1:54:A:PRO:HA	1:57:A:LEU:HD12	1	0.29
(2,1331)	1:79:A:VAL:HG21	1:2:A:ASP:HB2	3	0.29
(2,1325)	1:82:A:VAL:HG23	1:4:A:ILE:HD12	5	0.29
(2,1324)	1:82:A:VAL:HG21	1:83:A:ARG:HG3	2	0.29
(2,1254)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	3	0.29
(2,1254)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	8	0.29
(2,1244)	1:15:A:GLU:HG3	1:18:A:ASN:HB3	9	0.29
(2,1238)	1:58:A:GLN:HG3	1:58:A:GLN:HB2	4	0.29
(2,1191)	1:52:A:PRO:HD3	1:57:A:LEU:HD12	3	0.29
(2,1148)	1:65:A:ASP:HA	1:64:A:VAL:HG23	6	0.29
(2,1114)	1:54:A:PRO:HA	1:57:A:LEU:HB3	10	0.29
(2,1049)	1:44:A:VAL:HG22	1:41:A:LEU:HA	7	0.29
(2,1046)	1:48:A:LEU:HA	1:50:A:GLN:HG2	2	0.29
(2,1034)	1:57:A:LEU:HD21	1:52:A:PRO:HD2	4	0.29
(2,1023)	1:71:A:THR:HG21	1:35:A:SER:HA	4	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1023)	1:71:A:THR:HG21	1:35:A:SER:HA	9	0.29
(2,989)	1:52:A:PRO:HA	1:45:A:MET:HE3	10	0.29
(2,940)	1:61:A:ILE:HD12	1:37:A:SER:HB3	4	0.29
(2,911)	1:78:A:LEU:HD12	1:17:A:LYS:HE2	1	0.29
(2,846)	1:65:A:ASP:HB3	1:61:A:ILE:HG23	4	0.29
(2,824)	1:158:A:LEU:HD11	1:158:A:LEU:HD23	3	0.29
(2,815)	1:158:A:LEU:HD22	1:161:A:ARG:HD3	5	0.29
(2,814)	1:26:A:ILE:HA	1:26:A:ILE:HD13	6	0.29
(2,807)	1:45:A:MET:HG3	1:57:A:LEU:HD13	5	0.29
(2,773)	1:26:A:ILE:HG12	1:29:A:LEU:HD13	2	0.29
(2,705)	1:81:A:MET:HB3	1:81:A:MET:HG2	6	0.29
(2,705)	1:81:A:MET:HB3	1:81:A:MET:HG2	8	0.29
(2,681)	1:47:A:MET:HE3	1:156:A:ALA:HB1	3	0.29
(2,661)	1:29:A:LEU:HB2	1:29:A:LEU:HD22	5	0.29
(2,638)	1:140:A:ARG:HA	1:140:A:ARG:HG3	10	0.29
(2,521)	1:14:A:GLU:HB3	1:14:A:GLU:HA	2	0.29
(2,518)	1:140:A:ARG:HA	1:141:A:PRO:HG3	9	0.29
(2,510)	1:1:A:MET:HE1	1:5:A:TYR:HB2	7	0.29
(2,477)	1:153:A:MET:HE2	1:154:A:MET:HA	1	0.29
(2,477)	1:153:A:MET:HE2	1:154:A:MET:HA	8	0.29
(2,466)	1:72:A:VAL:HB	1:61:A:ILE:HG22	8	0.29
(2,455)	1:16:A:GLN:HG3	1:12:A:LEU:HD23	4	0.29
(2,415)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	3	0.29
(2,402)	1:1:A:MET:HG2	1:79:A:VAL:HG23	10	0.29
(2,281)	1:9:A:VAL:HA	1:9:A:VAL:HG22	1	0.29
(2,280)	1:9:A:VAL:HA	1:8:A:ALA:HB2	2	0.29
(2,280)	1:9:A:VAL:HA	1:8:A:ALA:HB1	7	0.29
(2,262)	1:141:A:PRO:HD2	1:140:A:ARG:HB2	6	0.29
(2,237)	1:141:A:PRO:HD3	1:140:A:ARG:HB2	7	0.29
(2,177)	1:57:A:LEU:HA	1:60:A:MET:HE2	3	0.29
(2,174)	1:55:A:GLU:HA	1:58:A:GLN:HB2	1	0.29
(2,174)	1:55:A:GLU:HA	1:58:A:GLN:HB2	2	0.29
(2,174)	1:55:A:GLU:HA	1:58:A:GLN:HB3	3	0.29
(2,109)	1:66:A:GLU:HA	1:66:A:GLU:HB2	9	0.29
(2,1425)	1:19:A:GLU:HA	1:21:A:LYS:HB3	6	0.28
(2,1394)	1:35:A:SER:HB2	1:28:A:VAL:HG12	3	0.28
(2,1368)	1:157:A:LEU:HD21	1:153:A:MET:HA	3	0.28
(2,1362)	1:64:A:VAL:HG13	1:76:A:GLU:HA	6	0.28
(2,1352)	1:48:A:LEU:HG	1:48:A:LEU:HD11	6	0.28
(2,1312)	1:38:A:THR:HG21	1:70:A:GLY:HA2	4	0.28
(2,1312)	1:38:A:THR:HG21	1:70:A:GLY:HA2	6	0.28
(2,1282)	1:44:A:VAL:HB	1:26:A:ILE:HG23	3	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1261)	1:26:A:ILE:HB	1:23:A:ALA:HB3	1	0.28
(2,1261)	1:26:A:ILE:HB	1:23:A:ALA:HB3	8	0.28
(2,1254)	1:58:A:GLN:HB3	1:58:A:GLN:HG2	9	0.28
(2,1240)	1:40:A:GLU:HB3	1:36:A:ILE:HG12	4	0.28
(2,1238)	1:58:A:GLN:HG3	1:58:A:GLN:HB2	10	0.28
(2,1233)	1:74:A:PHE:HB3	1:24:A:PHE:HD1	4	0.28
(2,1233)	1:74:A:PHE:HB3	1:24:A:PHE:HD1	6	0.28
(2,1191)	1:52:A:PRO:HD3	1:57:A:LEU:HD11	2	0.28
(2,1088)	1:29:A:LEU:HD11	1:29:A:LEU:HB3	6	0.28
(2,1049)	1:44:A:VAL:HG22	1:41:A:LEU:HA	9	0.28
(2,1024)	1:28:A:VAL:HG13	1:35:A:SER:HB3	4	0.28
(2,1014)	1:78:A:LEU:HD11	1:17:A:LYS:HD3	9	0.28
(2,1008)	1:78:A:LEU:HD12	1:12:A:LEU:HB3	2	0.28
(2,995)	1:8:A:ALA:HA	1:4:A:ILE:HD12	8	0.28
(2,994)	1:4:A:ILE:HA	1:7:A:ALA:HB1	4	0.28
(2,929)	1:36:A:ILE:HD11	1:27:A:PHE:HD1	5	0.28
(2,898)	1:4:A:ILE:HG23	1:5:A:TYR:HE1	2	0.28
(2,896)	1:31:A:ALA:HB2	1:28:A:VAL:HG23	2	0.28
(2,888)	1:78:A:LEU:HD22	1:12:A:LEU:HD11	8	0.28
(2,876)	1:78:A:LEU:HD23	1:77:A:PHE:HE1	4	0.28
(2,814)	1:26:A:ILE:HA	1:26:A:ILE:HD12	2	0.28
(2,800)	1:29:A:LEU:HD23	1:26:A:ILE:HA	3	0.28
(2,790)	1:153:A:MET:HG3	1:148:A:ILE:HG23	3	0.28
(2,790)	1:153:A:MET:HG3	1:148:A:ILE:HG21	8	0.28
(2,771)	1:82:A:VAL:HG22	1:82:A:VAL:HG13	7	0.28
(2,705)	1:81:A:MET:HB3	1:81:A:MET:HG2	2	0.28
(2,705)	1:81:A:MET:HB3	1:81:A:MET:HG2	4	0.28
(2,705)	1:81:A:MET:HB3	1:81:A:MET:HG2	5	0.28
(2,705)	1:81:A:MET:HB3	1:81:A:MET:HG2	7	0.28
(2,705)	1:81:A:MET:HB3	1:81:A:MET:HG2	9	0.28
(2,625)	1:45:A:MET:HE3	1:50:A:GLN:HG3	3	0.28
(2,521)	1:14:A:GLU:HB3	1:14:A:GLU:HA	1	0.28
(2,521)	1:14:A:GLU:HB3	1:14:A:GLU:HA	4	0.28
(2,514)	1:1:A:MET:HE1	1:76:A:GLU:HG3	10	0.28
(2,510)	1:1:A:MET:HE2	1:5:A:TYR:HB2	10	0.28
(2,482)	1:19:A:GLU:HG2	1:22:A:ALA:HB1	10	0.28
(2,455)	1:16:A:GLN:HG3	1:12:A:LEU:HD22	5	0.28
(2,455)	1:16:A:GLN:HG3	1:12:A:LEU:HD22	10	0.28
(2,278)	1:71:A:THR:HB	1:35:A:SER:HB3	10	0.28
(2,272)	1:44:A:VAL:HA	1:47:A:MET:HB3	1	0.28
(2,201)	1:43:A:LYS:HA	1:43:A:LYS:HB3	1	0.28
(2,201)	1:43:A:LYS:HA	1:43:A:LYS:HB3	2	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,201)	1:43:A:LYS:HA	1:43:A:LYS:HB3	5	0.28
(2,201)	1:43:A:LYS:HA	1:43:A:LYS:HB3	10	0.28
(2,138)	1:8:A:ALA:HA	1:82:A:VAL:HG23	1	0.28
(2,45)	1:65:A:ASP:HA	1:61:A:ILE:HG23	9	0.28
(2,12)	1:73:A:ASP:HA	1:24:A:PHE:HD1	10	0.28
(2,1421)	1:15:A:GLU:HB2	1:18:A:ASN:HB3	8	0.27
(2,1391)	1:4:A:ILE:HD13	1:6:A:LYS:HB2	2	0.27
(2,1390)	1:71:A:THR:HB	1:61:A:ILE:HG22	9	0.27
(2,1372)	1:79:A:VAL:HG11	1:83:A:ARG:HB2	2	0.27
(2,1361)	1:41:A:LEU:HD22	1:61:A:ILE:HG13	4	0.27
(2,1309)	1:13:A:THR:HG21	1:16:A:GLN:HB3	10	0.27
(2,1185)	1:16:A:GLN:HA	1:16:A:GLN:HB3	2	0.27
(2,1179)	1:89:A:SER:HA	1:89:A:SER:HB3	8	0.27
(2,1179)	1:84:A:SER:HA	1:84:A:SER:HB3	10	0.27
(2,1173)	1:15:A:GLU:HA	1:15:A:GLU:HB2	1	0.27
(2,1114)	1:54:A:PRO:HA	1:57:A:LEU:HB3	8	0.27
(2,1109)	1:52:A:PRO:HD3	1:42:A:GLY:HA3	4	0.27
(2,1088)	1:29:A:LEU:HD13	1:29:A:LEU:HB3	1	0.27
(2,1008)	1:78:A:LEU:HD12	1:12:A:LEU:HB3	3	0.27
(2,984)	1:153:A:MET:HE1	1:148:A:ILE:HG12	6	0.27
(2,983)	1:154:A:MET:HE2	1:20:A:PHE:HB3	8	0.27
(2,974)	1:79:A:VAL:HG21	1:1:A:MET:HA	2	0.27
(2,940)	1:61:A:ILE:HD11	1:37:A:SER:HB3	9	0.27
(2,896)	1:31:A:ALA:HB2	1:28:A:VAL:HG21	8	0.27
(2,893)	1:34:A:GLY:HA3	1:28:A:VAL:HG23	5	0.27
(2,888)	1:78:A:LEU:HD21	1:12:A:LEU:HD12	10	0.27
(2,807)	1:45:A:MET:HG3	1:57:A:LEU:HD12	7	0.27
(2,790)	1:153:A:MET:HG3	1:148:A:ILE:HG22	1	0.27
(2,790)	1:153:A:MET:HG3	1:148:A:ILE:HG22	7	0.27
(2,781)	1:9:A:VAL:HG11	1:78:A:LEU:HB3	3	0.27
(2,781)	1:9:A:VAL:HG11	1:78:A:LEU:HB3	8	0.27
(2,764)	1:9:A:VAL:HB	1:9:A:VAL:HG21	5	0.27
(2,742)	1:35:A:SER:HB2	1:71:A:THR:HG21	9	0.27
(2,740)	1:37:A:SER:HB2	1:71:A:THR:HG22	7	0.27
(2,705)	1:81:A:MET:HB3	1:81:A:MET:HG2	1	0.27
(2,705)	1:81:A:MET:HB3	1:81:A:MET:HG2	3	0.27
(2,705)	1:81:A:MET:HB3	1:81:A:MET:HG2	10	0.27
(2,679)	1:148:A:ILE:HG13	1:148:A:ILE:HG23	10	0.27
(2,661)	1:29:A:LEU:HB2	1:29:A:LEU:HD22	2	0.27
(2,638)	1:140:A:ARG:HA	1:140:A:ARG:HG3	5	0.27
(2,618)	1:45:A:MET:HE3	1:148:A:ILE:HA	3	0.27
(2,578)	1:52:A:PRO:HB3	1:57:A:LEU:HD22	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,518)	1:140:A:ARG:HA	1:141:A:PRO:HG3	8	0.27
(2,463)	1:64:A:VAL:HB	1:72:A:VAL:HB	6	0.27
(2,455)	1:16:A:GLN:HG3	1:12:A:LEU:HD22	2	0.27
(2,446)	1:15:A:GLU:HG2	1:13:A:THR:HG22	4	0.27
(2,442)	1:15:A:GLU:HG3	1:18:A:ASN:HB2	6	0.27
(2,415)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	6	0.27
(2,313)	1:77:A:PHE:HB2	1:72:A:VAL:HG12	7	0.27
(2,296)	1:70:A:GLY:HA2	1:71:A:THR:HG21	8	0.27
(2,272)	1:44:A:VAL:HA	1:47:A:MET:HB3	3	0.27
(2,201)	1:43:A:LYS:HA	1:43:A:LYS:HB3	3	0.27
(2,193)	1:81:A:MET:HA	1:81:A:MET:HB2	5	0.27
(2,69)	1:13:A:THR:HA	1:14:A:GLU:HB2	5	0.27
(2,8)	1:51:A:ASN:HA	1:50:A:GLN:HB3	7	0.27
(2,1396)	1:28:A:VAL:HG12	1:43:A:LYS:HD2	10	0.26
(2,1391)	1:4:A:ILE:HD13	1:6:A:LYS:HB2	10	0.26
(2,1370)	1:79:A:VAL:HG13	1:1:A:MET:HA	5	0.26
(2,1357)	1:48:A:LEU:HG	1:48:A:LEU:HD22	3	0.26
(2,1261)	1:26:A:ILE:HB	1:23:A:ALA:HB3	9	0.26
(2,1254)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	2	0.26
(2,1254)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	6	0.26
(2,1237)	1:155:A:GLN:HG3	1:151:A:ASP:HA	8	0.26
(2,1222)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	9	0.26
(2,1180)	1:42:A:GLY:HA3	1:52:A:PRO:HG3	4	0.26
(2,1179)	1:84:A:SER:HA	1:84:A:SER:HB3	4	0.26
(2,1114)	1:54:A:PRO:HA	1:57:A:LEU:HB3	2	0.26
(2,1114)	1:54:A:PRO:HA	1:57:A:LEU:HB3	4	0.26
(2,1114)	1:54:A:PRO:HA	1:57:A:LEU:HB3	7	0.26
(2,1109)	1:52:A:PRO:HD3	1:42:A:GLY:HA3	2	0.26
(2,1109)	1:52:A:PRO:HD3	1:42:A:GLY:HA3	3	0.26
(2,1109)	1:52:A:PRO:HD3	1:42:A:GLY:HA3	5	0.26
(2,1109)	1:52:A:PRO:HD3	1:42:A:GLY:HA3	9	0.26
(2,1084)	1:28:A:VAL:HG13	1:27:A:PHE:HA	7	0.26
(2,1051)	1:41:A:LEU:HA	1:41:A:LEU:HD12	10	0.26
(2,1046)	1:48:A:LEU:HA	1:50:A:GLN:HG2	5	0.26
(2,1024)	1:28:A:VAL:HG13	1:35:A:SER:HB3	10	0.26
(2,991)	1:60:A:MET:HG2	1:45:A:MET:HE1	5	0.26
(2,962)	1:36:A:ILE:HB	1:61:A:ILE:HD13	7	0.26
(2,941)	1:36:A:ILE:HD12	1:36:A:ILE:HA	5	0.26
(2,894)	1:28:A:VAL:HG23	1:27:A:PHE:HB3	4	0.26
(2,894)	1:28:A:VAL:HG21	1:27:A:PHE:HB3	7	0.26
(2,876)	1:78:A:LEU:HD23	1:77:A:PHE:HE1	8	0.26
(2,873)	1:4:A:ILE:HG12	1:4:A:ILE:HD13	7	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,859)	1:57:A:LEU:HD22	1:45:A:MET:HB2	10	0.26
(2,853)	1:38:A:THR:HA	1:57:A:LEU:HD23	9	0.26
(2,849)	1:61:A:ILE:HG13	1:61:A:ILE:HG21	2	0.26
(2,812)	1:26:A:ILE:HG22	1:27:A:PHE:HA	3	0.26
(2,789)	1:146:A:VAL:HG21	1:147:A:ARG:HD3	9	0.26
(2,784)	1:9:A:VAL:HG11	1:78:A:LEU:HD11	10	0.26
(2,764)	1:9:A:VAL:HB	1:9:A:VAL:HG22	10	0.26
(2,640)	1:6:A:LYS:HD2	1:6:A:LYS:HA	7	0.26
(2,639)	1:3:A:ASP:HA	1:6:A:LYS:HD2	10	0.26
(2,605)	1:161:A:ARG:HB3	1:158:A:LEU:HD22	7	0.26
(2,515)	1:1:A:MET:HB2	1:6:A:LYS:HB2	4	0.26
(2,498)	1:10:A:GLU:HG3	1:10:A:GLU:HB2	2	0.26
(2,482)	1:19:A:GLU:HG2	1:22:A:ALA:HB2	4	0.26
(2,463)	1:64:A:VAL:HB	1:72:A:VAL:HB	3	0.26
(2,446)	1:15:A:GLU:HG2	1:13:A:THR:HG23	3	0.26
(2,415)	1:155:A:GLN:HG2	1:155:A:GLN:HB3	2	0.26
(2,360)	1:25:A:ASP:HB2	1:28:A:VAL:HG21	10	0.26
(2,201)	1:43:A:LYS:HA	1:43:A:LYS:HB2	7	0.26
(2,201)	1:43:A:LYS:HA	1:43:A:LYS:HB2	9	0.26
(2,193)	1:81:A:MET:HA	1:81:A:MET:HB2	1	0.26
(2,193)	1:81:A:MET:HA	1:81:A:MET:HB2	2	0.26
(2,193)	1:81:A:MET:HA	1:81:A:MET:HB2	4	0.26
(2,193)	1:81:A:MET:HA	1:81:A:MET:HB2	6	0.26
(2,193)	1:81:A:MET:HA	1:81:A:MET:HB2	7	0.26
(2,193)	1:81:A:MET:HA	1:81:A:MET:HB2	8	0.26
(2,193)	1:81:A:MET:HA	1:81:A:MET:HB2	9	0.26
(2,77)	1:48:A:LEU:HA	1:156:A:ALA:HB1	1	0.26
(2,1436)	1:61:A:ILE:HD12	1:37:A:SER:HB3	5	0.25
(2,1425)	1:19:A:GLU:HA	1:21:A:LYS:HB3	10	0.25
(2,1424)	1:47:A:MET:HA	1:48:A:LEU:HD23	3	0.25
(2,1407)	1:156:A:ALA:HA	1:157:A:LEU:HD21	10	0.25
(2,1394)	1:35:A:SER:HB2	1:28:A:VAL:HG13	6	0.25
(2,1393)	1:26:A:ILE:HD13	1:161:A:ARG:HD2	9	0.25
(2,1346)	1:54:A:PRO:HA	1:57:A:LEU:HD12	8	0.25
(2,1325)	1:82:A:VAL:HG23	1:4:A:ILE:HD12	9	0.25
(2,1300)	1:150:A:ALA:HA	1:150:A:ALA:HB1	10	0.25
(2,1228)	1:153:A:MET:HG3	1:48:A:LEU:HG	1	0.25
(2,1222)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	1	0.25
(2,1222)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	5	0.25
(2,1222)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	6	0.25
(2,1209)	1:39:A:LYS:HE2	1:38:A:THR:HB	3	0.25
(2,1179)	1:84:A:SER:HA	1:84:A:SER:HB2	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1179)	1:89:A:SER:HA	1:89:A:SER:HB2	9	0.25
(2,1160)	1:38:A:THR:HB	1:41:A:LEU:HB3	1	0.25
(2,1149)	1:64:A:VAL:HA	1:76:A:GLU:HB3	4	0.25
(2,1118)	1:65:A:ASP:HB3	1:64:A:VAL:HG23	7	0.25
(2,1091)	1:40:A:GLU:HA	1:36:A:ILE:HG22	1	0.25
(2,1053)	1:18:A:ASN:HA	1:21:A:LYS:HD3	6	0.25
(2,1049)	1:44:A:VAL:HG21	1:41:A:LEU:HA	6	0.25
(2,1046)	1:48:A:LEU:HA	1:50:A:GLN:HG2	1	0.25
(2,986)	1:157:A:LEU:HD21	1:23:A:ALA:HB3	9	0.25
(2,942)	1:36:A:ILE:HD11	1:77:A:PHE:HD1	6	0.25
(2,938)	1:31:A:ALA:HB3	1:28:A:VAL:HG12	4	0.25
(2,938)	1:31:A:ALA:HB3	1:28:A:VAL:HG12	8	0.25
(2,893)	1:34:A:GLY:HA3	1:28:A:VAL:HG22	7	0.25
(2,873)	1:4:A:ILE:HG12	1:4:A:ILE:HD12	2	0.25
(2,873)	1:4:A:ILE:HG13	1:4:A:ILE:HD11	6	0.25
(2,849)	1:61:A:ILE:HG13	1:61:A:ILE:HG23	10	0.25
(2,847)	1:61:A:ILE:HG12	1:61:A:ILE:HG22	1	0.25
(2,812)	1:26:A:ILE:HG21	1:27:A:PHE:HA	5	0.25
(2,764)	1:9:A:VAL:HB	1:9:A:VAL:HG22	3	0.25
(2,764)	1:9:A:VAL:HB	1:9:A:VAL:HG22	4	0.25
(2,676)	1:34:A:GLY:HA3	1:31:A:ALA:HB1	9	0.25
(2,625)	1:45:A:MET:HE2	1:50:A:GLN:HG3	4	0.25
(2,621)	1:52:A:PRO:HD2	1:45:A:MET:HE1	1	0.25
(2,547)	1:154:A:MET:HE2	1:81:A:MET:HG2	8	0.25
(2,514)	1:1:A:MET:HE3	1:76:A:GLU:HG3	6	0.25
(2,463)	1:64:A:VAL:HB	1:72:A:VAL:HB	2	0.25
(2,463)	1:64:A:VAL:HB	1:72:A:VAL:HB	7	0.25
(2,418)	1:63:A:GLU:HG2	1:64:A:VAL:HG12	2	0.25
(2,391)	1:151:A:ASP:HB3	1:152:A:ALA:HA	5	0.25
(2,389)	1:3:A:ASP:HA	1:3:A:ASP:HB2	6	0.25
(2,389)	1:3:A:ASP:HA	1:3:A:ASP:HB2	8	0.25
(2,389)	1:3:A:ASP:HA	1:3:A:ASP:HB2	9	0.25
(2,389)	1:3:A:ASP:HA	1:3:A:ASP:HB2	10	0.25
(2,383)	1:75:A:ASP:HB2	1:1:A:MET:HE3	7	0.25
(2,324)	1:141:A:PRO:HD3	1:140:A:ARG:HD3	10	0.25
(2,205)	1:6:A:LYS:HA	1:9:A:VAL:HG21	1	0.25
(2,201)	1:43:A:LYS:HA	1:43:A:LYS:HB2	8	0.25
(2,193)	1:81:A:MET:HA	1:81:A:MET:HB2	3	0.25
(2,193)	1:81:A:MET:HA	1:81:A:MET:HB2	10	0.25
(2,157)	1:29:A:LEU:HA	1:29:A:LEU:HD11	3	0.25
(2,88)	1:62:A:ASP:HA	1:61:A:ILE:HG23	8	0.25
(2,12)	1:73:A:ASP:HA	1:24:A:PHE:HD1	8	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,8)	1:51:A:ASN:HA	1:50:A:GLN:HB3	1	0.25
(2,8)	1:51:A:ASN:HA	1:50:A:GLN:HB3	6	0.25
(2,1421)	1:15:A:GLU:HB2	1:18:A:ASN:HB3	3	0.24
(2,1407)	1:23:A:ALA:HA	1:157:A:LEU:HD22	7	0.24
(2,1387)	1:71:A:THR:HB	1:61:A:ILE:HD11	9	0.24
(2,1380)	1:44:A:VAL:HG23	1:157:A:LEU:HA	8	0.24
(2,1368)	1:157:A:LEU:HD23	1:153:A:MET:HA	10	0.24
(2,1362)	1:64:A:VAL:HG13	1:76:A:GLU:HA	5	0.24
(2,1337)	1:16:A:GLN:HB3	1:12:A:LEU:HD22	6	0.24
(2,1325)	1:82:A:VAL:HG21	1:4:A:ILE:HD13	3	0.24
(2,1324)	1:82:A:VAL:HG23	1:83:A:ARG:HG3	3	0.24
(2,1309)	1:13:A:THR:HG23	1:16:A:GLN:HG2	4	0.24
(2,1238)	1:58:A:GLN:HG3	1:58:A:GLN:HB2	5	0.24
(2,1184)	1:82:A:VAL:HA	1:8:A:ALA:HB2	1	0.24
(2,1179)	1:89:A:SER:HA	1:89:A:SER:HB3	5	0.24
(2,1160)	1:38:A:THR:HB	1:57:A:LEU:HG	8	0.24
(2,1148)	1:65:A:ASP:HA	1:64:A:VAL:HG22	1	0.24
(2,1129)	1:36:A:ILE:HD11	1:77:A:PHE:HE1	3	0.24
(2,1120)	1:77:A:PHE:HA	1:81:A:MET:HE3	3	0.24
(2,1109)	1:52:A:PRO:HD3	1:42:A:GLY:HA3	1	0.24
(2,1109)	1:52:A:PRO:HD3	1:42:A:GLY:HA3	10	0.24
(2,1091)	1:40:A:GLU:HA	1:36:A:ILE:HG23	3	0.24
(2,1046)	1:48:A:LEU:HA	1:50:A:GLN:HG2	3	0.24
(2,1046)	1:48:A:LEU:HA	1:50:A:GLN:HG2	4	0.24
(2,1034)	1:57:A:LEU:HD22	1:52:A:PRO:HD2	7	0.24
(2,1024)	1:28:A:VAL:HG13	1:35:A:SER:HB3	8	0.24
(2,1007)	1:78:A:LEU:HD13	1:77:A:PHE:HD1	1	0.24
(2,996)	1:11:A:GLN:HB3	1:8:A:ALA:HA	1	0.24
(2,968)	1:8:A:ALA:HA	1:85:A:MET:HE2	4	0.24
(2,965)	1:45:A:MET:HA	1:148:A:ILE:HD11	5	0.24
(2,942)	1:36:A:ILE:HD13	1:77:A:PHE:HD1	5	0.24
(2,941)	1:36:A:ILE:HD13	1:36:A:ILE:HA	7	0.24
(2,911)	1:78:A:LEU:HD13	1:17:A:LYS:HE2	8	0.24
(2,894)	1:28:A:VAL:HG23	1:27:A:PHE:HB3	9	0.24
(2,891)	1:35:A:SER:HA	1:28:A:VAL:HG23	4	0.24
(2,890)	1:28:A:VAL:HG23	1:24:A:PHE:HD1	8	0.24
(2,800)	1:29:A:LEU:HD21	1:26:A:ILE:HA	10	0.24
(2,764)	1:9:A:VAL:HB	1:9:A:VAL:HG21	6	0.24
(2,764)	1:9:A:VAL:HB	1:9:A:VAL:HG23	9	0.24
(2,676)	1:34:A:GLY:HA3	1:31:A:ALA:HB1	6	0.24
(2,575)	1:157:A:LEU:HB3	1:26:A:ILE:HG22	2	0.24
(2,521)	1:14:A:GLU:HB2	1:14:A:GLU:HA	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,518)	1:140:A:ARG:HA	1:141:A:PRO:HG3	6	0.24
(2,498)	1:10:A:GLU:HG3	1:10:A:GLU:HB2	10	0.24
(2,480)	1:153:A:MET:HE2	1:153:A:MET:HG2	8	0.24
(2,478)	1:153:A:MET:HE3	1:154:A:MET:HG2	3	0.24
(2,463)	1:64:A:VAL:HB	1:72:A:VAL:HB	8	0.24
(2,435)	1:16:A:GLN:HB3	1:12:A:LEU:HD22	7	0.24
(2,407)	1:52:A:PRO:HD3	1:51:A:ASN:HB3	5	0.24
(2,390)	1:151:A:ASP:HA	1:151:A:ASP:HB2	6	0.24
(2,389)	1:3:A:ASP:HA	1:3:A:ASP:HB2	1	0.24
(2,389)	1:3:A:ASP:HA	1:3:A:ASP:HB2	2	0.24
(2,389)	1:3:A:ASP:HA	1:3:A:ASP:HB2	3	0.24
(2,389)	1:3:A:ASP:HA	1:3:A:ASP:HB2	4	0.24
(2,389)	1:3:A:ASP:HA	1:3:A:ASP:HB2	5	0.24
(2,389)	1:3:A:ASP:HA	1:3:A:ASP:HB2	7	0.24
(2,324)	1:141:A:PRO:HD3	1:140:A:ARG:HD3	9	0.24
(2,296)	1:70:A:GLY:HA2	1:71:A:THR:HG23	3	0.24
(2,202)	1:149:A:SER:HB3	1:152:A:ALA:HB3	1	0.24
(2,202)	1:149:A:SER:HB3	1:152:A:ALA:HB1	9	0.24
(2,174)	1:55:A:GLU:HA	1:58:A:GLN:HB2	6	0.24
(2,95)	1:139:A:LYS:HA	1:139:A:LYS:HG2	1	0.24
(2,69)	1:13:A:THR:HA	1:14:A:GLU:HB2	10	0.24
(2,1425)	1:19:A:GLU:HA	1:21:A:LYS:HB3	4	0.23
(2,1411)	1:13:A:THR:HB	1:16:A:GLN:HB3	3	0.23
(2,1366)	1:52:A:PRO:HG3	1:57:A:LEU:HD22	4	0.23
(2,1361)	1:41:A:LEU:HD22	1:61:A:ILE:HG13	8	0.23
(2,1357)	1:48:A:LEU:HG	1:48:A:LEU:HD22	8	0.23
(2,1343)	1:146:A:VAL:HG21	1:145:A:ARG:HA	7	0.23
(2,1300)	1:150:A:ALA:HA	1:150:A:ALA:HB2	2	0.23
(2,1254)	1:58:A:GLN:HB3	1:58:A:GLN:HG2	7	0.23
(2,1253)	1:79:A:VAL:HB	1:76:A:GLU:HA	6	0.23
(2,1227)	1:153:A:MET:HG3	1:148:A:ILE:HG13	1	0.23
(2,1180)	1:42:A:GLY:HA3	1:52:A:PRO:HG3	8	0.23
(2,1159)	1:69:A:SER:HB2	1:71:A:THR:HB	9	0.23
(2,1094)	1:40:A:GLU:HG2	1:36:A:ILE:HG22	5	0.23
(2,1088)	1:29:A:LEU:HD11	1:29:A:LEU:HB3	10	0.23
(2,1051)	1:41:A:LEU:HA	1:41:A:LEU:HD11	4	0.23
(2,972)	1:1:A:MET:HG3	1:79:A:VAL:HG22	2	0.23
(2,968)	1:8:A:ALA:HA	1:85:A:MET:HE1	2	0.23
(2,940)	1:61:A:ILE:HD13	1:37:A:SER:HB3	3	0.23
(2,919)	1:44:A:VAL:HG11	1:153:A:MET:HG2	7	0.23
(2,890)	1:28:A:VAL:HG21	1:24:A:PHE:HD1	1	0.23
(2,873)	1:4:A:ILE:HG13	1:4:A:ILE:HD11	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,846)	1:65:A:ASP:HB3	1:61:A:ILE:HG21	7	0.23
(2,843)	1:64:A:VAL:HG22	1:64:A:VAL:HG11	8	0.23
(2,801)	1:143:A:LEU:HD12	1:142:A:THR:HG23	4	0.23
(2,784)	1:9:A:VAL:HG12	1:78:A:LEU:HD11	4	0.23
(2,764)	1:9:A:VAL:HB	1:9:A:VAL:HG23	7	0.23
(2,711)	1:58:A:GLN:HG3	1:38:A:THR:HG22	3	0.23
(2,679)	1:148:A:ILE:HG13	1:148:A:ILE:HG22	7	0.23
(2,674)	1:157:A:LEU:HB2	1:157:A:LEU:HD22	1	0.23
(2,674)	1:157:A:LEU:HB2	1:157:A:LEU:HD23	6	0.23
(2,674)	1:157:A:LEU:HB2	1:157:A:LEU:HD21	10	0.23
(2,652)	1:50:A:GLN:HB3	1:45:A:MET:HE3	4	0.23
(2,521)	1:14:A:GLU:HB2	1:14:A:GLU:HA	10	0.23
(2,463)	1:64:A:VAL:HB	1:72:A:VAL:HB	10	0.23
(2,448)	1:15:A:GLU:HG2	1:15:A:GLU:HB3	5	0.23
(2,435)	1:16:A:GLN:HB3	1:12:A:LEU:HD23	9	0.23
(2,407)	1:52:A:PRO:HD3	1:51:A:ASN:HB3	8	0.23
(2,360)	1:25:A:ASP:HB2	1:28:A:VAL:HG21	2	0.23
(2,324)	1:141:A:PRO:HD3	1:140:A:ARG:HD2	2	0.23
(2,324)	1:141:A:PRO:HD3	1:140:A:ARG:HD3	8	0.23
(2,303)	1:24:A:PHE:HA	1:74:A:PHE:HD1	5	0.23
(2,303)	1:24:A:PHE:HA	1:74:A:PHE:HD1	8	0.23
(2,301)	1:61:A:ILE:HA	1:64:A:VAL:HG23	2	0.23
(2,233)	1:83:A:ARG:HA	1:5:A:TYR:HD1	9	0.23
(2,142)	1:7:A:ALA:HA	1:10:A:GLU:HB3	4	0.23
(2,42)	1:2:A:ASP:HA	1:2:A:ASP:HB3	8	0.23
(2,1425)	1:19:A:GLU:HA	1:21:A:LYS:HB3	7	0.22
(2,1357)	1:48:A:LEU:HG	1:48:A:LEU:HD22	4	0.22
(2,1324)	1:82:A:VAL:HG22	1:83:A:ARG:HG3	8	0.22
(2,1303)	1:90:A:LYS:HB2	1:90:A:LYS:HG3	4	0.22
(2,1224)	1:85:A:MET:HG2	1:85:A:MET:HB2	8	0.22
(2,1203)	1:140:A:ARG:HD2	1:142:A:THR:HA	4	0.22
(2,1184)	1:82:A:VAL:HA	1:8:A:ALA:HB1	4	0.22
(2,1179)	1:84:A:SER:HA	1:84:A:SER:HB2	3	0.22
(2,1179)	1:89:A:SER:HA	1:89:A:SER:HB2	7	0.22
(2,1173)	1:15:A:GLU:HA	1:15:A:GLU:HB2	6	0.22
(2,1072)	1:13:A:THR:HG21	1:16:A:GLN:HG2	9	0.22
(2,1053)	1:18:A:ASN:HA	1:21:A:LYS:HD3	7	0.22
(2,1053)	1:18:A:ASN:HA	1:21:A:LYS:HD3	9	0.22
(2,1046)	1:48:A:LEU:HA	1:50:A:GLN:HG2	8	0.22
(2,972)	1:1:A:MET:HG3	1:79:A:VAL:HG22	5	0.22
(2,941)	1:36:A:ILE:HD12	1:36:A:ILE:HA	4	0.22
(2,938)	1:31:A:ALA:HB2	1:28:A:VAL:HG11	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,929)	1:36:A:ILE:HD12	1:27:A:PHE:HD1	1	0.22
(2,873)	1:4:A:ILE:HG13	1:4:A:ILE:HD13	5	0.22
(2,859)	1:57:A:LEU:HD21	1:45:A:MET:HB2	2	0.22
(2,814)	1:26:A:ILE:HA	1:26:A:ILE:HD11	1	0.22
(2,812)	1:26:A:ILE:HG22	1:27:A:PHE:HA	4	0.22
(2,812)	1:26:A:ILE:HG21	1:27:A:PHE:HA	10	0.22
(2,790)	1:153:A:MET:HG3	1:148:A:ILE:HG22	2	0.22
(2,782)	1:72:A:VAL:HG11	1:64:A:VAL:HG23	10	0.22
(2,781)	1:9:A:VAL:HG13	1:78:A:LEU:HB3	9	0.22
(2,763)	1:6:A:LYS:HE2	1:9:A:VAL:HG23	7	0.22
(2,761)	1:12:A:LEU:HD13	1:12:A:LEU:HA	1	0.22
(2,679)	1:148:A:ILE:HG13	1:148:A:ILE:HG21	9	0.22
(2,676)	1:34:A:GLY:HA3	1:31:A:ALA:HB1	10	0.22
(2,603)	1:44:A:VAL:HB	1:27:A:PHE:HD1	2	0.22
(2,603)	1:44:A:VAL:HB	1:27:A:PHE:HD1	5	0.22
(2,601)	1:139:A:LYS:HB2	1:139:A:LYS:HG3	6	0.22
(2,558)	1:55:A:GLU:HB2	1:55:A:GLU:HG2	2	0.22
(2,558)	1:55:A:GLU:HB2	1:55:A:GLU:HG2	6	0.22
(2,558)	1:55:A:GLU:HB2	1:55:A:GLU:HG2	7	0.22
(2,558)	1:55:A:GLU:HB2	1:55:A:GLU:HG2	10	0.22
(2,510)	1:1:A:MET:HE1	1:5:A:TYR:HB2	8	0.22
(2,498)	1:10:A:GLU:HG3	1:10:A:GLU:HB2	1	0.22
(2,498)	1:10:A:GLU:HG3	1:10:A:GLU:HB2	7	0.22
(2,491)	1:79:A:VAL:HB	1:83:A:ARG:HG3	4	0.22
(2,476)	1:50:A:GLN:HA	1:50:A:GLN:HG2	4	0.22
(2,448)	1:15:A:GLU:HG2	1:15:A:GLU:HB3	4	0.22
(2,402)	1:1:A:MET:HG2	1:79:A:VAL:HG21	3	0.22
(2,401)	1:33:A:ASP:HB3	1:32:A:GLU:HB2	2	0.22
(2,401)	1:33:A:ASP:HB3	1:32:A:GLU:HB2	6	0.22
(2,358)	1:62:A:ASP:HB2	1:61:A:ILE:HB	7	0.22
(2,347)	1:14:A:GLU:HA	1:17:A:LYS:HE3	10	0.22
(2,327)	1:147:A:ARG:HD2	1:147:A:ARG:HB2	4	0.22
(2,278)	1:71:A:THR:HB	1:35:A:SER:HB3	7	0.22
(2,233)	1:83:A:ARG:HA	1:5:A:TYR:HD1	2	0.22
(2,201)	1:43:A:LYS:HA	1:43:A:LYS:HB2	4	0.22
(2,201)	1:43:A:LYS:HA	1:43:A:LYS:HB2	6	0.22
(2,174)	1:55:A:GLU:HA	1:58:A:GLN:HB3	9	0.22
(2,157)	1:29:A:LEU:HA	1:29:A:LEU:HD12	10	0.22
(2,142)	1:7:A:ALA:HA	1:10:A:GLU:HB2	10	0.22
(2,77)	1:48:A:LEU:HA	1:156:A:ALA:HB1	10	0.22
(2,49)	1:18:A:ASN:HA	1:21:A:LYS:HG2	6	0.22
(2,49)	1:18:A:ASN:HA	1:21:A:LYS:HG2	9	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1415)	1:3:A:ASP:HB3	1:4:A:ILE:HA	5	0.21
(2,1401)	1:85:A:MET:HG3	1:82:A:VAL:HG23	10	0.21
(2,1387)	1:71:A:THR:HB	1:61:A:ILE:HD13	8	0.21
(2,1368)	1:157:A:LEU:HD23	1:153:A:MET:HA	4	0.21
(2,1366)	1:52:A:PRO:HG3	1:57:A:LEU:HD22	9	0.21
(2,1362)	1:64:A:VAL:HG13	1:76:A:GLU:HA	3	0.21
(2,1357)	1:48:A:LEU:HB3	1:48:A:LEU:HD22	10	0.21
(2,1324)	1:82:A:VAL:HG22	1:83:A:ARG:HG3	9	0.21
(2,1296)	1:158:A:LEU:HG	1:158:A:LEU:HB3	3	0.21
(2,1296)	1:158:A:LEU:HG	1:158:A:LEU:HB3	6	0.21
(2,1296)	1:158:A:LEU:HG	1:158:A:LEU:HB3	8	0.21
(2,1296)	1:158:A:LEU:HG	1:158:A:LEU:HB3	9	0.21
(2,1240)	1:40:A:GLU:HB3	1:36:A:ILE:HG12	6	0.21
(2,1238)	1:58:A:GLN:HG3	1:58:A:GLN:HB2	3	0.21
(2,1224)	1:85:A:MET:HG2	1:85:A:MET:HB2	2	0.21
(2,1224)	1:85:A:MET:HG2	1:85:A:MET:HB2	6	0.21
(2,1224)	1:85:A:MET:HG2	1:85:A:MET:HB2	7	0.21
(2,1224)	1:85:A:MET:HG2	1:85:A:MET:HB2	9	0.21
(2,1222)	1:3:A:ASP:HB3	1:6:A:LYS:HB2	2	0.21
(2,1214)	1:6:A:LYS:HE2	1:9:A:VAL:HG23	7	0.21
(2,1181)	1:136:A:GLY:HA2	1:137:A:LYS:HB2	4	0.21
(2,1179)	1:89:A:SER:HA	1:89:A:SER:HB2	1	0.21
(2,1109)	1:52:A:PRO:HD3	1:42:A:GLY:HA3	8	0.21
(2,1088)	1:29:A:LEU:HD13	1:29:A:LEU:HB3	3	0.21
(2,1088)	1:29:A:LEU:HD11	1:29:A:LEU:HB3	8	0.21
(2,1084)	1:28:A:VAL:HG11	1:27:A:PHE:HA	2	0.21
(2,1084)	1:28:A:VAL:HG11	1:27:A:PHE:HA	5	0.21
(2,1061)	1:11:A:GLN:HB2	1:12:A:LEU:HD23	1	0.21
(2,1061)	1:11:A:GLN:HB2	1:12:A:LEU:HD21	6	0.21
(2,1059)	1:12:A:LEU:HG	1:9:A:VAL:HA	7	0.21
(2,1053)	1:18:A:ASN:HA	1:21:A:LYS:HD3	8	0.21
(2,1038)	1:158:A:LEU:HD12	1:161:A:ARG:HD3	8	0.21
(2,1025)	1:35:A:SER:HA	1:73:A:ASP:HB2	4	0.21
(2,996)	1:11:A:GLN:HB3	1:8:A:ALA:HA	3	0.21
(2,941)	1:36:A:ILE:HD13	1:36:A:ILE:HA	1	0.21
(2,941)	1:36:A:ILE:HD12	1:36:A:ILE:HA	6	0.21
(2,911)	1:78:A:LEU:HD11	1:17:A:LYS:HE2	5	0.21
(2,894)	1:28:A:VAL:HG22	1:27:A:PHE:HB3	6	0.21
(2,894)	1:28:A:VAL:HG22	1:27:A:PHE:HB3	10	0.21
(2,893)	1:34:A:GLY:HA3	1:28:A:VAL:HG21	3	0.21
(2,890)	1:28:A:VAL:HG23	1:24:A:PHE:HD1	3	0.21
(2,843)	1:64:A:VAL:HG21	1:64:A:VAL:HG11	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,824)	1:158:A:LEU:HD12	1:158:A:LEU:HD23	9	0.21
(2,790)	1:153:A:MET:HG3	1:148:A:ILE:HG23	4	0.21
(2,784)	1:9:A:VAL:HG13	1:78:A:LEU:HD11	5	0.21
(2,781)	1:9:A:VAL:HG11	1:78:A:LEU:HB3	2	0.21
(2,764)	1:9:A:VAL:HB	1:9:A:VAL:HG21	1	0.21
(2,761)	1:12:A:LEU:HD12	1:12:A:LEU:HA	5	0.21
(2,757)	1:154:A:MET:HE2	1:158:A:LEU:HD13	7	0.21
(2,742)	1:35:A:SER:HB2	1:71:A:THR:HG21	6	0.21
(2,679)	1:148:A:ILE:HG13	1:148:A:ILE:HG22	1	0.21
(2,674)	1:157:A:LEU:HB2	1:157:A:LEU:HD22	3	0.21
(2,640)	1:6:A:LYS:HD2	1:6:A:LYS:HA	10	0.21
(2,604)	1:161:A:ARG:HB3	1:161:A:ARG:HD3	10	0.21
(2,603)	1:44:A:VAL:HB	1:27:A:PHE:HD1	1	0.21
(2,582)	1:45:A:MET:HA	1:48:A:LEU:HG	9	0.21
(2,521)	1:14:A:GLU:HB2	1:14:A:GLU:HA	3	0.21
(2,498)	1:10:A:GLU:HG3	1:10:A:GLU:HB2	3	0.21
(2,498)	1:10:A:GLU:HG3	1:10:A:GLU:HB2	6	0.21
(2,498)	1:10:A:GLU:HG3	1:10:A:GLU:HB2	8	0.21
(2,489)	1:10:A:GLU:HG2	1:10:A:GLU:HB3	5	0.21
(2,485)	1:153:A:MET:HE2	1:157:A:LEU:HD23	1	0.21
(2,448)	1:15:A:GLU:HG2	1:15:A:GLU:HB3	3	0.21
(2,448)	1:15:A:GLU:HG2	1:15:A:GLU:HB3	10	0.21
(2,358)	1:62:A:ASP:HB2	1:61:A:ILE:HB	10	0.21
(2,350)	1:17:A:LYS:HE2	1:12:A:LEU:HB3	3	0.21
(2,338)	1:40:A:GLU:HA	1:43:A:LYS:HE2	4	0.21
(2,324)	1:141:A:PRO:HD3	1:140:A:ARG:HD3	1	0.21
(2,301)	1:61:A:ILE:HA	1:64:A:VAL:HG23	10	0.21
(2,237)	1:141:A:PRO:HD3	1:140:A:ARG:HB2	3	0.21
(2,224)	1:82:A:VAL:HA	1:85:A:MET:HG2	10	0.21
(2,202)	1:149:A:SER:HB3	1:152:A:ALA:HB2	8	0.21
(2,177)	1:57:A:LEU:HA	1:60:A:MET:HE2	9	0.21
(2,144)	1:40:A:GLU:HA	1:43:A:LYS:HD2	2	0.21
(2,142)	1:7:A:ALA:HA	1:10:A:GLU:HB3	5	0.21
(2,110)	1:66:A:GLU:HA	1:66:A:GLU:HB3	6	0.21
(2,103)	1:38:A:THR:HB	1:57:A:LEU:HD13	6	0.21
(2,81)	1:85:A:MET:HA	1:85:A:MET:HB3	1	0.21
(2,81)	1:85:A:MET:HA	1:85:A:MET:HB3	3	0.21
(2,69)	1:13:A:THR:HA	1:14:A:GLU:HB3	7	0.21
(2,1416)	1:35:A:SER:HA	1:36:A:ILE:HB	4	0.2
(2,1416)	1:35:A:SER:HA	1:36:A:ILE:HB	6	0.2
(2,1387)	1:71:A:THR:HB	1:61:A:ILE:HD13	3	0.2
(2,1383)	1:36:A:ILE:HD13	1:28:A:VAL:HG22	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1377)	1:44:A:VAL:HG13	1:47:A:MET:HG3	4	0.2
(2,1374)	1:28:A:VAL:HG22	1:36:A:ILE:HA	10	0.2
(2,1367)	1:38:A:THR:HB	1:61:A:ILE:HD13	4	0.2
(2,1325)	1:82:A:VAL:HG21	1:79:A:VAL:HG13	2	0.2
(2,1300)	1:150:A:ALA:HA	1:150:A:ALA:HB2	7	0.2
(2,1296)	1:158:A:LEU:HG	1:158:A:LEU:HB3	1	0.2
(2,1296)	1:158:A:LEU:HG	1:158:A:LEU:HB3	2	0.2
(2,1296)	1:158:A:LEU:HG	1:158:A:LEU:HB3	4	0.2
(2,1296)	1:158:A:LEU:HG	1:158:A:LEU:HB3	5	0.2
(2,1296)	1:158:A:LEU:HG	1:158:A:LEU:HB3	7	0.2
(2,1296)	1:158:A:LEU:HG	1:158:A:LEU:HB3	10	0.2
(2,1282)	1:44:A:VAL:HB	1:26:A:ILE:HG22	5	0.2
(2,1273)	1:140:A:ARG:HB2	1:140:A:ARG:HB3	1	0.2
(2,1273)	1:161:A:ARG:HB2	1:161:A:ARG:HB3	4	0.2
(2,1273)	1:140:A:ARG:HB2	1:140:A:ARG:HB3	5	0.2
(2,1273)	1:161:A:ARG:HB2	1:161:A:ARG:HB3	8	0.2
(2,1273)	1:140:A:ARG:HB2	1:140:A:ARG:HB3	10	0.2
(2,1254)	1:58:A:GLN:HB3	1:58:A:GLN:HG2	1	0.2
(2,1240)	1:40:A:GLU:HB3	1:36:A:ILE:HG12	2	0.2
(2,1224)	1:85:A:MET:HG2	1:85:A:MET:HB2	10	0.2
(2,1222)	1:3:A:ASP:HB3	1:6:A:LYS:HB2	10	0.2
(2,1203)	1:145:A:ARG:HA	1:147:A:ARG:HD3	1	0.2
(2,1144)	1:35:A:SER:HA	1:71:A:THR:HB	6	0.2
(2,1129)	1:36:A:ILE:HD12	1:77:A:PHE:HE1	2	0.2
(2,1095)	1:36:A:ILE:HG23	1:40:A:GLU:HG3	8	0.2
(2,1094)	1:40:A:GLU:HG2	1:36:A:ILE:HG21	7	0.2
(2,1069)	1:16:A:GLN:HA	1:12:A:LEU:HD22	5	0.2
(2,996)	1:11:A:GLN:HB3	1:8:A:ALA:HA	4	0.2
(2,996)	1:11:A:GLN:HB3	1:8:A:ALA:HA	8	0.2
(2,994)	1:4:A:ILE:HA	1:7:A:ALA:HB2	7	0.2
(2,941)	1:36:A:ILE:HD12	1:36:A:ILE:HA	3	0.2
(2,929)	1:36:A:ILE:HD11	1:27:A:PHE:HD1	8	0.2
(2,893)	1:34:A:GLY:HA3	1:28:A:VAL:HG21	9	0.2
(2,891)	1:35:A:SER:HA	1:28:A:VAL:HG23	9	0.2
(2,890)	1:28:A:VAL:HG21	1:24:A:PHE:HD1	7	0.2
(2,888)	1:78:A:LEU:HD21	1:12:A:LEU:HD12	6	0.2
(2,813)	1:26:A:ILE:HA	1:26:A:ILE:HG23	2	0.2
(2,804)	1:23:A:ALA:HA	1:26:A:ILE:HG22	2	0.2
(2,804)	1:23:A:ALA:HA	1:26:A:ILE:HG21	8	0.2
(2,674)	1:157:A:LEU:HB2	1:157:A:LEU:HD21	7	0.2
(2,655)	1:143:A:LEU:HG	1:142:A:THR:HG22	7	0.2
(2,625)	1:45:A:MET:HE2	1:50:A:GLN:HG3	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,603)	1:44:A:VAL:HB	1:27:A:PHE:HD1	3	0.2
(2,603)	1:44:A:VAL:HB	1:27:A:PHE:HD1	9	0.2
(2,514)	1:1:A:MET:HE3	1:76:A:GLU:HG3	7	0.2
(2,498)	1:10:A:GLU:HG3	1:10:A:GLU:HB2	4	0.2
(2,498)	1:10:A:GLU:HG3	1:10:A:GLU:HB2	9	0.2
(2,491)	1:79:A:VAL:HB	1:83:A:ARG:HG3	7	0.2
(2,466)	1:72:A:VAL:HB	1:61:A:ILE:HG22	5	0.2
(2,463)	1:64:A:VAL:HB	1:72:A:VAL:HB	1	0.2
(2,448)	1:15:A:GLU:HG2	1:15:A:GLU:HB3	8	0.2
(2,442)	1:15:A:GLU:HG3	1:18:A:ASN:HB2	1	0.2
(2,435)	1:16:A:GLN:HB3	1:12:A:LEU:HD22	8	0.2
(2,418)	1:63:A:GLU:HG2	1:64:A:VAL:HG12	7	0.2
(2,407)	1:52:A:PRO:HD3	1:51:A:ASN:HB3	9	0.2
(2,399)	1:47:A:MET:HA	1:47:A:MET:HG3	4	0.2
(2,383)	1:75:A:ASP:HB2	1:1:A:MET:HE2	8	0.2
(2,360)	1:25:A:ASP:HB2	1:28:A:VAL:HG22	3	0.2
(2,326)	1:141:A:PRO:HD2	1:140:A:ARG:HD3	9	0.2
(2,313)	1:77:A:PHE:HB2	1:72:A:VAL:HG12	2	0.2
(2,313)	1:77:A:PHE:HB2	1:72:A:VAL:HG11	5	0.2
(2,224)	1:82:A:VAL:HA	1:85:A:MET:HG2	2	0.2
(2,175)	1:155:A:GLN:HA	1:155:A:GLN:HB3	5	0.2
(2,110)	1:66:A:GLU:HA	1:66:A:GLU:HB3	1	0.2
(2,110)	1:66:A:GLU:HA	1:66:A:GLU:HB3	2	0.2
(2,110)	1:66:A:GLU:HA	1:66:A:GLU:HB3	4	0.2
(2,110)	1:66:A:GLU:HA	1:66:A:GLU:HB3	5	0.2
(2,110)	1:66:A:GLU:HA	1:66:A:GLU:HB3	7	0.2
(2,110)	1:66:A:GLU:HA	1:66:A:GLU:HB3	8	0.2
(2,69)	1:13:A:THR:HA	1:14:A:GLU:HB3	3	0.2
(2,1421)	1:15:A:GLU:HB2	1:18:A:ASN:HB3	9	0.19
(2,1399)	1:44:A:VAL:HG13	1:26:A:ILE:HG21	2	0.19
(2,1364)	1:58:A:GLN:HA	1:61:A:ILE:HG22	6	0.19
(2,1346)	1:54:A:PRO:HA	1:57:A:LEU:HD11	5	0.19
(2,1331)	1:79:A:VAL:HG22	1:2:A:ASP:HB2	5	0.19
(2,1273)	1:140:A:ARG:HB2	1:140:A:ARG:HB3	2	0.19
(2,1273)	1:140:A:ARG:HB2	1:140:A:ARG:HB3	3	0.19
(2,1273)	1:140:A:ARG:HB2	1:140:A:ARG:HB3	6	0.19
(2,1273)	1:140:A:ARG:HB2	1:140:A:ARG:HB3	7	0.19
(2,1273)	1:140:A:ARG:HB2	1:140:A:ARG:HB3	9	0.19
(2,1252)	1:155:A:GLN:HA	1:155:A:GLN:HB3	5	0.19
(2,1246)	1:47:A:MET:HB3	1:48:A:LEU:HD23	2	0.19
(2,1240)	1:40:A:GLU:HB3	1:36:A:ILE:HG12	1	0.19
(2,1211)	1:18:A:ASN:HB3	1:19:A:GLU:HB2	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1208)	1:90:A:LYS:HE3	1:90:A:LYS:HD2	3	0.19
(2,1208)	1:90:A:LYS:HE2	1:90:A:LYS:HD3	7	0.19
(2,1167)	1:45:A:MET:HA	1:48:A:LEU:HD11	5	0.19
(2,1088)	1:29:A:LEU:HD12	1:29:A:LEU:HB3	7	0.19
(2,1053)	1:18:A:ASN:HA	1:21:A:LYS:HD3	5	0.19
(2,1019)	1:78:A:LEU:HD23	1:17:A:LYS:HA	2	0.19
(2,996)	1:11:A:GLN:HB3	1:8:A:ALA:HA	6	0.19
(2,995)	1:8:A:ALA:HA	1:4:A:ILE:HD11	9	0.19
(2,968)	1:8:A:ALA:HA	1:85:A:MET:HE2	6	0.19
(2,941)	1:36:A:ILE:HD12	1:36:A:ILE:HA	8	0.19
(2,941)	1:36:A:ILE:HD12	1:36:A:ILE:HA	9	0.19
(2,929)	1:36:A:ILE:HD11	1:27:A:PHE:HD1	4	0.19
(2,920)	1:44:A:VAL:HG13	1:45:A:MET:HG2	9	0.19
(2,919)	1:44:A:VAL:HG13	1:153:A:MET:HG2	2	0.19
(2,918)	1:44:A:VAL:HG12	1:27:A:PHE:HA	8	0.19
(2,893)	1:34:A:GLY:HA3	1:28:A:VAL:HG23	2	0.19
(2,843)	1:64:A:VAL:HG21	1:64:A:VAL:HG12	7	0.19
(2,832)	1:36:A:ILE:HG23	1:40:A:GLU:HB3	3	0.19
(2,761)	1:12:A:LEU:HD13	1:12:A:LEU:HA	9	0.19
(2,742)	1:35:A:SER:HB2	1:71:A:THR:HG22	2	0.19
(2,679)	1:148:A:ILE:HG13	1:148:A:ILE:HG23	4	0.19
(2,679)	1:148:A:ILE:HG13	1:148:A:ILE:HG21	6	0.19
(2,674)	1:157:A:LEU:HB2	1:157:A:LEU:HD21	4	0.19
(2,657)	1:137:A:LYS:HD2	1:137:A:LYS:HA	6	0.19
(2,640)	1:6:A:LYS:HD2	1:6:A:LYS:HA	2	0.19
(2,621)	1:52:A:PRO:HD2	1:45:A:MET:HE2	2	0.19
(2,582)	1:45:A:MET:HA	1:48:A:LEU:HG	8	0.19
(2,521)	1:14:A:GLU:HB2	1:14:A:GLU:HA	5	0.19
(2,498)	1:10:A:GLU:HG3	1:10:A:GLU:HB2	5	0.19
(2,489)	1:10:A:GLU:HG2	1:10:A:GLU:HB3	4	0.19
(2,489)	1:10:A:GLU:HG2	1:10:A:GLU:HB3	6	0.19
(2,489)	1:10:A:GLU:HG2	1:10:A:GLU:HB3	9	0.19
(2,485)	1:153:A:MET:HE2	1:157:A:LEU:HD22	4	0.19
(2,485)	1:153:A:MET:HE2	1:157:A:LEU:HD22	7	0.19
(2,466)	1:72:A:VAL:HB	1:61:A:ILE:HG23	7	0.19
(2,448)	1:15:A:GLU:HG2	1:15:A:GLU:HB3	7	0.19
(2,448)	1:15:A:GLU:HG2	1:15:A:GLU:HB3	9	0.19
(2,435)	1:16:A:GLN:HB3	1:12:A:LEU:HD21	1	0.19
(2,383)	1:75:A:ASP:HB2	1:1:A:MET:HE1	10	0.19
(2,381)	1:2:A:ASP:HB2	1:5:A:TYR:HE1	5	0.19
(2,360)	1:25:A:ASP:HB2	1:28:A:VAL:HG21	5	0.19
(2,313)	1:77:A:PHE:HB2	1:72:A:VAL:HG11	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,303)	1:24:A:PHE:HA	1:74:A:PHE:HD1	10	0.19
(2,245)	1:36:A:ILE:HA	1:40:A:GLU:HG2	1	0.19
(2,188)	1:159:A:GLY:HA2	1:160:A:ALA:HB1	3	0.19
(2,177)	1:57:A:LEU:HA	1:60:A:MET:HE1	1	0.19
(2,175)	1:155:A:GLN:HA	1:155:A:GLN:HB3	3	0.19
(2,175)	1:155:A:GLN:HA	1:155:A:GLN:HB3	9	0.19
(2,174)	1:55:A:GLU:HA	1:58:A:GLN:HB3	10	0.19
(2,133)	1:137:A:LYS:HA	1:137:A:LYS:HB2	10	0.19
(2,116)	1:41:A:LEU:HA	1:44:A:VAL:HG11	10	0.19
(2,57)	1:64:A:VAL:HA	1:64:A:VAL:HG21	7	0.19
(2,1416)	1:35:A:SER:HA	1:36:A:ILE:HB	7	0.18
(2,1416)	1:35:A:SER:HA	1:36:A:ILE:HB	10	0.18
(2,1374)	1:28:A:VAL:HG23	1:36:A:ILE:HA	9	0.18
(2,1337)	1:16:A:GLN:HG2	1:12:A:LEU:HD22	7	0.18
(2,1324)	1:82:A:VAL:HG22	1:83:A:ARG:HG3	5	0.18
(2,1300)	1:150:A:ALA:HA	1:150:A:ALA:HB1	3	0.18
(2,1300)	1:150:A:ALA:HA	1:150:A:ALA:HB3	5	0.18
(2,1253)	1:79:A:VAL:HB	1:76:A:GLU:HA	4	0.18
(2,1252)	1:155:A:GLN:HA	1:155:A:GLN:HB3	3	0.18
(2,1252)	1:155:A:GLN:HA	1:155:A:GLN:HB3	9	0.18
(2,1243)	1:32:A:GLU:HA	1:32:A:GLU:HG2	7	0.18
(2,1240)	1:40:A:GLU:HB3	1:36:A:ILE:HG12	10	0.18
(2,1211)	1:18:A:ASN:HB3	1:19:A:GLU:HB2	4	0.18
(2,1211)	1:18:A:ASN:HB3	1:19:A:GLU:HB2	6	0.18
(2,1174)	1:150:A:ALA:HA	1:148:A:ILE:HD12	6	0.18
(2,1133)	1:37:A:SER:HB3	1:36:A:ILE:HG21	6	0.18
(2,1118)	1:65:A:ASP:HB3	1:64:A:VAL:HG22	5	0.18
(2,1117)	1:65:A:ASP:HA	1:72:A:VAL:HG12	9	0.18
(2,1088)	1:29:A:LEU:HD13	1:29:A:LEU:HB3	9	0.18
(2,1084)	1:28:A:VAL:HG12	1:27:A:PHE:HA	9	0.18
(2,1060)	1:10:A:GLU:HA	1:9:A:VAL:HG13	4	0.18
(2,1060)	1:10:A:GLU:HA	1:9:A:VAL:HG12	9	0.18
(2,1053)	1:18:A:ASN:HA	1:21:A:LYS:HD3	4	0.18
(2,1049)	1:44:A:VAL:HG21	1:41:A:LEU:HA	3	0.18
(2,1008)	1:78:A:LEU:HD11	1:12:A:LEU:HB3	6	0.18
(2,996)	1:11:A:GLN:HB3	1:8:A:ALA:HA	9	0.18
(2,991)	1:60:A:MET:HG3	1:45:A:MET:HE3	8	0.18
(2,941)	1:36:A:ILE:HD13	1:36:A:ILE:HA	10	0.18
(2,929)	1:36:A:ILE:HD12	1:27:A:PHE:HD1	10	0.18
(2,905)	1:4:A:ILE:HG13	1:4:A:ILE:HG22	3	0.18
(2,905)	1:4:A:ILE:HG13	1:4:A:ILE:HG23	6	0.18
(2,893)	1:34:A:GLY:HA3	1:28:A:VAL:HG22	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,888)	1:78:A:LEU:HD22	1:12:A:LEU:HD11	2	0.18
(2,859)	1:57:A:LEU:HD21	1:45:A:MET:HB2	6	0.18
(2,847)	1:61:A:ILE:HG12	1:61:A:ILE:HG21	8	0.18
(2,846)	1:65:A:ASP:HB3	1:61:A:ILE:HG22	3	0.18
(2,761)	1:12:A:LEU:HD11	1:12:A:LEU:HA	7	0.18
(2,742)	1:35:A:SER:HB2	1:71:A:THR:HG22	8	0.18
(2,716)	1:72:A:VAL:HA	1:72:A:VAL:HG11	8	0.18
(2,679)	1:148:A:ILE:HG13	1:148:A:ILE:HG22	2	0.18
(2,674)	1:157:A:LEU:HB2	1:157:A:LEU:HD21	5	0.18
(2,674)	1:157:A:LEU:HB2	1:157:A:LEU:HD23	9	0.18
(2,643)	1:139:A:LYS:HE2	1:140:A:ARG:HG2	1	0.18
(2,639)	1:3:A:ASP:HA	1:6:A:LYS:HD2	2	0.18
(2,625)	1:45:A:MET:HE2	1:50:A:GLN:HG3	7	0.18
(2,625)	1:45:A:MET:HE3	1:50:A:GLN:HG3	9	0.18
(2,603)	1:44:A:VAL:HB	1:27:A:PHE:HD1	6	0.18
(2,521)	1:14:A:GLU:HB3	1:14:A:GLU:HA	7	0.18
(2,520)	1:32:A:GLU:HA	1:32:A:GLU:HB3	5	0.18
(2,520)	1:32:A:GLU:HA	1:32:A:GLU:HB3	9	0.18
(2,518)	1:140:A:ARG:HA	1:141:A:PRO:HG3	3	0.18
(2,497)	1:79:A:VAL:HA	1:79:A:VAL:HB	1	0.18
(2,497)	1:79:A:VAL:HA	1:79:A:VAL:HB	3	0.18
(2,497)	1:79:A:VAL:HA	1:79:A:VAL:HB	4	0.18
(2,497)	1:79:A:VAL:HA	1:79:A:VAL:HB	5	0.18
(2,497)	1:79:A:VAL:HA	1:79:A:VAL:HB	6	0.18
(2,497)	1:79:A:VAL:HA	1:79:A:VAL:HB	8	0.18
(2,497)	1:79:A:VAL:HA	1:79:A:VAL:HB	9	0.18
(2,497)	1:79:A:VAL:HA	1:79:A:VAL:HB	10	0.18
(2,489)	1:10:A:GLU:HG2	1:10:A:GLU:HB3	8	0.18
(2,463)	1:64:A:VAL:HB	1:72:A:VAL:HB	9	0.18
(2,448)	1:15:A:GLU:HG2	1:15:A:GLU:HB3	2	0.18
(2,399)	1:47:A:MET:HA	1:47:A:MET:HG3	7	0.18
(2,390)	1:151:A:ASP:HA	1:151:A:ASP:HB2	7	0.18
(2,358)	1:62:A:ASP:HB2	1:61:A:ILE:HB	5	0.18
(2,303)	1:24:A:PHE:HA	1:74:A:PHE:HD1	1	0.18
(2,303)	1:24:A:PHE:HA	1:74:A:PHE:HD1	2	0.18
(2,303)	1:24:A:PHE:HA	1:74:A:PHE:HD1	9	0.18
(2,237)	1:141:A:PRO:HD3	1:140:A:ARG:HB2	2	0.18
(2,224)	1:82:A:VAL:HA	1:85:A:MET:HG2	8	0.18
(2,194)	1:76:A:GLU:HA	1:79:A:VAL:HG22	3	0.18
(2,175)	1:155:A:GLN:HA	1:155:A:GLN:HB3	7	0.18
(2,119)	1:47:A:MET:HA	1:44:A:VAL:HA	6	0.18
(2,110)	1:66:A:GLU:HA	1:66:A:GLU:HB3	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,99)	1:163:A:LYS:HA	1:164:A:GLY:HA3	7	0.18
(2,99)	1:163:A:LYS:HA	1:164:A:GLY:HA2	10	0.18
(2,81)	1:85:A:MET:HA	1:85:A:MET:HB3	4	0.18
(2,57)	1:64:A:VAL:HA	1:64:A:VAL:HG21	4	0.18
(2,41)	1:140:A:ARG:HA	1:140:A:ARG:HD3	10	0.18
(2,1384)	1:71:A:THR:HB	1:37:A:SER:HB3	5	0.17
(2,1368)	1:157:A:LEU:HD22	1:153:A:MET:HA	9	0.17
(2,1367)	1:37:A:SER:HB2	1:61:A:ILE:HD11	10	0.17
(2,1361)	1:41:A:LEU:HD22	1:61:A:ILE:HG13	6	0.17
(2,1357)	1:48:A:LEU:HG	1:48:A:LEU:HD23	5	0.17
(2,1357)	1:48:A:LEU:HG	1:48:A:LEU:HD23	9	0.17
(2,1324)	1:82:A:VAL:HG22	1:83:A:ARG:HG3	1	0.17
(2,1310)	1:57:A:LEU:HA	1:38:A:THR:HG22	5	0.17
(2,1290)	1:143:A:LEU:HB2	1:143:A:LEU:HD22	7	0.17
(2,1282)	1:44:A:VAL:HB	1:26:A:ILE:HG21	2	0.17
(2,1252)	1:155:A:GLN:HA	1:155:A:GLN:HB3	7	0.17
(2,1222)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	4	0.17
(2,1222)	1:3:A:ASP:HB3	1:6:A:LYS:HB2	7	0.17
(2,1203)	1:145:A:ARG:HA	1:147:A:ARG:HD3	3	0.17
(2,1167)	1:45:A:MET:HA	1:48:A:LEU:HD11	10	0.17
(2,1148)	1:65:A:ASP:HA	1:64:A:VAL:HG22	9	0.17
(2,1133)	1:37:A:SER:HB3	1:36:A:ILE:HG21	10	0.17
(2,1129)	1:36:A:ILE:HD11	1:77:A:PHE:HE1	6	0.17
(2,1118)	1:65:A:ASP:HB3	1:64:A:VAL:HG23	8	0.17
(2,1053)	1:18:A:ASN:HA	1:21:A:LYS:HD3	3	0.17
(2,1053)	1:18:A:ASN:HA	1:21:A:LYS:HD3	10	0.17
(2,1025)	1:35:A:SER:HA	1:73:A:ASP:HB2	3	0.17
(2,1024)	1:28:A:VAL:HG12	1:35:A:SER:HB3	5	0.17
(2,962)	1:36:A:ILE:HB	1:61:A:ILE:HD11	9	0.17
(2,905)	1:4:A:ILE:HG13	1:4:A:ILE:HG22	2	0.17
(2,905)	1:4:A:ILE:HG13	1:4:A:ILE:HG21	5	0.17
(2,905)	1:4:A:ILE:HG13	1:4:A:ILE:HG23	7	0.17
(2,894)	1:28:A:VAL:HG22	1:27:A:PHE:HB3	5	0.17
(2,891)	1:35:A:SER:HA	1:28:A:VAL:HG22	10	0.17
(2,876)	1:78:A:LEU:HD23	1:77:A:PHE:HE1	6	0.17
(2,832)	1:36:A:ILE:HG21	1:40:A:GLU:HB3	10	0.17
(2,789)	1:146:A:VAL:HG23	1:147:A:ARG:HD2	1	0.17
(2,764)	1:9:A:VAL:HB	1:9:A:VAL:HG23	8	0.17
(2,721)	1:72:A:VAL:HG11	1:36:A:ILE:HD13	6	0.17
(2,662)	1:22:A:ALA:HB2	1:22:A:ALA:HA	5	0.17
(2,662)	1:22:A:ALA:HB1	1:22:A:ALA:HA	6	0.17
(2,657)	1:137:A:LYS:HD3	1:137:A:LYS:HA	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,657)	1:137:A:LYS:HD3	1:137:A:LYS:HA	8	0.17
(2,625)	1:45:A:MET:HE2	1:50:A:GLN:HG3	2	0.17
(2,601)	1:139:A:LYS:HB2	1:139:A:LYS:HG3	9	0.17
(2,577)	1:161:A:ARG:HB2	1:158:A:LEU:HD23	3	0.17
(2,520)	1:32:A:GLU:HA	1:32:A:GLU:HB3	1	0.17
(2,520)	1:32:A:GLU:HA	1:32:A:GLU:HB3	3	0.17
(2,520)	1:32:A:GLU:HA	1:32:A:GLU:HB3	4	0.17
(2,520)	1:32:A:GLU:HA	1:32:A:GLU:HB3	6	0.17
(2,520)	1:32:A:GLU:HA	1:32:A:GLU:HB3	7	0.17
(2,497)	1:79:A:VAL:HA	1:79:A:VAL:HB	2	0.17
(2,497)	1:79:A:VAL:HA	1:79:A:VAL:HB	7	0.17
(2,489)	1:10:A:GLU:HG2	1:10:A:GLU:HB3	3	0.17
(2,489)	1:10:A:GLU:HG2	1:10:A:GLU:HB3	7	0.17
(2,407)	1:52:A:PRO:HD3	1:51:A:ASN:HB3	10	0.17
(2,360)	1:25:A:ASP:HB2	1:28:A:VAL:HG23	1	0.17
(2,360)	1:25:A:ASP:HB2	1:28:A:VAL:HG22	9	0.17
(2,358)	1:62:A:ASP:HB2	1:61:A:ILE:HB	6	0.17
(2,335)	1:139:A:LYS:HE2	1:139:A:LYS:HG2	7	0.17
(2,278)	1:71:A:THR:HB	1:35:A:SER:HB3	5	0.17
(2,278)	1:71:A:THR:HB	1:35:A:SER:HB3	8	0.17
(2,278)	1:71:A:THR:HB	1:35:A:SER:HB3	9	0.17
(2,271)	1:44:A:VAL:HA	1:47:A:MET:HB2	4	0.17
(2,270)	1:44:A:VAL:HA	1:47:A:MET:HG3	4	0.17
(2,270)	1:44:A:VAL:HA	1:47:A:MET:HG3	7	0.17
(2,257)	1:38:A:THR:HA	1:57:A:LEU:HD12	2	0.17
(2,242)	1:83:A:ARG:HA	1:83:A:ARG:HG3	2	0.17
(2,233)	1:83:A:ARG:HA	1:5:A:TYR:HD1	4	0.17
(2,217)	1:4:A:ILE:HA	1:4:A:ILE:HD13	1	0.17
(2,217)	1:4:A:ILE:HA	1:4:A:ILE:HD13	10	0.17
(2,194)	1:76:A:GLU:HA	1:79:A:VAL:HG21	10	0.17
(2,182)	1:150:A:ALA:HA	1:148:A:ILE:HG22	2	0.17
(2,175)	1:155:A:GLN:HA	1:155:A:GLN:HB3	1	0.17
(2,175)	1:155:A:GLN:HA	1:155:A:GLN:HB3	2	0.17
(2,175)	1:155:A:GLN:HA	1:155:A:GLN:HB3	4	0.17
(2,175)	1:155:A:GLN:HA	1:155:A:GLN:HB3	8	0.17
(2,144)	1:40:A:GLU:HA	1:43:A:LYS:HD2	10	0.17
(2,119)	1:47:A:MET:HA	1:44:A:VAL:HA	10	0.17
(2,99)	1:163:A:LYS:HA	1:164:A:GLY:HA2	2	0.17
(2,99)	1:163:A:LYS:HA	1:164:A:GLY:HA3	6	0.17
(2,57)	1:64:A:VAL:HA	1:64:A:VAL:HG21	10	0.17
(2,49)	1:18:A:ASN:HA	1:21:A:LYS:HG2	5	0.17
(2,42)	1:2:A:ASP:HA	1:2:A:ASP:HB3	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1429)	1:27:A:PHE:HA	1:27:A:PHE:HD1	3	0.16
(2,1426)	1:24:A:PHE:HA	1:21:A:LYS:HD2	10	0.16
(2,1425)	1:19:A:GLU:HA	1:21:A:LYS:HB3	1	0.16
(2,1416)	1:35:A:SER:HA	1:36:A:ILE:HB	2	0.16
(2,1416)	1:35:A:SER:HA	1:36:A:ILE:HB	8	0.16
(2,1416)	1:35:A:SER:HA	1:36:A:ILE:HB	9	0.16
(2,1401)	1:85:A:MET:HG3	1:82:A:VAL:HG21	6	0.16
(2,1377)	1:44:A:VAL:HG12	1:47:A:MET:HG3	7	0.16
(2,1367)	1:38:A:THR:HB	1:61:A:ILE:HD13	6	0.16
(2,1303)	1:90:A:LYS:HB2	1:90:A:LYS:HG3	5	0.16
(2,1252)	1:155:A:GLN:HA	1:155:A:GLN:HB3	1	0.16
(2,1252)	1:155:A:GLN:HA	1:155:A:GLN:HB3	4	0.16
(2,1252)	1:155:A:GLN:HA	1:155:A:GLN:HB3	8	0.16
(2,1246)	1:47:A:MET:HB3	1:48:A:LEU:HD21	1	0.16
(2,1244)	1:15:A:GLU:HG3	1:18:A:ASN:HB3	5	0.16
(2,1148)	1:65:A:ASP:HA	1:64:A:VAL:HG23	2	0.16
(2,1141)	1:72:A:VAL:HA	1:61:A:ILE:HG22	9	0.16
(2,1049)	1:44:A:VAL:HG22	1:41:A:LEU:HA	10	0.16
(2,1010)	1:78:A:LEU:HA	1:81:A:MET:HB2	9	0.16
(2,989)	1:52:A:PRO:HA	1:45:A:MET:HE1	3	0.16
(2,941)	1:36:A:ILE:HD13	1:36:A:ILE:HA	2	0.16
(2,929)	1:36:A:ILE:HD11	1:27:A:PHE:HD1	9	0.16
(2,891)	1:35:A:SER:HA	1:28:A:VAL:HG23	6	0.16
(2,890)	1:28:A:VAL:HG22	1:24:A:PHE:HD1	6	0.16
(2,876)	1:78:A:LEU:HD21	1:77:A:PHE:HE1	1	0.16
(2,824)	1:158:A:LEU:HD11	1:158:A:LEU:HD21	10	0.16
(2,763)	1:6:A:LYS:HE3	1:9:A:VAL:HG23	6	0.16
(2,742)	1:35:A:SER:HB2	1:71:A:THR:HG21	3	0.16
(2,679)	1:148:A:ILE:HG13	1:148:A:ILE:HG23	3	0.16
(2,662)	1:22:A:ALA:HB2	1:22:A:ALA:HA	8	0.16
(2,660)	1:137:A:LYS:HD3	1:137:A:LYS:HG2	10	0.16
(2,657)	1:137:A:LYS:HD2	1:137:A:LYS:HA	1	0.16
(2,626)	1:52:A:PRO:HB2	1:52:A:PRO:HG3	6	0.16
(2,625)	1:45:A:MET:HE1	1:50:A:GLN:HG3	1	0.16
(2,579)	1:51:A:ASN:HA	1:52:A:PRO:HG2	6	0.16
(2,489)	1:10:A:GLU:HG2	1:10:A:GLU:HB3	1	0.16
(2,466)	1:72:A:VAL:HB	1:61:A:ILE:HG21	3	0.16
(2,457)	1:53:A:THR:HA	1:54:A:PRO:HG2	10	0.16
(2,446)	1:15:A:GLU:HG2	1:13:A:THR:HG21	7	0.16
(2,407)	1:52:A:PRO:HD3	1:51:A:ASN:HB3	1	0.16
(2,407)	1:52:A:PRO:HD3	1:51:A:ASN:HB3	3	0.16
(2,391)	1:151:A:ASP:HB2	1:152:A:ALA:HA	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,381)	1:2:A:ASP:HB2	1:5:A:TYR:HE1	7	0.16
(2,360)	1:25:A:ASP:HB2	1:28:A:VAL:HG21	6	0.16
(2,321)	1:52:A:PRO:HD2	1:50:A:GLN:HB3	6	0.16
(2,303)	1:24:A:PHE:HA	1:74:A:PHE:HD1	6	0.16
(2,278)	1:71:A:THR:HB	1:35:A:SER:HB3	1	0.16
(2,278)	1:71:A:THR:HB	1:35:A:SER:HB3	4	0.16
(2,236)	1:141:A:PRO:HD3	1:141:A:PRO:HB3	2	0.16
(2,224)	1:82:A:VAL:HA	1:85:A:MET:HG2	9	0.16
(2,202)	1:149:A:SER:HB3	1:152:A:ALA:HB2	5	0.16
(2,182)	1:150:A:ALA:HA	1:148:A:ILE:HG23	4	0.16
(2,176)	1:57:A:LEU:HA	1:57:A:LEU:HB3	1	0.16
(2,148)	1:10:A:GLU:HA	1:10:A:GLU:HG2	9	0.16
(2,144)	1:40:A:GLU:HA	1:43:A:LYS:HD2	8	0.16
(2,119)	1:47:A:MET:HA	1:44:A:VAL:HA	5	0.16
(2,90)	1:11:A:GLN:HA	1:11:A:GLN:HB2	6	0.16
(2,88)	1:62:A:ASP:HA	1:61:A:ILE:HG23	9	0.16
(2,79)	1:158:A:LEU:HA	1:158:A:LEU:HG	4	0.16
(2,27)	1:35:A:SER:HA	1:73:A:ASP:HB3	6	0.16
(2,20)	1:71:A:THR:HA	1:36:A:ILE:HA	9	0.16
(2,12)	1:73:A:ASP:HA	1:24:A:PHE:HD1	2	0.16
(2,12)	1:73:A:ASP:HA	1:24:A:PHE:HD1	3	0.16
(2,12)	1:73:A:ASP:HA	1:24:A:PHE:HD1	7	0.16
(2,1436)	1:61:A:ILE:HD13	1:37:A:SER:HB3	10	0.15
(2,1424)	1:47:A:MET:HA	1:48:A:LEU:HD21	1	0.15
(2,1424)	1:47:A:MET:HA	1:48:A:LEU:HD23	2	0.15
(2,1424)	1:47:A:MET:HA	1:48:A:LEU:HD21	10	0.15
(2,1416)	1:35:A:SER:HA	1:36:A:ILE:HB	1	0.15
(2,1416)	1:35:A:SER:HA	1:36:A:ILE:HB	3	0.15
(2,1386)	1:61:A:ILE:HD12	1:60:A:MET:HG3	7	0.15
(2,1366)	1:45:A:MET:HE3	1:57:A:LEU:HD23	8	0.15
(2,1364)	1:58:A:GLN:HA	1:61:A:ILE:HG22	7	0.15
(2,1357)	1:48:A:LEU:HG	1:48:A:LEU:HD21	6	0.15
(2,1325)	1:82:A:VAL:HG23	1:4:A:ILE:HD11	7	0.15
(2,1307)	1:7:A:ALA:HB3	1:11:A:GLN:HB2	3	0.15
(2,1307)	1:7:A:ALA:HB1	1:11:A:GLN:HB2	7	0.15
(2,1283)	1:43:A:LYS:HB2	1:43:A:LYS:HD3	5	0.15
(2,1282)	1:44:A:VAL:HB	1:26:A:ILE:HG23	7	0.15
(2,1252)	1:155:A:GLN:HA	1:155:A:GLN:HB3	2	0.15
(2,1244)	1:15:A:GLU:HG3	1:18:A:ASN:HB3	4	0.15
(2,1203)	1:145:A:ARG:HA	1:147:A:ARG:HD2	2	0.15
(2,1167)	1:45:A:MET:HA	1:48:A:LEU:HD13	7	0.15
(2,1108)	1:50:A:GLN:HA	1:52:A:PRO:HD2	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1094)	1:40:A:GLU:HG2	1:36:A:ILE:HG22	1	0.15
(2,1084)	1:28:A:VAL:HG11	1:27:A:PHE:HA	6	0.15
(2,1053)	1:18:A:ASN:HA	1:21:A:LYS:HD3	1	0.15
(2,1051)	1:41:A:LEU:HA	1:41:A:LEU:HD12	7	0.15
(2,1049)	1:44:A:VAL:HG21	1:41:A:LEU:HA	2	0.15
(2,1049)	1:44:A:VAL:HG21	1:41:A:LEU:HA	8	0.15
(2,1019)	1:78:A:LEU:HD23	1:17:A:LYS:HA	7	0.15
(2,1019)	1:78:A:LEU:HD22	1:17:A:LYS:HA	8	0.15
(2,996)	1:11:A:GLN:HB3	1:8:A:ALA:HA	2	0.15
(2,996)	1:11:A:GLN:HB3	1:8:A:ALA:HA	10	0.15
(2,958)	1:22:A:ALA:HB1	1:26:A:ILE:HD11	1	0.15
(2,947)	1:38:A:THR:HG21	1:61:A:ILE:HA	1	0.15
(2,929)	1:36:A:ILE:HD11	1:27:A:PHE:HD1	3	0.15
(2,927)	1:44:A:VAL:HG12	1:44:A:VAL:HG22	10	0.15
(2,918)	1:44:A:VAL:HG12	1:27:A:PHE:HA	4	0.15
(2,905)	1:4:A:ILE:HG13	1:4:A:ILE:HG23	10	0.15
(2,893)	1:34:A:GLY:HA3	1:28:A:VAL:HG23	10	0.15
(2,876)	1:78:A:LEU:HD21	1:77:A:PHE:HE1	7	0.15
(2,843)	1:64:A:VAL:HG21	1:64:A:VAL:HG11	9	0.15
(2,813)	1:26:A:ILE:HA	1:26:A:ILE:HG21	9	0.15
(2,780)	1:64:A:VAL:HG21	1:80:A:MET:HB3	5	0.15
(2,754)	1:5:A:TYR:HB2	1:79:A:VAL:HG21	8	0.15
(2,680)	1:40:A:GLU:HG3	1:31:A:ALA:HB3	10	0.15
(2,676)	1:34:A:GLY:HA3	1:31:A:ALA:HB3	5	0.15
(2,673)	1:8:A:ALA:HB1	1:82:A:VAL:HG11	9	0.15
(2,643)	1:139:A:LYS:HE2	1:140:A:ARG:HG3	4	0.15
(2,603)	1:44:A:VAL:HB	1:27:A:PHE:HD1	4	0.15
(2,558)	1:55:A:GLU:HB2	1:55:A:GLU:HG2	8	0.15
(2,548)	1:154:A:MET:HE2	1:158:A:LEU:HD23	7	0.15
(2,520)	1:32:A:GLU:HA	1:32:A:GLU:HB3	2	0.15
(2,488)	1:10:A:GLU:HA	1:10:A:GLU:HB3	1	0.15
(2,482)	1:19:A:GLU:HG2	1:22:A:ALA:HB3	5	0.15
(2,434)	1:19:A:GLU:HG3	1:158:A:LEU:HD13	1	0.15
(2,407)	1:52:A:PRO:HD3	1:51:A:ASN:HB3	4	0.15
(2,401)	1:33:A:ASP:HB3	1:32:A:GLU:HB3	8	0.15
(2,383)	1:75:A:ASP:HB2	1:1:A:MET:HE2	2	0.15
(2,381)	1:2:A:ASP:HB2	1:5:A:TYR:HE1	4	0.15
(2,327)	1:147:A:ARG:HD3	1:147:A:ARG:HB2	6	0.15
(2,326)	1:141:A:PRO:HD2	1:140:A:ARG:HD2	2	0.15
(2,261)	1:58:A:GLN:HA	1:58:A:GLN:HB2	5	0.15
(2,257)	1:38:A:THR:HA	1:57:A:LEU:HD11	1	0.15
(2,242)	1:83:A:ARG:HA	1:83:A:ARG:HG3	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,236)	1:141:A:PRO:HD3	1:141:A:PRO:HB3	3	0.15
(2,233)	1:83:A:ARG:HA	1:5:A:TYR:HD1	7	0.15
(2,217)	1:4:A:ILE:HA	1:4:A:ILE:HD12	4	0.15
(2,175)	1:155:A:GLN:HA	1:155:A:GLN:HB3	10	0.15
(2,142)	1:7:A:ALA:HA	1:10:A:GLU:HB2	7	0.15
(2,119)	1:47:A:MET:HA	1:44:A:VAL:HA	2	0.15
(2,112)	1:41:A:LEU:HA	1:41:A:LEU:HD21	4	0.15
(2,111)	1:157:A:LEU:HA	1:157:A:LEU:HB2	2	0.15
(2,90)	1:11:A:GLN:HA	1:11:A:GLN:HB2	3	0.15
(2,90)	1:11:A:GLN:HA	1:11:A:GLN:HB2	4	0.15
(2,90)	1:11:A:GLN:HA	1:11:A:GLN:HB2	8	0.15
(2,90)	1:11:A:GLN:HA	1:11:A:GLN:HB2	10	0.15
(2,79)	1:158:A:LEU:HA	1:158:A:LEU:HG	2	0.15
(2,1429)	1:27:A:PHE:HA	1:27:A:PHE:HD1	6	0.14
(2,1382)	1:61:A:ILE:HD11	1:58:A:GLN:HG3	10	0.14
(2,1374)	1:28:A:VAL:HG23	1:36:A:ILE:HA	8	0.14
(2,1368)	1:157:A:LEU:HD22	1:153:A:MET:HA	6	0.14
(2,1331)	1:79:A:VAL:HG21	1:2:A:ASP:HB2	6	0.14
(2,1214)	1:6:A:LYS:HE3	1:9:A:VAL:HG23	6	0.14
(2,1211)	1:18:A:ASN:HB3	1:19:A:GLU:HB2	1	0.14
(2,1200)	1:52:A:PRO:HD2	1:52:A:PRO:HB2	6	0.14
(2,1167)	1:45:A:MET:HA	1:48:A:LEU:HD13	3	0.14
(2,1088)	1:29:A:LEU:HD13	1:29:A:LEU:HB3	4	0.14
(2,1059)	1:12:A:LEU:HG	1:9:A:VAL:HA	1	0.14
(2,1049)	1:44:A:VAL:HG23	1:41:A:LEU:HA	1	0.14
(2,991)	1:60:A:MET:HG3	1:45:A:MET:HE2	6	0.14
(2,983)	1:154:A:MET:HE3	1:20:A:PHE:HB3	7	0.14
(2,968)	1:8:A:ALA:HA	1:85:A:MET:HE1	5	0.14
(2,947)	1:38:A:THR:HG23	1:61:A:ILE:HA	9	0.14
(2,920)	1:44:A:VAL:HG12	1:45:A:MET:HG2	2	0.14
(2,905)	1:4:A:ILE:HG13	1:4:A:ILE:HG23	1	0.14
(2,893)	1:34:A:GLY:HA3	1:28:A:VAL:HG23	6	0.14
(2,813)	1:26:A:ILE:HA	1:26:A:ILE:HG23	1	0.14
(2,761)	1:12:A:LEU:HD13	1:12:A:LEU:HA	3	0.14
(2,673)	1:8:A:ALA:HB2	1:82:A:VAL:HG11	3	0.14
(2,671)	1:8:A:ALA:HB1	1:5:A:TYR:HB3	9	0.14
(2,662)	1:22:A:ALA:HB3	1:22:A:ALA:HA	1	0.14
(2,662)	1:22:A:ALA:HB2	1:22:A:ALA:HA	10	0.14
(2,604)	1:161:A:ARG:HB3	1:161:A:ARG:HD3	1	0.14
(2,593)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	8	0.14
(2,545)	1:43:A:LYS:HB2	1:43:A:LYS:HD3	5	0.14
(2,489)	1:10:A:GLU:HG2	1:10:A:GLU:HB3	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,488)	1:10:A:GLU:HA	1:10:A:GLU:HB3	3	0.14
(2,488)	1:10:A:GLU:HA	1:10:A:GLU:HB3	7	0.14
(2,485)	1:153:A:MET:HE2	1:157:A:LEU:HD21	9	0.14
(2,358)	1:62:A:ASP:HB2	1:61:A:ILE:HB	8	0.14
(2,358)	1:62:A:ASP:HB2	1:61:A:ILE:HB	9	0.14
(2,296)	1:70:A:GLY:HA2	1:71:A:THR:HG22	7	0.14
(2,283)	1:52:A:PRO:HD3	1:57:A:LEU:HD23	8	0.14
(2,257)	1:38:A:THR:HA	1:57:A:LEU:HD13	6	0.14
(2,245)	1:36:A:ILE:HA	1:40:A:GLU:HG2	3	0.14
(2,241)	1:83:A:ARG:HA	1:83:A:ARG:HB2	1	0.14
(2,241)	1:83:A:ARG:HA	1:83:A:ARG:HB2	4	0.14
(2,241)	1:83:A:ARG:HA	1:83:A:ARG:HB2	7	0.14
(2,241)	1:83:A:ARG:HA	1:83:A:ARG:HB2	8	0.14
(2,236)	1:141:A:PRO:HD3	1:141:A:PRO:HB3	4	0.14
(2,236)	1:141:A:PRO:HD3	1:141:A:PRO:HB3	8	0.14
(2,236)	1:141:A:PRO:HD3	1:141:A:PRO:HB3	10	0.14
(2,217)	1:4:A:ILE:HA	1:4:A:ILE:HD13	3	0.14
(2,217)	1:4:A:ILE:HA	1:4:A:ILE:HD13	8	0.14
(2,205)	1:6:A:LYS:HA	1:9:A:VAL:HG21	5	0.14
(2,194)	1:76:A:GLU:HA	1:79:A:VAL:HG22	8	0.14
(2,175)	1:155:A:GLN:HA	1:155:A:GLN:HB3	6	0.14
(2,173)	1:55:A:GLU:HA	1:55:A:GLU:HG3	10	0.14
(2,170)	1:55:A:GLU:HA	1:58:A:GLN:HA	4	0.14
(2,157)	1:29:A:LEU:HA	1:29:A:LEU:HD11	1	0.14
(2,142)	1:7:A:ALA:HA	1:10:A:GLU:HB2	3	0.14
(2,139)	1:54:A:PRO:HA	1:57:A:LEU:HD13	10	0.14
(2,133)	1:137:A:LYS:HA	1:137:A:LYS:HB2	3	0.14
(2,132)	1:54:A:PRO:HA	1:57:A:LEU:HG	1	0.14
(2,126)	1:8:A:ALA:HA	1:11:A:GLN:HG3	9	0.14
(2,116)	1:41:A:LEU:HA	1:44:A:VAL:HG11	8	0.14
(2,90)	1:11:A:GLN:HA	1:11:A:GLN:HB2	1	0.14
(2,89)	1:11:A:GLN:HA	1:11:A:GLN:HG2	6	0.14
(2,77)	1:48:A:LEU:HA	1:156:A:ALA:HB2	7	0.14
(2,76)	1:154:A:MET:HA	1:158:A:LEU:HG	2	0.14
(2,57)	1:64:A:VAL:HA	1:64:A:VAL:HG23	2	0.14
(2,1429)	1:27:A:PHE:HA	1:27:A:PHE:HD1	2	0.13
(2,1425)	1:19:A:GLU:HA	1:21:A:LYS:HB3	2	0.13
(2,1374)	1:28:A:VAL:HG23	1:36:A:ILE:HA	3	0.13
(2,1352)	1:57:A:LEU:HD12	1:52:A:PRO:HG2	9	0.13
(2,1346)	1:54:A:PRO:HA	1:57:A:LEU:HD11	6	0.13
(2,1343)	1:146:A:VAL:HG22	1:145:A:ARG:HA	4	0.13
(2,1308)	1:13:A:THR:HB	1:13:A:THR:HG21	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1303)	1:90:A:LYS:HB2	1:90:A:LYS:HG3	6	0.13
(2,1287)	1:140:A:ARG:HG2	1:141:A:PRO:HD2	9	0.13
(2,1261)	1:26:A:ILE:HB	1:23:A:ALA:HB1	2	0.13
(2,1252)	1:155:A:GLN:HA	1:155:A:GLN:HB3	10	0.13
(2,1243)	1:10:A:GLU:HA	1:10:A:GLU:HG3	5	0.13
(2,1227)	1:153:A:MET:HG3	1:148:A:ILE:HG13	4	0.13
(2,1211)	1:18:A:ASN:HB3	1:19:A:GLU:HB2	10	0.13
(2,1167)	1:45:A:MET:HA	1:48:A:LEU:HD13	4	0.13
(2,1149)	1:64:A:VAL:HA	1:76:A:GLU:HB3	5	0.13
(2,1147)	1:53:A:THR:HA	1:54:A:PRO:HG2	10	0.13
(2,1118)	1:65:A:ASP:HB3	1:64:A:VAL:HG23	3	0.13
(2,1105)	1:52:A:PRO:HD2	1:51:A:ASN:HB2	6	0.13
(2,1095)	1:36:A:ILE:HG22	1:40:A:GLU:HG3	4	0.13
(2,1094)	1:40:A:GLU:HG2	1:36:A:ILE:HG23	3	0.13
(2,1010)	1:78:A:LEU:HA	1:81:A:MET:HB2	3	0.13
(2,1010)	1:78:A:LEU:HA	1:81:A:MET:HB2	5	0.13
(2,938)	1:31:A:ALA:HB2	1:28:A:VAL:HG12	6	0.13
(2,919)	1:44:A:VAL:HG12	1:153:A:MET:HG2	1	0.13
(2,919)	1:44:A:VAL:HG13	1:153:A:MET:HG2	5	0.13
(2,918)	1:44:A:VAL:HG11	1:27:A:PHE:HA	9	0.13
(2,873)	1:4:A:ILE:HG13	1:4:A:ILE:HD11	10	0.13
(2,871)	1:41:A:LEU:HB2	1:61:A:ILE:HD13	9	0.13
(2,812)	1:26:A:ILE:HG23	1:27:A:PHE:HA	7	0.13
(2,763)	1:6:A:LYS:HE2	1:9:A:VAL:HG23	9	0.13
(2,673)	1:8:A:ALA:HB3	1:82:A:VAL:HG13	1	0.13
(2,671)	1:8:A:ALA:HB2	1:5:A:TYR:HB3	8	0.13
(2,603)	1:44:A:VAL:HB	1:27:A:PHE:HD1	7	0.13
(2,546)	1:154:A:MET:HE3	1:22:A:ALA:HB1	2	0.13
(2,518)	1:140:A:ARG:HA	1:141:A:PRO:HG3	10	0.13
(2,491)	1:79:A:VAL:HB	1:83:A:ARG:HG3	6	0.13
(2,491)	1:79:A:VAL:HB	1:83:A:ARG:HG3	8	0.13
(2,489)	1:10:A:GLU:HG2	1:10:A:GLU:HB3	2	0.13
(2,488)	1:10:A:GLU:HA	1:10:A:GLU:HB3	2	0.13
(2,488)	1:10:A:GLU:HA	1:10:A:GLU:HB3	8	0.13
(2,488)	1:10:A:GLU:HA	1:10:A:GLU:HB3	10	0.13
(2,463)	1:64:A:VAL:HB	1:72:A:VAL:HB	5	0.13
(2,444)	1:40:A:GLU:HG3	1:40:A:GLU:HB2	6	0.13
(2,413)	1:55:A:GLU:HG2	1:55:A:GLU:HA	3	0.13
(2,385)	1:59:A:GLU:HA	1:62:A:ASP:HB3	6	0.13
(2,385)	1:59:A:GLU:HA	1:62:A:ASP:HB3	7	0.13
(2,381)	1:2:A:ASP:HB2	1:5:A:TYR:HE1	8	0.13
(2,377)	1:83:A:ARG:HD3	1:83:A:ARG:HB3	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,358)	1:62:A:ASP:HB2	1:61:A:ILE:HB	2	0.13
(2,305)	1:24:A:PHE:HA	1:27:A:PHE:HD1	5	0.13
(2,303)	1:24:A:PHE:HA	1:74:A:PHE:HD1	4	0.13
(2,301)	1:61:A:ILE:HA	1:64:A:VAL:HG23	7	0.13
(2,289)	1:80:A:MET:HA	1:80:A:MET:HB3	1	0.13
(2,289)	1:80:A:MET:HA	1:80:A:MET:HB3	4	0.13
(2,278)	1:71:A:THR:HB	1:35:A:SER:HB3	2	0.13
(2,278)	1:71:A:THR:HB	1:35:A:SER:HB3	6	0.13
(2,271)	1:44:A:VAL:HA	1:47:A:MET:HB2	7	0.13
(2,241)	1:83:A:ARG:HA	1:83:A:ARG:HB2	2	0.13
(2,241)	1:83:A:ARG:HA	1:83:A:ARG:HB2	3	0.13
(2,241)	1:83:A:ARG:HA	1:83:A:ARG:HB2	6	0.13
(2,241)	1:83:A:ARG:HA	1:83:A:ARG:HB2	9	0.13
(2,241)	1:83:A:ARG:HA	1:83:A:ARG:HB2	10	0.13
(2,217)	1:4:A:ILE:HA	1:4:A:ILE:HD12	5	0.13
(2,199)	1:75:A:ASP:HA	1:75:A:ASP:HB2	2	0.13
(2,197)	1:149:A:SER:HA	1:149:A:SER:HB3	2	0.13
(2,194)	1:76:A:GLU:HA	1:79:A:VAL:HG23	5	0.13
(2,142)	1:7:A:ALA:HA	1:10:A:GLU:HB2	8	0.13
(2,119)	1:47:A:MET:HA	1:44:A:VAL:HA	1	0.13
(2,119)	1:47:A:MET:HA	1:44:A:VAL:HA	3	0.13
(2,119)	1:47:A:MET:HA	1:44:A:VAL:HA	8	0.13
(2,119)	1:47:A:MET:HA	1:44:A:VAL:HA	9	0.13
(2,99)	1:163:A:LYS:HA	1:164:A:GLY:HA3	3	0.13
(2,99)	1:163:A:LYS:HA	1:164:A:GLY:HA3	8	0.13
(2,90)	1:11:A:GLN:HA	1:11:A:GLN:HB2	7	0.13
(2,57)	1:64:A:VAL:HA	1:64:A:VAL:HG23	3	0.13
(2,42)	1:2:A:ASP:HA	1:2:A:ASP:HB3	10	0.13
(2,20)	1:71:A:THR:HA	1:36:A:ILE:HA	2	0.13
(2,20)	1:71:A:THR:HA	1:36:A:ILE:HA	7	0.13
(2,12)	1:73:A:ASP:HA	1:24:A:PHE:HD1	1	0.13
(2,1429)	1:27:A:PHE:HA	1:27:A:PHE:HD1	4	0.12
(2,1426)	1:24:A:PHE:HA	1:21:A:LYS:HD2	6	0.12
(2,1426)	1:24:A:PHE:HA	1:21:A:LYS:HD2	7	0.12
(2,1426)	1:24:A:PHE:HA	1:21:A:LYS:HD2	9	0.12
(2,1425)	1:19:A:GLU:HA	1:158:A:LEU:HG	8	0.12
(2,1401)	1:85:A:MET:HG3	1:82:A:VAL:HG23	2	0.12
(2,1374)	1:28:A:VAL:HG21	1:36:A:ILE:HA	7	0.12
(2,1362)	1:64:A:VAL:HG13	1:76:A:GLU:HA	1	0.12
(2,1349)	1:26:A:ILE:HD12	1:22:A:ALA:HA	2	0.12
(2,1324)	1:82:A:VAL:HG22	1:83:A:ARG:HG3	6	0.12
(2,1300)	1:150:A:ALA:HA	1:150:A:ALA:HB2	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1274)	1:23:A:ALA:HB3	1:24:A:PHE:HA	8	0.12
(2,1262)	1:14:A:GLU:HB2	1:13:A:THR:HG22	4	0.12
(2,1252)	1:155:A:GLN:HA	1:155:A:GLN:HB3	6	0.12
(2,1246)	1:47:A:MET:HB3	1:48:A:LEU:HD21	10	0.12
(2,1241)	1:16:A:GLN:HG2	1:12:A:LEU:HB3	4	0.12
(2,1241)	1:16:A:GLN:HG2	1:12:A:LEU:HB3	10	0.12
(2,1214)	1:6:A:LYS:HE2	1:9:A:VAL:HG23	9	0.12
(2,1208)	1:6:A:LYS:HE3	1:6:A:LYS:HD2	8	0.12
(2,1154)	1:89:A:SER:HA	1:89:A:SER:HB2	4	0.12
(2,1148)	1:65:A:ASP:HA	1:64:A:VAL:HG22	5	0.12
(2,1072)	1:13:A:THR:HG23	1:16:A:GLN:HG2	6	0.12
(2,1071)	1:16:A:GLN:HG3	1:20:A:PHE:HD1	4	0.12
(2,1060)	1:10:A:GLU:HA	1:9:A:VAL:HG12	10	0.12
(2,1051)	1:41:A:LEU:HA	1:41:A:LEU:HD11	6	0.12
(2,1051)	1:41:A:LEU:HA	1:41:A:LEU:HD11	9	0.12
(2,1010)	1:78:A:LEU:HA	1:81:A:MET:HB2	2	0.12
(2,984)	1:153:A:MET:HE2	1:148:A:ILE:HG12	2	0.12
(2,920)	1:44:A:VAL:HG12	1:45:A:MET:HG2	3	0.12
(2,918)	1:44:A:VAL:HG13	1:27:A:PHE:HA	3	0.12
(2,905)	1:4:A:ILE:HG13	1:4:A:ILE:HG21	4	0.12
(2,878)	1:79:A:VAL:HG11	1:5:A:TYR:HE1	8	0.12
(2,824)	1:158:A:LEU:HD11	1:158:A:LEU:HD23	7	0.12
(2,782)	1:72:A:VAL:HG11	1:64:A:VAL:HG22	3	0.12
(2,782)	1:72:A:VAL:HG11	1:64:A:VAL:HG23	4	0.12
(2,780)	1:64:A:VAL:HG21	1:80:A:MET:HB3	1	0.12
(2,742)	1:35:A:SER:HB2	1:71:A:THR:HG22	1	0.12
(2,662)	1:22:A:ALA:HB2	1:22:A:ALA:HA	2	0.12
(2,662)	1:22:A:ALA:HB3	1:22:A:ALA:HA	9	0.12
(2,639)	1:3:A:ASP:HA	1:6:A:LYS:HD2	7	0.12
(2,597)	1:56:A:GLU:HB2	1:56:A:GLU:HA	8	0.12
(2,520)	1:32:A:GLU:HA	1:32:A:GLU:HB2	8	0.12
(2,520)	1:32:A:GLU:HA	1:32:A:GLU:HB2	10	0.12
(2,514)	1:1:A:MET:HE2	1:76:A:GLU:HG3	2	0.12
(2,482)	1:19:A:GLU:HG2	1:22:A:ALA:HB2	6	0.12
(2,481)	1:153:A:MET:HE3	1:23:A:ALA:HB3	5	0.12
(2,457)	1:53:A:THR:HA	1:54:A:PRO:HG2	7	0.12
(2,444)	1:40:A:GLU:HG3	1:40:A:GLU:HB2	5	0.12
(2,444)	1:40:A:GLU:HG3	1:40:A:GLU:HB2	7	0.12
(2,413)	1:55:A:GLU:HG2	1:55:A:GLU:HA	1	0.12
(2,413)	1:55:A:GLU:HG2	1:55:A:GLU:HA	4	0.12
(2,413)	1:55:A:GLU:HG2	1:55:A:GLU:HA	5	0.12
(2,413)	1:55:A:GLU:HG2	1:55:A:GLU:HA	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,407)	1:52:A:PRO:HD3	1:51:A:ASN:HB3	2	0.12
(2,390)	1:151:A:ASP:HA	1:151:A:ASP:HB2	4	0.12
(2,381)	1:2:A:ASP:HB2	1:5:A:TYR:HE1	2	0.12
(2,381)	1:2:A:ASP:HB2	1:5:A:TYR:HE1	9	0.12
(2,347)	1:14:A:GLU:HA	1:17:A:LYS:HE3	5	0.12
(2,303)	1:24:A:PHE:HA	1:74:A:PHE:HD1	7	0.12
(2,290)	1:80:A:MET:HA	1:83:A:ARG:HB3	1	0.12
(2,289)	1:80:A:MET:HA	1:80:A:MET:HB3	3	0.12
(2,289)	1:80:A:MET:HA	1:80:A:MET:HB3	7	0.12
(2,261)	1:58:A:GLN:HA	1:58:A:GLN:HB3	4	0.12
(2,240)	1:141:A:PRO:HD3	1:140:A:ARG:HG3	10	0.12
(2,199)	1:75:A:ASP:HA	1:75:A:ASP:HB2	1	0.12
(2,199)	1:75:A:ASP:HA	1:75:A:ASP:HB2	4	0.12
(2,199)	1:75:A:ASP:HA	1:75:A:ASP:HB2	5	0.12
(2,199)	1:75:A:ASP:HA	1:75:A:ASP:HB2	7	0.12
(2,199)	1:75:A:ASP:HA	1:75:A:ASP:HB2	8	0.12
(2,199)	1:75:A:ASP:HA	1:75:A:ASP:HB2	10	0.12
(2,182)	1:150:A:ALA:HA	1:148:A:ILE:HG23	3	0.12
(2,174)	1:55:A:GLU:HA	1:58:A:GLN:HB3	7	0.12
(2,164)	1:28:A:VAL:HA	1:40:A:GLU:HG2	3	0.12
(2,157)	1:29:A:LEU:HA	1:29:A:LEU:HD12	6	0.12
(2,148)	1:10:A:GLU:HA	1:10:A:GLU:HG2	4	0.12
(2,148)	1:10:A:GLU:HA	1:10:A:GLU:HG2	5	0.12
(2,142)	1:7:A:ALA:HA	1:10:A:GLU:HB2	1	0.12
(2,111)	1:157:A:LEU:HA	1:157:A:LEU:HB2	6	0.12
(2,99)	1:163:A:LYS:HA	1:164:A:GLY:HA2	4	0.12
(2,89)	1:11:A:GLN:HA	1:11:A:GLN:HG2	3	0.12
(2,57)	1:64:A:VAL:HA	1:64:A:VAL:HG21	8	0.12
(2,49)	1:18:A:ASN:HA	1:21:A:LYS:HG2	1	0.12
(2,12)	1:73:A:ASP:HA	1:24:A:PHE:HD1	4	0.12
(2,2)	1:37:A:SER:HA	1:37:A:SER:HB3	5	0.12
(2,1429)	1:27:A:PHE:HA	1:27:A:PHE:HD1	9	0.11
(2,1416)	1:35:A:SER:HA	1:36:A:ILE:HB	5	0.11
(2,1374)	1:28:A:VAL:HG22	1:36:A:ILE:HA	2	0.11
(2,1374)	1:28:A:VAL:HG22	1:36:A:ILE:HA	5	0.11
(2,1372)	1:79:A:VAL:HG12	1:83:A:ARG:HB2	6	0.11
(2,1364)	1:58:A:GLN:HA	1:61:A:ILE:HG23	10	0.11
(2,1362)	1:64:A:VAL:HG13	1:76:A:GLU:HA	8	0.11
(2,1362)	1:64:A:VAL:HG13	1:76:A:GLU:HA	9	0.11
(2,1338)	1:12:A:LEU:HG	1:12:A:LEU:HD21	3	0.11
(2,1324)	1:82:A:VAL:HG23	1:83:A:ARG:HG3	4	0.11
(2,1300)	1:150:A:ALA:HA	1:150:A:ALA:HB2	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1219)	1:85:A:MET:HG3	1:85:A:MET:HB2	4	0.11
(2,1211)	1:18:A:ASN:HB3	1:19:A:GLU:HB2	9	0.11
(2,1208)	1:6:A:LYS:HE3	1:6:A:LYS:HD2	5	0.11
(2,1203)	1:145:A:ARG:HA	1:147:A:ARG:HD3	7	0.11
(2,1194)	1:42:A:GLY:HA2	1:52:A:PRO:HG3	2	0.11
(2,1149)	1:64:A:VAL:HA	1:76:A:GLU:HB3	3	0.11
(2,1141)	1:72:A:VAL:HA	1:61:A:ILE:HG22	2	0.11
(2,1112)	1:46:A:ARG:HD2	1:51:A:ASN:HA	3	0.11
(2,1062)	1:12:A:LEU:HD13	1:12:A:LEU:HB3	1	0.11
(2,1059)	1:12:A:LEU:HG	1:9:A:VAL:HA	8	0.11
(2,1054)	1:18:A:ASN:HB3	1:19:A:GLU:HG3	7	0.11
(2,1051)	1:41:A:LEU:HA	1:41:A:LEU:HD12	5	0.11
(2,996)	1:11:A:GLN:HB3	1:8:A:ALA:HA	7	0.11
(2,972)	1:1:A:MET:HG3	1:79:A:VAL:HG21	6	0.11
(2,958)	1:22:A:ALA:HB3	1:26:A:ILE:HD12	2	0.11
(2,947)	1:38:A:THR:HG21	1:61:A:ILE:HA	5	0.11
(2,942)	1:36:A:ILE:HD12	1:77:A:PHE:HD1	2	0.11
(2,918)	1:44:A:VAL:HG11	1:27:A:PHE:HA	7	0.11
(2,918)	1:44:A:VAL:HG12	1:27:A:PHE:HA	10	0.11
(2,891)	1:35:A:SER:HA	1:28:A:VAL:HG23	8	0.11
(2,859)	1:57:A:LEU:HD22	1:45:A:MET:HB2	7	0.11
(2,832)	1:36:A:ILE:HG22	1:40:A:GLU:HB3	9	0.11
(2,781)	1:9:A:VAL:HG13	1:78:A:LEU:HB3	6	0.11
(2,742)	1:35:A:SER:HB2	1:71:A:THR:HG23	7	0.11
(2,676)	1:34:A:GLY:HA3	1:31:A:ALA:HB2	7	0.11
(2,597)	1:56:A:GLU:HB2	1:56:A:GLU:HA	9	0.11
(2,499)	1:155:A:GLN:HB2	1:152:A:ALA:HB1	10	0.11
(2,491)	1:79:A:VAL:HB	1:83:A:ARG:HG3	1	0.11
(2,482)	1:19:A:GLU:HG2	1:22:A:ALA:HB1	2	0.11
(2,468)	1:6:A:LYS:HA	1:9:A:VAL:HB	9	0.11
(2,457)	1:53:A:THR:HA	1:54:A:PRO:HG2	9	0.11
(2,444)	1:40:A:GLU:HG3	1:40:A:GLU:HB2	4	0.11
(2,444)	1:40:A:GLU:HG3	1:40:A:GLU:HB2	8	0.11
(2,441)	1:40:A:GLU:HA	1:40:A:GLU:HG3	1	0.11
(2,391)	1:151:A:ASP:HB2	1:152:A:ALA:HA	3	0.11
(2,391)	1:151:A:ASP:HB3	1:152:A:ALA:HA	4	0.11
(2,385)	1:59:A:GLU:HA	1:62:A:ASP:HB3	10	0.11
(2,381)	1:2:A:ASP:HB2	1:5:A:TYR:HE1	1	0.11
(2,360)	1:25:A:ASP:HB2	1:28:A:VAL:HG22	4	0.11
(2,338)	1:40:A:GLU:HA	1:43:A:LYS:HE2	9	0.11
(2,327)	1:147:A:ARG:HD3	1:147:A:ARG:HB2	3	0.11
(2,289)	1:80:A:MET:HA	1:80:A:MET:HB3	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,283)	1:52:A:PRO:HD3	1:57:A:LEU:HD22	4	0.11
(2,278)	1:71:A:THR:HB	1:35:A:SER:HB3	3	0.11
(2,268)	1:58:A:GLN:HA	1:61:A:ILE:HG12	4	0.11
(2,236)	1:141:A:PRO:HD3	1:141:A:PRO:HB3	1	0.11
(2,224)	1:82:A:VAL:HA	1:85:A:MET:HG2	7	0.11
(2,217)	1:4:A:ILE:HA	1:4:A:ILE:HD13	2	0.11
(2,217)	1:4:A:ILE:HA	1:4:A:ILE:HD11	7	0.11
(2,199)	1:75:A:ASP:HA	1:75:A:ASP:HB2	3	0.11
(2,194)	1:76:A:GLU:HA	1:79:A:VAL:HG21	9	0.11
(2,148)	1:10:A:GLU:HA	1:10:A:GLU:HG2	6	0.11
(2,146)	1:7:A:ALA:HA	1:7:A:ALA:HB3	4	0.11
(2,146)	1:7:A:ALA:HA	1:7:A:ALA:HB3	7	0.11
(2,144)	1:40:A:GLU:HA	1:43:A:LYS:HD2	4	0.11
(2,111)	1:157:A:LEU:HA	1:157:A:LEU:HB2	1	0.11
(2,111)	1:157:A:LEU:HA	1:157:A:LEU:HB2	3	0.11
(2,111)	1:157:A:LEU:HA	1:157:A:LEU:HB2	5	0.11
(2,111)	1:157:A:LEU:HA	1:157:A:LEU:HB2	7	0.11
(2,111)	1:157:A:LEU:HA	1:157:A:LEU:HB2	9	0.11
(2,111)	1:157:A:LEU:HA	1:157:A:LEU:HB2	10	0.11
(2,90)	1:11:A:GLN:HA	1:11:A:GLN:HB2	2	0.11
(2,85)	1:143:A:LEU:HA	1:143:A:LEU:HB3	7	0.11
(2,81)	1:85:A:MET:HA	1:85:A:MET:HB3	5	0.11
(2,79)	1:158:A:LEU:HA	1:158:A:LEU:HG	5	0.11
(2,79)	1:158:A:LEU:HA	1:158:A:LEU:HG	6	0.11
(2,76)	1:154:A:MET:HA	1:158:A:LEU:HG	1	0.11
(2,57)	1:64:A:VAL:HA	1:64:A:VAL:HG23	5	0.11
(2,29)	1:20:A:PHE:HA	1:78:A:LEU:HD22	2	0.11
(2,12)	1:73:A:ASP:HA	1:24:A:PHE:HD1	6	0.11
(2,12)	1:73:A:ASP:HA	1:24:A:PHE:HD1	9	0.11
(2,1436)	1:61:A:ILE:HD12	1:37:A:SER:HB3	2	0.1
(2,1426)	1:24:A:PHE:HA	1:21:A:LYS:HD2	3	0.1
(2,1423)	1:16:A:GLN:HA	1:12:A:LEU:HA	6	0.1
(2,1377)	1:44:A:VAL:HG12	1:47:A:MET:HG3	9	0.1
(2,1374)	1:28:A:VAL:HG23	1:36:A:ILE:HA	4	0.1
(2,1303)	1:39:A:LYS:HB2	1:39:A:LYS:HG2	3	0.1
(2,1243)	1:32:A:GLU:HA	1:32:A:GLU:HG3	8	0.1
(2,1241)	1:16:A:GLN:HG2	1:12:A:LEU:HB3	5	0.1
(2,1240)	1:40:A:GLU:HB3	1:36:A:ILE:HG12	3	0.1
(2,1240)	1:40:A:GLU:HB3	1:36:A:ILE:HG12	7	0.1
(2,1209)	1:139:A:LYS:HE2	1:139:A:LYS:HA	4	0.1
(2,1205)	1:27:A:PHE:HA	1:27:A:PHE:HB2	7	0.1
(2,1173)	1:15:A:GLU:HA	1:15:A:GLU:HB2	4	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1173)	1:15:A:GLU:HA	1:15:A:GLU:HB2	9	0.1
(2,1133)	1:37:A:SER:HB3	1:36:A:ILE:HG22	2	0.1
(2,1118)	1:65:A:ASP:HB3	1:64:A:VAL:HG22	1	0.1
(2,1118)	1:65:A:ASP:HB3	1:64:A:VAL:HG22	9	0.1
(2,1019)	1:78:A:LEU:HD21	1:17:A:LYS:HA	6	0.1
(2,1010)	1:78:A:LEU:HA	1:81:A:MET:HB2	7	0.1
(2,918)	1:44:A:VAL:HG12	1:27:A:PHE:HA	1	0.1
(2,859)	1:57:A:LEU:HD21	1:45:A:MET:HB2	9	0.1
(2,761)	1:12:A:LEU:HD13	1:12:A:LEU:HA	8	0.1
(2,548)	1:154:A:MET:HE2	1:158:A:LEU:HD23	9	0.1
(2,468)	1:6:A:LYS:HA	1:9:A:VAL:HB	4	0.1
(2,461)	1:72:A:VAL:HB	1:76:A:GLU:HB2	10	0.1
(2,455)	1:16:A:GLN:HG3	1:12:A:LEU:HD22	6	0.1
(2,444)	1:40:A:GLU:HG3	1:40:A:GLU:HB2	2	0.1
(2,430)	1:56:A:GLU:HA	1:56:A:GLU:HB3	6	0.1
(2,407)	1:52:A:PRO:HD3	1:51:A:ASN:HB3	7	0.1
(2,381)	1:2:A:ASP:HB2	1:5:A:TYR:HE1	6	0.1
(2,377)	1:83:A:ARG:HD3	1:83:A:ARG:HB3	9	0.1
(2,358)	1:62:A:ASP:HB2	1:61:A:ILE:HB	4	0.1
(2,327)	1:147:A:ARG:HD3	1:147:A:ARG:HB2	5	0.1
(2,305)	1:24:A:PHE:HA	1:27:A:PHE:HD1	7	0.1
(2,233)	1:83:A:ARG:HA	1:5:A:TYR:HD1	5	0.1
(2,205)	1:6:A:LYS:HA	1:9:A:VAL:HG22	3	0.1
(2,205)	1:6:A:LYS:HA	1:9:A:VAL:HG23	7	0.1
(2,188)	1:159:A:GLY:HA2	1:160:A:ALA:HB1	10	0.1
(2,150)	1:10:A:GLU:HA	1:10:A:GLU:HG3	8	0.1
(2,142)	1:7:A:ALA:HA	1:10:A:GLU:HB3	9	0.1
(2,122)	1:19:A:GLU:HA	1:19:A:GLU:HB2	8	0.1
(2,119)	1:47:A:MET:HA	1:44:A:VAL:HA	4	0.1
(2,111)	1:157:A:LEU:HA	1:157:A:LEU:HB2	4	0.1
(2,79)	1:158:A:LEU:HA	1:158:A:LEU:HG	9	0.1
(2,57)	1:64:A:VAL:HA	1:64:A:VAL:HG23	6	0.1
(2,20)	1:71:A:THR:HA	1:36:A:ILE:HA	5	0.1
(2,20)	1:71:A:THR:HA	1:36:A:ILE:HA	10	0.1
(2,13)	1:73:A:ASP:HA	1:35:A:SER:HB3	7	0.1

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found