Full wwPDB NMR Structure Validation Report (i)

Jun 3, 2023 – 01:13 PM EDT

PDB ID	:	2K04
BMRB ID	:	15636
Title	:	Structure of SDF1 in complex with the CXCR4 N-terminus containing no sulfotyrosines
Authors	:	Volkman, B.F.; Veldkamp, C.T.; Peterson, F.C.
Deposited on	:	2008-01-24

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/NMRValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

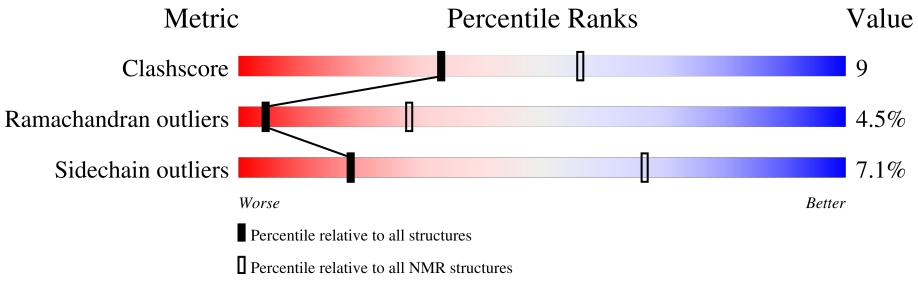
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.33

1 Overall quality at a glance (i)

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

The overall completeness of chemical shifts assignment is 86%.

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	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

Mol	Chain	Length	Quality of chain
1	A	70	63% 21% • 11% •
1	C	70	64% 21% 11% •
2	B	40	28% 5% 62% 5%
2	D	40	25% 8% 62% 5%

2 Ensemble composition and analysis

This entry contains 20 models. Model 19 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:9-A:68, B:106-B:111, B:121-B:127, C:209-C:268, D:306-D:311, D:321-D:327 (146)	1.44	19

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

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

The models can be grouped into 4 clusters. No single-model clusters were found.

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

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 3411 atoms, of which 1688 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Stromal cell-derived factor 1.

Mol	Chain	Residues	Atoms						Trace
1	A	68	Total	C	H	N	O	S	0
			1136	353	579	106	92	6	
1	C	68	Total	C	H	N	O	S	0
			1136	353	579	106	92	6	

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	GLY	-	expression tag	UNP P48061
A	0	MET	-	expression tag	UNP P48061
A	36	CYS	LEU	engineered mutation	UNP P48061
A	65	CYS	ALA	engineered mutation	UNP P48061
C	199	GLY	-	expression tag	UNP P48061
C	200	MET	-	expression tag	UNP P48061
C	236	CYS	LEU	engineered mutation	UNP P48061
C	265	CYS	ALA	engineered mutation	UNP P48061

- Molecule 2 is a protein called C-X-C chemokine receptor type 4.

Mol	Chain	Residues	Atoms						Trace
2	B	38	Total	C	H	N	O	S	0
			569	185	265	47	69	3	
2	D	38	Total	C	H	N	O	S	0
			570	185	265	47	70	3	

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	99	GLY	-	expression tag	UNP P61073
B	100	SER	-	expression tag	UNP P61073
B	128	ALA	CYS	engineered mutation	UNP P61073
D	299	GLY	-	expression tag	UNP P61073
D	300	SER	-	expression tag	UNP P61073
D	328	ALA	CYS	engineered mutation	UNP P61073

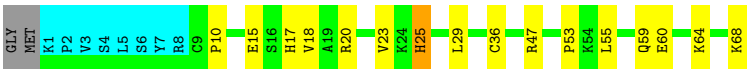
4 Residue-property plots

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.

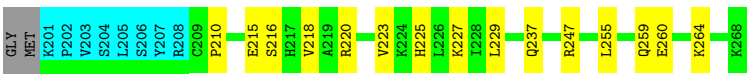
• Molecule 1: Stromal cell-derived factor 1

Chain A:



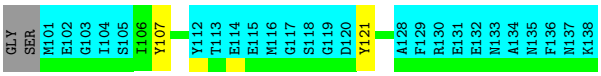
• Molecule 1: Stromal cell-derived factor 1

Chain C:



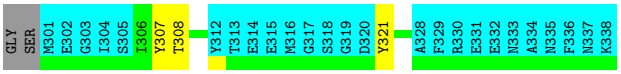
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

Chain D:



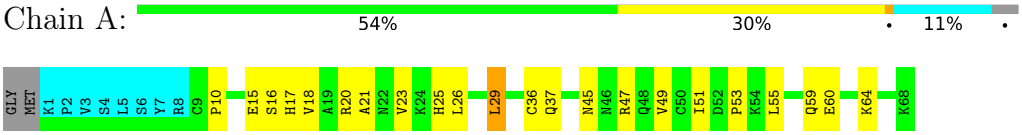
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

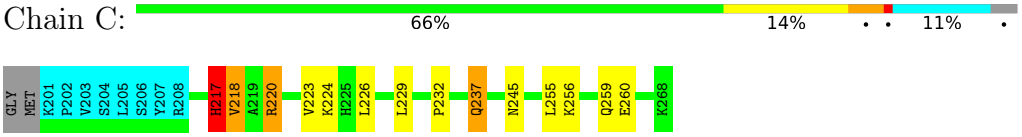
• Molecule 1: Stromal cell-derived factor 1

Chain A:



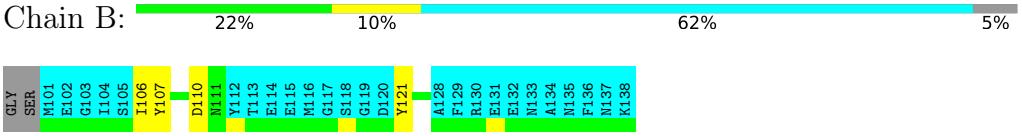
• Molecule 1: Stromal cell-derived factor 1

Chain C:



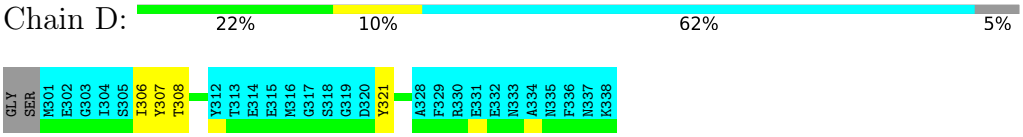
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

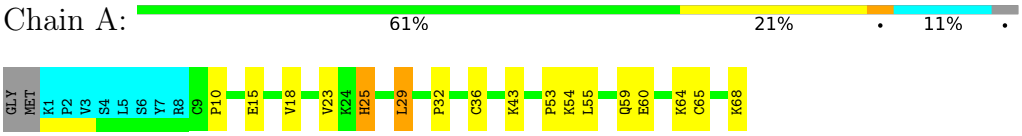
Chain D:



4.2.2 Score per residue for model 2

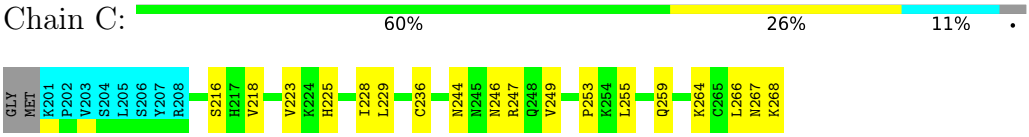
• Molecule 1: Stromal cell-derived factor 1

Chain A:



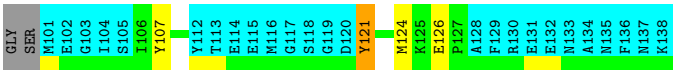
• Molecule 1: Stromal cell-derived factor 1

Chain C:

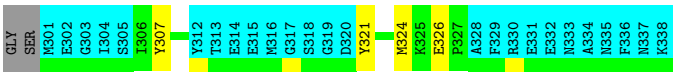


• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

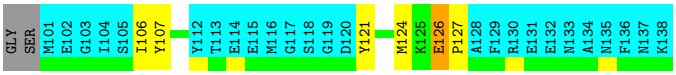


4.2.3 Score per residue for model 3

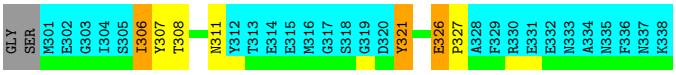
• Molecule 1: Stromal cell-derived factor 1

• Molecule 1: Stromal cell-derived factor 1

• Molecule 2: C-X-C chemokine receptor type 4

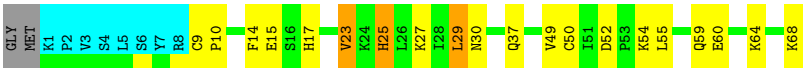


• Molecule 2: C-X-C chemokine receptor type 4



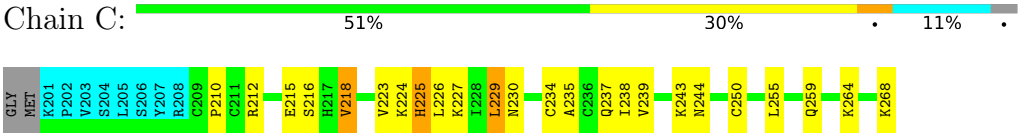
4.2.4 Score per residue for model 4

• Molecule 1: Stromal cell-derived factor 1



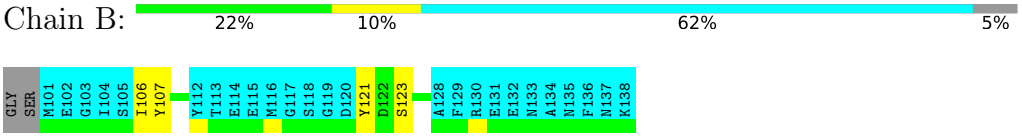
• Molecule 1: Stromal cell-derived factor 1

Chain C:



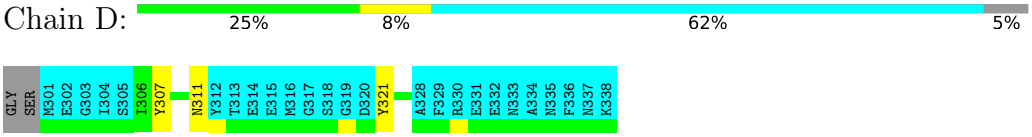
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

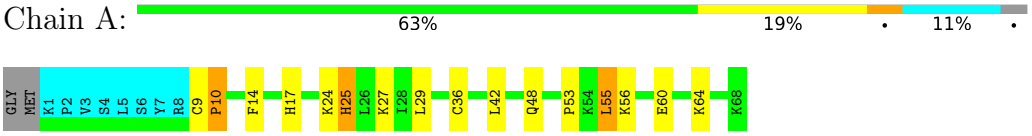
Chain D:



4.2.5 Score per residue for model 5

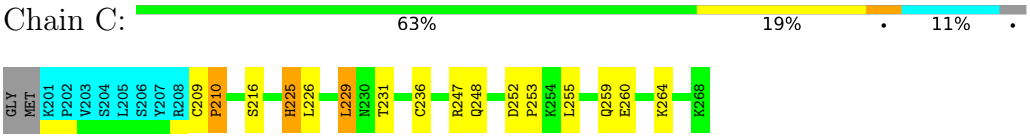
• Molecule 1: Stromal cell-derived factor 1

Chain A:



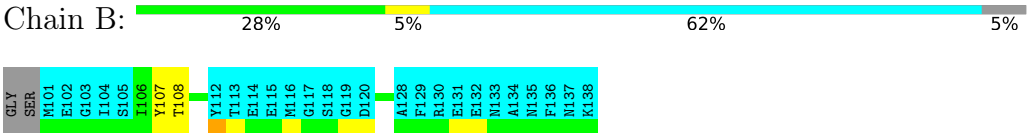
• Molecule 1: Stromal cell-derived factor 1

Chain C:



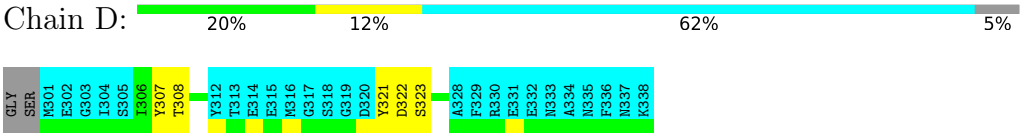
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

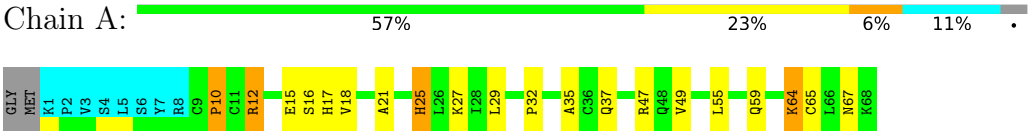
Chain D:



4.2.6 Score per residue for model 6

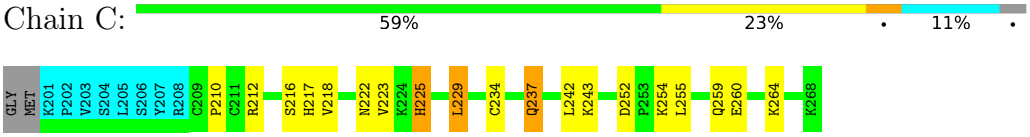
• Molecule 1: Stromal cell-derived factor 1

Chain A:



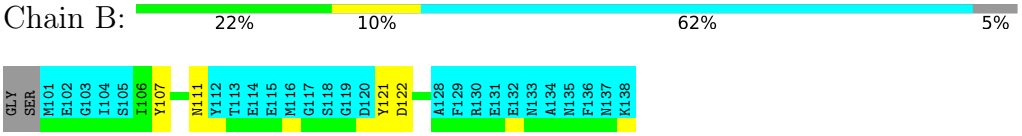
• Molecule 1: Stromal cell-derived factor 1

Chain C:



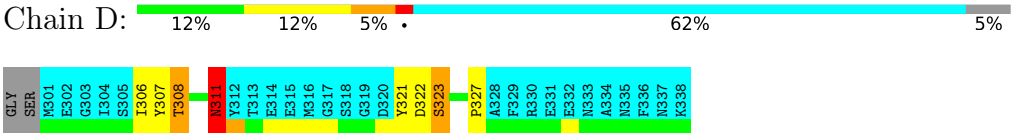
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

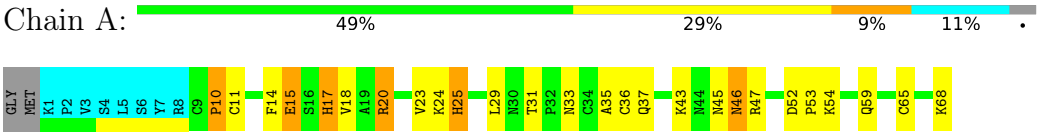
Chain D:



4.2.7 Score per residue for model 7

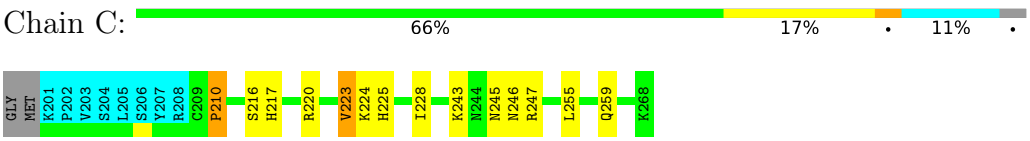
• Molecule 1: Stromal cell-derived factor 1

Chain A:



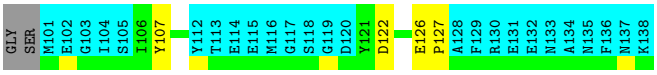
• Molecule 1: Stromal cell-derived factor 1

Chain C:



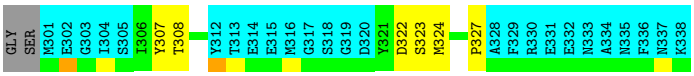
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

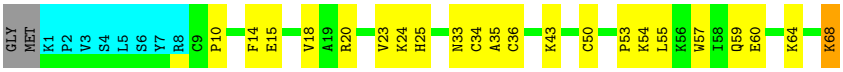
Chain D:



4.2.8 Score per residue for model 8

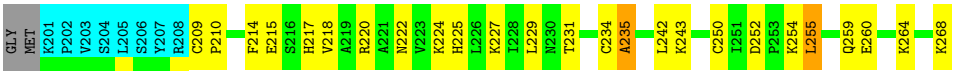
• Molecule 1: Stromal cell-derived factor 1

Chain A:



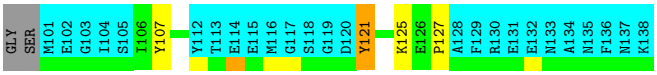
• Molecule 1: Stromal cell-derived factor 1

Chain C:



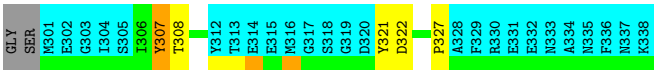
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

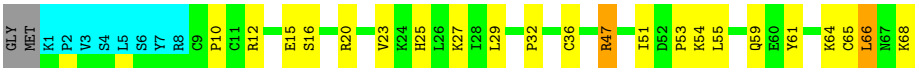
Chain D:



4.2.9 Score per residue for model 9

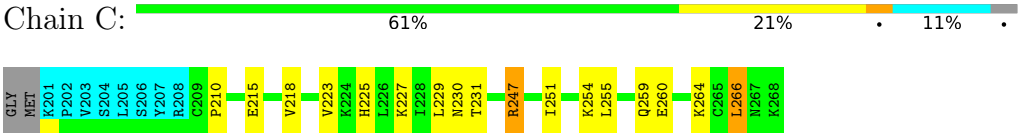
• Molecule 1: Stromal cell-derived factor 1

Chain A:



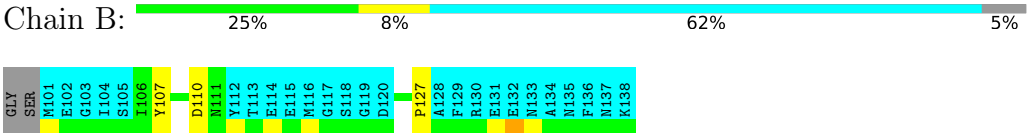
• Molecule 1: Stromal cell-derived factor 1

Chain C:



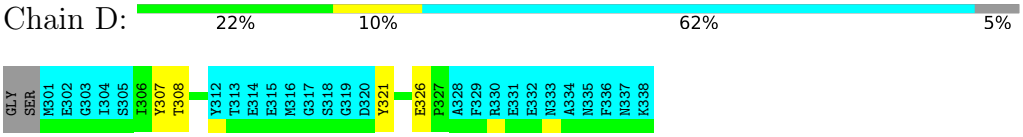
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

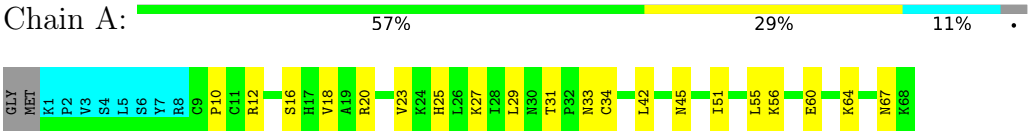
Chain D:



4.2.10 Score per residue for model 10

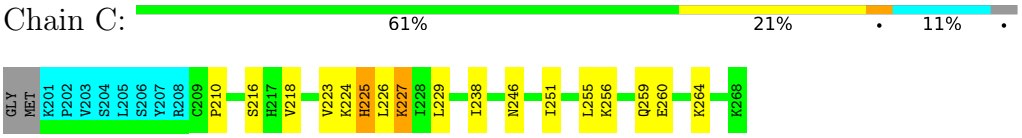
• Molecule 1: Stromal cell-derived factor 1

Chain A:



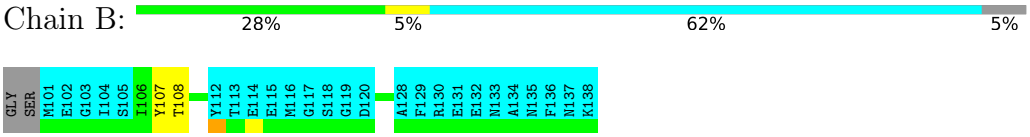
• Molecule 1: Stromal cell-derived factor 1

Chain C:



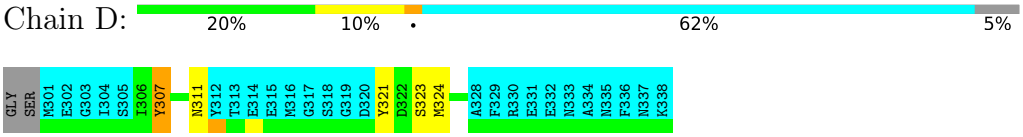
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

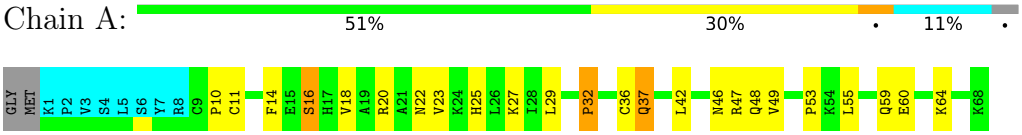
Chain D:



4.2.11 Score per residue for model 11

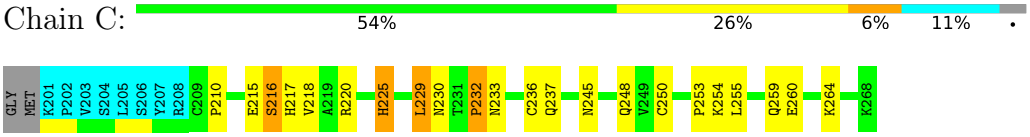
• Molecule 1: Stromal cell-derived factor 1

Chain A:



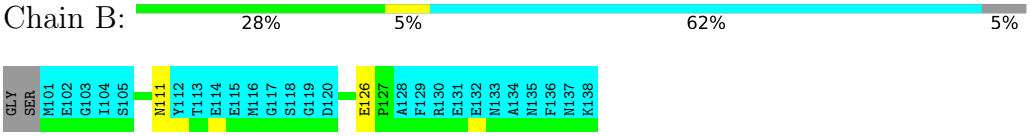
• Molecule 1: Stromal cell-derived factor 1

Chain C:



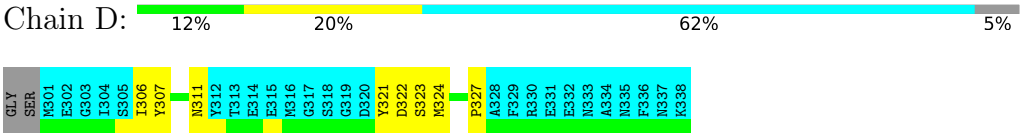
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

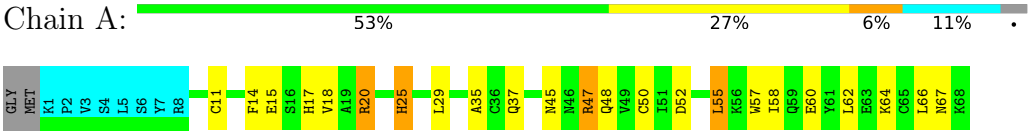
Chain D:



4.2.12 Score per residue for model 12

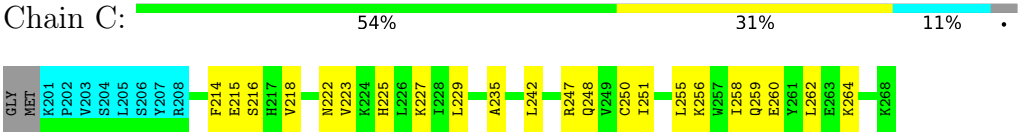
• Molecule 1: Stromal cell-derived factor 1

Chain A:



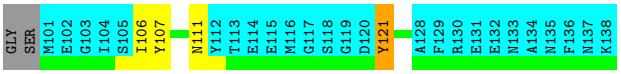
• Molecule 1: Stromal cell-derived factor 1

Chain C:



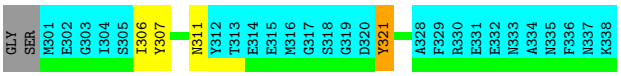
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

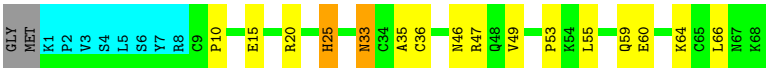
Chain D:



4.2.13 Score per residue for model 13

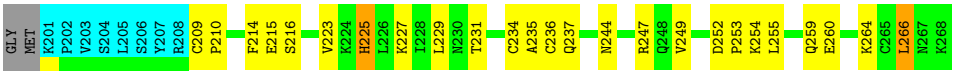
• Molecule 1: Stromal cell-derived factor 1

Chain A:



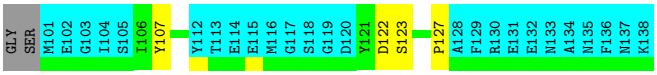
• Molecule 1: Stromal cell-derived factor 1

Chain C:



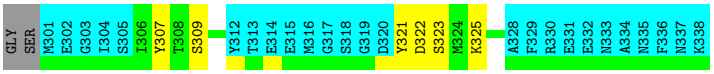
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

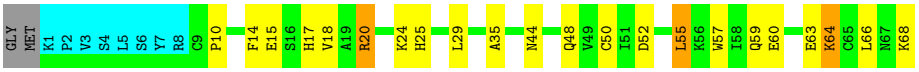
Chain D:



4.2.14 Score per residue for model 14

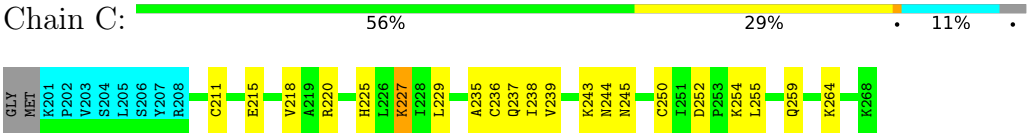
• Molecule 1: Stromal cell-derived factor 1

Chain A:



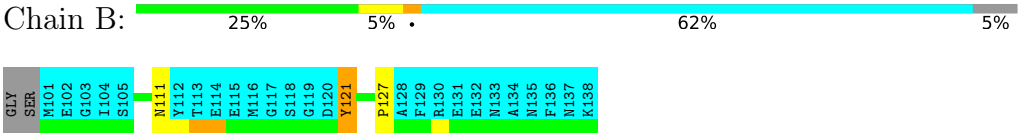
• Molecule 1: Stromal cell-derived factor 1

Chain C:



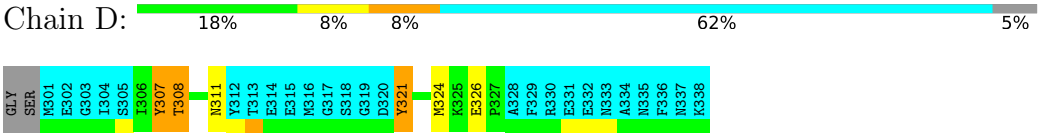
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

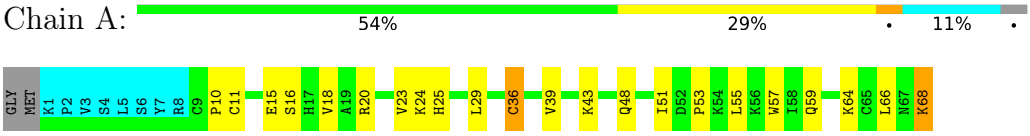
Chain D:



4.2.15 Score per residue for model 15

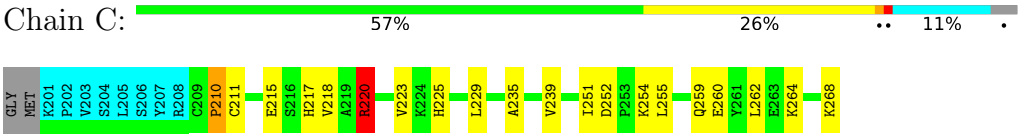
• Molecule 1: Stromal cell-derived factor 1

Chain A:



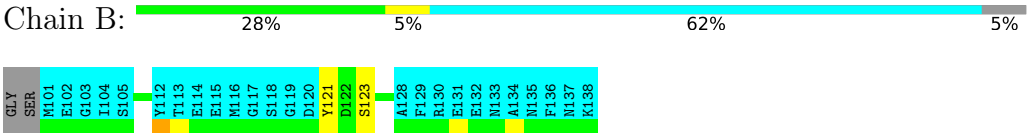
• Molecule 1: Stromal cell-derived factor 1

Chain C:



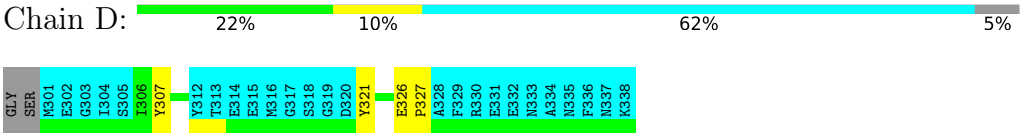
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

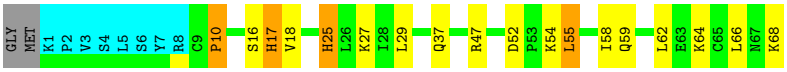
Chain D:



4.2.16 Score per residue for model 16

• Molecule 1: Stromal cell-derived factor 1

Chain A:

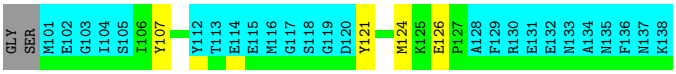


• Molecule 1: Stromal cell-derived factor 1

Chain C:

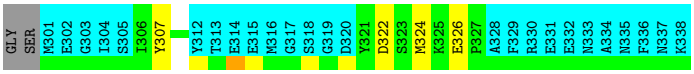
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

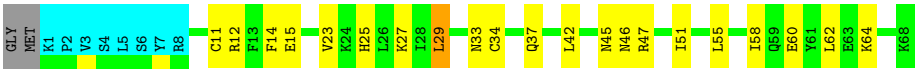
Chain D:



4.2.17 Score per residue for model 17

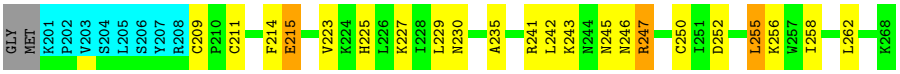
• Molecule 1: Stromal cell-derived factor 1

Chain A:



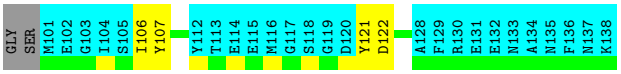
• Molecule 1: Stromal cell-derived factor 1

Chain C:



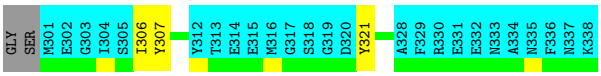
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

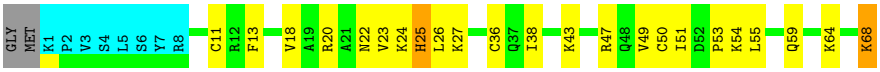
Chain D:



4.2.18 Score per residue for model 18

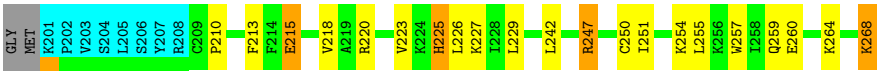
• Molecule 1: Stromal cell-derived factor 1

Chain A:



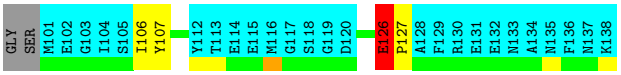
• Molecule 1: Stromal cell-derived factor 1

Chain C:



• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



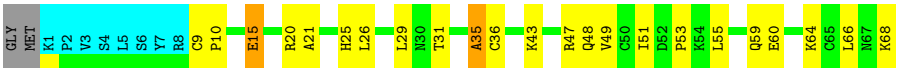
• Molecule 2: C-X-C chemokine receptor type 4

Chain D:

4.2.19 Score per residue for model 19 (medoid)

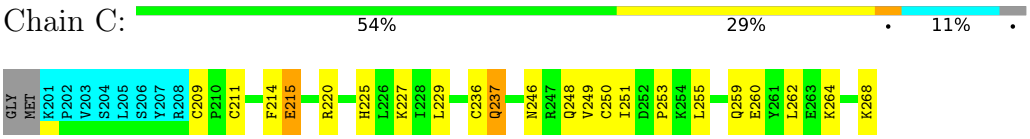
• Molecule 1: Stromal cell-derived factor 1

Chain A:



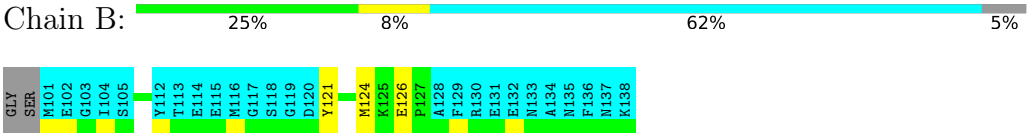
• Molecule 1: Stromal cell-derived factor 1

Chain C:



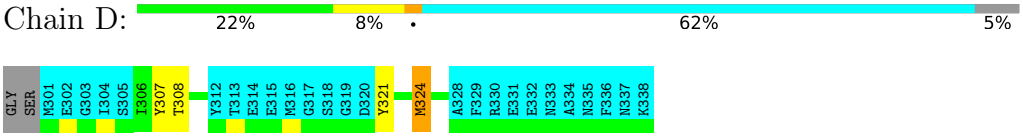
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

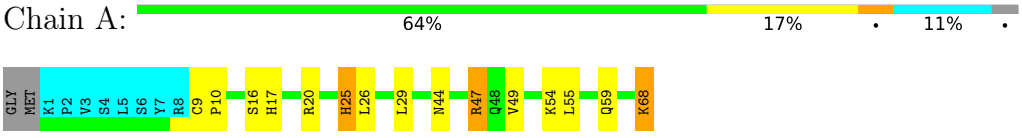
Chain D:



4.2.20 Score per residue for model 20

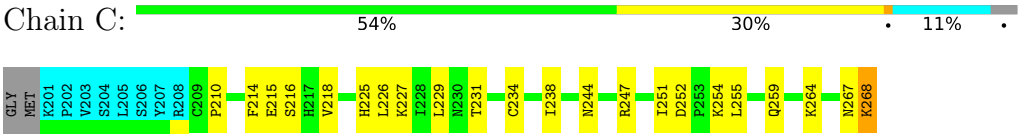
• Molecule 1: Stromal cell-derived factor 1

Chain A:



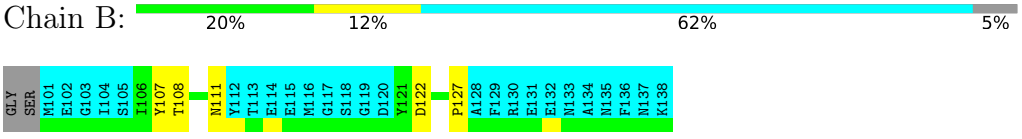
• Molecule 1: Stromal cell-derived factor 1

Chain C:



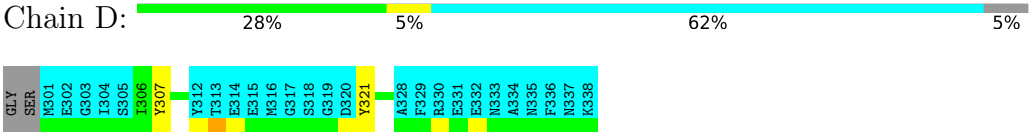
• Molecule 2: C-X-C chemokine receptor type 4

Chain B:



• Molecule 2: C-X-C chemokine receptor type 4

Chain D:



5 Refinement protocol and experimental data overview

The models were refined using the following method: *AUTOMATED METHODS WERE USED FOR BACKBONE CHEMICAL SHIFT ASSIGNMENT AND ITERATIVE NOE REFINEMENT. FINAL STRUCTURES WERE OBTAINED BY MOLECULAR DYNAMICS IN EXPLICIT SOLVENT.*.

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *target function.*

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

Software name	Classification	Version
Xplor-NIH	refinement	2.9.3

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	2478
Number of shifts mapped to atoms	2478
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	86%

6 Model quality

6.1 Standard geometry

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

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

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

All unique planar outliers are listed below.

Mol	Chain	Res	Type	Group	Models (Total)
1	C	220	ARG	Sidechain	1

6.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	491	507	505	11±3
1	C	491	507	505	11±2
2	B	108	95	95	3±1
2	D	108	95	95	4±1
All	All	23960	24080	24000	437

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 9.

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:VAL:O	2:D:307:TYR:HB3	0.68	1.89	4	8
1:A:11:CYS:SG	1:A:14:PHE:HB3	0.66	2.31	11	3
1:C:216:SER:O	2:D:321:TYR:HB3	0.65	1.92	5	2
1:C:220:ARG:HB3	1:C:257:TRP:CE3	0.64	2.27	18	1
1:A:18:VAL:HG11	1:A:51:ILE:HD12	0.64	1.70	18	5
1:A:60:GLU:O	1:A:64:LYS:HG2	0.64	1.92	5	11
1:C:215:GLU:HG2	1:C:250:CYS:O	0.64	1.92	17	1
1:C:255:LEU:O	1:C:259:GLN:HG2	0.62	1.95	10	18
1:A:36:CYS:O	1:A:53:PRO:HG3	0.61	1.95	19	11
2:B:107:TYR:HB3	1:C:223:VAL:O	0.61	1.95	4	11
1:A:66:LEU:HB2	1:C:259:GLN:NE2	0.61	2.10	12	3
1:C:264:LYS:O	1:C:268:LYS:HG2	0.60	1.97	2	2
1:C:260:GLU:O	1:C:264:LYS:HG2	0.60	1.97	12	12
1:A:15:GLU:HG3	2:B:121:TYR:CD2	0.59	2.32	19	1
2:B:107:TYR:O	1:C:224:LYS:HA	0.59	1.97	8	1
1:A:20:ARG:HB3	1:A:57:TRP:CE3	0.59	2.33	15	2
1:C:215:GLU:HG3	1:C:218:VAL:N	0.58	2.14	12	1
1:A:64:LYS:O	1:A:68:LYS:HG3	0.58	1.99	4	6
1:C:264:LYS:O	1:C:268:LYS:HG3	0.58	1.97	4	2
1:C:236:CYS:O	1:C:253:PRO:HG3	0.58	1.99	11	6
1:A:15:GLU:HB3	1:A:18:VAL:HG23	0.58	1.75	14	2
1:A:15:GLU:HB3	2:B:121:TYR:HB2	0.57	1.76	15	1
1:A:15:GLU:HG2	1:A:17:HIS:H	0.57	1.60	14	2
1:A:12:ARG:NE	1:A:12:ARG:HA	0.57	2.14	6	1
1:C:259:GLN:NE2	2:D:327:PRO:HB3	0.57	2.15	6	1
1:A:47:ARG:N	1:A:47:ARG:HD2	0.56	2.15	1	1
1:C:259:GLN:OE1	2:D:327:PRO:HG3	0.56	2.00	7	1
1:A:16:SER:O	1:A:55:LEU:HD21	0.56	2.00	10	1
1:C:231:THR:OG1	1:C:234:CYS:HB2	0.56	2.00	20	3
1:A:55:LEU:O	1:A:59:GLN:HG2	0.56	2.01	18	14
1:C:215:GLU:HG3	2:D:321:TYR:CD2	0.56	2.35	19	1
1:A:18:VAL:HA	2:B:121:TYR:CE1	0.55	2.36	2	1
1:A:54:LYS:O	2:B:127:PRO:HD3	0.55	2.01	20	2
1:C:214:PHE:HA	1:C:250:CYS:O	0.55	2.02	12	3
1:C:218:VAL:HG11	1:C:251:ILE:HD12	0.55	1.76	9	6
1:A:16:SER:O	1:A:55:LEU:HD11	0.55	2.02	9	4
1:A:24:LYS:HA	2:D:308:THR:OG1	0.54	2.02	14	1
1:A:20:ARG:HA	1:A:23:VAL:HG12	0.54	1.79	11	4
1:A:13:PHE:O	1:A:50:CYS:HB2	0.54	2.02	18	1
1:C:252:ASP:OD2	1:C:254:LYS:HB2	0.53	2.03	6	4
1:A:15:GLU:HG3	1:A:18:VAL:N	0.53	2.18	8	1
1:A:15:GLU:HA	2:B:121:TYR:HB2	0.53	1.81	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:216:SER:O	1:C:255:LEU:HD21	0.53	2.03	20	5
1:C:216:SER:HB2	2:D:323:SER:O	0.53	2.03	10	2
1:C:218:VAL:HG22	2:D:321:TYR:CD1	0.53	2.39	11	1
1:A:11:CYS:HB2	1:A:37:GLN:OE1	0.53	2.03	12	2
1:A:66:LEU:HD12	1:A:66:LEU:O	0.53	2.04	13	1
1:A:25:HIS:HA	2:D:307:TYR:CE2	0.53	2.38	20	1
1:C:211:CYS:SG	1:C:237:GLN:HB3	0.53	2.43	14	1
1:A:16:SER:O	2:B:121:TYR:HB3	0.53	2.03	6	3
1:C:215:GLU:CD	2:D:321:TYR:HB2	0.53	2.24	9	2
1:A:52:ASP:O	1:A:55:LEU:HB2	0.53	2.04	14	2
1:A:25:HIS:HA	2:D:307:TYR:CZ	0.53	2.39	16	4
1:A:59:GLN:NE2	1:C:266:LEU:HB2	0.52	2.20	9	2
1:C:215:GLU:HA	2:D:321:TYR:HB2	0.52	1.81	20	3
1:C:256:LYS:O	1:C:260:GLU:HG2	0.52	2.03	1	1
1:C:218:VAL:HA	2:D:321:TYR:CE1	0.52	2.39	2	2
1:C:237:GLN:HE21	1:C:237:GLN:N	0.52	2.02	6	1
2:B:107:TYR:OH	1:C:226:LEU:HG	0.52	2.04	20	1
1:C:230:ASN:O	2:D:306:ILE:HG21	0.51	2.05	11	2
1:A:26:LEU:HD13	2:D:307:TYR:CE1	0.51	2.39	1	2
1:A:47:ARG:CZ	1:A:49:VAL:HG12	0.51	2.35	18	1
1:A:17:HIS:H	1:A:55:LEU:HD21	0.51	1.64	1	2
1:A:9:CYS:SG	1:A:10:PRO:HD2	0.51	2.45	20	2
1:A:31:THR:OG1	1:A:34:CYS:HB2	0.51	2.06	10	1
1:C:216:SER:O	1:C:255:LEU:HD11	0.51	2.06	11	2
1:A:29:LEU:O	1:A:37:GLN:HB2	0.51	2.06	4	2
1:C:229:LEU:HA	2:D:307:TYR:OH	0.51	2.05	5	2
1:C:217:HIS:HD2	2:D:323:SER:O	0.51	1.89	11	1
1:C:254:LYS:HB3	2:D:327:PRO:HD3	0.50	1.83	6	3
1:A:21:ALA:HA	2:D:308:THR:OG1	0.50	2.07	6	2
2:D:325:LYS:HA	2:D:325:LYS:HE2	0.50	1.83	13	1
2:B:107:TYR:CE1	1:C:226:LEU:HD13	0.50	2.42	18	2
1:A:66:LEU:HB3	1:C:262:LEU:HD12	0.50	1.83	16	4
1:C:239:VAL:HG22	1:C:250:CYS:SG	0.50	2.47	14	2
1:A:64:LYS:O	1:A:68:LYS:HB3	0.50	2.07	14	1
1:A:26:LEU:HG	2:D:307:TYR:OH	0.50	2.06	20	1
1:A:30:ASN:O	2:B:106:ILE:HB	0.50	2.06	4	1
1:A:37:GLN:HE21	1:A:37:GLN:HA	0.50	1.67	11	1
1:A:54:LYS:HA	1:A:59:GLN:NE2	0.49	2.22	2	3
1:C:229:LEU:HD12	1:C:229:LEU:O	0.49	2.07	16	1
1:C:215:GLU:HG2	1:C:249:VAL:HB	0.49	1.84	19	1
1:C:229:LEU:O	1:C:237:GLN:HB2	0.49	2.08	11	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:59:GLN:OE1	2:B:127:PRO:HG3	0.49	2.06	7	4
1:A:15:GLU:HG3	2:B:121:TYR:HB2	0.49	1.85	2	1
1:C:226:LEU:HG	1:C:238:ILE:CG2	0.49	2.38	4	1
1:A:29:LEU:HD12	1:A:29:LEU:O	0.49	2.08	16	1
1:C:215:GLU:HB3	1:C:218:VAL:HG23	0.49	1.85	14	3
1:A:25:HIS:CE1	1:C:227:LYS:HD2	0.49	2.43	18	1
1:A:14:PHE:HA	1:A:50:CYS:O	0.48	2.07	14	3
1:A:15:GLU:HG3	1:A:49:VAL:HB	0.48	1.85	4	2
1:A:14:PHE:CD1	1:A:52:ASP:HB2	0.48	2.43	3	2
1:A:15:GLU:OE1	1:A:49:VAL:HB	0.48	2.09	19	2
1:A:47:ARG:NH1	1:A:49:VAL:HG12	0.48	2.23	11	2
1:A:25:HIS:HB2	1:C:228:ILE:O	0.48	2.08	7	2
1:C:247:ARG:HD2	1:C:247:ARG:N	0.48	2.24	5	2
1:A:27:LYS:HD2	1:C:225:HIS:CD2	0.48	2.44	11	3
1:A:47:ARG:N	1:A:47:ARG:HD3	0.48	2.24	9	1
1:C:229:LEU:O	1:C:237:GLN:HB3	0.48	2.09	3	2
1:A:28:ILE:O	1:C:225:HIS:HB2	0.48	2.08	3	1
1:C:220:ARG:HA	1:C:223:VAL:HG12	0.48	1.85	15	1
2:B:126:GLU:OE2	2:B:127:PRO:HD2	0.47	2.09	3	1
1:C:218:VAL:HA	2:D:321:TYR:CE2	0.47	2.44	3	1
1:A:10:PRO:HG3	1:A:29:LEU:CD1	0.47	2.39	5	1
1:C:216:SER:OG	2:D:324:MET:HB3	0.47	2.09	2	1
1:A:54:LYS:HB2	1:A:54:LYS:NZ	0.47	2.25	7	1
1:C:211:CYS:SG	1:C:214:PHE:HB3	0.47	2.49	17	1
1:A:15:GLU:HB2	2:B:121:TYR:CD2	0.47	2.45	8	1
1:C:216:SER:OG	2:D:324:MET:HA	0.47	2.10	10	1
1:C:259:GLN:OE1	2:D:327:PRO:HB3	0.47	2.09	18	1
1:C:229:LEU:O	1:C:229:LEU:HD12	0.47	2.10	3	1
1:A:15:GLU:HG2	1:A:50:CYS:O	0.47	2.10	4	1
1:C:234:CYS:HB2	1:C:237:GLN:OE1	0.46	2.11	6	1
1:A:60:GLU:O	1:A:64:LYS:HD2	0.46	2.10	14	1
2:B:107:TYR:CZ	1:C:225:HIS:HA	0.46	2.45	13	3
1:C:227:LYS:O	1:C:238:ILE:HA	0.46	2.10	10	3
2:D:306:ILE:HG22	2:D:307:TYR:H	0.46	1.71	3	2
1:C:252:ASP:O	1:C:255:LEU:HB2	0.46	2.11	8	2
1:A:58:ILE:O	1:A:62:LEU:HG	0.46	2.11	17	3
1:A:52:ASP:OD2	1:A:54:LYS:HB2	0.46	2.10	4	2
1:C:247:ARG:CZ	1:C:249:VAL:HG12	0.46	2.41	2	1
1:C:234:CYS:SG	1:C:237:GLN:NE2	0.46	2.88	4	1
1:C:268:LYS:HB3	1:C:268:LYS:NZ	0.46	2.26	18	1
1:C:211:CYS:SG	1:C:237:GLN:HG3	0.46	2.50	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:66:LEU:HB2	1:C:259:GLN:OE1	0.46	2.11	13	1
1:A:22:ASN:HA	1:A:43:LYS:NZ	0.46	2.25	18	1
1:A:21:ALA:HA	2:D:307:TYR:O	0.46	2.10	19	1
1:A:16:SER:OG	2:B:124:MET:HB3	0.46	2.10	3	1
1:C:215:GLU:HB2	1:C:250:CYS:O	0.46	2.10	11	3
1:C:247:ARG:N	1:C:247:ARG:HD3	0.45	2.26	9	1
1:C:216:SER:HB3	1:C:255:LEU:HD21	0.45	1.89	10	1
1:A:45:ASN:OD1	1:A:47:ARG:HD3	0.45	2.12	12	1
1:A:47:ARG:HE	1:A:49:VAL:HG12	0.45	1.72	6	1
1:A:10:PRO:HG3	1:A:29:LEU:HD11	0.45	1.87	5	1
1:A:29:LEU:HA	2:B:107:TYR:OH	0.45	2.12	6	1
1:C:254:LYS:HA	1:C:259:GLN:NE2	0.45	2.27	9	3
1:A:68:LYS:HG2	1:C:236:CYS:HB2	0.45	1.88	14	1
2:D:308:THR:HG23	2:D:311:ASN:HB3	0.45	1.88	14	1
1:A:51:ILE:CG2	1:A:55:LEU:HD12	0.45	2.41	19	2
1:C:209:CYS:SG	1:C:210:PRO:HD2	0.45	2.52	3	2
1:C:216:SER:OG	2:D:323:SER:HA	0.45	2.12	7	1
1:A:59:GLN:OE1	1:C:266:LEU:HB2	0.45	2.11	2	2
1:A:52:ASP:OD1	1:A:54:LYS:HB2	0.45	2.11	7	1
1:A:54:LYS:HE3	2:B:125:LYS:O	0.45	2.12	8	1
1:C:210:PRO:HD3	1:C:231:THR:OG1	0.45	2.12	9	1
1:A:15:GLU:HB2	2:B:121:TYR:HB3	0.45	1.88	14	1
1:A:27:LYS:HD2	1:C:225:HIS:CG	0.45	2.47	4	2
1:A:42:LEU:HB2	1:A:45:ASN:HB3	0.45	1.87	10	1
1:A:24:LYS:HA	2:D:309:SER:OG	0.45	2.12	18	1
1:A:24:LYS:HE2	1:A:42:LEU:O	0.44	2.12	5	1
2:B:107:TYR:CE1	1:C:225:HIS:HA	0.44	2.47	6	1
1:A:42:LEU:CB	1:A:45:ASN:HB3	0.44	2.42	10	1
2:D:306:ILE:HG22	2:D:307:TYR:N	0.44	2.28	3	1
1:A:54:LYS:HB3	2:B:127:PRO:HD3	0.44	1.88	9	1
1:A:54:LYS:HE2	2:B:126:GLU:H	0.44	1.71	18	1
1:C:266:LEU:HD12	1:C:267:ASN:N	0.44	2.28	2	1
1:A:24:LYS:CG	1:A:43:LYS:HA	0.44	2.42	7	2
1:A:20:ARG:NH1	1:A:57:TRP:HB2	0.44	2.28	8	1
1:C:258:ILE:O	1:C:262:LEU:HG	0.44	2.11	17	2
1:A:11:CYS:SG	1:A:39:VAL:HG22	0.44	2.53	15	1
1:C:252:ASP:HB2	1:C:255:LEU:HG	0.44	1.89	5	1
1:C:222:ASN:O	1:C:242:LEU:HA	0.44	2.12	8	3
1:A:17:HIS:HA	1:A:55:LEU:HD21	0.44	1.89	5	1
1:A:27:LYS:HA	1:C:226:LEU:O	0.43	2.13	10	1
1:A:20:ARG:NH1	2:D:307:TYR:HA	0.43	2.29	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:252:ASP:OD1	1:C:254:LYS:HB2	0.43	2.13	14	1
2:B:110:ASP:OD2	1:C:224:LYS:HB3	0.43	2.13	1	1
1:A:42:LEU:CD1	1:A:46:ASN:HB3	0.43	2.43	17	1
2:B:107:TYR:HA	1:C:220:ARG:O	0.43	2.12	18	1
1:A:15:GLU:HG2	1:A:49:VAL:HB	0.43	1.91	19	1
1:C:242:LEU:CD1	1:C:246:ASN:HB3	0.43	2.43	17	1
2:D:311:ASN:C	2:D:311:ASN:HD22	0.43	2.17	6	1
1:C:244:ASN:C	1:C:246:ASN:H	0.43	2.16	2	1
2:B:107:TYR:OH	1:C:226:LEU:HB2	0.43	2.13	5	1
1:A:22:ASN:ND2	1:A:42:LEU:HD22	0.43	2.29	11	1
1:A:20:ARG:HB2	2:D:307:TYR:CE1	0.43	2.49	12	1
1:C:215:GLU:CG	1:C:249:VAL:HB	0.43	2.43	13	1
1:C:215:GLU:OE2	2:D:321:TYR:HB2	0.43	2.14	15	2
1:A:26:LEU:HG	1:A:38:ILE:CG2	0.43	2.44	18	1
1:A:17:HIS:CE1	2:B:123:SER:HB3	0.43	2.49	4	1
1:A:63:GLU:HA	1:A:66:LEU:HD23	0.43	1.90	14	1
1:A:26:LEU:O	1:C:227:LYS:HA	0.43	2.14	18	1
2:B:106:ILE:O	1:C:220:ARG:HD3	0.43	2.14	18	1
1:A:61:TYR:O	1:A:65:CYS:HB2	0.43	2.14	9	1
1:A:26:LEU:HB2	2:D:307:TYR:OH	0.43	2.14	18	1
1:A:68:LYS:HD3	1:C:235:ALA:O	0.42	2.13	8	1
1:A:18:VAL:HG21	1:A:49:VAL:HG21	0.42	1.91	11	1
1:A:59:GLN:OE1	2:B:127:PRO:HB3	0.42	2.15	14	1
1:C:242:LEU:HD13	1:C:247:ARG:O	0.42	2.14	18	1
1:C:224:LYS:HG3	1:C:243:LYS:HA	0.42	1.90	3	1
1:C:213:PHE:O	1:C:250:CYS:HB3	0.42	2.13	18	1
1:C:220:ARG:HE	1:C:220:ARG:C	0.42	2.17	15	1
1:A:15:GLU:CG	1:A:49:VAL:HB	0.42	2.43	4	1
1:C:217:HIS:CD2	2:D:324:MET:HB2	0.42	2.49	7	1
1:A:25:HIS:CD2	1:C:227:LYS:HD2	0.42	2.49	4	2
1:C:224:LYS:HG2	1:C:243:LYS:HG2	0.42	1.91	4	1
2:B:107:TYR:O	2:B:108:THR:HG23	0.42	2.14	5	1
1:C:254:LYS:O	2:D:327:PRO:HD3	0.42	2.15	8	1
2:B:108:THR:OG1	1:C:224:LYS:HA	0.42	2.15	10	1
2:D:307:TYR:CD1	2:D:307:TYR:N	0.42	2.88	10	1
1:C:251:ILE:CG2	1:C:255:LEU:HD12	0.42	2.45	18	2
1:C:218:VAL:HG23	2:D:321:TYR:CE1	0.42	2.50	3	1
1:A:54:LYS:O	2:B:127:PRO:HA	0.42	2.14	18	1
1:C:210:PRO:HG3	1:C:229:LEU:HD11	0.42	1.91	20	1
1:A:57:TRP:HE3	2:D:307:TYR:HH	0.42	1.55	14	1
1:C:216:SER:HA	1:C:252:ASP:OD1	0.41	2.14	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:107:TYR:CD1	1:C:223:VAL:HG13	0.41	2.50	7	1
1:A:24:LYS:HG3	1:A:43:LYS:HA	0.41	1.91	8	1
1:C:215:GLU:HB2	2:D:321:TYR:CD2	0.41	2.50	12	1
2:D:307:TYR:N	2:D:307:TYR:CD1	0.41	2.88	14	1
1:A:47:ARG:NH1	1:A:49:VAL:HA	0.41	2.29	18	1
1:C:220:ARG:O	1:C:223:VAL:HG12	0.41	2.15	1	1
2:B:107:TYR:CD2	1:C:223:VAL:HG13	0.41	2.50	10	1
1:A:20:ARG:O	1:A:23:VAL:HG12	0.41	2.16	10	1
1:A:15:GLU:O	1:A:51:ILE:HA	0.41	2.15	9	1
1:A:55:LEU:HD13	1:A:57:TRP:NE1	0.41	2.30	15	1
1:A:68:LYS:HZ2	1:A:68:LYS:HB3	0.41	1.76	20	1
1:A:10:PRO:HG2	1:A:37:GLN:OE1	0.41	2.15	1	1
1:A:10:PRO:HG3	1:A:37:GLN:CG	0.41	2.45	7	1
1:A:10:PRO:HG3	1:A:37:GLN:HG2	0.41	1.91	7	1
1:A:15:GLU:HB2	2:B:121:TYR:CG	0.41	2.51	12	1
1:A:29:LEU:CD1	1:A:31:THR:HG23	0.41	2.45	19	1
1:C:214:PHE:CE1	2:D:324:MET:HB3	0.41	2.51	19	1
1:C:210:PRO:HD3	1:C:231:THR:HG21	0.41	1.93	5	1
1:C:254:LYS:HB2	1:C:254:LYS:HZ2	0.41	1.76	15	1
1:A:65:CYS:O	1:A:68:LYS:HE3	0.41	2.16	2	1
1:A:9:CYS:HB3	1:A:10:PRO:HD2	0.41	1.93	19	1
1:C:237:GLN:HG3	1:C:250:CYS:SG	0.41	2.56	19	1
1:C:224:LYS:CG	1:C:243:LYS:HA	0.41	2.46	7	1
1:C:215:GLU:HG3	2:D:322:ASP:HB3	0.40	1.94	8	1
1:C:217:HIS:HB3	2:D:322:ASP:HB3	0.40	1.92	16	1
1:C:246:ASN:OD1	1:C:247:ARG:HD2	0.40	2.16	17	1
1:C:215:GLU:HG2	1:C:217:HIS:H	0.40	1.76	8	1
1:A:64:LYS:HD2	1:A:65:CYS:N	0.40	2.31	6	1
1:C:211:CYS:SG	1:C:239:VAL:HG22	0.40	2.57	15	1
1:C:217:HIS:H	1:C:255:LEU:HD21	0.40	1.77	1	1
1:C:223:VAL:CG2	1:C:240:ALA:HB1	0.40	2.47	3	1
1:A:65:CYS:HA	1:A:68:LYS:HB3	0.40	1.93	7	1
2:B:107:TYR:N	2:B:107:TYR:CD1	0.40	2.90	10	1
1:C:215:GLU:HB2	2:D:321:TYR:HB3	0.40	1.92	14	1

6.3 Torsion angles (i)

6.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR

entries. The Analysed column shows the number of residues for which the backbone conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	59/70 (84%)	52±2 (89±3%)	5±1 (8±2%)	2±2 (3±3%)	7 39
1	C	59/70 (84%)	52±2 (88±4%)	5±2 (9±4%)	2±2 (3±3%)	7 40
2	B	13/40 (32%)	8±2 (63±13%)	4±1 (28±10%)	1±1 (9±7%)	1 12
2	D	13/40 (32%)	8±2 (61±13%)	3±1 (25±11%)	2±1 (14±11%)	1 5
All	All	2880/4400 (65%)	2408 (84%)	341 (12%)	131 (5%)	4 28

All 42 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
2	D	308	THR	9
1	C	235	ALA	7
1	A	35	ALA	7
2	B	126	GLU	6
2	D	326	GLU	6
1	C	245	ASN	5
2	D	306	ILE	5
1	A	10	PRO	5
2	D	322	ASP	5
2	B	106	ILE	4
1	A	32	PRO	4
1	C	246	ASN	4
2	D	323	SER	4
2	B	122	ASP	4
1	A	45	ASN	3
1	C	218	VAL	3
1	A	43	LYS	3
1	A	46	ASN	3
1	C	243	LYS	3
2	D	311	ASN	3
1	C	210	PRO	3
1	A	17	HIS	3
1	A	18	VAL	3
2	D	324	MET	3
1	C	217	HIS	2
1	C	232	PRO	2
2	B	121	TYR	2
2	B	124	MET	2
1	A	55	LEU	2

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Mol	Chain	Res	Type	Models (Total)
2	B	111	ASN	2
2	B	123	SER	2
1	C	244	ASN	2
2	D	321	TYR	1
1	A	16	SER	1
1	C	216	SER	1
1	C	233	ASN	1
2	D	309	SER	1
1	A	44	ASN	1
1	A	36	CYS	1
1	C	255	LEU	1
1	C	256	LYS	1
2	B	108	THR	1

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	56/65 (86%)	52±1 (92±3%)	4±1 (8±3%)	17	65
1	C	56/65 (86%)	52±1 (92±3%)	4±1 (8±3%)	16	64
2	B	13/34 (38%)	13±1 (97±5%)	0±1 (3±5%)	39	86
2	D	13/34 (38%)	12±1 (93±7%)	1±1 (7±7%)	21	69
All	All	2760/3960 (70%)	2563 (93%)	197 (7%)	18	67

All 53 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	25	HIS	20
1	C	225	HIS	19
1	A	47	ARG	9
1	A	20	ARG	8
1	C	247	ARG	8
1	C	220	ARG	7
1	C	227	LYS	7
2	D	321	TYR	6

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Mol	Chain	Res	Type	Models (Total)
1	A	48	GLN	6
1	A	68	LYS	5
1	C	230	ASN	5
1	C	229	LEU	5
1	A	29	LEU	4
1	C	237	GLN	4
1	A	12	ARG	4
1	A	15	GLU	4
1	A	67	ASN	4
1	C	215	GLU	4
2	D	311	ASN	4
1	C	248	GLN	4
1	C	268	LYS	4
1	C	217	HIS	3
1	A	37	GLN	3
1	A	33	ASN	3
2	B	121	TYR	3
2	D	307	TYR	3
2	B	111	ASN	3
2	D	326	GLU	2
1	A	23	VAL	2
1	C	244	ASN	2
1	A	64	LYS	2
1	A	17	HIS	2
1	A	46	ASN	2
2	B	126	GLU	2
1	C	255	LEU	2
1	C	266	LEU	2
1	C	256	LYS	2
1	A	55	LEU	2
1	A	27	LYS	2
1	C	212	ARG	1
2	D	327	PRO	1
1	C	223	VAL	1
1	C	243	LYS	1
1	A	66	LEU	1
1	A	56	LYS	1
1	C	264	LYS	1
1	C	233	ASN	1
1	C	241	ARG	1
1	C	218	VAL	1
2	B	124	MET	1

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Mol	Chain	Res	Type	Models (Total)
2	D	324	MET	1
1	A	44	ASN	1
1	C	267	ASN	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 monosaccharides in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 86% 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	2478
Number of shifts mapped to atoms	2478
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	202	-0.49 ± 0.06	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	194	-0.40 ± 0.06	None needed (< 0.5 ppm)
$^{13}C'$	188	-0.28 ± 0.07	None needed (< 0.5 ppm)
^{15}N	194	-0.49 ± 0.28	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 86%, i.e. 1796 atoms were assigned a chemical shift out of a possible 2084. 0 out of 20 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	666/714 (93%)	270/284 (95%)	264/292 (90%)	132/138 (96%)
Sidechain	1030/1220 (84%)	704/784 (90%)	310/374 (83%)	16/62 (26%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	100/150 (67%)	60/72 (83%)	38/68 (56%)	2/10 (20%)
Overall	1796/2084 (86%)	1034/1140 (91%)	612/734 (83%)	150/210 (71%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 84%, i.e. 2478 atoms were assigned a chemical shift out of a possible 2942. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	986/1046 (94%)	402/420 (96%)	390/424 (92%)	194/202 (96%)
Sidechain	1344/1670 (80%)	922/1070 (86%)	406/516 (79%)	16/84 (19%)
Aromatic	148/226 (65%)	92/108 (85%)	54/108 (50%)	2/10 (20%)
Overall	2478/2942 (84%)	1416/1598 (89%)	850/1048 (81%)	212/296 (72%)

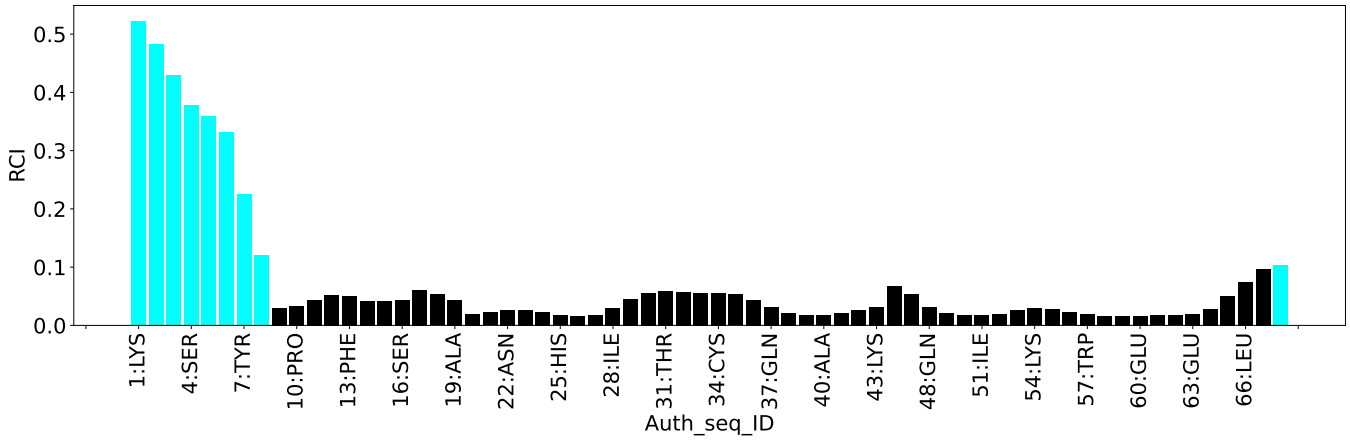
7.1.4 Statistically unusual chemical shifts (i)

There are no statistically unusual chemical shifts.

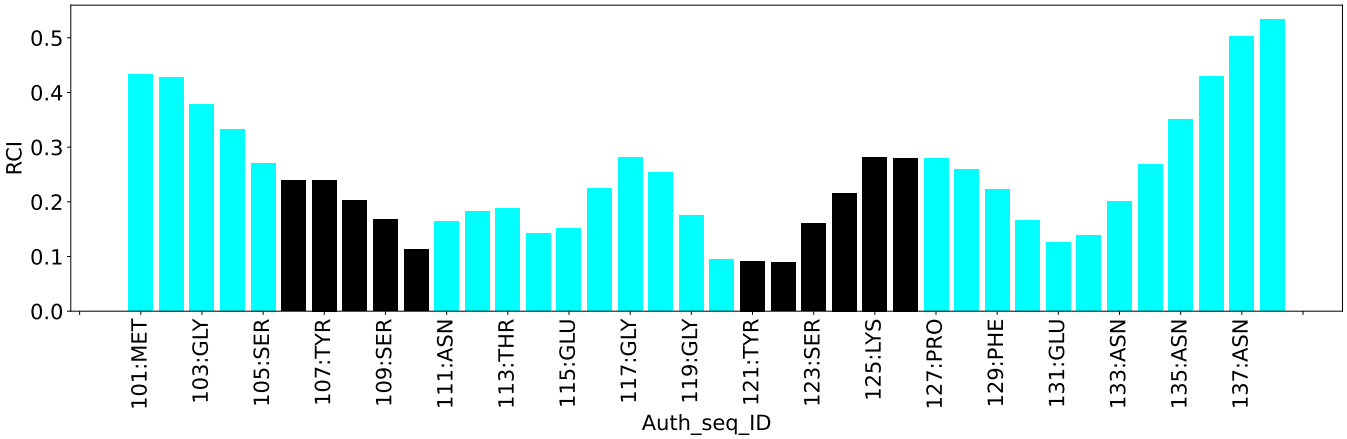
7.1.5 Random Coil Index (RCI) plots (i)

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

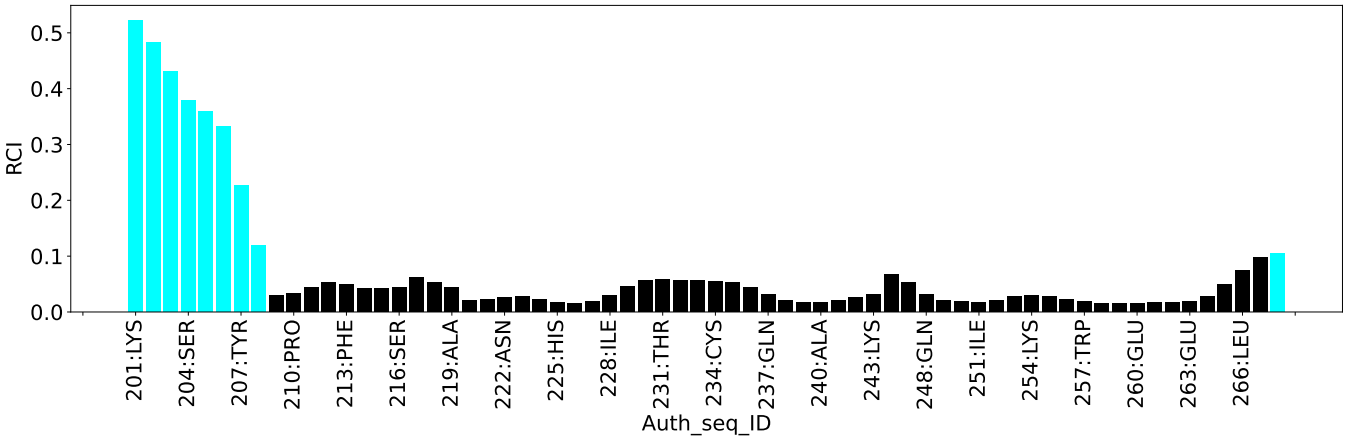
Random coil index (RCI) for chain A:



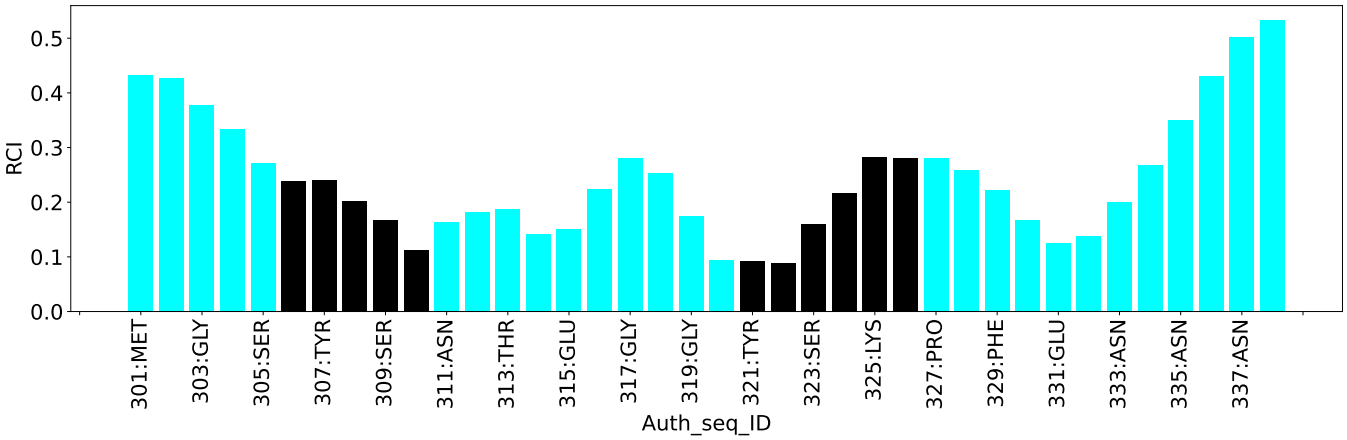
Random coil index (RCI) for chain B:



Random coil index (RCI) for chain C:



Random coil index (RCI) for chain D:



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	1674
Intra-residue (|i-j|=0)	558
Sequential (|i-j|=1)	333
Medium range (|i-j|>1 and |i-j|<5)	202
Long range (|i-j|≥5)	356
Inter-chain	175
Hydrogen bond restraints	32
Disulfide bond restraints	18
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	7.6
Number of long range restraints per residue[1]	1.8

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	32.5	0.2
0.2-0.5 (Medium)	22.7	0.5
>0.5 (Large)	0.1	0.55

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 (i)

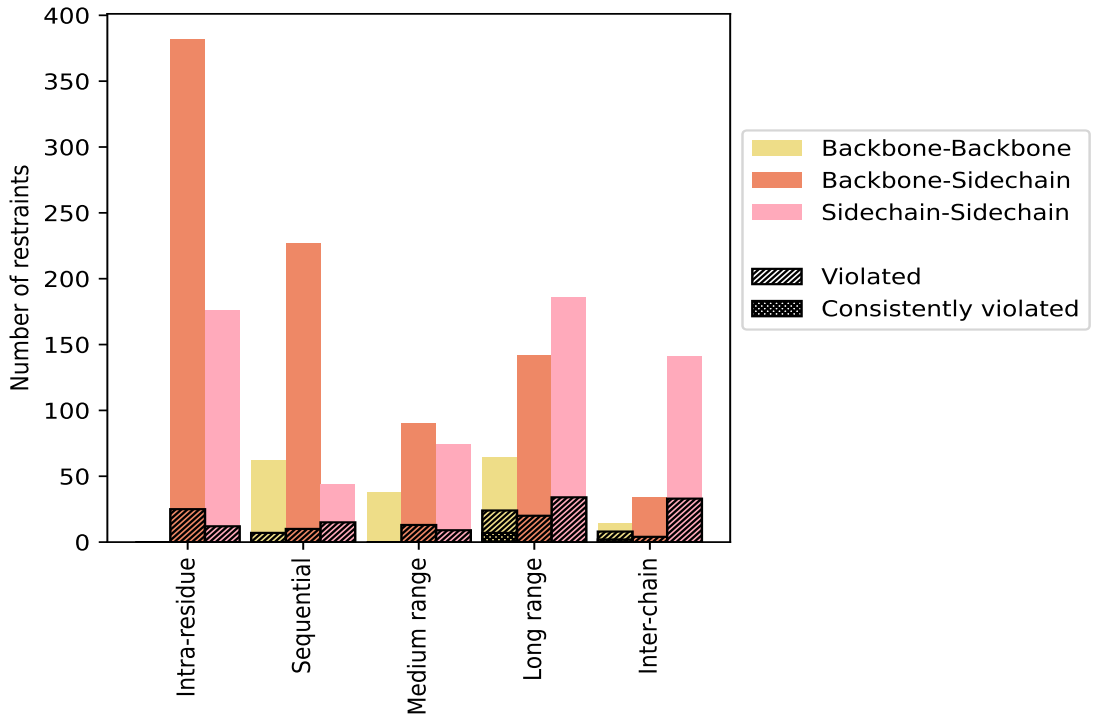
9.1 Summary of distance violations (i)

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

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	558	33.3	37	6.6	2.2	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	382	22.8	25	6.5	1.5	0	0.0	0.0
Sidechain-Sidechain	176	10.5	12	6.8	0.7	0	0.0	0.0
Sequential (|i-j|=1)	333	19.9	32	9.6	1.9	0	0.0	0.0
Backbone-Backbone	62	3.7	7	11.3	0.4	0	0.0	0.0
Backbone-Sidechain	227	13.6	10	4.4	0.6	0	0.0	0.0
Sidechain-Sidechain	44	2.6	15	34.1	0.9	0	0.0	0.0
Medium range (|i-j|>1 & |i-j|<5)	202	12.1	22	10.9	1.3	0	0.0	0.0
Backbone-Backbone	38	2.3	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	90	5.4	13	14.4	0.8	0	0.0	0.0
Sidechain-Sidechain	74	4.4	9	12.2	0.5	0	0.0	0.0
Long range (|i-j|≥5)	356	21.3	48	13.5	2.9	0	0.0	0.0
Backbone-Backbone	40	2.4	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	142	8.5	20	14.1	1.2	0	0.0	0.0
Sidechain-Sidechain	174	10.4	28	16.1	1.7	0	0.0	0.0
Inter-chain	175	10.5	37	21.1	2.2	0	0.0	0.0
Backbone-Backbone	6	0.4	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	34	2.0	4	11.8	0.2	0	0.0	0.0
Sidechain-Sidechain	135	8.1	33	24.4	2.0	0	0.0	0.0
Hydrogen bond	32	1.9	32	100.0	1.9	9	28.1	0.5
Disulfide bond	18	1.1	6	33.3	0.4	0	0.0	0.0
Total	1674	100.0	214	12.8	12.8	9	0.5	0.5
Backbone-Backbone	178	10.6	39	21.9	2.3	9	5.1	0.5
Backbone-Sidechain	875	52.3	72	8.2	4.3	0	0.0	0.0
Sidechain-Sidechain	621	37.1	103	16.6	6.2	0	0.0	0.0

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

9.1.1 Bar chart : Distribution of distance restraints and violations



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

9.2 Distance violation statistics for each model

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
1	4	6	3	27	13	53	0.22	0.4	0.08	0.21
2	4	0	3	33	15	55	0.19	0.34	0.07	0.18
3	2	4	2	33	15	56	0.21	0.46	0.08	0.19
4	2	3	7	32	17	61	0.19	0.38	0.07	0.18
5	3	5	3	26	14	51	0.2	0.39	0.08	0.17
6	5	4	2	24	16	51	0.21	0.47	0.09	0.2
7	6	5	3	24	19	57	0.19	0.47	0.08	0.16
8	5	2	4	24	14	49	0.22	0.39	0.08	0.22
9	4	1	3	30	7	45	0.21	0.39	0.07	0.2
10	3	6	6	30	14	59	0.19	0.45	0.08	0.17
11	7	4	3	27	14	55	0.2	0.55	0.09	0.19

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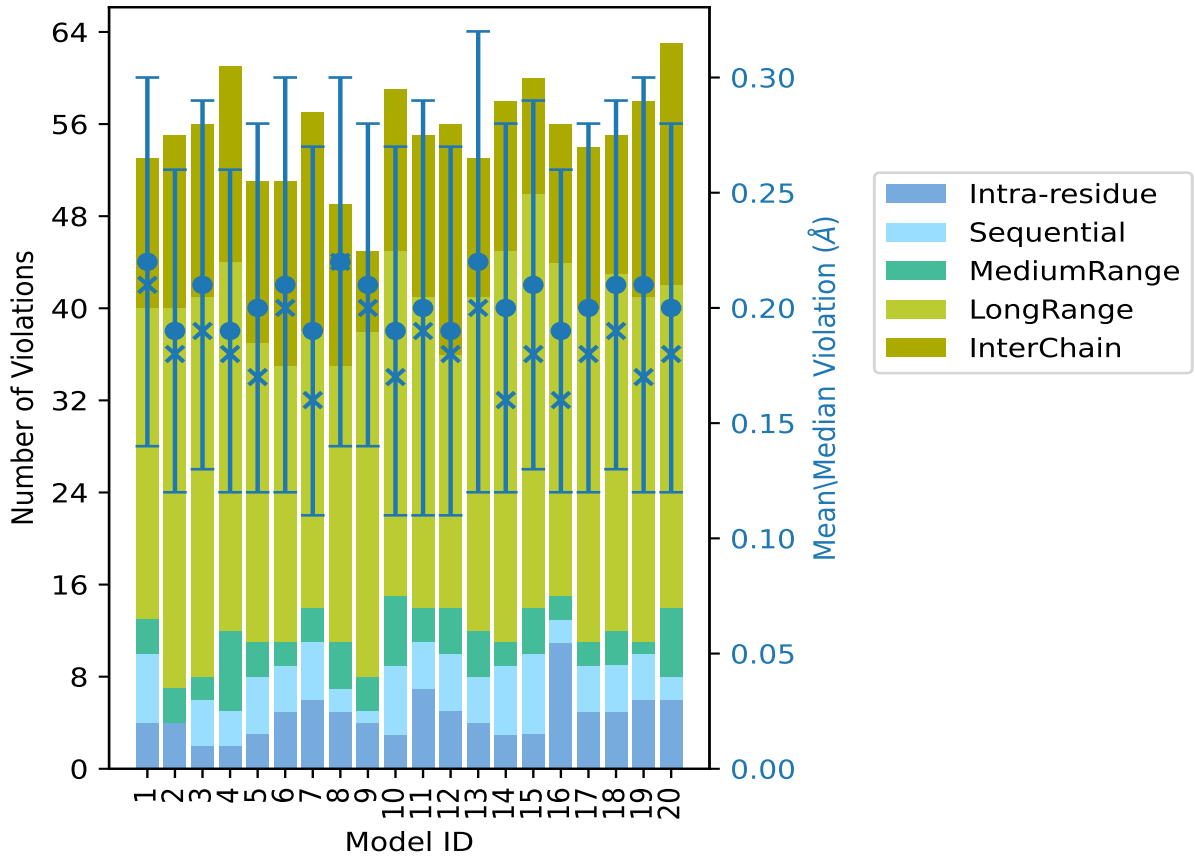
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
12	5	5	4	22	20	56	0.19	0.48	0.08	0.18
13	4	4	4	29	12	53	0.22	0.47	0.1	0.2
14	3	6	2	34	13	58	0.2	0.5	0.08	0.16
15	3	7	4	36	10	60	0.21	0.4	0.08	0.18
16	11	2	2	29	12	56	0.19	0.33	0.07	0.16
17	5	4	2	29	14	54	0.2	0.4	0.08	0.18
18	5	4	3	31	12	55	0.21	0.41	0.08	0.19
19	6	4	1	30	17	58	0.21	0.46	0.09	0.17
20	6	2	6	28	21	63	0.2	0.4	0.08	0.18

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

9.2.1 Bar graph : Distance Violation statistics for each model



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

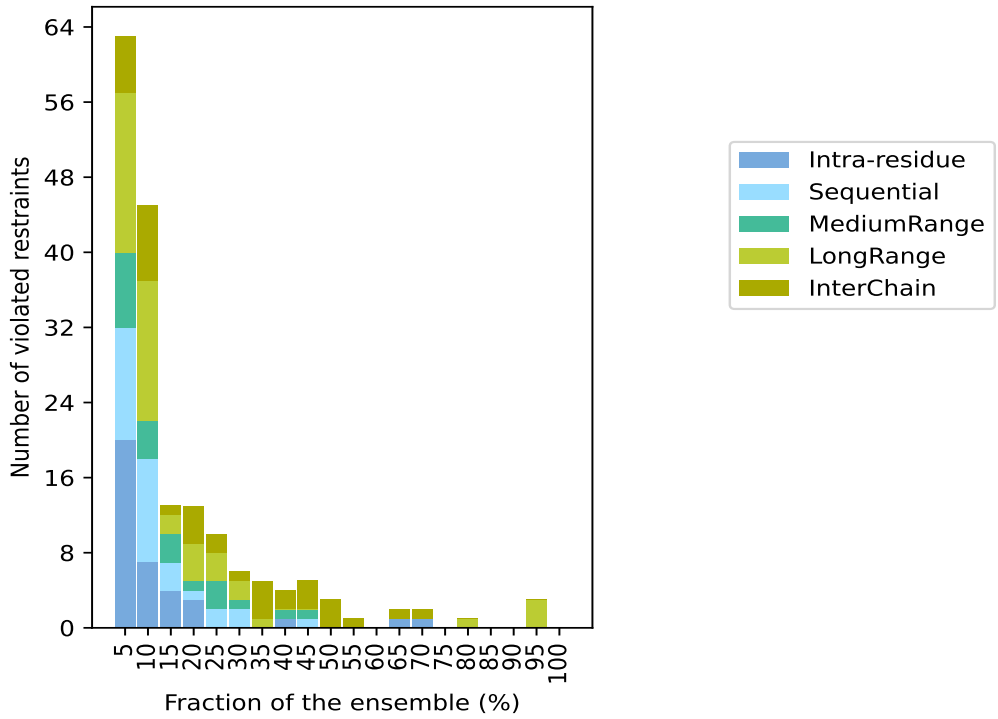
9.3 Distance violation statistics for the ensemble (i)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1448(IR:521, SQ:301, MR:180, LR:308, IC:138) 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]	%
20	12	8	17	6	63	1	5.0
7	11	4	15	8	45	2	10.0
4	3	3	2	1	13	3	15.0
3	1	1	4	4	13	4	20.0
0	2	3	3	2	10	5	25.0
0	2	1	2	1	6	6	30.0
0	0	0	1	4	5	7	35.0
1	0	1	0	2	4	8	40.0
0	1	1	0	3	5	9	45.0
0	0	0	0	3	3	10	50.0
0	0	0	0	1	1	11	55.0
0	0	0	0	0	0	12	60.0
1	0	0	0	1	2	13	65.0
1	0	0	0	1	2	14	70.0
0	0	0	0	0	0	15	75.0
0	0	0	1	0	1	16	80.0
0	0	0	0	0	0	17	85.0
0	0	0	0	0	0	18	90.0
0	0	0	3	0	3	19	95.0
0	0	0	0	0	0	20	100.0

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

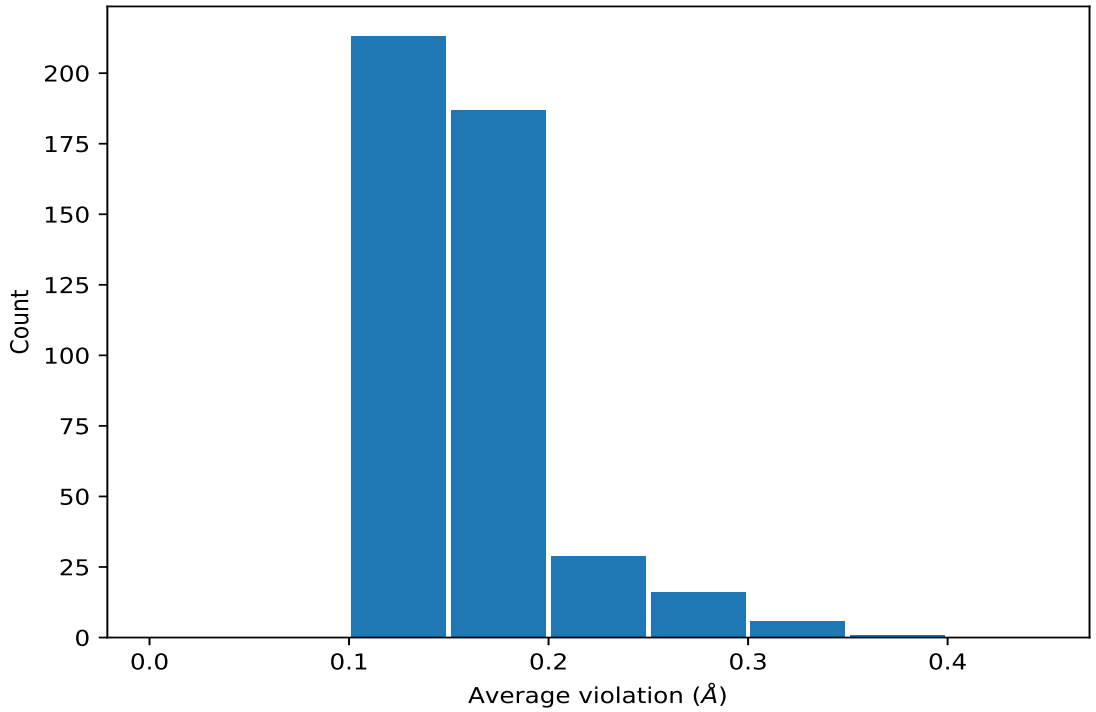
9.3.1 Bar graph : Distance violation statistics for the ensemble



9.4 Most violated distance restraints in the ensemble

9.4.1 Histogram : Distribution of mean distance violations

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



9.4.2 Table: Most violated distance restraints

The following table provides the mean and the standard deviation of 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)
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	20	0.33	0.05	0.34
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	20	0.33	0.08	0.35
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	20	0.29	0.06	0.3
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	20	0.29	0.06	0.29
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	20	0.28	0.04	0.28
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	20	0.28	0.05	0.29
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	20	0.28	0.05	0.29
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	20	0.27	0.05	0.3
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	20	0.24	0.05	0.26
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	19	0.37	0.11	0.38
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	19	0.31	0.07	0.32
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	19	0.28	0.05	0.29
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	19	0.25	0.06	0.25
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	19	0.24	0.05	0.24
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	19	0.2	0.05	0.2
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	19	0.18	0.04	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	19	0.18	0.04	0.18
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	19	0.18	0.04	0.18
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	19	0.18	0.04	0.18
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	19	0.18	0.04	0.18
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	19	0.18	0.04	0.18
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	19	0.18	0.04	0.18
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	19	0.18	0.04	0.18
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	19	0.18	0.04	0.18
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	19	0.18	0.04	0.18
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	19	0.18	0.04	0.18
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	19	0.18	0.04	0.18
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	19	0.17	0.03	0.18
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	19	0.17	0.03	0.18
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	19	0.17	0.03	0.18
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	19	0.17	0.03	0.18
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	19	0.17	0.03	0.18
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	19	0.17	0.03	0.18
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	19	0.17	0.03	0.18
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	19	0.17	0.03	0.18
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	19	0.17	0.03	0.18
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	19	0.17	0.03	0.18
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	19	0.17	0.03	0.18
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	19	0.17	0.03	0.18
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	18	0.26	0.05	0.25
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	18	0.22	0.04	0.22
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	18	0.22	0.06	0.22
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	16	0.34	0.13	0.35
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	16	0.2	0.04	0.21
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	15	0.18	0.05	0.19
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	15	0.18	0.05	0.16
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	14	0.23	0.08	0.22
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	14	0.23	0.08	0.22
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	14	0.23	0.08	0.22
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	14	0.23	0.08	0.22
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	14	0.23	0.08	0.22
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	14	0.23	0.08	0.22
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	14	0.19	0.04	0.19
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	14	0.15	0.04	0.15
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	14	0.15	0.04	0.15
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	13	0.18	0.06	0.17
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	13	0.18	0.06	0.17
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	13	0.18	0.06	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	13	0.16	0.04	0.15
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	13	0.16	0.04	0.15
(3,38)	1:C:240:ALA:O	1:C:249:VAL:N	12	0.19	0.04	0.18
(3,4)	1:A:24:LYS:N	1:A:41:ARG:O	12	0.19	0.05	0.2
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD1	11	0.19	0.06	0.18
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD2	11	0.19	0.06	0.18
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD1	10	0.18	0.05	0.18
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD2	10	0.18	0.05	0.18
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD1	10	0.18	0.05	0.18
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD2	10	0.18	0.05	0.18
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD1	10	0.18	0.05	0.18
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD2	10	0.18	0.05	0.18
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD1	10	0.17	0.06	0.16
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD2	10	0.17	0.06	0.16
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD1	10	0.17	0.06	0.16
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD2	10	0.17	0.06	0.16
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD1	10	0.17	0.06	0.16
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD2	10	0.17	0.06	0.16
(3,37)	1:C:240:ALA:O	1:C:249:VAL:H	10	0.16	0.03	0.15
(3,22)	1:A:40:ALA:O	1:A:49:VAL:H	10	0.15	0.04	0.14
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB2	10	0.14	0.02	0.13
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB3	10	0.14	0.02	0.13
(3,28)	1:C:224:LYS:N	1:C:241:ARG:O	9	0.23	0.04	0.23
(2,7)	1:A:36:CYS:CB	1:C:265:CYS:CB	9	0.21	0.07	0.19
(1,1584)	2:D:327:PRO:HG2	2:D:328:ALA:H	9	0.15	0.03	0.15
(1,1584)	2:D:327:PRO:HG3	2:D:328:ALA:H	9	0.15	0.03	0.15
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE1	9	0.15	0.04	0.13
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE2	9	0.15	0.04	0.13
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG12	9	0.15	0.03	0.14
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG13	9	0.15	0.03	0.14
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG12	9	0.15	0.03	0.14
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG13	9	0.15	0.03	0.14
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG12	9	0.15	0.03	0.14
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG13	9	0.15	0.03	0.14
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE1	9	0.14	0.03	0.13
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE2	9	0.14	0.03	0.13
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD2	8	0.21	0.05	0.21
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD3	8	0.21	0.05	0.21
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD1	8	0.2	0.07	0.18
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD2	8	0.2	0.07	0.18
(3,27)	1:C:224:LYS:H	1:C:241:ARG:O	8	0.19	0.04	0.2
(3,3)	1:A:24:LYS:H	1:A:41:ARG:O	8	0.19	0.03	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG12	8	0.17	0.04	0.16
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG13	8	0.17	0.04	0.16
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG12	8	0.17	0.04	0.16
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG13	8	0.17	0.04	0.16
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG12	8	0.17	0.04	0.16
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG13	8	0.17	0.04	0.16
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE1	8	0.16	0.06	0.15
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE2	8	0.16	0.06	0.15
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE1	8	0.16	0.06	0.15
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE2	8	0.16	0.06	0.15
(2,1)	1:A:9:CYS:CB	1:A:34:CYS:CB	7	0.27	0.09	0.28
(2,10)	1:A:65:CYS:CB	1:C:236:CYS:CB	7	0.22	0.1	0.21
(3,6)	1:A:26:LEU:N	1:C:228:ILE:O	7	0.15	0.04	0.14
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE1	7	0.14	0.02	0.12
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE2	7	0.14	0.02	0.12
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE1	7	0.14	0.02	0.12
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE2	7	0.14	0.02	0.12
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE1	7	0.14	0.02	0.12
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE2	7	0.14	0.02	0.12
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE1	7	0.14	0.02	0.13
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE2	7	0.14	0.02	0.13
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE1	7	0.14	0.02	0.13
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE2	7	0.14	0.02	0.13
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE1	7	0.14	0.02	0.13
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE2	7	0.14	0.02	0.13
(1,255)	1:A:27:LYS:HB2	1:C:225:HIS:HD2	7	0.12	0.01	0.12
(1,255)	1:A:27:LYS:HB3	1:C:225:HIS:HD2	7	0.12	0.01	0.12
(2,13)	1:C:209:CYS:CB	1:C:234:CYS:CB	6	0.22	0.12	0.18
(1,1603)	2:D:331:GLU:HB2	2:D:332:GLU:H	6	0.18	0.04	0.16
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB2	6	0.18	0.04	0.18
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB3	6	0.18	0.04	0.18
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB2	6	0.18	0.04	0.18
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB3	6	0.18	0.04	0.18
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB2	6	0.18	0.04	0.18
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB3	6	0.18	0.04	0.18
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB2	6	0.18	0.04	0.18
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB3	6	0.18	0.04	0.18
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB2	6	0.18	0.04	0.18
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB3	6	0.18	0.04	0.18
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB2	6	0.18	0.04	0.18
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB3	6	0.18	0.04	0.18
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE1	6	0.16	0.05	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE2	6	0.16	0.05	0.14
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE1	6	0.16	0.05	0.14
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE2	6	0.16	0.05	0.14
(1,785)	2:B:112:TYR:HB3	2:B:114:GLU:H	6	0.15	0.03	0.16
(1,832)	2:B:127:PRO:HG2	2:B:128:ALA:H	6	0.15	0.03	0.14
(1,832)	2:B:127:PRO:HG3	2:B:128:ALA:H	6	0.15	0.03	0.14
(2,17)	1:C:211:CYS:CB	1:C:250:CYS:SG	6	0.13	0.01	0.13
(1,984)	1:C:220:ARG:HD2	1:C:223:VAL:H	5	0.27	0.05	0.26
(1,984)	1:C:220:ARG:HD3	1:C:223:VAL:H	5	0.27	0.05	0.26
(1,303)	1:A:29:LEU:HB2	2:B:112:TYR:HD1	5	0.16	0.06	0.12
(1,303)	1:A:29:LEU:HB2	2:B:112:TYR:HD2	5	0.16	0.06	0.12
(1,303)	1:A:29:LEU:HB3	2:B:112:TYR:HD1	5	0.16	0.06	0.12
(1,303)	1:A:29:LEU:HB3	2:B:112:TYR:HD2	5	0.16	0.06	0.12
(1,407)	1:A:42:LEU:HD11	1:A:47:ARG:HB2	5	0.16	0.05	0.15
(1,407)	1:A:42:LEU:HD11	1:A:47:ARG:HB3	5	0.16	0.05	0.15
(1,407)	1:A:42:LEU:HD12	1:A:47:ARG:HB2	5	0.16	0.05	0.15
(1,407)	1:A:42:LEU:HD12	1:A:47:ARG:HB3	5	0.16	0.05	0.15
(1,407)	1:A:42:LEU:HD13	1:A:47:ARG:HB2	5	0.16	0.05	0.15
(1,407)	1:A:42:LEU:HD13	1:A:47:ARG:HB3	5	0.16	0.05	0.15
(1,407)	1:A:42:LEU:HD21	1:A:47:ARG:HB2	5	0.16	0.05	0.15
(1,407)	1:A:42:LEU:HD21	1:A:47:ARG:HB3	5	0.16	0.05	0.15
(1,407)	1:A:42:LEU:HD22	1:A:47:ARG:HB2	5	0.16	0.05	0.15
(1,407)	1:A:42:LEU:HD22	1:A:47:ARG:HB3	5	0.16	0.05	0.15
(1,407)	1:A:42:LEU:HD23	1:A:47:ARG:HB2	5	0.16	0.05	0.15
(1,407)	1:A:42:LEU:HD23	1:A:47:ARG:HB3	5	0.16	0.05	0.15
(1,1117)	1:C:229:LEU:HD21	2:D:312:TYR:HD1	5	0.16	0.02	0.16
(1,1117)	1:C:229:LEU:HD21	2:D:312:TYR:HD2	5	0.16	0.02	0.16
(1,1117)	1:C:229:LEU:HD22	2:D:312:TYR:HD1	5	0.16	0.02	0.16
(1,1117)	1:C:229:LEU:HD22	2:D:312:TYR:HD2	5	0.16	0.02	0.16
(1,1117)	1:C:229:LEU:HD23	2:D:312:TYR:HD1	5	0.16	0.02	0.16
(1,1117)	1:C:229:LEU:HD23	2:D:312:TYR:HD2	5	0.16	0.02	0.16
(1,1586)	2:D:328:ALA:HA	2:D:329:PHE:H	5	0.16	0.04	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD11	5	0.15	0.02	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD12	5	0.15	0.02	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD13	5	0.15	0.02	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD21	5	0.15	0.02	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD22	5	0.15	0.02	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD23	5	0.15	0.02	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD11	5	0.15	0.02	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD12	5	0.15	0.02	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD13	5	0.15	0.02	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD21	5	0.15	0.02	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD22	5	0.15	0.02	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD23	5	0.15	0.02	0.16
(1,695)	1:A:65:CYS:H	1:A:68:LYS:HG2	5	0.14	0.01	0.15
(1,695)	1:A:65:CYS:H	1:A:68:LYS:HG3	5	0.14	0.01	0.15
(3,5)	1:A:26:LEU:H	1:C:228:ILE:O	5	0.14	0.04	0.13
(1,115)	1:A:20:ARG:HB2	1:A:57:TRP:HH2	5	0.14	0.01	0.14
(1,115)	1:A:20:ARG:HB3	1:A:57:TRP:HH2	5	0.14	0.01	0.14
(1,1523)	2:D:306:ILE:HD11	2:D:307:TYR:HE1	5	0.13	0.02	0.12
(1,1523)	2:D:306:ILE:HD11	2:D:307:TYR:HE2	5	0.13	0.02	0.12
(1,1523)	2:D:306:ILE:HD12	2:D:307:TYR:HE1	5	0.13	0.02	0.12
(1,1523)	2:D:306:ILE:HD12	2:D:307:TYR:HE2	5	0.13	0.02	0.12
(1,1523)	2:D:306:ILE:HD13	2:D:307:TYR:HE1	5	0.13	0.02	0.12
(1,1523)	2:D:306:ILE:HD13	2:D:307:TYR:HE2	5	0.13	0.02	0.12
(2,5)	1:A:11:CYS:CB	1:A:50:CYS:SG	5	0.12	0.01	0.12
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG21	5	0.11	0.0	0.11
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG22	5	0.11	0.0	0.11
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG23	5	0.11	0.0	0.11
(1,116)	1:A:20:ARG:HD2	1:A:23:VAL:H	4	0.31	0.04	0.32
(1,116)	1:A:20:ARG:HD3	1:A:23:VAL:H	4	0.31	0.04	0.32
(1,740)	1:A:68:LYS:HA	1:A:68:LYS:HD2	4	0.2	0.05	0.18
(1,740)	1:A:68:LYS:HA	1:A:68:LYS:HD3	4	0.2	0.05	0.18
(1,1547)	2:D:314:GLU:H	2:D:314:GLU:HG2	4	0.2	0.04	0.18
(1,1547)	2:D:314:GLU:H	2:D:314:GLU:HG3	4	0.2	0.04	0.18
(1,988)	1:C:220:ARG:HG2	1:C:261:TYR:HE1	4	0.16	0.02	0.16
(1,988)	1:C:220:ARG:HG2	1:C:261:TYR:HE2	4	0.16	0.02	0.16
(1,988)	1:C:220:ARG:HG3	1:C:261:TYR:HE1	4	0.16	0.02	0.16
(1,988)	1:C:220:ARG:HG3	1:C:261:TYR:HE2	4	0.16	0.02	0.16
(1,147)	1:A:23:VAL:HG11	2:D:307:TYR:HB2	4	0.16	0.05	0.15
(1,147)	1:A:23:VAL:HG12	2:D:307:TYR:HB2	4	0.16	0.05	0.15
(1,147)	1:A:23:VAL:HG13	2:D:307:TYR:HB2	4	0.16	0.05	0.15
(1,147)	1:A:23:VAL:HG21	2:D:307:TYR:HB2	4	0.16	0.05	0.15
(1,147)	1:A:23:VAL:HG22	2:D:307:TYR:HB2	4	0.16	0.05	0.15
(1,147)	1:A:23:VAL:HG23	2:D:307:TYR:HB2	4	0.16	0.05	0.15
(1,304)	1:A:29:LEU:HB2	2:B:112:TYR:HE1	4	0.16	0.02	0.16
(1,304)	1:A:29:LEU:HB2	2:B:112:TYR:HE2	4	0.16	0.02	0.16
(1,304)	1:A:29:LEU:HB3	2:B:112:TYR:HE1	4	0.16	0.02	0.16
(1,304)	1:A:29:LEU:HB3	2:B:112:TYR:HE2	4	0.16	0.02	0.16
(1,171)	1:A:24:LYS:HB2	1:A:25:HIS:HD2	4	0.13	0.01	0.13
(1,171)	1:A:24:LYS:HB3	1:A:25:HIS:HD2	4	0.13	0.01	0.13
(1,894)	1:C:210:PRO:HG2	2:D:312:TYR:HE1	4	0.13	0.01	0.13
(1,894)	1:C:210:PRO:HG2	2:D:312:TYR:HE2	4	0.13	0.01	0.13
(1,894)	1:C:210:PRO:HG3	2:D:312:TYR:HE1	4	0.13	0.01	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,894)	1:C:210:PRO:HG3	2:D:312:TYR:HE2	4	0.13	0.01	0.13
(1,1303)	1:C:254:LYS:H	1:C:254:LYS:HE2	4	0.13	0.01	0.12
(1,1303)	1:C:254:LYS:H	1:C:254:LYS:HE3	4	0.13	0.01	0.12
(1,120)	1:A:20:ARG:HG2	1:A:61:TYR:HE1	4	0.13	0.01	0.13
(1,120)	1:A:20:ARG:HG2	1:A:61:TYR:HE2	4	0.13	0.01	0.13
(1,120)	1:A:20:ARG:HG3	1:A:61:TYR:HE1	4	0.13	0.01	0.13
(1,120)	1:A:20:ARG:HG3	1:A:61:TYR:HE2	4	0.13	0.01	0.13
(1,326)	1:A:35:ALA:HB1	1:A:54:LYS:HD2	4	0.12	0.03	0.11
(1,326)	1:A:35:ALA:HB1	1:A:54:LYS:HD3	4	0.12	0.03	0.11
(1,326)	1:A:35:ALA:HB2	1:A:54:LYS:HD2	4	0.12	0.03	0.11
(1,326)	1:A:35:ALA:HB2	1:A:54:LYS:HD3	4	0.12	0.03	0.11
(1,326)	1:A:35:ALA:HB3	1:A:54:LYS:HD2	4	0.12	0.03	0.11
(1,326)	1:A:35:ALA:HB3	1:A:54:LYS:HD3	4	0.12	0.03	0.11
(1,373)	1:A:40:ALA:HB1	1:A:57:TRP:HZ2	4	0.12	0.02	0.11
(1,373)	1:A:40:ALA:HB2	1:A:57:TRP:HZ2	4	0.12	0.02	0.11
(1,373)	1:A:40:ALA:HB3	1:A:57:TRP:HZ2	4	0.12	0.02	0.11
(1,219)	1:A:26:LEU:HD21	1:C:228:ILE:H	4	0.12	0.0	0.12
(1,219)	1:A:26:LEU:HD22	1:C:228:ILE:H	4	0.12	0.0	0.12
(1,219)	1:A:26:LEU:HD23	1:C:228:ILE:H	4	0.12	0.0	0.12
(1,1514)	2:D:306:ILE:H	2:D:306:ILE:HB	3	0.18	0.06	0.18
(1,404)	1:A:42:LEU:HD11	1:A:46:ASN:HB2	3	0.18	0.04	0.2
(1,404)	1:A:42:LEU:HD11	1:A:46:ASN:HB3	3	0.18	0.04	0.2
(1,404)	1:A:42:LEU:HD12	1:A:46:ASN:HB2	3	0.18	0.04	0.2
(1,404)	1:A:42:LEU:HD12	1:A:46:ASN:HB3	3	0.18	0.04	0.2
(1,404)	1:A:42:LEU:HD13	1:A:46:ASN:HB2	3	0.18	0.04	0.2
(1,404)	1:A:42:LEU:HD13	1:A:46:ASN:HB3	3	0.18	0.04	0.2
(1,404)	1:A:42:LEU:HD21	1:A:46:ASN:HB2	3	0.18	0.04	0.2
(1,404)	1:A:42:LEU:HD21	1:A:46:ASN:HB3	3	0.18	0.04	0.2
(1,404)	1:A:42:LEU:HD22	1:A:46:ASN:HB2	3	0.18	0.04	0.2
(1,404)	1:A:42:LEU:HD22	1:A:46:ASN:HB3	3	0.18	0.04	0.2
(1,404)	1:A:42:LEU:HD23	1:A:46:ASN:HB2	3	0.18	0.04	0.2
(1,404)	1:A:42:LEU:HD23	1:A:46:ASN:HB3	3	0.18	0.04	0.2
(1,408)	1:A:42:LEU:HD11	1:A:47:ARG:HD2	3	0.17	0.02	0.18
(1,408)	1:A:42:LEU:HD11	1:A:47:ARG:HD3	3	0.17	0.02	0.18
(1,408)	1:A:42:LEU:HD12	1:A:47:ARG:HD2	3	0.17	0.02	0.18
(1,408)	1:A:42:LEU:HD12	1:A:47:ARG:HD3	3	0.17	0.02	0.18
(1,408)	1:A:42:LEU:HD13	1:A:47:ARG:HD2	3	0.17	0.02	0.18
(1,408)	1:A:42:LEU:HD13	1:A:47:ARG:HD3	3	0.17	0.02	0.18
(1,408)	1:A:42:LEU:HD21	1:A:47:ARG:HD2	3	0.17	0.02	0.18
(1,408)	1:A:42:LEU:HD21	1:A:47:ARG:HD3	3	0.17	0.02	0.18
(1,408)	1:A:42:LEU:HD22	1:A:47:ARG:HD2	3	0.17	0.02	0.18
(1,408)	1:A:42:LEU:HD22	1:A:47:ARG:HD3	3	0.17	0.02	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,408)	1:A:42:LEU:HD23	1:A:47:ARG:HD2	3	0.17	0.02	0.18
(1,408)	1:A:42:LEU:HD23	1:A:47:ARG:HD3	3	0.17	0.02	0.18
(1,1477)	1:C:265:CYS:H	1:C:268:LYS:HG2	3	0.17	0.01	0.18
(1,1477)	1:C:265:CYS:H	1:C:268:LYS:HG3	3	0.17	0.01	0.18
(3,16)	1:A:28:ILE:O	1:C:226:LEU:N	3	0.17	0.02	0.17
(1,1476)	1:C:265:CYS:H	1:C:268:LYS:HD2	3	0.16	0.05	0.15
(1,1476)	1:C:265:CYS:H	1:C:268:LYS:HD3	3	0.16	0.05	0.15
(1,764)	2:B:106:ILE:HB	2:B:107:TYR:HD1	3	0.15	0.03	0.14
(1,764)	2:B:106:ILE:HB	2:B:107:TYR:HD2	3	0.15	0.03	0.14
(3,15)	1:A:28:ILE:O	1:C:226:LEU:H	3	0.15	0.02	0.14
(1,1133)	1:C:235:ALA:HB1	1:C:254:LYS:HD2	3	0.14	0.01	0.14
(1,1133)	1:C:235:ALA:HB1	1:C:254:LYS:HD3	3	0.14	0.01	0.14
(1,1133)	1:C:235:ALA:HB2	1:C:254:LYS:HD2	3	0.14	0.01	0.14
(1,1133)	1:C:235:ALA:HB2	1:C:254:LYS:HD3	3	0.14	0.01	0.14
(1,1133)	1:C:235:ALA:HB3	1:C:254:LYS:HD2	3	0.14	0.01	0.14
(1,1133)	1:C:235:ALA:HB3	1:C:254:LYS:HD3	3	0.14	0.01	0.14
(1,253)	1:A:27:LYS:HG3	2:B:112:TYR:HE1	3	0.14	0.03	0.12
(1,253)	1:A:27:LYS:HG3	2:B:112:TYR:HE2	3	0.14	0.03	0.12
(1,788)	2:B:113:THR:H	2:B:113:THR:HG21	3	0.14	0.0	0.14
(1,788)	2:B:113:THR:H	2:B:113:THR:HG22	3	0.14	0.0	0.14
(1,788)	2:B:113:THR:H	2:B:113:THR:HG23	3	0.14	0.0	0.14
(1,1542)	2:D:313:THR:H	2:D:313:THR:HG21	3	0.13	0.02	0.12
(1,1542)	2:D:313:THR:H	2:D:313:THR:HG22	3	0.13	0.02	0.12
(1,1542)	2:D:313:THR:H	2:D:313:THR:HG23	3	0.13	0.02	0.12
(1,853)	2:B:131:GLU:HB2	2:B:132:GLU:H	3	0.13	0.02	0.12
(1,496)	1:A:54:LYS:H	1:A:54:LYS:HE2	3	0.12	0.01	0.12
(1,496)	1:A:54:LYS:H	1:A:54:LYS:HE3	3	0.12	0.01	0.12
(1,871)	1:C:206:SER:HB2	1:C:207:TYR:HD1	3	0.12	0.01	0.12
(1,871)	1:C:206:SER:HB2	1:C:207:TYR:HD2	3	0.12	0.01	0.12
(1,871)	1:C:206:SER:HB3	1:C:207:TYR:HD1	3	0.12	0.01	0.12
(1,871)	1:C:206:SER:HB3	1:C:207:TYR:HD2	3	0.12	0.01	0.12
(2,18)	1:C:211:CYS:SG	1:C:250:CYS:CB	3	0.11	0.0	0.11
(1,1316)	1:C:254:LYS:HB3	1:C:254:LYS:HE2	2	0.26	0.02	0.26
(1,1316)	1:C:254:LYS:HB3	1:C:254:LYS:HE3	2	0.26	0.02	0.26
(1,793)	2:B:114:GLU:H	2:B:114:GLU:HG2	2	0.25	0.02	0.25
(1,793)	2:B:114:GLU:H	2:B:114:GLU:HG3	2	0.25	0.02	0.25
(1,797)	2:B:115:GLU:HA	2:B:116:MET:H	2	0.24	0.02	0.24
(1,1551)	2:D:315:GLU:HA	2:D:316:MET:H	2	0.23	0.0	0.23
(1,508)	1:A:54:LYS:HB3	1:A:54:LYS:HD2	2	0.2	0.09	0.2
(1,508)	1:A:54:LYS:HB3	1:A:54:LYS:HD3	2	0.2	0.09	0.2
(1,757)	2:B:106:ILE:H	2:B:106:ILE:HB	2	0.2	0.06	0.2
(1,1115)	1:C:229:LEU:HD11	2:D:312:TYR:HD1	2	0.18	0.01	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1115)	1:C:229:LEU:HD11	2:D:312:TYR:HD2	2	0.18	0.01	0.18
(1,1115)	1:C:229:LEU:HD12	2:D:312:TYR:HD1	2	0.18	0.01	0.18
(1,1115)	1:C:229:LEU:HD12	2:D:312:TYR:HD2	2	0.18	0.01	0.18
(1,1115)	1:C:229:LEU:HD13	2:D:312:TYR:HD1	2	0.18	0.01	0.18
(1,1115)	1:C:229:LEU:HD13	2:D:312:TYR:HD2	2	0.18	0.01	0.18
(1,1215)	1:C:242:LEU:HD11	1:C:247:ARG:HD2	2	0.18	0.03	0.18
(1,1215)	1:C:242:LEU:HD11	1:C:247:ARG:HD3	2	0.18	0.03	0.18
(1,1215)	1:C:242:LEU:HD12	1:C:247:ARG:HD2	2	0.18	0.03	0.18
(1,1215)	1:C:242:LEU:HD12	1:C:247:ARG:HD3	2	0.18	0.03	0.18
(1,1215)	1:C:242:LEU:HD13	1:C:247:ARG:HD2	2	0.18	0.03	0.18
(1,1215)	1:C:242:LEU:HD13	1:C:247:ARG:HD3	2	0.18	0.03	0.18
(1,1215)	1:C:242:LEU:HD21	1:C:247:ARG:HD2	2	0.18	0.03	0.18
(1,1215)	1:C:242:LEU:HD21	1:C:247:ARG:HD3	2	0.18	0.03	0.18
(1,1215)	1:C:242:LEU:HD22	1:C:247:ARG:HD2	2	0.18	0.03	0.18
(1,1215)	1:C:242:LEU:HD22	1:C:247:ARG:HD3	2	0.18	0.03	0.18
(1,1215)	1:C:242:LEU:HD23	1:C:247:ARG:HD2	2	0.18	0.03	0.18
(1,1215)	1:C:242:LEU:HD23	1:C:247:ARG:HD3	2	0.18	0.03	0.18
(1,1036)	1:C:224:LYS:HE2	1:C:243:LYS:H	2	0.17	0.0	0.17
(1,1036)	1:C:224:LYS:HE3	1:C:243:LYS:H	2	0.17	0.0	0.17
(1,1545)	2:D:313:THR:HG21	2:D:315:GLU:H	2	0.17	0.02	0.17
(1,1545)	2:D:313:THR:HG22	2:D:315:GLU:H	2	0.17	0.02	0.17
(1,1545)	2:D:313:THR:HG23	2:D:315:GLU:H	2	0.17	0.02	0.17
(1,176)	1:A:24:LYS:HE2	1:A:43:LYS:H	2	0.16	0.02	0.16
(1,176)	1:A:24:LYS:HE3	1:A:43:LYS:H	2	0.16	0.02	0.16
(1,965)	1:C:218:VAL:HG11	2:D:321:TYR:HD1	2	0.16	0.01	0.16
(1,965)	1:C:218:VAL:HG11	2:D:321:TYR:HD2	2	0.16	0.01	0.16
(1,965)	1:C:218:VAL:HG12	2:D:321:TYR:HD1	2	0.16	0.01	0.16
(1,965)	1:C:218:VAL:HG12	2:D:321:TYR:HD2	2	0.16	0.01	0.16
(1,965)	1:C:218:VAL:HG13	2:D:321:TYR:HD1	2	0.16	0.01	0.16
(1,965)	1:C:218:VAL:HG13	2:D:321:TYR:HD2	2	0.16	0.01	0.16
(1,965)	1:C:218:VAL:HG21	2:D:321:TYR:HD1	2	0.16	0.01	0.16
(1,965)	1:C:218:VAL:HG21	2:D:321:TYR:HD2	2	0.16	0.01	0.16
(1,965)	1:C:218:VAL:HG22	2:D:321:TYR:HD1	2	0.16	0.01	0.16
(1,965)	1:C:218:VAL:HG22	2:D:321:TYR:HD2	2	0.16	0.01	0.16
(1,965)	1:C:218:VAL:HG23	2:D:321:TYR:HD1	2	0.16	0.01	0.16
(1,965)	1:C:218:VAL:HG23	2:D:321:TYR:HD2	2	0.16	0.01	0.16
(1,1113)	1:C:229:LEU:HB2	2:D:312:TYR:HD1	2	0.16	0.05	0.16
(1,1113)	1:C:229:LEU:HB2	2:D:312:TYR:HD2	2	0.16	0.05	0.16
(1,1113)	1:C:229:LEU:HB3	2:D:312:TYR:HD1	2	0.16	0.05	0.16
(1,1113)	1:C:229:LEU:HB3	2:D:312:TYR:HD2	2	0.16	0.05	0.16
(1,1539)	2:D:312:TYR:HB3	2:D:314:GLU:H	2	0.16	0.04	0.16
(1,143)	1:A:23:VAL:HG11	2:D:307:TYR:HE1	2	0.15	0.01	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,143)	1:A:23:VAL:HG11	2:D:307:TYR:HE2	2	0.15	0.01	0.15
(1,143)	1:A:23:VAL:HG12	2:D:307:TYR:HE1	2	0.15	0.01	0.15
(1,143)	1:A:23:VAL:HG12	2:D:307:TYR:HE2	2	0.15	0.01	0.15
(1,143)	1:A:23:VAL:HG13	2:D:307:TYR:HE1	2	0.15	0.01	0.15
(1,143)	1:A:23:VAL:HG13	2:D:307:TYR:HE2	2	0.15	0.01	0.15
(1,1324)	1:C:255:LEU:H	1:C:255:LEU:HG	2	0.15	0.02	0.15
(1,249)	1:A:27:LYS:HG2	2:B:112:TYR:HE1	2	0.15	0.0	0.15
(1,249)	1:A:27:LYS:HG2	2:B:112:TYR:HE2	2	0.15	0.0	0.15
(1,1011)	1:C:223:VAL:HG11	1:C:242:LEU:H	2	0.15	0.02	0.15
(1,1011)	1:C:223:VAL:HG12	1:C:242:LEU:H	2	0.15	0.02	0.15
(1,1011)	1:C:223:VAL:HG13	1:C:242:LEU:H	2	0.15	0.02	0.15
(1,1011)	1:C:223:VAL:HG21	1:C:242:LEU:H	2	0.15	0.02	0.15
(1,1011)	1:C:223:VAL:HG22	1:C:242:LEU:H	2	0.15	0.02	0.15
(1,1011)	1:C:223:VAL:HG23	1:C:242:LEU:H	2	0.15	0.02	0.15
(1,952)	1:C:218:VAL:HB	1:C:251:ILE:HG21	2	0.14	0.03	0.14
(1,952)	1:C:218:VAL:HB	1:C:251:ILE:HG22	2	0.14	0.03	0.14
(1,952)	1:C:218:VAL:HB	1:C:251:ILE:HG23	2	0.14	0.03	0.14
(1,198)	1:A:25:HIS:HE1	1:C:227:LYS:HE2	2	0.14	0.01	0.14
(1,198)	1:A:25:HIS:HE1	1:C:227:LYS:HE3	2	0.14	0.01	0.14
(1,1566)	2:D:324:MET:H	2:D:325:LYS:HG2	2	0.14	0.01	0.14
(1,1566)	2:D:324:MET:H	2:D:325:LYS:HG3	2	0.14	0.01	0.14
(2,2)	1:A:9:CYS:CB	1:A:34:CYS:SG	2	0.14	0.0	0.14
(1,103)	1:A:19:ALA:H	1:A:49:VAL:HG21	2	0.14	0.02	0.14
(1,103)	1:A:19:ALA:H	1:A:49:VAL:HG22	2	0.14	0.02	0.14
(1,103)	1:A:19:ALA:H	1:A:49:VAL:HG23	2	0.14	0.02	0.14
(1,118)	1:A:20:ARG:HD2	1:A:61:TYR:HE1	2	0.14	0.02	0.14
(1,118)	1:A:20:ARG:HD2	1:A:61:TYR:HE2	2	0.14	0.02	0.14
(1,118)	1:A:20:ARG:HD3	1:A:61:TYR:HE1	2	0.14	0.02	0.14
(1,118)	1:A:20:ARG:HD3	1:A:61:TYR:HE2	2	0.14	0.02	0.14
(1,880)	1:C:210:PRO:HB2	1:C:231:THR:HG21	2	0.14	0.02	0.14
(1,880)	1:C:210:PRO:HB2	1:C:231:THR:HG22	2	0.14	0.02	0.14
(1,880)	1:C:210:PRO:HB2	1:C:231:THR:HG23	2	0.14	0.02	0.14
(1,949)	1:C:218:VAL:H	2:D:321:TYR:HB3	2	0.14	0.02	0.14
(1,151)	1:A:23:VAL:HG11	1:A:42:LEU:H	2	0.13	0.0	0.13
(1,151)	1:A:23:VAL:HG12	1:A:42:LEU:H	2	0.13	0.0	0.13
(1,151)	1:A:23:VAL:HG13	1:A:42:LEU:H	2	0.13	0.0	0.13
(1,151)	1:A:23:VAL:HG21	1:A:42:LEU:H	2	0.13	0.0	0.13
(1,151)	1:A:23:VAL:HG22	1:A:42:LEU:H	2	0.13	0.0	0.13
(1,151)	1:A:23:VAL:HG23	1:A:42:LEU:H	2	0.13	0.0	0.13
(1,330)	1:A:37:GLN:H	1:A:53:PRO:HG3	2	0.13	0.0	0.13
(1,873)	1:C:208:ARG:HA	1:C:208:ARG:HD2	2	0.13	0.02	0.13
(1,873)	1:C:208:ARG:HA	1:C:208:ARG:HD3	2	0.13	0.02	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD11	2	0.13	0.02	0.13
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD12	2	0.13	0.02	0.13
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD13	2	0.13	0.02	0.13
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD21	2	0.13	0.02	0.13
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD22	2	0.13	0.02	0.13
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD23	2	0.13	0.02	0.13
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD11	2	0.13	0.02	0.13
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD12	2	0.13	0.02	0.13
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD13	2	0.13	0.02	0.13
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD21	2	0.13	0.02	0.13
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD22	2	0.13	0.02	0.13
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD23	2	0.13	0.02	0.13
(1,1617)	2:D:338:LYS:HB3	2:D:338:LYS:HD2	2	0.13	0.01	0.13
(1,1617)	2:D:338:LYS:HB3	2:D:338:LYS:HD3	2	0.13	0.01	0.13
(1,261)	1:A:27:LYS:HE2	1:C:225:HIS:HE1	2	0.12	0.02	0.12
(1,261)	1:A:27:LYS:HE3	1:C:225:HIS:HE1	2	0.12	0.02	0.12
(1,1032)	1:C:224:LYS:HB2	1:C:225:HIS:HE1	2	0.12	0.01	0.12
(1,1032)	1:C:224:LYS:HB3	1:C:225:HIS:HE1	2	0.12	0.01	0.12
(1,1511)	2:D:304:ILE:HD11	2:D:305:SER:H	2	0.12	0.02	0.12
(1,1511)	2:D:304:ILE:HD12	2:D:305:SER:H	2	0.12	0.02	0.12
(1,1511)	2:D:304:ILE:HD13	2:D:305:SER:H	2	0.12	0.02	0.12
(1,3)	1:A:6:SER:HB2	1:A:7:TYR:HD1	2	0.12	0.01	0.12
(1,3)	1:A:6:SER:HB2	1:A:7:TYR:HD2	2	0.12	0.01	0.12
(1,3)	1:A:6:SER:HB3	1:A:7:TYR:HD1	2	0.12	0.01	0.12
(1,3)	1:A:6:SER:HB3	1:A:7:TYR:HD2	2	0.12	0.01	0.12
(1,57)	1:A:14:PHE:HD1	1:A:53:PRO:HD2	2	0.12	0.0	0.12
(1,57)	1:A:14:PHE:HD1	1:A:53:PRO:HD3	2	0.12	0.0	0.12
(1,57)	1:A:14:PHE:HD2	1:A:53:PRO:HD2	2	0.12	0.0	0.12
(1,57)	1:A:14:PHE:HD2	1:A:53:PRO:HD3	2	0.12	0.0	0.12
(1,901)	1:C:212:ARG:HG2	1:C:213:PHE:HD1	2	0.12	0.01	0.12
(1,901)	1:C:212:ARG:HG2	1:C:213:PHE:HD2	2	0.12	0.01	0.12
(1,901)	1:C:212:ARG:HG3	1:C:213:PHE:HD1	2	0.12	0.01	0.12
(1,901)	1:C:212:ARG:HG3	1:C:213:PHE:HD2	2	0.12	0.01	0.12
(1,971)	1:C:219:ALA:H	1:C:249:VAL:HG21	2	0.12	0.0	0.12
(1,971)	1:C:219:ALA:H	1:C:249:VAL:HG22	2	0.12	0.0	0.12
(1,971)	1:C:219:ALA:H	1:C:249:VAL:HG23	2	0.12	0.0	0.12
(2,6)	1:A:11:CYS:SG	1:A:50:CYS:CB	2	0.12	0.01	0.12
(1,175)	1:A:24:LYS:HE2	1:A:41:ARG:H	2	0.12	0.0	0.12
(1,175)	1:A:24:LYS:HE3	1:A:41:ARG:H	2	0.12	0.0	0.12
(1,754)	2:B:104:ILE:HD11	2:B:105:SER:H	2	0.12	0.0	0.12
(1,754)	2:B:104:ILE:HD12	2:B:105:SER:H	2	0.12	0.0	0.12
(1,754)	2:B:104:ILE:HD13	2:B:105:SER:H	2	0.12	0.0	0.12

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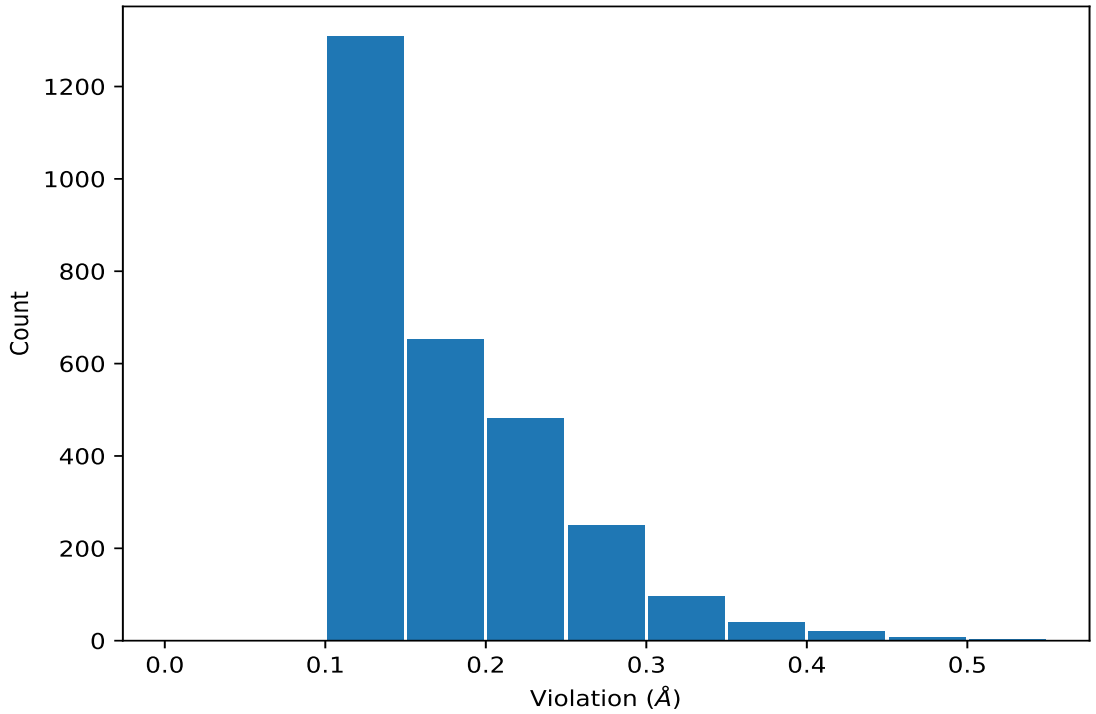
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,767)	2:B:106:ILE:HG12	2:B:107:TYR:H	2	0.12	0.0	0.12
(1,767)	2:B:106:ILE:HG13	2:B:107:TYR:H	2	0.12	0.0	0.12
(1,934)	1:C:215:GLU:HB3	1:C:251:ILE:HG21	2	0.12	0.0	0.12
(1,934)	1:C:215:GLU:HB3	1:C:251:ILE:HG22	2	0.12	0.0	0.12
(1,934)	1:C:215:GLU:HB3	1:C:251:ILE:HG23	2	0.12	0.0	0.12
(1,1416)	1:C:259:GLN:HE21	1:C:262:LEU:HD11	2	0.12	0.0	0.12
(1,1416)	1:C:259:GLN:HE21	1:C:262:LEU:HD12	2	0.12	0.0	0.12
(1,1416)	1:C:259:GLN:HE21	1:C:262:LEU:HD13	2	0.12	0.0	0.12
(1,33)	1:A:12:ARG:HG2	1:A:13:PHE:HD1	2	0.11	0.0	0.11
(1,33)	1:A:12:ARG:HG2	1:A:13:PHE:HD2	2	0.11	0.0	0.11
(1,33)	1:A:12:ARG:HG3	1:A:13:PHE:HD1	2	0.11	0.0	0.11
(1,33)	1:A:12:ARG:HG3	1:A:13:PHE:HD2	2	0.11	0.0	0.11
(1,939)	1:C:216:SER:HB2	1:C:217:HIS:HD2	2	0.11	0.0	0.11
(1,939)	1:C:216:SER:HB3	1:C:217:HIS:HD2	2	0.11	0.0	0.11
(1,1055)	1:C:226:LEU:HB2	1:C:261:TYR:HE1	2	0.11	0.0	0.11
(1,1055)	1:C:226:LEU:HB2	1:C:261:TYR:HE2	2	0.11	0.0	0.11

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

9.5 All violated distance restraints (i)

9.5.1 Histogram : Distribution of distance violations (i)

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



9.5.2 Table : All distance violations (i)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	11	0.55
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	11	0.54
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	14	0.5
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	12	0.48
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	6	0.47
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	7	0.47
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	13	0.47
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	19	0.46
(2,13)	1:C:209:CYS:CB	1:C:234:CYS:CB	3	0.46
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	10	0.45
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	7	0.44
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	13	0.43
(2,1)	1:A:9:CYS:CB	1:A:34:CYS:CB	3	0.43
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	19	0.42
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	19	0.42
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	13	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,10)	1:A:65:CYS:CB	1:C:236:CYS:CB	18	0.41
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	6	0.4
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	20	0.4
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	13	0.4
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	17	0.4
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	1	0.4
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	18	0.4
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	19	0.4
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	15	0.4
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	15	0.4
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	15	0.4
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	15	0.4
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	15	0.4
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	15	0.4
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	6	0.39
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	3	0.39
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	5	0.39
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	9	0.39
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	15	0.39
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	17	0.39
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	19	0.39
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	8	0.39
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	18	0.39
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	17	0.38
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	20	0.38
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	19	0.38
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	18	0.38
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	4	0.38
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	6	0.38
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	4	0.38
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	5	0.38
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	8	0.38
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	10	0.37
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	13	0.37
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	15	0.37
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	1	0.37
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	5	0.37
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	20	0.37
(1,1427)	1:C:260:GLU:HB3	1:C:260:GLU:HG3	8	0.37
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	7	0.36
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	1	0.36
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	12	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	10	0.36
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	15	0.36
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	17	0.36
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	8	0.36
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	8	0.36
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	8	0.36
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	8	0.36
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	8	0.36
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	8	0.36
(1,116)	1:A:20:ARG:HD2	1:A:23:VAL:H	11	0.36
(1,116)	1:A:20:ARG:HD3	1:A:23:VAL:H	11	0.36
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	4	0.35
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	14	0.35
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	6	0.35
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	7	0.35
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	17	0.35
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	20	0.35
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	4	0.35
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	15	0.35
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	13	0.35
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	18	0.35
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	20	0.35
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	8	0.34
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	13	0.34
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	2	0.34
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	5	0.34
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	13	0.34
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	15	0.34
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	13	0.34
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	14	0.34
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	1	0.34
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	1	0.34
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	6	0.34
(1,984)	1:C:220:ARG:HD2	1:C:223:VAL:H	9	0.34
(1,984)	1:C:220:ARG:HD3	1:C:223:VAL:H	9	0.34
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD1	20	0.34
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD2	20	0.34
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	6	0.34
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	6	0.34
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	6	0.34
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	6	0.34
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	6	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	6	0.34
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	4	0.33
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	14	0.33
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	16	0.33
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	18	0.33
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	10	0.33
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	11	0.33
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	3	0.33
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	9	0.33
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	19	0.33
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	3	0.33
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	17	0.33
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD1	5	0.33
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD2	5	0.33
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD1	5	0.33
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD2	5	0.33
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD1	5	0.33
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD2	5	0.33
(1,116)	1:A:20:ARG:HD2	1:A:23:VAL:H	1	0.33
(1,116)	1:A:20:ARG:HD3	1:A:23:VAL:H	1	0.33
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD1	20	0.33
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD2	20	0.33
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	1	0.32
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	14	0.32
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	1	0.32
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	3	0.32
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	17	0.32
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	19	0.32
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	13	0.32
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	3	0.32
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	12	0.32
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	17	0.32
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	19	0.32
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	20	0.32
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	8	0.32
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	16	0.32
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	9	0.32
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	2	0.32
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	12	0.32
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	19	0.32
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	18	0.32
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	13	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,116)	1:A:20:ARG:HD2	1:A:23:VAL:H	8	0.32
(1,116)	1:A:20:ARG:HD3	1:A:23:VAL:H	8	0.32
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	8	0.31
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	20	0.31
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	6	0.31
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	8	0.31
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	14	0.31
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	2	0.31
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	5	0.31
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	16	0.31
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	18	0.31
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	2	0.31
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	14	0.31
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	3	0.31
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	10	0.31
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	15	0.31
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	10	0.31
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	14	0.31
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	15	0.31
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	15	0.31
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	16	0.31
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	10	0.31
(2,1)	1:A:9:CYS:CB	1:A:34:CYS:CB	14	0.31
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	3	0.3
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	15	0.3
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	20	0.3
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	3	0.3
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	18	0.3
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	1	0.3
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	5	0.3
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	15	0.3
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	11	0.3
(3,28)	1:C:224:LYS:N	1:C:241:ARG:O	1	0.3
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	14	0.3
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	20	0.3
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	2	0.3
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	6	0.3
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	18	0.3
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	19	0.3
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	1	0.3
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	2	0.3
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	10	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	11	0.3
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	14	0.3
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	19	0.3
(2,7)	1:A:36:CYS:CB	1:C:265:CYS:CB	16	0.3
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	4	0.3
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	9	0.3
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	16	0.3
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	14	0.3
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	15	0.3
(2,1)	1:A:9:CYS:CB	1:A:34:CYS:CB	8	0.3
(1,984)	1:C:220:ARG:HD2	1:C:223:VAL:H	20	0.3
(1,984)	1:C:220:ARG:HD3	1:C:223:VAL:H	20	0.3
(1,509)	1:A:54:LYS:HB3	1:A:54:LYS:HE2	7	0.3
(1,509)	1:A:54:LYS:HB3	1:A:54:LYS:HE3	7	0.3
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD1	13	0.3
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD2	13	0.3
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	2	0.29
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	9	0.29
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	12	0.29
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	15	0.29
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	17	0.29
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	7	0.29
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	18	0.29
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	4	0.29
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	10	0.29
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	18	0.29
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	19	0.29
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	16	0.29
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	8	0.29
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	16	0.29
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	5	0.29
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	7	0.29
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	8	0.29
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	6	0.29
(2,7)	1:A:36:CYS:CB	1:C:265:CYS:CB	9	0.29
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	15	0.29
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	9	0.29
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	16	0.29
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD1	16	0.29
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD2	16	0.29
(1,740)	1:A:68:LYS:HA	1:A:68:LYS:HD2	8	0.29
(1,740)	1:A:68:LYS:HA	1:A:68:LYS:HD3	8	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,508)	1:A:54:LYS:HB3	1:A:54:LYS:HD2	11	0.29
(1,508)	1:A:54:LYS:HB3	1:A:54:LYS:HD3	11	0.29
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	16	0.29
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	16	0.29
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	16	0.29
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	10	0.28
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	12	0.28
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	13	0.28
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	19	0.28
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	5	0.28
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	10	0.28
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	11	0.28
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	18	0.28
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	11	0.28
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	18	0.28
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	12	0.28
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	17	0.28
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	15	0.28
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	1	0.28
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	6	0.28
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	8	0.28
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	13	0.28
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	17	0.28
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	20	0.28
(2,7)	1:A:36:CYS:CB	1:C:265:CYS:CB	15	0.28
(2,13)	1:C:209:CYS:CB	1:C:234:CYS:CB	9	0.28
(2,10)	1:A:65:CYS:CB	1:C:236:CYS:CB	12	0.28
(2,1)	1:A:9:CYS:CB	1:A:34:CYS:CB	9	0.28
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	13	0.28
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	13	0.28
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	13	0.28
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE1	12	0.28
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE2	12	0.28
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE1	12	0.28
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE2	12	0.28
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	9	0.27
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	20	0.27
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	6	0.27
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	3	0.27
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	7	0.27
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	14	0.27
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	19	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	8	0.27
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	16	0.27
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	2	0.27
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	11	0.27
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	14	0.27
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	2	0.27
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	11	0.27
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	12	0.27
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	1	0.27
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	5	0.27
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	20	0.27
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	5	0.27
(2,7)	1:A:36:CYS:CB	1:C:265:CYS:CB	3	0.27
(1,793)	2:B:114:GLU:H	2:B:114:GLU:HG2	16	0.27
(1,793)	2:B:114:GLU:H	2:B:114:GLU:HG3	16	0.27
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	16	0.27
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	16	0.27
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	16	0.27
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	16	0.27
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	16	0.27
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	16	0.27
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	16	0.27
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	16	0.27
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	16	0.27
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	16	0.27
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	16	0.27
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	16	0.27
(1,1573)	2:D:325:LYS:HB2	2:D:325:LYS:HD2	13	0.27
(1,1573)	2:D:325:LYS:HB2	2:D:325:LYS:HD3	13	0.27
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD2	3	0.27
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD3	3	0.27
(1,1316)	1:C:254:LYS:HB3	1:C:254:LYS:HE2	20	0.27
(1,1316)	1:C:254:LYS:HB3	1:C:254:LYS:HE3	20	0.27
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	3	0.26
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	5	0.26
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	18	0.26
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	20	0.26
(3,4)	1:A:24:LYS:N	1:A:41:ARG:O	9	0.26
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	19	0.26
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	14	0.26
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	4	0.26
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	5	0.26
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	5	0.26
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	9	0.26
(3,28)	1:C:224:LYS:N	1:C:241:ARG:O	2	0.26
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	3	0.26
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	4	0.26
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	12	0.26
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	13	0.26
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	19	0.26
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	18	0.26
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	11	0.26
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	5	0.26
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	6	0.26
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	15	0.26
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	13	0.26
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	15	0.26
(2,10)	1:A:65:CYS:CB	1:C:236:CYS:CB	20	0.26
(1,984)	1:C:220:ARG:HD2	1:C:223:VAL:H	10	0.26
(1,984)	1:C:220:ARG:HD3	1:C:223:VAL:H	10	0.26
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	2	0.26
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	2	0.26
(1,757)	2:B:106:ILE:H	2:B:106:ILE:HB	17	0.26
(1,71)	1:A:16:SER:HB2	1:A:17:HIS:HD2	9	0.26
(1,71)	1:A:16:SER:HB3	1:A:17:HIS:HD2	9	0.26
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG12	17	0.26
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG13	17	0.26
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG12	17	0.26
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG13	17	0.26
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG12	17	0.26
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG13	17	0.26
(1,303)	1:A:29:LEU:HB2	2:B:112:TYR:HD1	8	0.26
(1,303)	1:A:29:LEU:HB2	2:B:112:TYR:HD2	8	0.26
(1,303)	1:A:29:LEU:HB3	2:B:112:TYR:HD1	8	0.26
(1,303)	1:A:29:LEU:HB3	2:B:112:TYR:HD2	8	0.26
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE1	19	0.26
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE2	19	0.26
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE1	19	0.26
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE2	19	0.26
(1,1561)	2:D:321:TYR:HA	2:D:321:TYR:HD1	18	0.26
(1,1561)	2:D:321:TYR:HA	2:D:321:TYR:HD2	18	0.26
(1,1547)	2:D:314:GLU:H	2:D:314:GLU:HG2	16	0.26
(1,1547)	2:D:314:GLU:H	2:D:314:GLU:HG3	16	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD2	8	0.26
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD3	8	0.26
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD2	20	0.26
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD3	20	0.26
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB2	1	0.26
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB3	1	0.26
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB2	1	0.26
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB3	1	0.26
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB2	1	0.26
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB3	1	0.26
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB2	1	0.26
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB3	1	0.26
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB2	1	0.26
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB3	1	0.26
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB2	1	0.26
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB3	1	0.26
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	1	0.25
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	18	0.25
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	11	0.25
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	7	0.25
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	8	0.25
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	19	0.25
(3,38)	1:C:240:ALA:O	1:C:249:VAL:N	1	0.25
(3,38)	1:C:240:ALA:O	1:C:249:VAL:N	19	0.25
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	16	0.25
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	12	0.25
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	15	0.25
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	3	0.25
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	2	0.25
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	3	0.25
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	7	0.25
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	12	0.25
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	15	0.25
(3,27)	1:C:224:LYS:H	1:C:241:ARG:O	1	0.25
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	7	0.25
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	12	0.25
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	1	0.25
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	5	0.25
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	7	0.25
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	10	0.25
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	16	0.25
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	4	0.25
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	17	0.25
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	1	0.25
(1,984)	1:C:220:ARG:HD2	1:C:223:VAL:H	3	0.25
(1,984)	1:C:220:ARG:HD3	1:C:223:VAL:H	3	0.25
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE1	11	0.25
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE2	11	0.25
(1,797)	2:B:115:GLU:HA	2:B:116:MET:H	8	0.25
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	13	0.25
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	13	0.25
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	13	0.25
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	13	0.25
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	13	0.25
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	13	0.25
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	13	0.25
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	13	0.25
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	13	0.25
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	13	0.25
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	13	0.25
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	13	0.25
(1,1603)	2:D:331:GLU:HB2	2:D:332:GLU:H	15	0.25
(1,1514)	2:D:306:ILE:H	2:D:306:ILE:HB	17	0.25
(3,4)	1:A:24:LYS:N	1:A:41:ARG:O	12	0.24
(3,4)	1:A:24:LYS:N	1:A:41:ARG:O	17	0.24
(3,38)	1:C:240:ALA:O	1:C:249:VAL:N	3	0.24
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	2	0.24
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	5	0.24
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	4	0.24
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	8	0.24
(3,34)	1:C:238:ILE:O	1:C:251:ILE:N	9	0.24
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	13	0.24
(3,3)	1:A:24:LYS:H	1:A:41:ARG:O	9	0.24
(3,28)	1:C:224:LYS:N	1:C:241:ARG:O	12	0.24
(3,28)	1:C:224:LYS:N	1:C:241:ARG:O	14	0.24
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	2	0.24
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	3	0.24
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	4	0.24
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	6	0.24
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	18	0.24
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	14	0.24
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	11	0.24
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	20	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	6	0.24
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	14	0.24
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	3	0.24
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	14	0.24
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	11	0.24
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	1	0.24
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	1	0.24
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	1	0.24
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	1	0.24
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	1	0.24
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	1	0.24
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	20	0.24
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	20	0.24
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	20	0.24
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	20	0.24
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	20	0.24
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	20	0.24
(1,1603)	2:D:331:GLU:HB2	2:D:332:GLU:H	13	0.24
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	2	0.24
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	2	0.24
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD2	18	0.24
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD3	18	0.24
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	5	0.24
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	5	0.24
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	5	0.24
(1,1316)	1:C:254:LYS:HB3	1:C:254:LYS:HE2	15	0.24
(1,1316)	1:C:254:LYS:HB3	1:C:254:LYS:HE3	15	0.24
(1,116)	1:A:20:ARG:HD2	1:A:23:VAL:H	10	0.24
(1,116)	1:A:20:ARG:HD3	1:A:23:VAL:H	10	0.24
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD1	7	0.24
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD2	7	0.24
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD1	7	0.24
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD2	7	0.24
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD1	7	0.24
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD2	7	0.24
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE1	19	0.24
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE2	19	0.24
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE1	19	0.24
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE2	19	0.24
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	17	0.23
(3,6)	1:A:26:LEU:N	1:C:228:ILE:O	12	0.23
(3,4)	1:A:24:LYS:N	1:A:41:ARG:O	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	9	0.23
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	10	0.23
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	11	0.23
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	8	0.23
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	1	0.23
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	2	0.23
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	4	0.23
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	6	0.23
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	20	0.23
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	13	0.23
(3,28)	1:C:224:LYS:N	1:C:241:ARG:O	6	0.23
(3,28)	1:C:224:LYS:N	1:C:241:ARG:O	11	0.23
(3,22)	1:A:40:ALA:O	1:A:49:VAL:H	12	0.23
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	8	0.23
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	11	0.23
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	7	0.23
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	1	0.23
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	2	0.23
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	8	0.23
(2,1)	1:A:9:CYS:CB	1:A:34:CYS:CB	6	0.23
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD1	11	0.23
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD2	11	0.23
(1,793)	2:B:114:GLU:H	2:B:114:GLU:HG2	20	0.23
(1,793)	2:B:114:GLU:H	2:B:114:GLU:HG3	20	0.23
(1,61)	1:A:15:GLU:H	1:A:18:VAL:HG11	11	0.23
(1,61)	1:A:15:GLU:H	1:A:18:VAL:HG12	11	0.23
(1,61)	1:A:15:GLU:H	1:A:18:VAL:HG13	11	0.23
(1,61)	1:A:15:GLU:H	1:A:18:VAL:HG21	11	0.23
(1,61)	1:A:15:GLU:H	1:A:18:VAL:HG22	11	0.23
(1,61)	1:A:15:GLU:H	1:A:18:VAL:HG23	11	0.23
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	12	0.23
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	12	0.23
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	12	0.23
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	12	0.23
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	12	0.23
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	12	0.23
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	6	0.23
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	6	0.23
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	6	0.23
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	6	0.23
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	6	0.23
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	6	0.23
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	6	0.23
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	6	0.23
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	6	0.23
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	6	0.23
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	6	0.23
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	1	0.23
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	1	0.23
(1,1551)	2:D:315:GLU:HA	2:D:316:MET:H	1	0.23
(1,1551)	2:D:315:GLU:HA	2:D:316:MET:H	13	0.23
(1,147)	1:A:23:VAL:HG11	2:D:307:TYR:HB2	10	0.23
(1,147)	1:A:23:VAL:HG12	2:D:307:TYR:HB2	10	0.23
(1,147)	1:A:23:VAL:HG13	2:D:307:TYR:HB2	10	0.23
(1,147)	1:A:23:VAL:HG21	2:D:307:TYR:HB2	10	0.23
(1,147)	1:A:23:VAL:HG22	2:D:307:TYR:HB2	10	0.23
(1,147)	1:A:23:VAL:HG23	2:D:307:TYR:HB2	10	0.23
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	6	0.23
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	6	0.23
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	6	0.23
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD1	8	0.23
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD2	8	0.23
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD1	8	0.23
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD2	8	0.23
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD1	8	0.23
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD2	8	0.23
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD1	17	0.23
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD2	17	0.23
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD1	17	0.23
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD2	17	0.23
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD1	17	0.23
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD2	17	0.23
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD1	16	0.23
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD2	16	0.23
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	18	0.23
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	18	0.23
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	18	0.23
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	18	0.23
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	18	0.23
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	18	0.23
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	18	0.23
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	18	0.23
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	18	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	18	0.23
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	18	0.23
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	18	0.23
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	2	0.22
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	6	0.22
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	1	0.22
(3,4)	1:A:24:LYS:N	1:A:41:ARG:O	15	0.22
(3,37)	1:C:240:ALA:O	1:C:249:VAL:H	19	0.22
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	8	0.22
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	10	0.22
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	11	0.22
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	14	0.22
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	17	0.22
(3,3)	1:A:24:LYS:H	1:A:41:ARG:O	12	0.22
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	9	0.22
(3,28)	1:C:224:LYS:N	1:C:241:ARG:O	4	0.22
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	12	0.22
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	4	0.22
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	13	0.22
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	17	0.22
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	19	0.22
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	3	0.22
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	4	0.22
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	20	0.22
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	4	0.22
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	12	0.22
(1,797)	2:B:115:GLU:HA	2:B:116:MET:H	10	0.22
(1,791)	2:B:113:THR:HG21	2:B:115:GLU:H	20	0.22
(1,791)	2:B:113:THR:HG22	2:B:115:GLU:H	20	0.22
(1,791)	2:B:113:THR:HG23	2:B:115:GLU:H	20	0.22
(1,407)	1:A:42:LEU:HD11	1:A:47:ARG:HB2	2	0.22
(1,407)	1:A:42:LEU:HD11	1:A:47:ARG:HB3	2	0.22
(1,407)	1:A:42:LEU:HD12	1:A:47:ARG:HB2	2	0.22
(1,407)	1:A:42:LEU:HD12	1:A:47:ARG:HB3	2	0.22
(1,407)	1:A:42:LEU:HD13	1:A:47:ARG:HB2	2	0.22
(1,407)	1:A:42:LEU:HD13	1:A:47:ARG:HB3	2	0.22
(1,407)	1:A:42:LEU:HD21	1:A:47:ARG:HB2	2	0.22
(1,407)	1:A:42:LEU:HD21	1:A:47:ARG:HB3	2	0.22
(1,407)	1:A:42:LEU:HD22	1:A:47:ARG:HB2	2	0.22
(1,407)	1:A:42:LEU:HD22	1:A:47:ARG:HB3	2	0.22
(1,407)	1:A:42:LEU:HD23	1:A:47:ARG:HB2	2	0.22
(1,407)	1:A:42:LEU:HD23	1:A:47:ARG:HB3	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	11	0.22
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	11	0.22
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	11	0.22
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	11	0.22
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	11	0.22
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	11	0.22
(1,303)	1:A:29:LEU:HB2	2:B:112:TYR:HD1	5	0.22
(1,303)	1:A:29:LEU:HB2	2:B:112:TYR:HD2	5	0.22
(1,303)	1:A:29:LEU:HB3	2:B:112:TYR:HD1	5	0.22
(1,303)	1:A:29:LEU:HB3	2:B:112:TYR:HD2	5	0.22
(1,1476)	1:C:265:CYS:H	1:C:268:LYS:HD2	2	0.22
(1,1476)	1:C:265:CYS:H	1:C:268:LYS:HD3	2	0.22
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	2	0.22
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	2	0.22
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	2	0.22
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD1	5	0.22
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD2	5	0.22
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD1	5	0.22
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD2	5	0.22
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD1	5	0.22
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD2	5	0.22
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	14	0.22
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	14	0.22
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	14	0.22
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	14	0.22
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	14	0.22
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	14	0.22
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	14	0.22
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	14	0.22
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	14	0.22
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	14	0.22
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	14	0.22
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	14	0.22
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE1	5	0.22
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE2	5	0.22
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	10	0.21
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	14	0.21
(3,5)	1:A:26:LEU:H	1:C:228:ILE:O	12	0.21
(3,38)	1:C:240:ALA:O	1:C:249:VAL:N	6	0.21
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	1	0.21
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	18	0.21
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	13	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	19	0.21
(3,27)	1:C:224:LYS:H	1:C:241:ARG:O	2	0.21
(3,27)	1:C:224:LYS:H	1:C:241:ARG:O	11	0.21
(3,27)	1:C:224:LYS:H	1:C:241:ARG:O	12	0.21
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	6	0.21
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	20	0.21
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	17	0.21
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	3	0.21
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	18	0.21
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	10	0.21
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	3	0.21
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	15	0.21
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	2	0.21
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	14	0.21
(2,10)	1:A:65:CYS:CB	1:C:236:CYS:CB	9	0.21
(1,407)	1:A:42:LEU:HD11	1:A:47:ARG:HB2	17	0.21
(1,407)	1:A:42:LEU:HD11	1:A:47:ARG:HB3	17	0.21
(1,407)	1:A:42:LEU:HD12	1:A:47:ARG:HB2	17	0.21
(1,407)	1:A:42:LEU:HD12	1:A:47:ARG:HB3	17	0.21
(1,407)	1:A:42:LEU:HD13	1:A:47:ARG:HB2	17	0.21
(1,407)	1:A:42:LEU:HD13	1:A:47:ARG:HB3	17	0.21
(1,407)	1:A:42:LEU:HD21	1:A:47:ARG:HB2	17	0.21
(1,407)	1:A:42:LEU:HD21	1:A:47:ARG:HB3	17	0.21
(1,407)	1:A:42:LEU:HD22	1:A:47:ARG:HB2	17	0.21
(1,407)	1:A:42:LEU:HD22	1:A:47:ARG:HB3	17	0.21
(1,407)	1:A:42:LEU:HD23	1:A:47:ARG:HB2	17	0.21
(1,407)	1:A:42:LEU:HD23	1:A:47:ARG:HB3	17	0.21
(1,404)	1:A:42:LEU:HD11	1:A:46:ASN:HB2	10	0.21
(1,404)	1:A:42:LEU:HD11	1:A:46:ASN:HB3	10	0.21
(1,404)	1:A:42:LEU:HD12	1:A:46:ASN:HB2	10	0.21
(1,404)	1:A:42:LEU:HD12	1:A:46:ASN:HB3	10	0.21
(1,404)	1:A:42:LEU:HD13	1:A:46:ASN:HB2	10	0.21
(1,404)	1:A:42:LEU:HD13	1:A:46:ASN:HB3	10	0.21
(1,404)	1:A:42:LEU:HD21	1:A:46:ASN:HB2	10	0.21
(1,404)	1:A:42:LEU:HD21	1:A:46:ASN:HB3	10	0.21
(1,404)	1:A:42:LEU:HD22	1:A:46:ASN:HB2	10	0.21
(1,404)	1:A:42:LEU:HD22	1:A:46:ASN:HB3	10	0.21
(1,404)	1:A:42:LEU:HD23	1:A:46:ASN:HB2	10	0.21
(1,404)	1:A:42:LEU:HD23	1:A:46:ASN:HB3	10	0.21
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	4	0.21
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	4	0.21
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	4	0.21
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	4	0.21
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	4	0.21
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	7	0.21
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	7	0.21
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	7	0.21
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	7	0.21
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	7	0.21
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	7	0.21
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	8	0.21
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	8	0.21
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	8	0.21
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	8	0.21
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	8	0.21
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	8	0.21
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	8	0.21
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	8	0.21
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	8	0.21
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	8	0.21
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	8	0.21
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	8	0.21
(1,1586)	2:D:328:ALA:HA	2:D:329:PHE:H	1	0.21
(1,1547)	2:D:314:GLU:H	2:D:314:GLU:HG2	20	0.21
(1,1547)	2:D:314:GLU:H	2:D:314:GLU:HG3	20	0.21
(1,1112)	1:C:229:LEU:HA	1:C:237:GLN:HB2	15	0.21
(1,1112)	1:C:229:LEU:HA	1:C:237:GLN:HB3	15	0.21
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	12	0.21
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	12	0.21
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	12	0.21
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	12	0.21
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	12	0.21
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	12	0.21
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	12	0.21
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	12	0.21
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	12	0.21
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	12	0.21
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	12	0.21
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	12	0.21
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	4	0.2
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	9	0.2
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	10	0.2
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	13	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:24:LYS:N	1:A:41:ARG:O	3	0.2
(3,38)	1:C:240:ALA:O	1:C:249:VAL:N	2	0.2
(3,38)	1:C:240:ALA:O	1:C:249:VAL:N	18	0.2
(3,37)	1:C:240:ALA:O	1:C:249:VAL:H	3	0.2
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	16	0.2
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	4	0.2
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	9	0.2
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	1	0.2
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	11	0.2
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	12	0.2
(3,3)	1:A:24:LYS:H	1:A:41:ARG:O	17	0.2
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	11	0.2
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	19	0.2
(3,22)	1:A:40:ALA:O	1:A:49:VAL:H	20	0.2
(3,21)	1:A:40:ALA:N	1:A:49:VAL:O	9	0.2
(3,16)	1:A:28:ILE:O	1:C:226:LEU:N	20	0.2
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	8	0.2
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	9	0.2
(2,13)	1:C:209:CYS:CB	1:C:234:CYS:CB	7	0.2
(1,886)	1:C:210:PRO:HB3	2:D:312:TYR:HE1	18	0.2
(1,886)	1:C:210:PRO:HB3	2:D:312:TYR:HE2	18	0.2
(1,832)	2:B:127:PRO:HG2	2:B:128:ALA:H	14	0.2
(1,832)	2:B:127:PRO:HG3	2:B:128:ALA:H	14	0.2
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	6	0.2
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	6	0.2
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG12	8	0.2
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG13	8	0.2
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG12	8	0.2
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG13	8	0.2
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG12	8	0.2
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG13	8	0.2
(1,404)	1:A:42:LEU:HD11	1:A:46:ASN:HB2	4	0.2
(1,404)	1:A:42:LEU:HD11	1:A:46:ASN:HB3	4	0.2
(1,404)	1:A:42:LEU:HD12	1:A:46:ASN:HB2	4	0.2
(1,404)	1:A:42:LEU:HD12	1:A:46:ASN:HB3	4	0.2
(1,404)	1:A:42:LEU:HD13	1:A:46:ASN:HB2	4	0.2
(1,404)	1:A:42:LEU:HD13	1:A:46:ASN:HB3	4	0.2
(1,404)	1:A:42:LEU:HD21	1:A:46:ASN:HB2	4	0.2
(1,404)	1:A:42:LEU:HD21	1:A:46:ASN:HB3	4	0.2
(1,404)	1:A:42:LEU:HD22	1:A:46:ASN:HB2	4	0.2
(1,404)	1:A:42:LEU:HD22	1:A:46:ASN:HB3	4	0.2
(1,404)	1:A:42:LEU:HD23	1:A:46:ASN:HB2	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,404)	1:A:42:LEU:HD23	1:A:46:ASN:HB3	4	0.2
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE1	8	0.2
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE2	8	0.2
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE1	8	0.2
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE2	8	0.2
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	2	0.2
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	2	0.2
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	2	0.2
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	2	0.2
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	2	0.2
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	2	0.2
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	2	0.2
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	2	0.2
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	2	0.2
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	2	0.2
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	2	0.2
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	2	0.2
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	4	0.2
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	4	0.2
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	4	0.2
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	4	0.2
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	4	0.2
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	4	0.2
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	4	0.2
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	4	0.2
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	4	0.2
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	4	0.2
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	4	0.2
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	4	0.2
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	15	0.2
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	15	0.2
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	15	0.2
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	15	0.2
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	15	0.2
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	15	0.2
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	15	0.2
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	15	0.2
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	15	0.2
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	15	0.2
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	15	0.2
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	15	0.2
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	19	0.2
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	19	0.2
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG12	14	0.2
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG13	14	0.2
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG12	14	0.2
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG13	14	0.2
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG12	14	0.2
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG13	14	0.2
(1,1215)	1:C:242:LEU:HD11	1:C:247:ARG:HD2	6	0.2
(1,1215)	1:C:242:LEU:HD11	1:C:247:ARG:HD3	6	0.2
(1,1215)	1:C:242:LEU:HD12	1:C:247:ARG:HD2	6	0.2
(1,1215)	1:C:242:LEU:HD12	1:C:247:ARG:HD3	6	0.2
(1,1215)	1:C:242:LEU:HD13	1:C:247:ARG:HD2	6	0.2
(1,1215)	1:C:242:LEU:HD13	1:C:247:ARG:HD3	6	0.2
(1,1215)	1:C:242:LEU:HD21	1:C:247:ARG:HD2	6	0.2
(1,1215)	1:C:242:LEU:HD21	1:C:247:ARG:HD3	6	0.2
(1,1215)	1:C:242:LEU:HD22	1:C:247:ARG:HD2	6	0.2
(1,1215)	1:C:242:LEU:HD22	1:C:247:ARG:HD3	6	0.2
(1,1215)	1:C:242:LEU:HD23	1:C:247:ARG:HD2	6	0.2
(1,1215)	1:C:242:LEU:HD23	1:C:247:ARG:HD3	6	0.2
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB2	17	0.2
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB3	17	0.2
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB2	17	0.2
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB3	17	0.2
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB2	17	0.2
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB3	17	0.2
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB2	17	0.2
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB3	17	0.2
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB2	17	0.2
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB3	17	0.2
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB2	17	0.2
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB3	17	0.2
(1,1113)	1:C:229:LEU:HB2	2:D:312:TYR:HD1	7	0.2
(1,1113)	1:C:229:LEU:HB2	2:D:312:TYR:HD2	7	0.2
(1,1113)	1:C:229:LEU:HB3	2:D:312:TYR:HD1	7	0.2
(1,1113)	1:C:229:LEU:HB3	2:D:312:TYR:HD2	7	0.2
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	1	0.2
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	1	0.2
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	1	0.2
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	1	0.2
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	1	0.2
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	1	0.2
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	1	0.2
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	1	0.2
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	1	0.2
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	1	0.2
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	1	0.2
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	3	0.2
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	3	0.2
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	3	0.2
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	3	0.2
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	3	0.2
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	3	0.2
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	3	0.2
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	3	0.2
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	3	0.2
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	3	0.2
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	3	0.2
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	3	0.2
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	6	0.2
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	6	0.2
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	6	0.2
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	6	0.2
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	6	0.2
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	6	0.2
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	6	0.2
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	6	0.2
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	6	0.2
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	6	0.2
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	6	0.2
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	6	0.2
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	13	0.2
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	13	0.2
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	13	0.2
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	13	0.2
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	13	0.2
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	13	0.2
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	13	0.2
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	13	0.2
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	13	0.2
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	13	0.2
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	13	0.2
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	13	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	5	0.19
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	13	0.19
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	15	0.19
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	18	0.19
(3,4)	1:A:24:LYS:N	1:A:41:ARG:O	18	0.19
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	8	0.19
(3,3)	1:A:24:LYS:H	1:A:41:ARG:O	4	0.19
(3,28)	1:C:224:LYS:N	1:C:241:ARG:O	9	0.19
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	3	0.19
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	4	0.19
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	15	0.19
(3,22)	1:A:40:ALA:O	1:A:49:VAL:H	7	0.19
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	5	0.19
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	8	0.19
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	18	0.19
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	17	0.19
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	9	0.19
(2,7)	1:A:36:CYS:CB	1:C:265:CYS:CB	20	0.19
(2,1)	1:A:9:CYS:CB	1:A:34:CYS:CB	15	0.19
(1,988)	1:C:220:ARG:HG2	1:C:261:TYR:HE1	3	0.19
(1,988)	1:C:220:ARG:HG2	1:C:261:TYR:HE2	3	0.19
(1,988)	1:C:220:ARG:HG3	1:C:261:TYR:HE1	3	0.19
(1,988)	1:C:220:ARG:HG3	1:C:261:TYR:HE2	3	0.19
(1,984)	1:C:220:ARG:HD2	1:C:223:VAL:H	15	0.19
(1,984)	1:C:220:ARG:HD3	1:C:223:VAL:H	15	0.19
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD1	6	0.19
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD2	6	0.19
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD1	8	0.19
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD2	8	0.19
(1,764)	2:B:106:ILE:HB	2:B:107:TYR:HD1	4	0.19
(1,764)	2:B:106:ILE:HB	2:B:107:TYR:HD2	4	0.19
(1,740)	1:A:68:LYS:HA	1:A:68:LYS:HD2	11	0.19
(1,740)	1:A:68:LYS:HA	1:A:68:LYS:HD3	11	0.19
(1,408)	1:A:42:LEU:HD11	1:A:47:ARG:HD2	11	0.19
(1,408)	1:A:42:LEU:HD11	1:A:47:ARG:HD3	11	0.19
(1,408)	1:A:42:LEU:HD12	1:A:47:ARG:HD2	11	0.19
(1,408)	1:A:42:LEU:HD12	1:A:47:ARG:HD3	11	0.19
(1,408)	1:A:42:LEU:HD13	1:A:47:ARG:HD2	11	0.19
(1,408)	1:A:42:LEU:HD13	1:A:47:ARG:HD3	11	0.19
(1,408)	1:A:42:LEU:HD21	1:A:47:ARG:HD2	11	0.19
(1,408)	1:A:42:LEU:HD21	1:A:47:ARG:HD3	11	0.19
(1,408)	1:A:42:LEU:HD22	1:A:47:ARG:HD2	11	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:A:42:LEU:HD22	1:A:47:ARG:HD3	11	0.19
(1,408)	1:A:42:LEU:HD23	1:A:47:ARG:HD2	11	0.19
(1,408)	1:A:42:LEU:HD23	1:A:47:ARG:HD3	11	0.19
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	2	0.19
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	2	0.19
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	2	0.19
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	2	0.19
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	2	0.19
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	2	0.19
(1,31)	1:A:12:ARG:HB2	1:A:13:PHE:HE1	10	0.19
(1,31)	1:A:12:ARG:HB2	1:A:13:PHE:HE2	10	0.19
(1,31)	1:A:12:ARG:HB3	1:A:13:PHE:HE1	10	0.19
(1,31)	1:A:12:ARG:HB3	1:A:13:PHE:HE2	10	0.19
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD1	10	0.19
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD2	10	0.19
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD1	10	0.19
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD2	10	0.19
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD1	10	0.19
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD2	10	0.19
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	10	0.19
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	10	0.19
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	10	0.19
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	10	0.19
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	10	0.19
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	10	0.19
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	10	0.19
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	10	0.19
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	10	0.19
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	10	0.19
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	10	0.19
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	10	0.19
(1,1584)	2:D:327:PRO:HG2	2:D:328:ALA:H	5	0.19
(1,1584)	2:D:327:PRO:HG3	2:D:328:ALA:H	5	0.19
(1,1584)	2:D:327:PRO:HG2	2:D:328:ALA:H	18	0.19
(1,1584)	2:D:327:PRO:HG3	2:D:328:ALA:H	18	0.19
(1,1545)	2:D:313:THR:HG21	2:D:315:GLU:H	20	0.19
(1,1545)	2:D:313:THR:HG22	2:D:315:GLU:H	20	0.19
(1,1545)	2:D:313:THR:HG23	2:D:315:GLU:H	20	0.19
(1,1539)	2:D:312:TYR:HB3	2:D:314:GLU:H	9	0.19
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG12	3	0.19
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG13	3	0.19
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG12	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG13	3	0.19
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG12	3	0.19
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG13	3	0.19
(1,1315)	1:C:254:LYS:HB3	1:C:254:LYS:HD2	6	0.19
(1,1315)	1:C:254:LYS:HB3	1:C:254:LYS:HD3	6	0.19
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB2	13	0.19
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB3	13	0.19
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB2	13	0.19
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB3	13	0.19
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB2	13	0.19
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB3	13	0.19
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB2	13	0.19
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB3	13	0.19
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB2	13	0.19
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB3	13	0.19
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB2	13	0.19
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB3	13	0.19
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD1	6	0.19
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD2	6	0.19
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD1	6	0.19
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD2	6	0.19
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD1	6	0.19
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD2	6	0.19
(1,1117)	1:C:229:LEU:HD21	2:D:312:TYR:HD1	5	0.19
(1,1117)	1:C:229:LEU:HD21	2:D:312:TYR:HD2	5	0.19
(1,1117)	1:C:229:LEU:HD22	2:D:312:TYR:HD1	5	0.19
(1,1117)	1:C:229:LEU:HD22	2:D:312:TYR:HD2	5	0.19
(1,1117)	1:C:229:LEU:HD23	2:D:312:TYR:HD1	5	0.19
(1,1117)	1:C:229:LEU:HD23	2:D:312:TYR:HD2	5	0.19
(1,1115)	1:C:229:LEU:HD11	2:D:312:TYR:HD1	19	0.19
(1,1115)	1:C:229:LEU:HD11	2:D:312:TYR:HD2	19	0.19
(1,1115)	1:C:229:LEU:HD12	2:D:312:TYR:HD1	19	0.19
(1,1115)	1:C:229:LEU:HD12	2:D:312:TYR:HD2	19	0.19
(1,1115)	1:C:229:LEU:HD13	2:D:312:TYR:HD1	19	0.19
(1,1115)	1:C:229:LEU:HD13	2:D:312:TYR:HD2	19	0.19
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	2	0.19
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	2	0.19
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	2	0.19
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	2	0.19
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	2	0.19
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	2	0.19
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	2	0.19
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	2	0.19
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	2	0.19
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	2	0.19
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	2	0.19
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	16	0.19
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	16	0.19
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	16	0.19
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	16	0.19
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	16	0.19
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	16	0.19
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	16	0.19
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	16	0.19
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	16	0.19
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	16	0.19
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	16	0.19
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	16	0.19
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	16	0.18
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	2	0.18
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	12	0.18
(3,37)	1:C:240:ALA:O	1:C:249:VAL:H	1	0.18
(3,3)	1:A:24:LYS:H	1:A:41:ARG:O	3	0.18
(3,3)	1:A:24:LYS:H	1:A:41:ARG:O	15	0.18
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	18	0.18
(3,27)	1:C:224:LYS:H	1:C:241:ARG:O	4	0.18
(3,27)	1:C:224:LYS:H	1:C:241:ARG:O	14	0.18
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	18	0.18
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	1	0.18
(3,15)	1:A:28:ILE:O	1:C:226:LEU:H	20	0.18
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	2	0.18
(1,952)	1:C:218:VAL:HB	1:C:251:ILE:HG21	18	0.18
(1,952)	1:C:218:VAL:HB	1:C:251:ILE:HG22	18	0.18
(1,952)	1:C:218:VAL:HB	1:C:251:ILE:HG23	18	0.18
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD1	13	0.18
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD2	13	0.18
(1,832)	2:B:127:PRO:HG2	2:B:128:ALA:H	17	0.18
(1,832)	2:B:127:PRO:HG3	2:B:128:ALA:H	17	0.18
(1,818)	2:B:125:LYS:HA	2:B:126:GLU:H	19	0.18
(1,785)	2:B:112:TYR:HB3	2:B:114:GLU:H	10	0.18
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG12	4	0.18
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG13	4	0.18
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG12	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG13	4	0.18
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG12	4	0.18
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG13	4	0.18
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE1	4	0.18
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE2	4	0.18
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE1	4	0.18
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE2	4	0.18
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE1	4	0.18
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE2	4	0.18
(1,408)	1:A:42:LEU:HD11	1:A:47:ARG:HD2	9	0.18
(1,408)	1:A:42:LEU:HD11	1:A:47:ARG:HD3	9	0.18
(1,408)	1:A:42:LEU:HD12	1:A:47:ARG:HD2	9	0.18
(1,408)	1:A:42:LEU:HD12	1:A:47:ARG:HD3	9	0.18
(1,408)	1:A:42:LEU:HD13	1:A:47:ARG:HD2	9	0.18
(1,408)	1:A:42:LEU:HD13	1:A:47:ARG:HD3	9	0.18
(1,408)	1:A:42:LEU:HD21	1:A:47:ARG:HD2	9	0.18
(1,408)	1:A:42:LEU:HD21	1:A:47:ARG:HD3	9	0.18
(1,408)	1:A:42:LEU:HD22	1:A:47:ARG:HD2	9	0.18
(1,408)	1:A:42:LEU:HD22	1:A:47:ARG:HD3	9	0.18
(1,408)	1:A:42:LEU:HD23	1:A:47:ARG:HD2	9	0.18
(1,408)	1:A:42:LEU:HD23	1:A:47:ARG:HD3	9	0.18
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	3	0.18
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	3	0.18
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	3	0.18
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	3	0.18
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	3	0.18
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	3	0.18
(1,304)	1:A:29:LEU:HB2	2:B:112:TYR:HE1	12	0.18
(1,304)	1:A:29:LEU:HB2	2:B:112:TYR:HE2	12	0.18
(1,304)	1:A:29:LEU:HB3	2:B:112:TYR:HE1	12	0.18
(1,304)	1:A:29:LEU:HB3	2:B:112:TYR:HE2	12	0.18
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD11	20	0.18
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD12	20	0.18
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD13	20	0.18
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD21	20	0.18
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD22	20	0.18
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD23	20	0.18
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD11	20	0.18
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD12	20	0.18
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD13	20	0.18
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD21	20	0.18
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD22	20	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD23	20	0.18
(1,253)	1:A:27:LYS:HG3	2:B:112:TYR:HE1	10	0.18
(1,253)	1:A:27:LYS:HG3	2:B:112:TYR:HE2	10	0.18
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	1	0.18
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	1	0.18
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	1	0.18
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	1	0.18
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	1	0.18
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	1	0.18
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	1	0.18
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	1	0.18
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	1	0.18
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	1	0.18
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	1	0.18
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	1	0.18
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	3	0.18
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	3	0.18
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	3	0.18
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	3	0.18
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	3	0.18
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	3	0.18
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	3	0.18
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	3	0.18
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	3	0.18
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	3	0.18
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	3	0.18
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	3	0.18
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	7	0.18
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	7	0.18
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	7	0.18
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	7	0.18
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	7	0.18
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	7	0.18
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	7	0.18
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	7	0.18
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	7	0.18
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	7	0.18
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	7	0.18
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	7	0.18
(1,176)	1:A:24:LYS:HE2	1:A:43:LYS:H	15	0.18
(1,176)	1:A:24:LYS:HE3	1:A:43:LYS:H	15	0.18
(1,1586)	2:D:328:ALA:HA	2:D:329:PHE:H	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	4	0.18
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	4	0.18
(1,1514)	2:D:306:ILE:H	2:D:306:ILE:HB	16	0.18
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD2	11	0.18
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD3	11	0.18
(1,1477)	1:C:265:CYS:H	1:C:268:LYS:HG2	4	0.18
(1,1477)	1:C:265:CYS:H	1:C:268:LYS:HG3	4	0.18
(1,1477)	1:C:265:CYS:H	1:C:268:LYS:HG2	7	0.18
(1,1477)	1:C:265:CYS:H	1:C:268:LYS:HG3	7	0.18
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG12	18	0.18
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG13	18	0.18
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG12	18	0.18
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG13	18	0.18
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG12	18	0.18
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG13	18	0.18
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE1	13	0.18
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE2	13	0.18
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE1	13	0.18
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE2	13	0.18
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE1	13	0.18
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE2	13	0.18
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD1	1	0.18
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD2	1	0.18
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD1	4	0.18
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD2	4	0.18
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	11	0.18
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	11	0.18
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	11	0.18
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	11	0.18
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	11	0.18
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	11	0.18
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	11	0.18
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	11	0.18
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	11	0.18
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	11	0.18
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	11	0.18
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	11	0.18
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	3	0.17
(3,6)	1:A:26:LEU:N	1:C:228:ILE:O	14	0.17
(3,38)	1:C:240:ALA:O	1:C:249:VAL:N	7	0.17
(3,38)	1:C:240:ALA:O	1:C:249:VAL:N	9	0.17
(3,3)	1:A:24:LYS:H	1:A:41:ARG:O	18	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	10	0.17
(3,22)	1:A:40:ALA:O	1:A:49:VAL:H	4	0.17
(3,16)	1:A:28:ILE:O	1:C:226:LEU:N	3	0.17
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	8	0.17
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	9	0.17
(2,7)	1:A:36:CYS:CB	1:C:265:CYS:CB	7	0.17
(2,13)	1:C:209:CYS:CB	1:C:234:CYS:CB	8	0.17
(1,988)	1:C:220:ARG:HG2	1:C:261:TYR:HE1	15	0.17
(1,988)	1:C:220:ARG:HG2	1:C:261:TYR:HE2	15	0.17
(1,988)	1:C:220:ARG:HG3	1:C:261:TYR:HE1	15	0.17
(1,988)	1:C:220:ARG:HG3	1:C:261:TYR:HE2	15	0.17
(1,965)	1:C:218:VAL:HG11	2:D:321:TYR:HD1	10	0.17
(1,965)	1:C:218:VAL:HG11	2:D:321:TYR:HD2	10	0.17
(1,965)	1:C:218:VAL:HG12	2:D:321:TYR:HD1	10	0.17
(1,965)	1:C:218:VAL:HG12	2:D:321:TYR:HD2	10	0.17
(1,965)	1:C:218:VAL:HG13	2:D:321:TYR:HD1	10	0.17
(1,965)	1:C:218:VAL:HG13	2:D:321:TYR:HD2	10	0.17
(1,965)	1:C:218:VAL:HG21	2:D:321:TYR:HD1	10	0.17
(1,965)	1:C:218:VAL:HG21	2:D:321:TYR:HD2	10	0.17
(1,965)	1:C:218:VAL:HG22	2:D:321:TYR:HD1	10	0.17
(1,965)	1:C:218:VAL:HG22	2:D:321:TYR:HD2	10	0.17
(1,965)	1:C:218:VAL:HG23	2:D:321:TYR:HD1	10	0.17
(1,965)	1:C:218:VAL:HG23	2:D:321:TYR:HD2	10	0.17
(1,922)	1:C:214:PHE:HD1	1:C:251:ILE:HA	13	0.17
(1,922)	1:C:214:PHE:HD2	1:C:251:ILE:HA	13	0.17
(1,920)	1:C:214:PHE:HD1	1:C:216:SER:HB2	4	0.17
(1,920)	1:C:214:PHE:HD1	1:C:216:SER:HB3	4	0.17
(1,920)	1:C:214:PHE:HD2	1:C:216:SER:HB2	4	0.17
(1,920)	1:C:214:PHE:HD2	1:C:216:SER:HB3	4	0.17
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE1	2	0.17
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE2	2	0.17
(1,785)	2:B:112:TYR:HB3	2:B:114:GLU:H	6	0.17
(1,785)	2:B:112:TYR:HB3	2:B:114:GLU:H	9	0.17
(1,766)	2:B:106:ILE:HD11	2:B:107:TYR:HE1	11	0.17
(1,766)	2:B:106:ILE:HD11	2:B:107:TYR:HE2	11	0.17
(1,766)	2:B:106:ILE:HD12	2:B:107:TYR:HE1	11	0.17
(1,766)	2:B:106:ILE:HD12	2:B:107:TYR:HE2	11	0.17
(1,766)	2:B:106:ILE:HD13	2:B:107:TYR:HE1	11	0.17
(1,766)	2:B:106:ILE:HD13	2:B:107:TYR:HE2	11	0.17
(1,740)	1:A:68:LYS:HA	1:A:68:LYS:HD2	10	0.17
(1,740)	1:A:68:LYS:HA	1:A:68:LYS:HD3	10	0.17
(1,5)	1:A:8:ARG:HA	1:A:8:ARG:HD2	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5)	1:A:8:ARG:HA	1:A:8:ARG:HD3	19	0.17
(1,326)	1:A:35:ALA:HB1	1:A:54:LYS:HD2	20	0.17
(1,326)	1:A:35:ALA:HB1	1:A:54:LYS:HD3	20	0.17
(1,326)	1:A:35:ALA:HB2	1:A:54:LYS:HD2	20	0.17
(1,326)	1:A:35:ALA:HB2	1:A:54:LYS:HD3	20	0.17
(1,326)	1:A:35:ALA:HB3	1:A:54:LYS:HD2	20	0.17
(1,326)	1:A:35:ALA:HB3	1:A:54:LYS:HD3	20	0.17
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD1	2	0.17
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD2	2	0.17
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD1	2	0.17
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD2	2	0.17
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD1	2	0.17
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD2	2	0.17
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD1	7	0.17
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD2	7	0.17
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD1	7	0.17
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD2	7	0.17
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD1	7	0.17
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD2	7	0.17
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD1	12	0.17
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD2	12	0.17
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD1	12	0.17
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD2	12	0.17
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD1	12	0.17
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD2	12	0.17
(1,304)	1:A:29:LEU:HB2	2:B:112:TYR:HE1	1	0.17
(1,304)	1:A:29:LEU:HB2	2:B:112:TYR:HE2	1	0.17
(1,304)	1:A:29:LEU:HB3	2:B:112:TYR:HE1	1	0.17
(1,304)	1:A:29:LEU:HB3	2:B:112:TYR:HE2	1	0.17
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	5	0.17
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	5	0.17
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	5	0.17
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	5	0.17
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	5	0.17
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	5	0.17
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	5	0.17
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	5	0.17
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	5	0.17
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	5	0.17
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	5	0.17
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	5	0.17
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	17	0.17
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	17	0.17
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	17	0.17
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	17	0.17
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	17	0.17
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	17	0.17
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	17	0.17
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	17	0.17
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	17	0.17
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	17	0.17
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	17	0.17
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	19	0.17
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	19	0.17
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	19	0.17
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	19	0.17
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	19	0.17
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	19	0.17
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	19	0.17
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	19	0.17
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	19	0.17
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	19	0.17
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	19	0.17
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	19	0.17
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB2	1	0.17
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB3	1	0.17
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB2	16	0.17
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB3	16	0.17
(1,1603)	2:D:331:GLU:HB2	2:D:332:GLU:H	7	0.17
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	5	0.17
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	5	0.17
(1,1540)	2:D:312:TYR:HD1	2:D:313:THR:H	17	0.17
(1,1540)	2:D:312:TYR:HD2	2:D:313:THR:H	17	0.17
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD2	10	0.17
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD3	10	0.17
(1,147)	1:A:23:VAL:HG11	2:D:307:TYR:HB2	8	0.17
(1,147)	1:A:23:VAL:HG12	2:D:307:TYR:HB2	8	0.17
(1,147)	1:A:23:VAL:HG13	2:D:307:TYR:HB2	8	0.17
(1,147)	1:A:23:VAL:HG21	2:D:307:TYR:HB2	8	0.17
(1,147)	1:A:23:VAL:HG22	2:D:307:TYR:HB2	8	0.17
(1,147)	1:A:23:VAL:HG23	2:D:307:TYR:HB2	8	0.17
(1,146)	1:A:23:VAL:HG21	2:D:307:TYR:HE1	4	0.17
(1,146)	1:A:23:VAL:HG21	2:D:307:TYR:HE2	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,146)	1:A:23:VAL:HG22	2:D:307:TYR:HE1	4	0.17
(1,146)	1:A:23:VAL:HG22	2:D:307:TYR:HE2	4	0.17
(1,146)	1:A:23:VAL:HG23	2:D:307:TYR:HE1	4	0.17
(1,146)	1:A:23:VAL:HG23	2:D:307:TYR:HE2	4	0.17
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	15	0.17
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	15	0.17
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	15	0.17
(1,1324)	1:C:255:LEU:H	1:C:255:LEU:HG	17	0.17
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB2	18	0.17
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB3	18	0.17
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB2	18	0.17
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB3	18	0.17
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB2	18	0.17
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB3	18	0.17
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB2	18	0.17
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB3	18	0.17
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB2	18	0.17
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB3	18	0.17
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB2	18	0.17
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB3	18	0.17
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD1	19	0.17
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD2	19	0.17
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD1	19	0.17
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD2	19	0.17
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD1	19	0.17
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD2	19	0.17
(1,1117)	1:C:229:LEU:HD21	2:D:312:TYR:HD1	2	0.17
(1,1117)	1:C:229:LEU:HD21	2:D:312:TYR:HD2	2	0.17
(1,1117)	1:C:229:LEU:HD22	2:D:312:TYR:HD1	2	0.17
(1,1117)	1:C:229:LEU:HD22	2:D:312:TYR:HD2	2	0.17
(1,1117)	1:C:229:LEU:HD23	2:D:312:TYR:HD1	2	0.17
(1,1117)	1:C:229:LEU:HD23	2:D:312:TYR:HD2	2	0.17
(1,1115)	1:C:229:LEU:HD11	2:D:312:TYR:HD1	6	0.17
(1,1115)	1:C:229:LEU:HD11	2:D:312:TYR:HD2	6	0.17
(1,1115)	1:C:229:LEU:HD12	2:D:312:TYR:HD1	6	0.17
(1,1115)	1:C:229:LEU:HD12	2:D:312:TYR:HD2	6	0.17
(1,1115)	1:C:229:LEU:HD13	2:D:312:TYR:HD1	6	0.17
(1,1115)	1:C:229:LEU:HD13	2:D:312:TYR:HD2	6	0.17
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	4	0.17
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	4	0.17
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	4	0.17
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	4	0.17
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	4	0.17
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	4	0.17
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	4	0.17
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	4	0.17
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	4	0.17
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	4	0.17
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	4	0.17
(1,1036)	1:C:224:LYS:HE2	1:C:243:LYS:H	14	0.17
(1,1036)	1:C:224:LYS:HE3	1:C:243:LYS:H	14	0.17
(1,1036)	1:C:224:LYS:HE2	1:C:243:LYS:H	15	0.17
(1,1036)	1:C:224:LYS:HE3	1:C:243:LYS:H	15	0.17
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE1	14	0.17
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE2	14	0.17
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	8	0.16
(3,6)	1:A:26:LEU:N	1:C:228:ILE:O	8	0.16
(3,37)	1:C:240:ALA:O	1:C:249:VAL:H	6	0.16
(3,37)	1:C:240:ALA:O	1:C:249:VAL:H	18	0.16
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	7	0.16
(3,33)	1:C:238:ILE:O	1:C:251:ILE:H	11	0.16
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	16	0.16
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	20	0.16
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	10	0.16
(3,30)	1:C:227:LYS:N	1:C:239:VAL:O	7	0.16
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	5	0.16
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	14	0.16
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	16	0.16
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	17	0.16
(3,27)	1:C:224:LYS:H	1:C:241:ARG:O	9	0.16
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	13	0.16
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	16	0.16
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	5	0.16
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	7	0.16
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	7	0.16
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	16	0.16
(1,880)	1:C:210:PRO:HB2	1:C:231:THR:HG21	16	0.16
(1,880)	1:C:210:PRO:HB2	1:C:231:THR:HG22	16	0.16
(1,880)	1:C:210:PRO:HB2	1:C:231:THR:HG23	16	0.16
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE1	4	0.16
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE2	4	0.16
(1,872)	1:C:207:TYR:HA	1:C:207:TYR:HD1	12	0.16
(1,872)	1:C:207:TYR:HA	1:C:207:TYR:HD2	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,853)	2:B:131:GLU:HB2	2:B:132:GLU:H	6	0.16
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	16	0.16
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	16	0.16
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	19	0.16
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	19	0.16
(1,740)	1:A:68:LYS:HA	1:A:68:LYS:HD2	1	0.16
(1,740)	1:A:68:LYS:HA	1:A:68:LYS:HD3	1	0.16
(1,695)	1:A:65:CYS:H	1:A:68:LYS:HG2	13	0.16
(1,695)	1:A:65:CYS:H	1:A:68:LYS:HG3	13	0.16
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG12	13	0.16
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG13	13	0.16
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG12	13	0.16
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG13	13	0.16
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG12	13	0.16
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG13	13	0.16
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE1	17	0.16
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE2	17	0.16
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE1	17	0.16
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE2	17	0.16
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE1	17	0.16
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE2	17	0.16
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE1	19	0.16
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE2	19	0.16
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE1	19	0.16
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE2	19	0.16
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE1	19	0.16
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE2	19	0.16
(1,399)	1:A:42:LEU:HB3	1:A:47:ARG:H	10	0.16
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD1	15	0.16
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD2	15	0.16
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD1	15	0.16
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD2	15	0.16
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD1	15	0.16
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD2	15	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD11	5	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD12	5	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD13	5	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD21	5	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD22	5	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD23	5	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD11	5	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD12	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD13	5	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD21	5	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD22	5	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD23	5	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD11	15	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD12	15	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD13	15	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD21	15	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD22	15	0.16
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD23	15	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD11	15	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD12	15	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD13	15	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD21	15	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD22	15	0.16
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD23	15	0.16
(1,1603)	2:D:331:GLU:HB2	2:D:332:GLU:H	6	0.16
(1,1603)	2:D:331:GLU:HB2	2:D:332:GLU:H	14	0.16
(1,1586)	2:D:328:ALA:HA	2:D:329:PHE:H	7	0.16
(1,1584)	2:D:327:PRO:HG2	2:D:328:ALA:H	1	0.16
(1,1584)	2:D:327:PRO:HG3	2:D:328:ALA:H	1	0.16
(1,1584)	2:D:327:PRO:HG2	2:D:328:ALA:H	13	0.16
(1,1584)	2:D:327:PRO:HG3	2:D:328:ALA:H	13	0.16
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	11	0.16
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	11	0.16
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	16	0.16
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	16	0.16
(1,1547)	2:D:314:GLU:H	2:D:314:GLU:HG2	7	0.16
(1,1547)	2:D:314:GLU:H	2:D:314:GLU:HG3	7	0.16
(1,1547)	2:D:314:GLU:H	2:D:314:GLU:HG2	12	0.16
(1,1547)	2:D:314:GLU:H	2:D:314:GLU:HG3	12	0.16
(1,1542)	2:D:313:THR:H	2:D:313:THR:HG21	16	0.16
(1,1542)	2:D:313:THR:H	2:D:313:THR:HG22	16	0.16
(1,1542)	2:D:313:THR:H	2:D:313:THR:HG23	16	0.16
(1,1523)	2:D:306:ILE:HD11	2:D:307:TYR:HE1	14	0.16
(1,1523)	2:D:306:ILE:HD11	2:D:307:TYR:HE2	14	0.16
(1,1523)	2:D:306:ILE:HD12	2:D:307:TYR:HE1	14	0.16
(1,1523)	2:D:306:ILE:HD12	2:D:307:TYR:HE2	14	0.16
(1,1523)	2:D:306:ILE:HD13	2:D:307:TYR:HE1	14	0.16
(1,1523)	2:D:306:ILE:HD13	2:D:307:TYR:HE2	14	0.16
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD2	14	0.16
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD3	14	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1477)	1:C:265:CYS:H	1:C:268:LYS:HG2	13	0.16
(1,1477)	1:C:265:CYS:H	1:C:268:LYS:HG3	13	0.16
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	11	0.16
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	11	0.16
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	11	0.16
(1,143)	1:A:23:VAL:HG11	2:D:307:TYR:HE1	2	0.16
(1,143)	1:A:23:VAL:HG11	2:D:307:TYR:HE2	2	0.16
(1,143)	1:A:23:VAL:HG12	2:D:307:TYR:HE1	2	0.16
(1,143)	1:A:23:VAL:HG12	2:D:307:TYR:HE2	2	0.16
(1,143)	1:A:23:VAL:HG13	2:D:307:TYR:HE1	2	0.16
(1,143)	1:A:23:VAL:HG13	2:D:307:TYR:HE2	2	0.16
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE1	20	0.16
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE2	20	0.16
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE1	20	0.16
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE2	20	0.16
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE1	20	0.16
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE2	20	0.16
(1,118)	1:A:20:ARG:HD2	1:A:61:TYR:HE1	7	0.16
(1,118)	1:A:20:ARG:HD2	1:A:61:TYR:HE2	7	0.16
(1,118)	1:A:20:ARG:HD3	1:A:61:TYR:HE1	7	0.16
(1,118)	1:A:20:ARG:HD3	1:A:61:TYR:HE2	7	0.16
(1,115)	1:A:20:ARG:HB2	1:A:57:TRP:HH2	4	0.16
(1,115)	1:A:20:ARG:HB3	1:A:57:TRP:HH2	4	0.16
(1,1133)	1:C:235:ALA:HB1	1:C:254:LYS:HD2	19	0.16
(1,1133)	1:C:235:ALA:HB1	1:C:254:LYS:HD3	19	0.16
(1,1133)	1:C:235:ALA:HB2	1:C:254:LYS:HD2	19	0.16
(1,1133)	1:C:235:ALA:HB2	1:C:254:LYS:HD3	19	0.16
(1,1133)	1:C:235:ALA:HB3	1:C:254:LYS:HD2	19	0.16
(1,1133)	1:C:235:ALA:HB3	1:C:254:LYS:HD3	19	0.16
(1,1117)	1:C:229:LEU:HD21	2:D:312:TYR:HD1	12	0.16
(1,1117)	1:C:229:LEU:HD21	2:D:312:TYR:HD2	12	0.16
(1,1117)	1:C:229:LEU:HD22	2:D:312:TYR:HD1	12	0.16
(1,1117)	1:C:229:LEU:HD22	2:D:312:TYR:HD2	12	0.16
(1,1117)	1:C:229:LEU:HD23	2:D:312:TYR:HD1	12	0.16
(1,1117)	1:C:229:LEU:HD23	2:D:312:TYR:HD2	12	0.16
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	10	0.16
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	10	0.16
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	10	0.16
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	10	0.16
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	10	0.16
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	10	0.16
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	10	0.16
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	10	0.16
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	10	0.16
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	10	0.16
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	10	0.16
(1,1048)	1:C:225:HIS:HE1	1:C:241:ARG:HD2	11	0.16
(1,1048)	1:C:225:HIS:HE1	1:C:241:ARG:HD3	11	0.16
(1,1040)	1:C:224:LYS:HG2	1:C:243:LYS:H	10	0.16
(1,1040)	1:C:224:LYS:HG3	1:C:243:LYS:H	10	0.16
(1,1031)	1:C:224:LYS:HB2	1:C:225:HIS:HD2	1	0.16
(1,1031)	1:C:224:LYS:HB3	1:C:225:HIS:HD2	1	0.16
(1,103)	1:A:19:ALA:H	1:A:49:VAL:HG21	4	0.16
(1,103)	1:A:19:ALA:H	1:A:49:VAL:HG22	4	0.16
(1,103)	1:A:19:ALA:H	1:A:49:VAL:HG23	4	0.16
(1,1011)	1:C:223:VAL:HG11	1:C:242:LEU:H	14	0.16
(1,1011)	1:C:223:VAL:HG12	1:C:242:LEU:H	14	0.16
(1,1011)	1:C:223:VAL:HG13	1:C:242:LEU:H	14	0.16
(1,1011)	1:C:223:VAL:HG21	1:C:242:LEU:H	14	0.16
(1,1011)	1:C:223:VAL:HG22	1:C:242:LEU:H	14	0.16
(1,1011)	1:C:223:VAL:HG23	1:C:242:LEU:H	14	0.16
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE1	17	0.16
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE2	17	0.16
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	4	0.15
(3,5)	1:A:26:LEU:H	1:C:228:ILE:O	14	0.15
(3,4)	1:A:24:LYS:N	1:A:41:ARG:O	2	0.15
(3,35)	1:C:240:ALA:H	1:C:249:VAL:O	2	0.15
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	4	0.15
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	7	0.15
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	3	0.15
(3,18)	1:A:38:ILE:O	1:A:51:ILE:H	7	0.15
(3,16)	1:A:28:ILE:O	1:C:226:LEU:N	7	0.15
(3,14)	1:A:28:ILE:N	1:C:226:LEU:O	16	0.15
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	20	0.15
(3,12)	1:A:27:LYS:O	1:A:39:VAL:N	10	0.15
(3,10)	1:A:27:LYS:N	1:A:39:VAL:O	7	0.15
(2,7)	1:A:36:CYS:CB	1:C:265:CYS:CB	6	0.15
(2,3)	1:A:9:CYS:SG	1:A:34:CYS:CB	20	0.15
(2,10)	1:A:65:CYS:CB	1:C:236:CYS:CB	15	0.15
(1,988)	1:C:220:ARG:HG2	1:C:261:TYR:HE1	10	0.15
(1,988)	1:C:220:ARG:HG2	1:C:261:TYR:HE2	10	0.15
(1,988)	1:C:220:ARG:HG3	1:C:261:TYR:HE1	10	0.15
(1,988)	1:C:220:ARG:HG3	1:C:261:TYR:HE2	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,965)	1:C:218:VAL:HG11	2:D:321:TYR:HD1	12	0.15
(1,965)	1:C:218:VAL:HG11	2:D:321:TYR:HD2	12	0.15
(1,965)	1:C:218:VAL:HG12	2:D:321:TYR:HD1	12	0.15
(1,965)	1:C:218:VAL:HG12	2:D:321:TYR:HD2	12	0.15
(1,965)	1:C:218:VAL:HG13	2:D:321:TYR:HD1	12	0.15
(1,965)	1:C:218:VAL:HG13	2:D:321:TYR:HD2	12	0.15
(1,965)	1:C:218:VAL:HG21	2:D:321:TYR:HD1	12	0.15
(1,965)	1:C:218:VAL:HG21	2:D:321:TYR:HD2	12	0.15
(1,965)	1:C:218:VAL:HG22	2:D:321:TYR:HD1	12	0.15
(1,965)	1:C:218:VAL:HG22	2:D:321:TYR:HD2	12	0.15
(1,965)	1:C:218:VAL:HG23	2:D:321:TYR:HD1	12	0.15
(1,965)	1:C:218:VAL:HG23	2:D:321:TYR:HD2	12	0.15
(1,949)	1:C:218:VAL:H	2:D:321:TYR:HB3	12	0.15
(1,894)	1:C:210:PRO:HG2	2:D:312:TYR:HE1	3	0.15
(1,894)	1:C:210:PRO:HG2	2:D:312:TYR:HE2	3	0.15
(1,894)	1:C:210:PRO:HG3	2:D:312:TYR:HE1	3	0.15
(1,894)	1:C:210:PRO:HG3	2:D:312:TYR:HE2	3	0.15
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD1	2	0.15
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD2	2	0.15
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD1	17	0.15
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD2	17	0.15
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD1	19	0.15
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD2	19	0.15
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE1	18	0.15
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE2	18	0.15
(1,873)	1:C:208:ARG:HA	1:C:208:ARG:HD2	19	0.15
(1,873)	1:C:208:ARG:HA	1:C:208:ARG:HD3	19	0.15
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	4	0.15
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	4	0.15
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	15	0.15
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	15	0.15
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	17	0.15
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	17	0.15
(1,785)	2:B:112:TYR:HB3	2:B:114:GLU:H	11	0.15
(1,695)	1:A:65:CYS:H	1:A:68:LYS:HG2	5	0.15
(1,695)	1:A:65:CYS:H	1:A:68:LYS:HG3	5	0.15
(1,695)	1:A:65:CYS:H	1:A:68:LYS:HG2	20	0.15
(1,695)	1:A:65:CYS:H	1:A:68:LYS:HG3	20	0.15
(1,684)	1:A:64:LYS:HB3	1:A:64:LYS:HE2	6	0.15
(1,684)	1:A:64:LYS:HB3	1:A:64:LYS:HE3	6	0.15
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG12	15	0.15
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG13	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG12	15	0.15
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG13	15	0.15
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG12	15	0.15
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG13	15	0.15
(1,408)	1:A:42:LEU:HD11	1:A:47:ARG:HD2	1	0.15
(1,408)	1:A:42:LEU:HD11	1:A:47:ARG:HD3	1	0.15
(1,408)	1:A:42:LEU:HD12	1:A:47:ARG:HD2	1	0.15
(1,408)	1:A:42:LEU:HD12	1:A:47:ARG:HD3	1	0.15
(1,408)	1:A:42:LEU:HD13	1:A:47:ARG:HD2	1	0.15
(1,408)	1:A:42:LEU:HD13	1:A:47:ARG:HD3	1	0.15
(1,408)	1:A:42:LEU:HD21	1:A:47:ARG:HD2	1	0.15
(1,408)	1:A:42:LEU:HD21	1:A:47:ARG:HD3	1	0.15
(1,408)	1:A:42:LEU:HD22	1:A:47:ARG:HD2	1	0.15
(1,408)	1:A:42:LEU:HD22	1:A:47:ARG:HD3	1	0.15
(1,408)	1:A:42:LEU:HD23	1:A:47:ARG:HD2	1	0.15
(1,408)	1:A:42:LEU:HD23	1:A:47:ARG:HD3	1	0.15
(1,407)	1:A:42:LEU:HD11	1:A:47:ARG:HB2	18	0.15
(1,407)	1:A:42:LEU:HD11	1:A:47:ARG:HB3	18	0.15
(1,407)	1:A:42:LEU:HD12	1:A:47:ARG:HB2	18	0.15
(1,407)	1:A:42:LEU:HD12	1:A:47:ARG:HB3	18	0.15
(1,407)	1:A:42:LEU:HD13	1:A:47:ARG:HB2	18	0.15
(1,407)	1:A:42:LEU:HD13	1:A:47:ARG:HB3	18	0.15
(1,407)	1:A:42:LEU:HD21	1:A:47:ARG:HB2	18	0.15
(1,407)	1:A:42:LEU:HD21	1:A:47:ARG:HB3	18	0.15
(1,407)	1:A:42:LEU:HD22	1:A:47:ARG:HB2	18	0.15
(1,407)	1:A:42:LEU:HD22	1:A:47:ARG:HB3	18	0.15
(1,407)	1:A:42:LEU:HD23	1:A:47:ARG:HB2	18	0.15
(1,407)	1:A:42:LEU:HD23	1:A:47:ARG:HB3	18	0.15
(1,373)	1:A:40:ALA:HB1	1:A:57:TRP:HZ2	14	0.15
(1,373)	1:A:40:ALA:HB2	1:A:57:TRP:HZ2	14	0.15
(1,373)	1:A:40:ALA:HB3	1:A:57:TRP:HZ2	14	0.15
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	19	0.15
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	19	0.15
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	19	0.15
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	19	0.15
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	19	0.15
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	19	0.15
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD1	20	0.15
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD2	20	0.15
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD1	20	0.15
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD2	20	0.15
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD1	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD2	20	0.15
(1,304)	1:A:29:LEU:HB2	2:B:112:TYR:HE1	7	0.15
(1,304)	1:A:29:LEU:HB2	2:B:112:TYR:HE2	7	0.15
(1,304)	1:A:29:LEU:HB3	2:B:112:TYR:HE1	7	0.15
(1,304)	1:A:29:LEU:HB3	2:B:112:TYR:HE2	7	0.15
(1,249)	1:A:27:LYS:HG2	2:B:112:TYR:HE1	17	0.15
(1,249)	1:A:27:LYS:HG2	2:B:112:TYR:HE2	17	0.15
(1,198)	1:A:25:HIS:HE1	1:C:227:LYS:HE2	18	0.15
(1,198)	1:A:25:HIS:HE1	1:C:227:LYS:HE3	18	0.15
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB2	4	0.15
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB3	4	0.15
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB2	20	0.15
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB3	20	0.15
(1,176)	1:A:24:LYS:HE2	1:A:43:LYS:H	14	0.15
(1,176)	1:A:24:LYS:HE3	1:A:43:LYS:H	14	0.15
(1,171)	1:A:24:LYS:HB2	1:A:25:HIS:HD2	19	0.15
(1,171)	1:A:24:LYS:HB3	1:A:25:HIS:HD2	19	0.15
(1,1584)	2:D:327:PRO:HG2	2:D:328:ALA:H	14	0.15
(1,1584)	2:D:327:PRO:HG3	2:D:328:ALA:H	14	0.15
(1,1566)	2:D:324:MET:H	2:D:325:LYS:HG2	10	0.15
(1,1566)	2:D:324:MET:H	2:D:325:LYS:HG3	10	0.15
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	12	0.15
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	12	0.15
(1,1545)	2:D:313:THR:HG21	2:D:315:GLU:H	17	0.15
(1,1545)	2:D:313:THR:HG22	2:D:315:GLU:H	17	0.15
(1,1545)	2:D:313:THR:HG23	2:D:315:GLU:H	17	0.15
(1,1521)	2:D:306:ILE:HB	2:D:307:TYR:HD1	5	0.15
(1,1521)	2:D:306:ILE:HB	2:D:307:TYR:HD2	5	0.15
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD2	1	0.15
(1,1497)	1:C:268:LYS:HA	1:C:268:LYS:HD3	1	0.15
(1,1476)	1:C:265:CYS:H	1:C:268:LYS:HD2	1	0.15
(1,1476)	1:C:265:CYS:H	1:C:268:LYS:HD3	1	0.15
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG12	4	0.15
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG13	4	0.15
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG12	4	0.15
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG13	4	0.15
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG12	4	0.15
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG13	4	0.15
(1,1303)	1:C:254:LYS:H	1:C:254:LYS:HE2	11	0.15
(1,1303)	1:C:254:LYS:H	1:C:254:LYS:HE3	11	0.15
(1,1215)	1:C:242:LEU:HD11	1:C:247:ARG:HD2	9	0.15
(1,1215)	1:C:242:LEU:HD11	1:C:247:ARG:HD3	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1215)	1:C:242:LEU:HD12	1:C:247:ARG:HD2	9	0.15
(1,1215)	1:C:242:LEU:HD12	1:C:247:ARG:HD3	9	0.15
(1,1215)	1:C:242:LEU:HD13	1:C:247:ARG:HD2	9	0.15
(1,1215)	1:C:242:LEU:HD13	1:C:247:ARG:HD3	9	0.15
(1,1215)	1:C:242:LEU:HD21	1:C:247:ARG:HD2	9	0.15
(1,1215)	1:C:242:LEU:HD21	1:C:247:ARG:HD3	9	0.15
(1,1215)	1:C:242:LEU:HD22	1:C:247:ARG:HD2	9	0.15
(1,1215)	1:C:242:LEU:HD22	1:C:247:ARG:HD3	9	0.15
(1,1215)	1:C:242:LEU:HD23	1:C:247:ARG:HD2	9	0.15
(1,1215)	1:C:242:LEU:HD23	1:C:247:ARG:HD3	9	0.15
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB2	2	0.15
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB3	2	0.15
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB2	2	0.15
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB3	2	0.15
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB2	2	0.15
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB3	2	0.15
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB2	2	0.15
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB3	2	0.15
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB2	2	0.15
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB3	2	0.15
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB2	2	0.15
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB3	2	0.15
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD1	1	0.15
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD2	1	0.15
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD1	1	0.15
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD2	1	0.15
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD1	1	0.15
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD2	1	0.15
(1,1117)	1:C:229:LEU:HD21	2:D:312:TYR:HD1	7	0.15
(1,1117)	1:C:229:LEU:HD21	2:D:312:TYR:HD2	7	0.15
(1,1117)	1:C:229:LEU:HD22	2:D:312:TYR:HD1	7	0.15
(1,1117)	1:C:229:LEU:HD22	2:D:312:TYR:HD2	7	0.15
(1,1117)	1:C:229:LEU:HD23	2:D:312:TYR:HD1	7	0.15
(1,1117)	1:C:229:LEU:HD23	2:D:312:TYR:HD2	7	0.15
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE1	6	0.15
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE2	6	0.15
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE1	6	0.15
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE2	6	0.15
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE1	14	0.15
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE2	14	0.15
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE1	14	0.15
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE2	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD11	10	0.15
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD12	10	0.15
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD13	10	0.15
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD21	10	0.15
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD22	10	0.15
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD23	10	0.15
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD11	10	0.15
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD12	10	0.15
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD13	10	0.15
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD21	10	0.15
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD22	10	0.15
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD23	10	0.15
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	7	0.15
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	7	0.15
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	7	0.15
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	7	0.15
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	7	0.15
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	7	0.15
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	7	0.15
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	7	0.15
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	7	0.15
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	7	0.15
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	7	0.15
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	7	0.15
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	9	0.15
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	9	0.15
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	9	0.15
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	9	0.15
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	9	0.15
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	9	0.15
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	9	0.15
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	9	0.15
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	9	0.15
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	9	0.15
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	9	0.15
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	9	0.15
(1,1057)	1:C:226:LEU:HB3	1:C:239:VAL:H	5	0.15
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	19	0.14
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	11	0.14
(3,6)	1:A:26:LEU:N	1:C:228:ILE:O	17	0.14
(3,38)	1:C:240:ALA:O	1:C:249:VAL:N	5	0.14
(3,38)	1:C:240:ALA:O	1:C:249:VAL:N	15	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,37)	1:C:240:ALA:O	1:C:249:VAL:H	2	0.14
(3,37)	1:C:240:ALA:O	1:C:249:VAL:H	7	0.14
(3,37)	1:C:240:ALA:O	1:C:249:VAL:H	9	0.14
(3,31)	1:C:227:LYS:O	1:C:239:VAL:H	16	0.14
(3,22)	1:A:40:ALA:O	1:A:49:VAL:H	6	0.14
(3,20)	1:A:40:ALA:H	1:A:49:VAL:O	2	0.14
(3,15)	1:A:28:ILE:O	1:C:226:LEU:H	3	0.14
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	7	0.14
(2,5)	1:A:11:CYS:CB	1:A:50:CYS:SG	3	0.14
(2,2)	1:A:9:CYS:CB	1:A:34:CYS:SG	2	0.14
(2,2)	1:A:9:CYS:CB	1:A:34:CYS:SG	20	0.14
(2,17)	1:C:211:CYS:CB	1:C:250:CYS:SG	16	0.14
(2,17)	1:C:211:CYS:CB	1:C:250:CYS:SG	17	0.14
(2,10)	1:A:65:CYS:CB	1:C:236:CYS:CB	11	0.14
(2,1)	1:A:9:CYS:CB	1:A:34:CYS:CB	19	0.14
(1,988)	1:C:220:ARG:HG2	1:C:261:TYR:HE1	20	0.14
(1,988)	1:C:220:ARG:HG2	1:C:261:TYR:HE2	20	0.14
(1,988)	1:C:220:ARG:HG3	1:C:261:TYR:HE1	20	0.14
(1,988)	1:C:220:ARG:HG3	1:C:261:TYR:HE2	20	0.14
(1,943)	1:C:217:HIS:HA	1:C:217:HIS:HD2	13	0.14
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD1	3	0.14
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD2	3	0.14
(1,832)	2:B:127:PRO:HG2	2:B:128:ALA:H	4	0.14
(1,832)	2:B:127:PRO:HG3	2:B:128:ALA:H	4	0.14
(1,832)	2:B:127:PRO:HG2	2:B:128:ALA:H	18	0.14
(1,832)	2:B:127:PRO:HG3	2:B:128:ALA:H	18	0.14
(1,813)	2:B:124:MET:HA	2:B:125:LYS:H	7	0.14
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	5	0.14
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	5	0.14
(1,788)	2:B:113:THR:H	2:B:113:THR:HG21	9	0.14
(1,788)	2:B:113:THR:H	2:B:113:THR:HG22	9	0.14
(1,788)	2:B:113:THR:H	2:B:113:THR:HG23	9	0.14
(1,788)	2:B:113:THR:H	2:B:113:THR:HG21	19	0.14
(1,788)	2:B:113:THR:H	2:B:113:THR:HG22	19	0.14
(1,788)	2:B:113:THR:H	2:B:113:THR:HG23	19	0.14
(1,764)	2:B:106:ILE:HB	2:B:107:TYR:HD1	15	0.14
(1,764)	2:B:106:ILE:HB	2:B:107:TYR:HD2	15	0.14
(1,695)	1:A:65:CYS:H	1:A:68:LYS:HG2	4	0.14
(1,695)	1:A:65:CYS:H	1:A:68:LYS:HG3	4	0.14
(1,479)	1:A:52:ASP:HB3	1:A:55:LEU:H	5	0.14
(1,4)	1:A:7:TYR:HA	1:A:7:TYR:HD1	12	0.14
(1,4)	1:A:7:TYR:HA	1:A:7:TYR:HD2	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,304)	1:A:29:LEU:HB2	2:B:112:TYR:HE1	16	0.14
(1,304)	1:A:29:LEU:HB2	2:B:112:TYR:HE2	16	0.14
(1,304)	1:A:29:LEU:HB3	2:B:112:TYR:HE1	16	0.14
(1,304)	1:A:29:LEU:HB3	2:B:112:TYR:HE2	16	0.14
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD11	18	0.14
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD12	18	0.14
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD13	18	0.14
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD21	18	0.14
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD22	18	0.14
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD23	18	0.14
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD11	18	0.14
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD12	18	0.14
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD13	18	0.14
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD21	18	0.14
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD22	18	0.14
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD23	18	0.14
(1,261)	1:A:27:LYS:HE2	1:C:225:HIS:HE1	5	0.14
(1,261)	1:A:27:LYS:HE3	1:C:225:HIS:HE1	5	0.14
(1,249)	1:A:27:LYS:HG2	2:B:112:TYR:HE1	4	0.14
(1,249)	1:A:27:LYS:HG2	2:B:112:TYR:HE2	4	0.14
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE1	10	0.14
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE2	10	0.14
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE1	10	0.14
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE2	10	0.14
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	20	0.14
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	20	0.14
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	20	0.14
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	20	0.14
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	20	0.14
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	20	0.14
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	20	0.14
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	20	0.14
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	20	0.14
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	20	0.14
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	20	0.14
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	20	0.14
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB2	19	0.14
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB3	19	0.14
(1,172)	1:A:24:LYS:HB2	1:A:25:HIS:HE1	12	0.14
(1,172)	1:A:24:LYS:HB3	1:A:25:HIS:HE1	12	0.14
(1,1617)	2:D:338:LYS:HB3	2:D:338:LYS:HD2	7	0.14
(1,1617)	2:D:338:LYS:HB3	2:D:338:LYS:HD3	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1584)	2:D:327:PRO:HG2	2:D:328:ALA:H	17	0.14
(1,1584)	2:D:327:PRO:HG3	2:D:328:ALA:H	17	0.14
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	7	0.14
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	7	0.14
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	10	0.14
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	10	0.14
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	17	0.14
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	17	0.14
(1,1511)	2:D:304:ILE:HD11	2:D:305:SER:H	18	0.14
(1,1511)	2:D:304:ILE:HD12	2:D:305:SER:H	18	0.14
(1,1511)	2:D:304:ILE:HD13	2:D:305:SER:H	18	0.14
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	20	0.14
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	20	0.14
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	20	0.14
(1,143)	1:A:23:VAL:HG11	2:D:307:TYR:HE1	16	0.14
(1,143)	1:A:23:VAL:HG11	2:D:307:TYR:HE2	16	0.14
(1,143)	1:A:23:VAL:HG12	2:D:307:TYR:HE1	16	0.14
(1,143)	1:A:23:VAL:HG12	2:D:307:TYR:HE2	16	0.14
(1,143)	1:A:23:VAL:HG13	2:D:307:TYR:HE1	16	0.14
(1,143)	1:A:23:VAL:HG13	2:D:307:TYR:HE2	16	0.14
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG12	1	0.14
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG13	1	0.14
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG12	1	0.14
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG13	1	0.14
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG12	1	0.14
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG13	1	0.14
(1,1211)	1:C:242:LEU:HD11	1:C:246:ASN:HB2	12	0.14
(1,1211)	1:C:242:LEU:HD11	1:C:246:ASN:HB3	12	0.14
(1,1211)	1:C:242:LEU:HD12	1:C:246:ASN:HB2	12	0.14
(1,1211)	1:C:242:LEU:HD12	1:C:246:ASN:HB3	12	0.14
(1,1211)	1:C:242:LEU:HD13	1:C:246:ASN:HB2	12	0.14
(1,1211)	1:C:242:LEU:HD13	1:C:246:ASN:HB3	12	0.14
(1,1211)	1:C:242:LEU:HD21	1:C:246:ASN:HB2	12	0.14
(1,1211)	1:C:242:LEU:HD21	1:C:246:ASN:HB3	12	0.14
(1,1211)	1:C:242:LEU:HD22	1:C:246:ASN:HB2	12	0.14
(1,1211)	1:C:242:LEU:HD22	1:C:246:ASN:HB3	12	0.14
(1,1211)	1:C:242:LEU:HD23	1:C:246:ASN:HB2	12	0.14
(1,1211)	1:C:242:LEU:HD23	1:C:246:ASN:HB3	12	0.14
(1,120)	1:A:20:ARG:HG2	1:A:61:TYR:HE1	12	0.14
(1,120)	1:A:20:ARG:HG2	1:A:61:TYR:HE2	12	0.14
(1,120)	1:A:20:ARG:HG3	1:A:61:TYR:HE1	12	0.14
(1,120)	1:A:20:ARG:HG3	1:A:61:TYR:HE2	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,120)	1:A:20:ARG:HG2	1:A:61:TYR:HE1	17	0.14
(1,120)	1:A:20:ARG:HG2	1:A:61:TYR:HE2	17	0.14
(1,120)	1:A:20:ARG:HG3	1:A:61:TYR:HE1	17	0.14
(1,120)	1:A:20:ARG:HG3	1:A:61:TYR:HE2	17	0.14
(1,115)	1:A:20:ARG:HB2	1:A:57:TRP:HH2	7	0.14
(1,115)	1:A:20:ARG:HB3	1:A:57:TRP:HH2	7	0.14
(1,115)	1:A:20:ARG:HB2	1:A:57:TRP:HH2	16	0.14
(1,115)	1:A:20:ARG:HB3	1:A:57:TRP:HH2	16	0.14
(1,1133)	1:C:235:ALA:HB1	1:C:254:LYS:HD2	5	0.14
(1,1133)	1:C:235:ALA:HB1	1:C:254:LYS:HD3	5	0.14
(1,1133)	1:C:235:ALA:HB2	1:C:254:LYS:HD2	5	0.14
(1,1133)	1:C:235:ALA:HB2	1:C:254:LYS:HD3	5	0.14
(1,1133)	1:C:235:ALA:HB3	1:C:254:LYS:HD2	5	0.14
(1,1133)	1:C:235:ALA:HB3	1:C:254:LYS:HD3	5	0.14
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE1	7	0.14
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE2	7	0.14
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE1	7	0.14
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE2	7	0.14
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD1	11	0.14
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD2	11	0.14
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	8	0.14
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	8	0.14
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	8	0.14
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	8	0.14
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	8	0.14
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	8	0.14
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	8	0.14
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	8	0.14
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	8	0.14
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	8	0.14
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	8	0.14
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	8	0.14
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	15	0.14
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	15	0.14
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	15	0.14
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	15	0.14
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	15	0.14
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	15	0.14
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	15	0.14
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	15	0.14
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	15	0.14
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	15	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	15	0.14
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	15	0.14
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE1	18	0.14
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE2	18	0.14
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	14	0.13
(3,8)	1:A:26:LEU:O	1:C:228:ILE:N	16	0.13
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	5	0.13
(3,6)	1:A:26:LEU:N	1:C:228:ILE:O	20	0.13
(3,5)	1:A:26:LEU:H	1:C:228:ILE:O	8	0.13
(3,4)	1:A:24:LYS:N	1:A:41:ARG:O	1	0.13
(3,4)	1:A:24:LYS:N	1:A:41:ARG:O	20	0.13
(3,38)	1:C:240:ALA:O	1:C:249:VAL:N	10	0.13
(3,38)	1:C:240:ALA:O	1:C:249:VAL:N	11	0.13
(3,36)	1:C:240:ALA:N	1:C:249:VAL:O	6	0.13
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	8	0.13
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	10	0.13
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	19	0.13
(3,28)	1:C:224:LYS:N	1:C:241:ARG:O	13	0.13
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	2	0.13
(3,23)	1:A:40:ALA:O	1:A:49:VAL:N	11	0.13
(3,22)	1:A:40:ALA:O	1:A:49:VAL:H	19	0.13
(3,15)	1:A:28:ILE:O	1:C:226:LEU:H	7	0.13
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	4	0.13
(2,7)	1:A:36:CYS:CB	1:C:265:CYS:CB	4	0.13
(2,6)	1:A:11:CYS:SG	1:A:50:CYS:CB	18	0.13
(2,5)	1:A:11:CYS:CB	1:A:50:CYS:SG	16	0.13
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	1	0.13
(2,17)	1:C:211:CYS:CB	1:C:250:CYS:SG	4	0.13
(2,17)	1:C:211:CYS:CB	1:C:250:CYS:SG	14	0.13
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	3	0.13
(2,16)	1:C:211:CYS:CB	1:C:250:CYS:CB	17	0.13
(2,13)	1:C:209:CYS:CB	1:C:234:CYS:CB	13	0.13
(1,960)	1:C:218:VAL:HG11	1:C:252:ASP:H	14	0.13
(1,960)	1:C:218:VAL:HG12	1:C:252:ASP:H	14	0.13
(1,960)	1:C:218:VAL:HG13	1:C:252:ASP:H	14	0.13
(1,960)	1:C:218:VAL:HG21	1:C:252:ASP:H	14	0.13
(1,960)	1:C:218:VAL:HG22	1:C:252:ASP:H	14	0.13
(1,960)	1:C:218:VAL:HG23	1:C:252:ASP:H	14	0.13
(1,901)	1:C:212:ARG:HG2	1:C:213:PHE:HD1	4	0.13
(1,901)	1:C:212:ARG:HG2	1:C:213:PHE:HD2	4	0.13
(1,901)	1:C:212:ARG:HG3	1:C:213:PHE:HD1	4	0.13
(1,901)	1:C:212:ARG:HG3	1:C:213:PHE:HD2	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,894)	1:C:210:PRO:HG2	2:D:312:TYR:HE1	11	0.13
(1,894)	1:C:210:PRO:HG2	2:D:312:TYR:HE2	11	0.13
(1,894)	1:C:210:PRO:HG3	2:D:312:TYR:HE1	11	0.13
(1,894)	1:C:210:PRO:HG3	2:D:312:TYR:HE2	11	0.13
(1,894)	1:C:210:PRO:HG2	2:D:312:TYR:HE1	18	0.13
(1,894)	1:C:210:PRO:HG2	2:D:312:TYR:HE2	18	0.13
(1,894)	1:C:210:PRO:HG3	2:D:312:TYR:HE1	18	0.13
(1,894)	1:C:210:PRO:HG3	2:D:312:TYR:HE2	18	0.13
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE1	1	0.13
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE2	1	0.13
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE1	14	0.13
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE2	14	0.13
(1,871)	1:C:206:SER:HB2	1:C:207:TYR:HD1	11	0.13
(1,871)	1:C:206:SER:HB2	1:C:207:TYR:HD2	11	0.13
(1,871)	1:C:206:SER:HB3	1:C:207:TYR:HD1	11	0.13
(1,871)	1:C:206:SER:HB3	1:C:207:TYR:HD2	11	0.13
(1,865)	2:B:138:LYS:HB2	2:B:138:LYS:HD2	9	0.13
(1,865)	2:B:138:LYS:HB2	2:B:138:LYS:HD3	9	0.13
(1,85)	1:A:18:VAL:HB	1:A:51:ILE:HG21	15	0.13
(1,85)	1:A:18:VAL:HB	1:A:51:ILE:HG22	15	0.13
(1,85)	1:A:18:VAL:HB	1:A:51:ILE:HG23	15	0.13
(1,835)	2:B:128:ALA:HA	2:B:129:PHE:H	7	0.13
(1,832)	2:B:127:PRO:HG2	2:B:128:ALA:H	12	0.13
(1,832)	2:B:127:PRO:HG3	2:B:128:ALA:H	12	0.13
(1,788)	2:B:113:THR:H	2:B:113:THR:HG21	16	0.13
(1,788)	2:B:113:THR:H	2:B:113:THR:HG22	16	0.13
(1,788)	2:B:113:THR:H	2:B:113:THR:HG23	16	0.13
(1,764)	2:B:106:ILE:HB	2:B:107:TYR:HD1	5	0.13
(1,764)	2:B:106:ILE:HB	2:B:107:TYR:HD2	5	0.13
(1,757)	2:B:106:ILE:H	2:B:106:ILE:HB	18	0.13
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG12	2	0.13
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG13	2	0.13
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG12	2	0.13
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG13	2	0.13
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG12	2	0.13
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG13	2	0.13
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG12	6	0.13
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG13	6	0.13
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG12	6	0.13
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG13	6	0.13
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG12	6	0.13
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG13	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG12	10	0.13
(1,550)	1:A:55:LEU:HD21	1:A:58:ILE:HG13	10	0.13
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG12	10	0.13
(1,550)	1:A:55:LEU:HD22	1:A:58:ILE:HG13	10	0.13
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG12	10	0.13
(1,550)	1:A:55:LEU:HD23	1:A:58:ILE:HG13	10	0.13
(1,496)	1:A:54:LYS:H	1:A:54:LYS:HE2	2	0.13
(1,496)	1:A:54:LYS:H	1:A:54:LYS:HE3	2	0.13
(1,332)	1:A:37:GLN:HE21	1:A:53:PRO:HG3	19	0.13
(1,332)	1:A:37:GLN:HE22	1:A:53:PRO:HG3	19	0.13
(1,330)	1:A:37:GLN:H	1:A:53:PRO:HG3	3	0.13
(1,330)	1:A:37:GLN:H	1:A:53:PRO:HG3	15	0.13
(1,310)	1:A:29:LEU:HD11	2:B:112:TYR:HE1	19	0.13
(1,310)	1:A:29:LEU:HD11	2:B:112:TYR:HE2	19	0.13
(1,310)	1:A:29:LEU:HD12	2:B:112:TYR:HE1	19	0.13
(1,310)	1:A:29:LEU:HD12	2:B:112:TYR:HE2	19	0.13
(1,310)	1:A:29:LEU:HD13	2:B:112:TYR:HE1	19	0.13
(1,310)	1:A:29:LEU:HD13	2:B:112:TYR:HE2	19	0.13
(1,310)	1:A:29:LEU:HD21	2:B:112:TYR:HE1	19	0.13
(1,310)	1:A:29:LEU:HD21	2:B:112:TYR:HE2	19	0.13
(1,310)	1:A:29:LEU:HD22	2:B:112:TYR:HE1	19	0.13
(1,310)	1:A:29:LEU:HD22	2:B:112:TYR:HE2	19	0.13
(1,310)	1:A:29:LEU:HD23	2:B:112:TYR:HE1	19	0.13
(1,310)	1:A:29:LEU:HD23	2:B:112:TYR:HE2	19	0.13
(1,3)	1:A:6:SER:HB2	1:A:7:TYR:HD1	3	0.13
(1,3)	1:A:6:SER:HB2	1:A:7:TYR:HD2	3	0.13
(1,3)	1:A:6:SER:HB3	1:A:7:TYR:HD1	3	0.13
(1,3)	1:A:6:SER:HB3	1:A:7:TYR:HD2	3	0.13
(1,255)	1:A:27:LYS:HB2	1:C:225:HIS:HD2	4	0.13
(1,255)	1:A:27:LYS:HB3	1:C:225:HIS:HD2	4	0.13
(1,255)	1:A:27:LYS:HB2	1:C:225:HIS:HD2	16	0.13
(1,255)	1:A:27:LYS:HB3	1:C:225:HIS:HD2	16	0.13
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE1	11	0.13
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE2	11	0.13
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE1	11	0.13
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE2	11	0.13
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	12	0.13
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	12	0.13
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	12	0.13
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	12	0.13
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	12	0.13
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	12	0.13
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	12	0.13
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	12	0.13
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	12	0.13
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	12	0.13
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	12	0.13
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	14	0.13
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	14	0.13
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	14	0.13
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	14	0.13
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	14	0.13
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	14	0.13
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	14	0.13
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	14	0.13
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	14	0.13
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	14	0.13
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	14	0.13
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	14	0.13
(1,223)	1:A:26:LEU:HD11	1:C:228:ILE:HD11	16	0.13
(1,223)	1:A:26:LEU:HD11	1:C:228:ILE:HD12	16	0.13
(1,223)	1:A:26:LEU:HD11	1:C:228:ILE:HD13	16	0.13
(1,223)	1:A:26:LEU:HD12	1:C:228:ILE:HD11	16	0.13
(1,223)	1:A:26:LEU:HD12	1:C:228:ILE:HD12	16	0.13
(1,223)	1:A:26:LEU:HD12	1:C:228:ILE:HD13	16	0.13
(1,223)	1:A:26:LEU:HD13	1:C:228:ILE:HD11	16	0.13
(1,223)	1:A:26:LEU:HD13	1:C:228:ILE:HD12	16	0.13
(1,223)	1:A:26:LEU:HD13	1:C:228:ILE:HD13	16	0.13
(1,223)	1:A:26:LEU:HD21	1:C:228:ILE:HD11	16	0.13
(1,223)	1:A:26:LEU:HD21	1:C:228:ILE:HD12	16	0.13
(1,223)	1:A:26:LEU:HD21	1:C:228:ILE:HD13	16	0.13
(1,223)	1:A:26:LEU:HD22	1:C:228:ILE:HD11	16	0.13
(1,223)	1:A:26:LEU:HD22	1:C:228:ILE:HD12	16	0.13
(1,223)	1:A:26:LEU:HD22	1:C:228:ILE:HD13	16	0.13
(1,223)	1:A:26:LEU:HD23	1:C:228:ILE:HD11	16	0.13
(1,223)	1:A:26:LEU:HD23	1:C:228:ILE:HD12	16	0.13
(1,223)	1:A:26:LEU:HD23	1:C:228:ILE:HD13	16	0.13
(1,198)	1:A:25:HIS:HE1	1:C:227:LYS:HE2	12	0.13
(1,198)	1:A:25:HIS:HE1	1:C:227:LYS:HE3	12	0.13
(1,171)	1:A:24:LYS:HB2	1:A:25:HIS:HD2	1	0.13
(1,171)	1:A:24:LYS:HB3	1:A:25:HIS:HD2	1	0.13
(1,171)	1:A:24:LYS:HB2	1:A:25:HIS:HD2	16	0.13
(1,171)	1:A:24:LYS:HB3	1:A:25:HIS:HD2	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1603)	2:D:331:GLU:HB2	2:D:332:GLU:H	12	0.13
(1,1596)	2:D:330:ARG:HD2	2:D:331:GLU:H	3	0.13
(1,1596)	2:D:330:ARG:HD3	2:D:331:GLU:H	3	0.13
(1,1586)	2:D:328:ALA:HA	2:D:329:PHE:H	5	0.13
(1,1567)	2:D:324:MET:HA	2:D:325:LYS:H	7	0.13
(1,1566)	2:D:324:MET:H	2:D:325:LYS:HG2	1	0.13
(1,1566)	2:D:324:MET:H	2:D:325:LYS:HG3	1	0.13
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	19	0.13
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	19	0.13
(1,151)	1:A:23:VAL:HG11	1:A:42:LEU:H	13	0.13
(1,151)	1:A:23:VAL:HG12	1:A:42:LEU:H	13	0.13
(1,151)	1:A:23:VAL:HG13	1:A:42:LEU:H	13	0.13
(1,151)	1:A:23:VAL:HG21	1:A:42:LEU:H	13	0.13
(1,151)	1:A:23:VAL:HG22	1:A:42:LEU:H	13	0.13
(1,151)	1:A:23:VAL:HG23	1:A:42:LEU:H	13	0.13
(1,151)	1:A:23:VAL:HG11	1:A:42:LEU:H	16	0.13
(1,151)	1:A:23:VAL:HG12	1:A:42:LEU:H	16	0.13
(1,151)	1:A:23:VAL:HG13	1:A:42:LEU:H	16	0.13
(1,151)	1:A:23:VAL:HG21	1:A:42:LEU:H	16	0.13
(1,151)	1:A:23:VAL:HG22	1:A:42:LEU:H	16	0.13
(1,151)	1:A:23:VAL:HG23	1:A:42:LEU:H	16	0.13
(1,147)	1:A:23:VAL:HG11	2:D:307:TYR:HB2	12	0.13
(1,147)	1:A:23:VAL:HG12	2:D:307:TYR:HB2	12	0.13
(1,147)	1:A:23:VAL:HG13	2:D:307:TYR:HB2	12	0.13
(1,147)	1:A:23:VAL:HG21	2:D:307:TYR:HB2	12	0.13
(1,147)	1:A:23:VAL:HG22	2:D:307:TYR:HB2	12	0.13
(1,147)	1:A:23:VAL:HG23	2:D:307:TYR:HB2	12	0.13
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG12	7	0.13
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG13	7	0.13
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG12	7	0.13
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG13	7	0.13
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG12	7	0.13
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG13	7	0.13
(1,1324)	1:C:255:LEU:H	1:C:255:LEU:HG	15	0.13
(1,1303)	1:C:254:LYS:H	1:C:254:LYS:HE2	9	0.13
(1,1303)	1:C:254:LYS:H	1:C:254:LYS:HE3	9	0.13
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE1	5	0.13
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE2	5	0.13
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE1	5	0.13
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE2	5	0.13
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE1	5	0.13
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE2	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE1	17	0.13
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE2	17	0.13
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE1	17	0.13
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE2	17	0.13
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE1	17	0.13
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE2	17	0.13
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE1	19	0.13
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE2	19	0.13
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE1	19	0.13
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE2	19	0.13
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE1	19	0.13
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE2	19	0.13
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB2	16	0.13
(1,1214)	1:C:242:LEU:HD11	1:C:247:ARG:HB3	16	0.13
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB2	16	0.13
(1,1214)	1:C:242:LEU:HD12	1:C:247:ARG:HB3	16	0.13
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB2	16	0.13
(1,1214)	1:C:242:LEU:HD13	1:C:247:ARG:HB3	16	0.13
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB2	16	0.13
(1,1214)	1:C:242:LEU:HD21	1:C:247:ARG:HB3	16	0.13
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB2	16	0.13
(1,1214)	1:C:242:LEU:HD22	1:C:247:ARG:HB3	16	0.13
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB2	16	0.13
(1,1214)	1:C:242:LEU:HD23	1:C:247:ARG:HB3	16	0.13
(1,115)	1:A:20:ARG:HB2	1:A:57:TRP:HH2	20	0.13
(1,115)	1:A:20:ARG:HB3	1:A:57:TRP:HH2	20	0.13
(1,1133)	1:C:235:ALA:HB1	1:C:254:LYS:HD2	2	0.13
(1,1133)	1:C:235:ALA:HB1	1:C:254:LYS:HD3	2	0.13
(1,1133)	1:C:235:ALA:HB2	1:C:254:LYS:HD2	2	0.13
(1,1133)	1:C:235:ALA:HB2	1:C:254:LYS:HD3	2	0.13
(1,1133)	1:C:235:ALA:HB3	1:C:254:LYS:HD2	2	0.13
(1,1133)	1:C:235:ALA:HB3	1:C:254:LYS:HD3	2	0.13
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD1	3	0.13
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD2	3	0.13
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD1	3	0.13
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD2	3	0.13
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD1	3	0.13
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD2	3	0.13
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD1	15	0.13
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD2	15	0.13
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD1	15	0.13
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD2	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD1	15	0.13
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD2	15	0.13
(1,1117)	1:C:229:LEU:HD21	2:D:312:TYR:HD1	17	0.13
(1,1117)	1:C:229:LEU:HD21	2:D:312:TYR:HD2	17	0.13
(1,1117)	1:C:229:LEU:HD22	2:D:312:TYR:HD1	17	0.13
(1,1117)	1:C:229:LEU:HD22	2:D:312:TYR:HD2	17	0.13
(1,1117)	1:C:229:LEU:HD23	2:D:312:TYR:HD1	17	0.13
(1,1117)	1:C:229:LEU:HD23	2:D:312:TYR:HD2	17	0.13
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE1	2	0.13
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE2	2	0.13
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE1	2	0.13
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE2	2	0.13
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD1	6	0.13
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD2	6	0.13
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD1	8	0.13
(1,11)	1:A:10:PRO:HB2	2:B:112:TYR:HD2	8	0.13
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	5	0.13
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	5	0.13
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	5	0.13
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	5	0.13
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	5	0.13
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	5	0.13
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	5	0.13
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	5	0.13
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	5	0.13
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	5	0.13
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	5	0.13
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	5	0.13
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	17	0.13
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	17	0.13
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	17	0.13
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	17	0.13
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	17	0.13
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	17	0.13
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	17	0.13
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	17	0.13
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	17	0.13
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	17	0.13
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	17	0.13
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	17	0.13
(1,1032)	1:C:224:LYS:HB2	1:C:225:HIS:HE1	5	0.13
(1,1032)	1:C:224:LYS:HB3	1:C:225:HIS:HE1	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1011)	1:C:223:VAL:HG11	1:C:242:LEU:H	4	0.13
(1,1011)	1:C:223:VAL:HG12	1:C:242:LEU:H	4	0.13
(1,1011)	1:C:223:VAL:HG13	1:C:242:LEU:H	4	0.13
(1,1011)	1:C:223:VAL:HG21	1:C:242:LEU:H	4	0.13
(1,1011)	1:C:223:VAL:HG22	1:C:242:LEU:H	4	0.13
(1,1011)	1:C:223:VAL:HG23	1:C:242:LEU:H	4	0.13
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE1	1	0.13
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE2	1	0.13
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	17	0.12
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	20	0.12
(3,7)	1:A:26:LEU:O	1:C:228:ILE:H	17	0.12
(3,6)	1:A:26:LEU:N	1:C:228:ILE:O	7	0.12
(3,6)	1:A:26:LEU:N	1:C:228:ILE:O	19	0.12
(3,5)	1:A:26:LEU:H	1:C:228:ILE:O	17	0.12
(3,4)	1:A:24:LYS:N	1:A:41:ARG:O	14	0.12
(3,4)	1:A:24:LYS:N	1:A:41:ARG:O	19	0.12
(3,37)	1:C:240:ALA:O	1:C:249:VAL:H	5	0.12
(3,32)	1:C:227:LYS:O	1:C:239:VAL:N	9	0.12
(3,3)	1:A:24:LYS:H	1:A:41:ARG:O	2	0.12
(3,29)	1:C:227:LYS:H	1:C:239:VAL:O	15	0.12
(3,27)	1:C:224:LYS:H	1:C:241:ARG:O	6	0.12
(3,22)	1:A:40:ALA:O	1:A:49:VAL:H	3	0.12
(3,22)	1:A:40:ALA:O	1:A:49:VAL:H	10	0.12
(3,22)	1:A:40:ALA:O	1:A:49:VAL:H	15	0.12
(3,13)	1:A:28:ILE:H	1:C:226:LEU:O	17	0.12
(2,7)	1:A:36:CYS:CB	1:C:265:CYS:CB	2	0.12
(2,5)	1:A:11:CYS:CB	1:A:50:CYS:SG	10	0.12
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	5	0.12
(1,972)	1:C:219:ALA:HA	1:C:257:TRP:HE1	9	0.12
(1,971)	1:C:219:ALA:H	1:C:249:VAL:HG21	13	0.12
(1,971)	1:C:219:ALA:H	1:C:249:VAL:HG22	13	0.12
(1,971)	1:C:219:ALA:H	1:C:249:VAL:HG23	13	0.12
(1,971)	1:C:219:ALA:H	1:C:249:VAL:HG21	18	0.12
(1,971)	1:C:219:ALA:H	1:C:249:VAL:HG22	18	0.12
(1,971)	1:C:219:ALA:H	1:C:249:VAL:HG23	18	0.12
(1,949)	1:C:218:VAL:H	2:D:321:TYR:HB3	4	0.12
(1,934)	1:C:215:GLU:HB3	1:C:251:ILE:HG21	2	0.12
(1,934)	1:C:215:GLU:HB3	1:C:251:ILE:HG22	2	0.12
(1,934)	1:C:215:GLU:HB3	1:C:251:ILE:HG23	2	0.12
(1,929)	1:C:215:GLU:H	1:C:218:VAL:HG11	18	0.12
(1,929)	1:C:215:GLU:H	1:C:218:VAL:HG12	18	0.12
(1,929)	1:C:215:GLU:H	1:C:218:VAL:HG13	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,929)	1:C:215:GLU:H	1:C:218:VAL:HG21	18	0.12
(1,929)	1:C:215:GLU:H	1:C:218:VAL:HG22	18	0.12
(1,929)	1:C:215:GLU:H	1:C:218:VAL:HG23	18	0.12
(1,894)	1:C:210:PRO:HG2	2:D:312:TYR:HE1	12	0.12
(1,894)	1:C:210:PRO:HG2	2:D:312:TYR:HE2	12	0.12
(1,894)	1:C:210:PRO:HG3	2:D:312:TYR:HE1	12	0.12
(1,894)	1:C:210:PRO:HG3	2:D:312:TYR:HE2	12	0.12
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD1	10	0.12
(1,881)	1:C:210:PRO:HB2	2:D:312:TYR:HD2	10	0.12
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE1	3	0.12
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE2	3	0.12
(1,871)	1:C:206:SER:HB2	1:C:207:TYR:HD1	10	0.12
(1,871)	1:C:206:SER:HB2	1:C:207:TYR:HD2	10	0.12
(1,871)	1:C:206:SER:HB3	1:C:207:TYR:HD1	10	0.12
(1,871)	1:C:206:SER:HB3	1:C:207:TYR:HD2	10	0.12
(1,853)	2:B:131:GLU:HB2	2:B:132:GLU:H	15	0.12
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	8	0.12
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	8	0.12
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	14	0.12
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	14	0.12
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	20	0.12
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	20	0.12
(1,800)	2:B:116:MET:H	2:B:116:MET:HG2	11	0.12
(1,800)	2:B:116:MET:H	2:B:116:MET:HG3	11	0.12
(1,785)	2:B:112:TYR:HB3	2:B:114:GLU:H	15	0.12
(1,767)	2:B:106:ILE:HG12	2:B:107:TYR:H	14	0.12
(1,767)	2:B:106:ILE:HG13	2:B:107:TYR:H	14	0.12
(1,76)	1:A:17:HIS:HD2	1:A:55:LEU:HD21	8	0.12
(1,76)	1:A:17:HIS:HD2	1:A:55:LEU:HD22	8	0.12
(1,76)	1:A:17:HIS:HD2	1:A:55:LEU:HD23	8	0.12
(1,754)	2:B:104:ILE:HD11	2:B:105:SER:H	18	0.12
(1,754)	2:B:104:ILE:HD12	2:B:105:SER:H	18	0.12
(1,754)	2:B:104:ILE:HD13	2:B:105:SER:H	18	0.12
(1,747)	2:B:102:GLU:H	2:B:102:GLU:HG2	18	0.12
(1,747)	2:B:102:GLU:H	2:B:102:GLU:HG3	18	0.12
(1,695)	1:A:65:CYS:H	1:A:68:LYS:HG2	7	0.12
(1,695)	1:A:65:CYS:H	1:A:68:LYS:HG3	7	0.12
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG21	16	0.12
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG22	16	0.12
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG23	16	0.12
(1,57)	1:A:14:PHE:HD1	1:A:53:PRO:HD2	3	0.12
(1,57)	1:A:14:PHE:HD1	1:A:53:PRO:HD3	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,57)	1:A:14:PHE:HD2	1:A:53:PRO:HD2	3	0.12
(1,57)	1:A:14:PHE:HD2	1:A:53:PRO:HD3	3	0.12
(1,57)	1:A:14:PHE:HD1	1:A:53:PRO:HD2	16	0.12
(1,57)	1:A:14:PHE:HD1	1:A:53:PRO:HD3	16	0.12
(1,57)	1:A:14:PHE:HD2	1:A:53:PRO:HD2	16	0.12
(1,57)	1:A:14:PHE:HD2	1:A:53:PRO:HD3	16	0.12
(1,546)	1:A:55:LEU:HD21	1:A:57:TRP:HD1	16	0.12
(1,546)	1:A:55:LEU:HD22	1:A:57:TRP:HD1	16	0.12
(1,546)	1:A:55:LEU:HD23	1:A:57:TRP:HD1	16	0.12
(1,496)	1:A:54:LYS:H	1:A:54:LYS:HE2	16	0.12
(1,496)	1:A:54:LYS:H	1:A:54:LYS:HE3	16	0.12
(1,486)	1:A:53:PRO:HA	1:A:58:ILE:HD11	16	0.12
(1,486)	1:A:53:PRO:HA	1:A:58:ILE:HD12	16	0.12
(1,486)	1:A:53:PRO:HA	1:A:58:ILE:HD13	16	0.12
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE1	6	0.12
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE2	6	0.12
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE1	6	0.12
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE2	6	0.12
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE1	6	0.12
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE2	6	0.12
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE1	10	0.12
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE2	10	0.12
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE1	10	0.12
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE2	10	0.12
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE1	10	0.12
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE2	10	0.12
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE1	11	0.12
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE2	11	0.12
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE1	11	0.12
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE2	11	0.12
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE1	11	0.12
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE2	11	0.12
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE1	13	0.12
(1,446)	1:A:49:VAL:HG21	2:B:121:TYR:HE2	13	0.12
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE1	13	0.12
(1,446)	1:A:49:VAL:HG22	2:B:121:TYR:HE2	13	0.12
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE1	13	0.12
(1,446)	1:A:49:VAL:HG23	2:B:121:TYR:HE2	13	0.12
(1,407)	1:A:42:LEU:HD11	1:A:47:ARG:HB2	13	0.12
(1,407)	1:A:42:LEU:HD11	1:A:47:ARG:HB3	13	0.12
(1,407)	1:A:42:LEU:HD12	1:A:47:ARG:HB2	13	0.12
(1,407)	1:A:42:LEU:HD12	1:A:47:ARG:HB3	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,407)	1:A:42:LEU:HD13	1:A:47:ARG:HB2	13	0.12
(1,407)	1:A:42:LEU:HD13	1:A:47:ARG:HB3	13	0.12
(1,407)	1:A:42:LEU:HD21	1:A:47:ARG:HB2	13	0.12
(1,407)	1:A:42:LEU:HD21	1:A:47:ARG:HB3	13	0.12
(1,407)	1:A:42:LEU:HD22	1:A:47:ARG:HB2	13	0.12
(1,407)	1:A:42:LEU:HD22	1:A:47:ARG:HB3	13	0.12
(1,407)	1:A:42:LEU:HD23	1:A:47:ARG:HB2	13	0.12
(1,407)	1:A:42:LEU:HD23	1:A:47:ARG:HB3	13	0.12
(1,404)	1:A:42:LEU:HD11	1:A:46:ASN:HB2	12	0.12
(1,404)	1:A:42:LEU:HD11	1:A:46:ASN:HB3	12	0.12
(1,404)	1:A:42:LEU:HD12	1:A:46:ASN:HB2	12	0.12
(1,404)	1:A:42:LEU:HD12	1:A:46:ASN:HB3	12	0.12
(1,404)	1:A:42:LEU:HD13	1:A:46:ASN:HB2	12	0.12
(1,404)	1:A:42:LEU:HD13	1:A:46:ASN:HB3	12	0.12
(1,404)	1:A:42:LEU:HD21	1:A:46:ASN:HB2	12	0.12
(1,404)	1:A:42:LEU:HD21	1:A:46:ASN:HB3	12	0.12
(1,404)	1:A:42:LEU:HD22	1:A:46:ASN:HB2	12	0.12
(1,404)	1:A:42:LEU:HD22	1:A:46:ASN:HB3	12	0.12
(1,404)	1:A:42:LEU:HD23	1:A:46:ASN:HB2	12	0.12
(1,404)	1:A:42:LEU:HD23	1:A:46:ASN:HB3	12	0.12
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	14	0.12
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	14	0.12
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	14	0.12
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	14	0.12
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	14	0.12
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	14	0.12
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD1	4	0.12
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD2	4	0.12
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD1	4	0.12
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD2	4	0.12
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD1	4	0.12
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD2	4	0.12
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD1	11	0.12
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD2	11	0.12
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD1	11	0.12
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD2	11	0.12
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD1	11	0.12
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD2	11	0.12
(1,303)	1:A:29:LEU:HB2	2:B:112:TYR:HD1	19	0.12
(1,303)	1:A:29:LEU:HB2	2:B:112:TYR:HD2	19	0.12
(1,303)	1:A:29:LEU:HB3	2:B:112:TYR:HD1	19	0.12
(1,303)	1:A:29:LEU:HB3	2:B:112:TYR:HD2	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD11	4	0.12
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD12	4	0.12
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD13	4	0.12
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD21	4	0.12
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD22	4	0.12
(1,262)	1:A:27:LYS:HE2	1:A:29:LEU:HD23	4	0.12
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD11	4	0.12
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD12	4	0.12
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD13	4	0.12
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD21	4	0.12
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD22	4	0.12
(1,262)	1:A:27:LYS:HE3	1:A:29:LEU:HD23	4	0.12
(1,255)	1:A:27:LYS:HB2	1:C:225:HIS:HD2	13	0.12
(1,255)	1:A:27:LYS:HB3	1:C:225:HIS:HD2	13	0.12
(1,255)	1:A:27:LYS:HB2	1:C:225:HIS:HD2	14	0.12
(1,255)	1:A:27:LYS:HB3	1:C:225:HIS:HD2	14	0.12
(1,255)	1:A:27:LYS:HB2	1:C:225:HIS:HD2	20	0.12
(1,255)	1:A:27:LYS:HB3	1:C:225:HIS:HD2	20	0.12
(1,253)	1:A:27:LYS:HG3	2:B:112:TYR:HE1	5	0.12
(1,253)	1:A:27:LYS:HG3	2:B:112:TYR:HE2	5	0.12
(1,253)	1:A:27:LYS:HG3	2:B:112:TYR:HE1	13	0.12
(1,253)	1:A:27:LYS:HG3	2:B:112:TYR:HE2	13	0.12
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE1	4	0.12
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE2	4	0.12
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE1	4	0.12
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE2	4	0.12
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE1	20	0.12
(1,24)	1:A:10:PRO:HG2	2:B:112:TYR:HE2	20	0.12
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE1	20	0.12
(1,24)	1:A:10:PRO:HG3	2:B:112:TYR:HE2	20	0.12
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	18	0.12
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	18	0.12
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	18	0.12
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	18	0.12
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	18	0.12
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	18	0.12
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	18	0.12
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	18	0.12
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	18	0.12
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	18	0.12
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	18	0.12
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:A:26:LEU:HD21	1:C:228:ILE:H	6	0.12
(1,219)	1:A:26:LEU:HD22	1:C:228:ILE:H	6	0.12
(1,219)	1:A:26:LEU:HD23	1:C:228:ILE:H	6	0.12
(1,219)	1:A:26:LEU:HD21	1:C:228:ILE:H	7	0.12
(1,219)	1:A:26:LEU:HD22	1:C:228:ILE:H	7	0.12
(1,219)	1:A:26:LEU:HD23	1:C:228:ILE:H	7	0.12
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB2	3	0.12
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB3	3	0.12
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB2	10	0.12
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB3	10	0.12
(1,180)	1:A:24:LYS:HG2	1:A:43:LYS:H	10	0.12
(1,180)	1:A:24:LYS:HG3	1:A:43:LYS:H	10	0.12
(1,175)	1:A:24:LYS:HE2	1:A:41:ARG:H	15	0.12
(1,175)	1:A:24:LYS:HE3	1:A:41:ARG:H	15	0.12
(1,171)	1:A:24:LYS:HB2	1:A:25:HIS:HD2	6	0.12
(1,171)	1:A:24:LYS:HB3	1:A:25:HIS:HD2	6	0.12
(1,1617)	2:D:338:LYS:HB3	2:D:338:LYS:HD2	20	0.12
(1,1617)	2:D:338:LYS:HB3	2:D:338:LYS:HD3	20	0.12
(1,1615)	2:D:338:LYS:HB2	2:D:338:LYS:HD2	9	0.12
(1,1615)	2:D:338:LYS:HB2	2:D:338:LYS:HD3	9	0.12
(1,1584)	2:D:327:PRO:HG2	2:D:328:ALA:H	15	0.12
(1,1584)	2:D:327:PRO:HG3	2:D:328:ALA:H	15	0.12
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	8	0.12
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	8	0.12
(1,1542)	2:D:313:THR:H	2:D:313:THR:HG21	3	0.12
(1,1542)	2:D:313:THR:H	2:D:313:THR:HG22	3	0.12
(1,1542)	2:D:313:THR:H	2:D:313:THR:HG23	3	0.12
(1,1542)	2:D:313:THR:H	2:D:313:THR:HG21	19	0.12
(1,1542)	2:D:313:THR:H	2:D:313:THR:HG22	19	0.12
(1,1542)	2:D:313:THR:H	2:D:313:THR:HG23	19	0.12
(1,1539)	2:D:312:TYR:HB3	2:D:314:GLU:H	20	0.12
(1,1523)	2:D:306:ILE:HD11	2:D:307:TYR:HE1	6	0.12
(1,1523)	2:D:306:ILE:HD11	2:D:307:TYR:HE2	6	0.12
(1,1523)	2:D:306:ILE:HD12	2:D:307:TYR:HE1	6	0.12
(1,1523)	2:D:306:ILE:HD12	2:D:307:TYR:HE2	6	0.12
(1,1523)	2:D:306:ILE:HD13	2:D:307:TYR:HE1	6	0.12
(1,1523)	2:D:306:ILE:HD13	2:D:307:TYR:HE2	6	0.12
(1,1523)	2:D:306:ILE:HD11	2:D:307:TYR:HE1	13	0.12
(1,1523)	2:D:306:ILE:HD11	2:D:307:TYR:HE2	13	0.12
(1,1523)	2:D:306:ILE:HD12	2:D:307:TYR:HE1	13	0.12
(1,1523)	2:D:306:ILE:HD12	2:D:307:TYR:HE2	13	0.12
(1,1523)	2:D:306:ILE:HD13	2:D:307:TYR:HE1	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1523)	2:D:306:ILE:HD13	2:D:307:TYR:HE2	13	0.12
(1,1523)	2:D:306:ILE:HD11	2:D:307:TYR:HE1	16	0.12
(1,1523)	2:D:306:ILE:HD11	2:D:307:TYR:HE2	16	0.12
(1,1523)	2:D:306:ILE:HD12	2:D:307:TYR:HE1	16	0.12
(1,1523)	2:D:306:ILE:HD12	2:D:307:TYR:HE2	16	0.12
(1,1523)	2:D:306:ILE:HD13	2:D:307:TYR:HE1	16	0.12
(1,1523)	2:D:306:ILE:HD13	2:D:307:TYR:HE2	16	0.12
(1,1467)	1:C:264:LYS:HB3	1:C:264:LYS:HE2	2	0.12
(1,1467)	1:C:264:LYS:HB3	1:C:264:LYS:HE3	2	0.12
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	3	0.12
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	3	0.12
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	3	0.12
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	12	0.12
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	12	0.12
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	12	0.12
(1,1416)	1:C:259:GLN:HE21	1:C:262:LEU:HD11	16	0.12
(1,1416)	1:C:259:GLN:HE21	1:C:262:LEU:HD12	16	0.12
(1,1416)	1:C:259:GLN:HE21	1:C:262:LEU:HD13	16	0.12
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG12	12	0.12
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG13	12	0.12
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG12	12	0.12
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG13	12	0.12
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG12	12	0.12
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG13	12	0.12
(1,1303)	1:C:254:LYS:H	1:C:254:LYS:HE2	6	0.12
(1,1303)	1:C:254:LYS:H	1:C:254:LYS:HE3	6	0.12
(1,1303)	1:C:254:LYS:H	1:C:254:LYS:HE2	16	0.12
(1,1303)	1:C:254:LYS:H	1:C:254:LYS:HE3	16	0.12
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE1	6	0.12
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE2	6	0.12
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE1	6	0.12
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE2	6	0.12
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE1	6	0.12
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE2	6	0.12
(1,120)	1:A:20:ARG:HG2	1:A:61:TYR:HE1	15	0.12
(1,120)	1:A:20:ARG:HG2	1:A:61:TYR:HE2	15	0.12
(1,120)	1:A:20:ARG:HG3	1:A:61:TYR:HE1	15	0.12
(1,120)	1:A:20:ARG:HG3	1:A:61:TYR:HE2	15	0.12
(1,115)	1:A:20:ARG:HB2	1:A:57:TRP:HH2	5	0.12
(1,115)	1:A:20:ARG:HB3	1:A:57:TRP:HH2	5	0.12
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG12	19	0.12
(1,1068)	1:C:226:LEU:HD11	1:C:258:ILE:HG13	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG12	19	0.12
(1,1068)	1:C:226:LEU:HD12	1:C:258:ILE:HG13	19	0.12
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG12	19	0.12
(1,1068)	1:C:226:LEU:HD13	1:C:258:ILE:HG13	19	0.12
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG12	19	0.12
(1,1068)	1:C:226:LEU:HD21	1:C:258:ILE:HG13	19	0.12
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG12	19	0.12
(1,1068)	1:C:226:LEU:HD22	1:C:258:ILE:HG13	19	0.12
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG12	19	0.12
(1,1068)	1:C:226:LEU:HD23	1:C:258:ILE:HG13	19	0.12
(1,1032)	1:C:224:LYS:HB2	1:C:225:HIS:HE1	3	0.12
(1,1032)	1:C:224:LYS:HB3	1:C:225:HIS:HE1	3	0.12
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE1	2	0.12
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE2	2	0.12
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE1	10	0.12
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE2	10	0.12
(3,9)	1:A:27:LYS:H	1:A:39:VAL:O	4	0.11
(3,5)	1:A:26:LEU:H	1:C:228:ILE:O	20	0.11
(3,37)	1:C:240:ALA:O	1:C:249:VAL:H	11	0.11
(3,22)	1:A:40:ALA:O	1:A:49:VAL:H	13	0.11
(3,19)	1:A:38:ILE:O	1:A:51:ILE:N	12	0.11
(3,11)	1:A:27:LYS:O	1:A:39:VAL:H	10	0.11
(2,6)	1:A:11:CYS:SG	1:A:50:CYS:CB	9	0.11
(2,5)	1:A:11:CYS:CB	1:A:50:CYS:SG	12	0.11
(2,5)	1:A:11:CYS:CB	1:A:50:CYS:SG	14	0.11
(2,4)	1:A:11:CYS:CB	1:A:50:CYS:CB	2	0.11
(2,18)	1:C:211:CYS:SG	1:C:250:CYS:CB	4	0.11
(2,18)	1:C:211:CYS:SG	1:C:250:CYS:CB	15	0.11
(2,18)	1:C:211:CYS:SG	1:C:250:CYS:CB	17	0.11
(2,17)	1:C:211:CYS:CB	1:C:250:CYS:SG	9	0.11
(2,17)	1:C:211:CYS:CB	1:C:250:CYS:SG	15	0.11
(2,13)	1:C:209:CYS:CB	1:C:234:CYS:CB	10	0.11
(2,10)	1:A:65:CYS:CB	1:C:236:CYS:CB	5	0.11
(1,983)	1:C:220:ARG:HB2	1:C:257:TRP:HH2	14	0.11
(1,983)	1:C:220:ARG:HB3	1:C:257:TRP:HH2	14	0.11
(1,952)	1:C:218:VAL:HB	1:C:251:ILE:HG21	3	0.11
(1,952)	1:C:218:VAL:HB	1:C:251:ILE:HG22	3	0.11
(1,952)	1:C:218:VAL:HB	1:C:251:ILE:HG23	3	0.11
(1,939)	1:C:216:SER:HB2	1:C:217:HIS:HD2	15	0.11
(1,939)	1:C:216:SER:HB3	1:C:217:HIS:HD2	15	0.11
(1,939)	1:C:216:SER:HB2	1:C:217:HIS:HD2	20	0.11
(1,939)	1:C:216:SER:HB3	1:C:217:HIS:HD2	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,934)	1:C:215:GLU:HB3	1:C:251:ILE:HG21	11	0.11
(1,934)	1:C:215:GLU:HB3	1:C:251:ILE:HG22	11	0.11
(1,934)	1:C:215:GLU:HB3	1:C:251:ILE:HG23	11	0.11
(1,901)	1:C:212:ARG:HG2	1:C:213:PHE:HD1	14	0.11
(1,901)	1:C:212:ARG:HG2	1:C:213:PHE:HD2	14	0.11
(1,901)	1:C:212:ARG:HG3	1:C:213:PHE:HD1	14	0.11
(1,901)	1:C:212:ARG:HG3	1:C:213:PHE:HD2	14	0.11
(1,880)	1:C:210:PRO:HB2	1:C:231:THR:HG21	20	0.11
(1,880)	1:C:210:PRO:HB2	1:C:231:THR:HG22	20	0.11
(1,880)	1:C:210:PRO:HB2	1:C:231:THR:HG23	20	0.11
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE1	6	0.11
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE2	6	0.11
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE1	17	0.11
(1,878)	1:C:210:PRO:HA	2:D:312:TYR:HE2	17	0.11
(1,873)	1:C:208:ARG:HA	1:C:208:ARG:HD2	16	0.11
(1,873)	1:C:208:ARG:HA	1:C:208:ARG:HD3	16	0.11
(1,871)	1:C:206:SER:HB2	1:C:207:TYR:HD1	3	0.11
(1,871)	1:C:206:SER:HB2	1:C:207:TYR:HD2	3	0.11
(1,871)	1:C:206:SER:HB3	1:C:207:TYR:HD1	3	0.11
(1,871)	1:C:206:SER:HB3	1:C:207:TYR:HD2	3	0.11
(1,867)	2:B:138:LYS:HB3	2:B:138:LYS:HD2	11	0.11
(1,867)	2:B:138:LYS:HB3	2:B:138:LYS:HD3	11	0.11
(1,853)	2:B:131:GLU:HB2	2:B:132:GLU:H	12	0.11
(1,832)	2:B:127:PRO:HG2	2:B:128:ALA:H	11	0.11
(1,832)	2:B:127:PRO:HG3	2:B:128:ALA:H	11	0.11
(1,817)	2:B:125:LYS:HA	2:B:125:LYS:HE2	16	0.11
(1,817)	2:B:125:LYS:HA	2:B:125:LYS:HE3	16	0.11
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	7	0.11
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	7	0.11
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	12	0.11
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	12	0.11
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD1	13	0.11
(1,805)	2:B:121:TYR:H	2:B:121:TYR:HD2	13	0.11
(1,785)	2:B:112:TYR:HB3	2:B:114:GLU:H	19	0.11
(1,767)	2:B:106:ILE:HG12	2:B:107:TYR:H	10	0.11
(1,767)	2:B:106:ILE:HG13	2:B:107:TYR:H	10	0.11
(1,754)	2:B:104:ILE:HD11	2:B:105:SER:H	15	0.11
(1,754)	2:B:104:ILE:HD12	2:B:105:SER:H	15	0.11
(1,754)	2:B:104:ILE:HD13	2:B:105:SER:H	15	0.11
(1,750)	2:B:104:ILE:H	2:B:104:ILE:HB	7	0.11
(1,741)	1:A:68:LYS:HA	1:A:68:LYS:HE2	1	0.11
(1,741)	1:A:68:LYS:HA	1:A:68:LYS:HE3	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG21	2	0.11
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG22	2	0.11
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG23	2	0.11
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG21	9	0.11
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG22	9	0.11
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG23	9	0.11
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG21	17	0.11
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG22	17	0.11
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG23	17	0.11
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG21	18	0.11
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG22	18	0.11
(1,66)	1:A:15:GLU:HB3	1:A:51:ILE:HG23	18	0.11
(1,638)	1:A:61:TYR:HE1	1:C:228:ILE:HG12	7	0.11
(1,638)	1:A:61:TYR:HE1	1:C:228:ILE:HG13	7	0.11
(1,638)	1:A:61:TYR:HE2	1:C:228:ILE:HG12	7	0.11
(1,638)	1:A:61:TYR:HE2	1:C:228:ILE:HG13	7	0.11
(1,58)	1:A:14:PHE:HE1	1:A:16:SER:HA	8	0.11
(1,58)	1:A:14:PHE:HE2	1:A:16:SER:HA	8	0.11
(1,54)	1:A:14:PHE:HD1	1:A:51:ILE:HA	19	0.11
(1,54)	1:A:14:PHE:HD2	1:A:51:ILE:HA	19	0.11
(1,508)	1:A:54:LYS:HB3	1:A:54:LYS:HD2	13	0.11
(1,508)	1:A:54:LYS:HB3	1:A:54:LYS:HD3	13	0.11
(1,496)	1:A:54:LYS:H	1:A:54:LYS:HE2	5	0.11
(1,496)	1:A:54:LYS:H	1:A:54:LYS:HE3	5	0.11
(1,407)	1:A:42:LEU:HD11	1:A:47:ARG:HB2	20	0.11
(1,407)	1:A:42:LEU:HD11	1:A:47:ARG:HB3	20	0.11
(1,407)	1:A:42:LEU:HD12	1:A:47:ARG:HB2	20	0.11
(1,407)	1:A:42:LEU:HD12	1:A:47:ARG:HB3	20	0.11
(1,407)	1:A:42:LEU:HD13	1:A:47:ARG:HB2	20	0.11
(1,407)	1:A:42:LEU:HD13	1:A:47:ARG:HB3	20	0.11
(1,407)	1:A:42:LEU:HD21	1:A:47:ARG:HB2	20	0.11
(1,407)	1:A:42:LEU:HD21	1:A:47:ARG:HB3	20	0.11
(1,407)	1:A:42:LEU:HD22	1:A:47:ARG:HB2	20	0.11
(1,407)	1:A:42:LEU:HD22	1:A:47:ARG:HB3	20	0.11
(1,407)	1:A:42:LEU:HD23	1:A:47:ARG:HB2	20	0.11
(1,407)	1:A:42:LEU:HD23	1:A:47:ARG:HB3	20	0.11
(1,373)	1:A:40:ALA:HB1	1:A:57:TRP:HZ2	4	0.11
(1,373)	1:A:40:ALA:HB2	1:A:57:TRP:HZ2	4	0.11
(1,373)	1:A:40:ALA:HB3	1:A:57:TRP:HZ2	4	0.11
(1,373)	1:A:40:ALA:HB1	1:A:57:TRP:HZ2	10	0.11
(1,373)	1:A:40:ALA:HB2	1:A:57:TRP:HZ2	10	0.11
(1,373)	1:A:40:ALA:HB3	1:A:57:TRP:HZ2	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,373)	1:A:40:ALA:HB1	1:A:57:TRP:HZ2	20	0.11
(1,373)	1:A:40:ALA:HB2	1:A:57:TRP:HZ2	20	0.11
(1,373)	1:A:40:ALA:HB3	1:A:57:TRP:HZ2	20	0.11
(1,33)	1:A:12:ARG:HG2	1:A:13:PHE:HD1	8	0.11
(1,33)	1:A:12:ARG:HG2	1:A:13:PHE:HD2	8	0.11
(1,33)	1:A:12:ARG:HG3	1:A:13:PHE:HD1	8	0.11
(1,33)	1:A:12:ARG:HG3	1:A:13:PHE:HD2	8	0.11
(1,33)	1:A:12:ARG:HG2	1:A:13:PHE:HD1	12	0.11
(1,33)	1:A:12:ARG:HG2	1:A:13:PHE:HD2	12	0.11
(1,33)	1:A:12:ARG:HG3	1:A:13:PHE:HD1	12	0.11
(1,33)	1:A:12:ARG:HG3	1:A:13:PHE:HD2	12	0.11
(1,326)	1:A:35:ALA:HB1	1:A:54:LYS:HD2	1	0.11
(1,326)	1:A:35:ALA:HB1	1:A:54:LYS:HD3	1	0.11
(1,326)	1:A:35:ALA:HB2	1:A:54:LYS:HD2	1	0.11
(1,326)	1:A:35:ALA:HB2	1:A:54:LYS:HD3	1	0.11
(1,326)	1:A:35:ALA:HB3	1:A:54:LYS:HD2	1	0.11
(1,326)	1:A:35:ALA:HB3	1:A:54:LYS:HD3	1	0.11
(1,326)	1:A:35:ALA:HB1	1:A:54:LYS:HD2	2	0.11
(1,326)	1:A:35:ALA:HB1	1:A:54:LYS:HD3	2	0.11
(1,326)	1:A:35:ALA:HB2	1:A:54:LYS:HD2	2	0.11
(1,326)	1:A:35:ALA:HB2	1:A:54:LYS:HD3	2	0.11
(1,326)	1:A:35:ALA:HB3	1:A:54:LYS:HD2	2	0.11
(1,326)	1:A:35:ALA:HB3	1:A:54:LYS:HD3	2	0.11
(1,326)	1:A:35:ALA:HB1	1:A:54:LYS:HD2	5	0.11
(1,326)	1:A:35:ALA:HB1	1:A:54:LYS:HD3	5	0.11
(1,326)	1:A:35:ALA:HB2	1:A:54:LYS:HD2	5	0.11
(1,326)	1:A:35:ALA:HB2	1:A:54:LYS:HD3	5	0.11
(1,326)	1:A:35:ALA:HB3	1:A:54:LYS:HD2	5	0.11
(1,326)	1:A:35:ALA:HB3	1:A:54:LYS:HD3	5	0.11
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD1	13	0.11
(1,319)	1:A:31:THR:HG21	2:B:112:TYR:HD2	13	0.11
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD1	13	0.11
(1,319)	1:A:31:THR:HG22	2:B:112:TYR:HD2	13	0.11
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD1	13	0.11
(1,319)	1:A:31:THR:HG23	2:B:112:TYR:HD2	13	0.11
(1,313)	1:A:29:LEU:HD11	1:C:225:HIS:HD2	1	0.11
(1,313)	1:A:29:LEU:HD12	1:C:225:HIS:HD2	1	0.11
(1,313)	1:A:29:LEU:HD13	1:C:225:HIS:HD2	1	0.11
(1,313)	1:A:29:LEU:HD21	1:C:225:HIS:HD2	1	0.11
(1,313)	1:A:29:LEU:HD22	1:C:225:HIS:HD2	1	0.11
(1,313)	1:A:29:LEU:HD23	1:C:225:HIS:HD2	1	0.11
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD1	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,307)	1:A:29:LEU:HD21	2:B:112:TYR:HD2	3	0.11
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD1	3	0.11
(1,307)	1:A:29:LEU:HD22	2:B:112:TYR:HD2	3	0.11
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD1	3	0.11
(1,307)	1:A:29:LEU:HD23	2:B:112:TYR:HD2	3	0.11
(1,303)	1:A:29:LEU:HB2	2:B:112:TYR:HD1	14	0.11
(1,303)	1:A:29:LEU:HB2	2:B:112:TYR:HD2	14	0.11
(1,303)	1:A:29:LEU:HB3	2:B:112:TYR:HD1	14	0.11
(1,303)	1:A:29:LEU:HB3	2:B:112:TYR:HD2	14	0.11
(1,303)	1:A:29:LEU:HB2	2:B:112:TYR:HD1	18	0.11
(1,303)	1:A:29:LEU:HB2	2:B:112:TYR:HD2	18	0.11
(1,303)	1:A:29:LEU:HB3	2:B:112:TYR:HD1	18	0.11
(1,303)	1:A:29:LEU:HB3	2:B:112:TYR:HD2	18	0.11
(1,3)	1:A:6:SER:HB2	1:A:7:TYR:HD1	11	0.11
(1,3)	1:A:6:SER:HB2	1:A:7:TYR:HD2	11	0.11
(1,3)	1:A:6:SER:HB3	1:A:7:TYR:HD1	11	0.11
(1,3)	1:A:6:SER:HB3	1:A:7:TYR:HD2	11	0.11
(1,261)	1:A:27:LYS:HE2	1:C:225:HIS:HE1	2	0.11
(1,261)	1:A:27:LYS:HE3	1:C:225:HIS:HE1	2	0.11
(1,255)	1:A:27:LYS:HB2	1:C:225:HIS:HD2	10	0.11
(1,255)	1:A:27:LYS:HB3	1:C:225:HIS:HD2	10	0.11
(1,255)	1:A:27:LYS:HB2	1:C:225:HIS:HD2	12	0.11
(1,255)	1:A:27:LYS:HB3	1:C:225:HIS:HD2	12	0.11
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG12	11	0.11
(1,232)	1:A:26:LEU:HD11	1:A:58:ILE:HG13	11	0.11
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG12	11	0.11
(1,232)	1:A:26:LEU:HD12	1:A:58:ILE:HG13	11	0.11
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG12	11	0.11
(1,232)	1:A:26:LEU:HD13	1:A:58:ILE:HG13	11	0.11
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG12	11	0.11
(1,232)	1:A:26:LEU:HD21	1:A:58:ILE:HG13	11	0.11
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG12	11	0.11
(1,232)	1:A:26:LEU:HD22	1:A:58:ILE:HG13	11	0.11
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG12	11	0.11
(1,232)	1:A:26:LEU:HD23	1:A:58:ILE:HG13	11	0.11
(1,219)	1:A:26:LEU:HD21	1:C:228:ILE:H	8	0.11
(1,219)	1:A:26:LEU:HD22	1:C:228:ILE:H	8	0.11
(1,219)	1:A:26:LEU:HD23	1:C:228:ILE:H	8	0.11
(1,219)	1:A:26:LEU:HD21	1:C:228:ILE:H	20	0.11
(1,219)	1:A:26:LEU:HD22	1:C:228:ILE:H	20	0.11
(1,219)	1:A:26:LEU:HD23	1:C:228:ILE:H	20	0.11
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB2	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB3	12	0.11
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB2	13	0.11
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB3	13	0.11
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB2	18	0.11
(1,194)	1:A:25:HIS:HD2	1:C:227:LYS:HB3	18	0.11
(1,175)	1:A:24:LYS:HE2	1:A:41:ARG:H	14	0.11
(1,175)	1:A:24:LYS:HE3	1:A:41:ARG:H	14	0.11
(1,1592)	2:D:330:ARG:H	2:D:330:ARG:HG2	14	0.11
(1,1592)	2:D:330:ARG:H	2:D:330:ARG:HG3	14	0.11
(1,1586)	2:D:328:ALA:HA	2:D:329:PHE:H	19	0.11
(1,1584)	2:D:327:PRO:HG2	2:D:328:ALA:H	10	0.11
(1,1584)	2:D:327:PRO:HG3	2:D:328:ALA:H	10	0.11
(1,1584)	2:D:327:PRO:HG2	2:D:328:ALA:H	20	0.11
(1,1584)	2:D:327:PRO:HG3	2:D:328:ALA:H	20	0.11
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD1	6	0.11
(1,1559)	2:D:321:TYR:H	2:D:321:TYR:HD2	6	0.11
(1,1523)	2:D:306:ILE:HD11	2:D:307:TYR:HE1	15	0.11
(1,1523)	2:D:306:ILE:HD11	2:D:307:TYR:HE2	15	0.11
(1,1523)	2:D:306:ILE:HD12	2:D:307:TYR:HE1	15	0.11
(1,1523)	2:D:306:ILE:HD12	2:D:307:TYR:HE2	15	0.11
(1,1523)	2:D:306:ILE:HD13	2:D:307:TYR:HE1	15	0.11
(1,1523)	2:D:306:ILE:HD13	2:D:307:TYR:HE2	15	0.11
(1,1514)	2:D:306:ILE:H	2:D:306:ILE:HB	18	0.11
(1,1511)	2:D:304:ILE:HD11	2:D:305:SER:H	19	0.11
(1,1511)	2:D:304:ILE:HD12	2:D:305:SER:H	19	0.11
(1,1511)	2:D:304:ILE:HD13	2:D:305:SER:H	19	0.11
(1,1476)	1:C:265:CYS:H	1:C:268:LYS:HD2	14	0.11
(1,1476)	1:C:265:CYS:H	1:C:268:LYS:HD3	14	0.11
(1,147)	1:A:23:VAL:HG11	2:D:307:TYR:HB2	14	0.11
(1,147)	1:A:23:VAL:HG12	2:D:307:TYR:HB2	14	0.11
(1,147)	1:A:23:VAL:HG13	2:D:307:TYR:HB2	14	0.11
(1,147)	1:A:23:VAL:HG21	2:D:307:TYR:HB2	14	0.11
(1,147)	1:A:23:VAL:HG22	2:D:307:TYR:HB2	14	0.11
(1,147)	1:A:23:VAL:HG23	2:D:307:TYR:HB2	14	0.11
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	1	0.11
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	1	0.11
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	1	0.11
(1,144)	1:A:23:VAL:HG21	2:D:307:TYR:HB3	9	0.11
(1,144)	1:A:23:VAL:HG22	2:D:307:TYR:HB3	9	0.11
(1,144)	1:A:23:VAL:HG23	2:D:307:TYR:HB3	9	0.11
(1,1416)	1:C:259:GLN:HE21	1:C:262:LEU:HD11	12	0.11
(1,1416)	1:C:259:GLN:HE21	1:C:262:LEU:HD12	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1416)	1:C:259:GLN:HE21	1:C:262:LEU:HD13	12	0.11
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG12	2	0.11
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG13	2	0.11
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG12	2	0.11
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG13	2	0.11
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG12	2	0.11
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG13	2	0.11
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG12	13	0.11
(1,1357)	1:C:255:LEU:HD21	1:C:258:ILE:HG13	13	0.11
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG12	13	0.11
(1,1357)	1:C:255:LEU:HD22	1:C:258:ILE:HG13	13	0.11
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG12	13	0.11
(1,1357)	1:C:255:LEU:HD23	1:C:258:ILE:HG13	13	0.11
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE1	7	0.11
(1,1254)	1:C:249:VAL:HG21	2:D:321:TYR:HE2	7	0.11
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE1	7	0.11
(1,1254)	1:C:249:VAL:HG22	2:D:321:TYR:HE2	7	0.11
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE1	7	0.11
(1,1254)	1:C:249:VAL:HG23	2:D:321:TYR:HE2	7	0.11
(1,120)	1:A:20:ARG:HG2	1:A:61:TYR:HE1	8	0.11
(1,120)	1:A:20:ARG:HG2	1:A:61:TYR:HE2	8	0.11
(1,120)	1:A:20:ARG:HG3	1:A:61:TYR:HE1	8	0.11
(1,120)	1:A:20:ARG:HG3	1:A:61:TYR:HE2	8	0.11
(1,118)	1:A:20:ARG:HD2	1:A:61:TYR:HE1	14	0.11
(1,118)	1:A:20:ARG:HD2	1:A:61:TYR:HE2	14	0.11
(1,118)	1:A:20:ARG:HD3	1:A:61:TYR:HE1	14	0.11
(1,118)	1:A:20:ARG:HD3	1:A:61:TYR:HE2	14	0.11
(1,1137)	1:C:237:GLN:H	1:C:253:PRO:HG3	19	0.11
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD1	11	0.11
(1,1129)	1:C:231:THR:HG21	2:D:312:TYR:HD2	11	0.11
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD1	11	0.11
(1,1129)	1:C:231:THR:HG22	2:D:312:TYR:HD2	11	0.11
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD1	11	0.11
(1,1129)	1:C:231:THR:HG23	2:D:312:TYR:HD2	11	0.11
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE1	4	0.11
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE2	4	0.11
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE1	4	0.11
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE2	4	0.11
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE1	20	0.11
(1,1114)	1:C:229:LEU:HB2	2:D:312:TYR:HE2	20	0.11
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE1	20	0.11
(1,1114)	1:C:229:LEU:HB3	2:D:312:TYR:HE2	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1113)	1:C:229:LEU:HB2	2:D:312:TYR:HD1	10	0.11
(1,1113)	1:C:229:LEU:HB2	2:D:312:TYR:HD2	10	0.11
(1,1113)	1:C:229:LEU:HB3	2:D:312:TYR:HD1	10	0.11
(1,1113)	1:C:229:LEU:HB3	2:D:312:TYR:HD2	10	0.11
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD11	8	0.11
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD12	8	0.11
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD13	8	0.11
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD21	8	0.11
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD22	8	0.11
(1,1089)	1:C:227:LYS:HE2	1:C:229:LEU:HD23	8	0.11
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD11	8	0.11
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD12	8	0.11
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD13	8	0.11
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD21	8	0.11
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD22	8	0.11
(1,1089)	1:C:227:LYS:HE3	1:C:229:LEU:HD23	8	0.11
(1,1055)	1:C:226:LEU:HB2	1:C:261:TYR:HE1	15	0.11
(1,1055)	1:C:226:LEU:HB2	1:C:261:TYR:HE2	15	0.11
(1,1055)	1:C:226:LEU:HB2	1:C:261:TYR:HE1	20	0.11
(1,1055)	1:C:226:LEU:HB2	1:C:261:TYR:HE2	20	0.11
(1,104)	1:A:19:ALA:HA	1:A:57:TRP:HE1	3	0.11
(1,103)	1:A:19:ALA:H	1:A:49:VAL:HG21	17	0.11
(1,103)	1:A:19:ALA:H	1:A:49:VAL:HG22	17	0.11
(1,103)	1:A:19:ALA:H	1:A:49:VAL:HG23	17	0.11
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE1	7	0.11
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE2	7	0.11
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE1	16	0.11
(1,10)	1:A:10:PRO:HA	2:B:112:TYR:HE2	16	0.11

10 Dihedral-angle violation analysis (i)

Dihedral angle analysis failed due to data error in the dihedral angle restraints, possibly missing target value