



Full wwPDB NMR Structure Validation Report ⓘ

Jun 3, 2023 – 09:20 PM EDT

PDB ID : 2N3K
BMRB ID : 25649
Title : Human Brd4 ET domain in complex with MLV Integrase C-term
Authors : Crowe, B.L.; Foster, M.P.
Deposited on : 2015-06-03

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Percentile statistics : 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

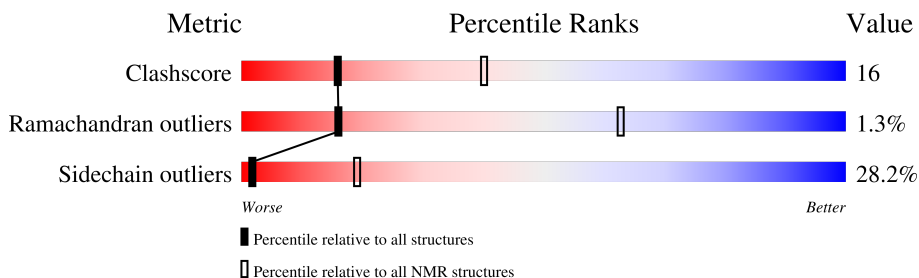
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 66%.

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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	86	
2	B	17	

2 Ensemble composition and analysis i

This entry contains 20 models. Model 17 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:607-A:641, A:649-A:673, B:389-B:405 (77)	0.52	17

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

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

The models can be grouped into 3 clusters and 12 single-model clusters were found.

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

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 1623 atoms, of which 824 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Bromodomain-containing protein 4.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
1	A	79	1307	401	659	113	131	3	0

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	595	GLY	-	expression tag	UNP O60885
A	596	ALA	-	expression tag	UNP O60885
A	597	ILE	-	expression tag	UNP O60885
A	598	ALA	-	expression tag	UNP O60885
A	599	MET	-	expression tag	UNP O60885
A	679	THR	-	expression tag	UNP O60885
A	680	ARG	-	expression tag	UNP O60885

- Molecule 2 is a protein called MLV integrase.

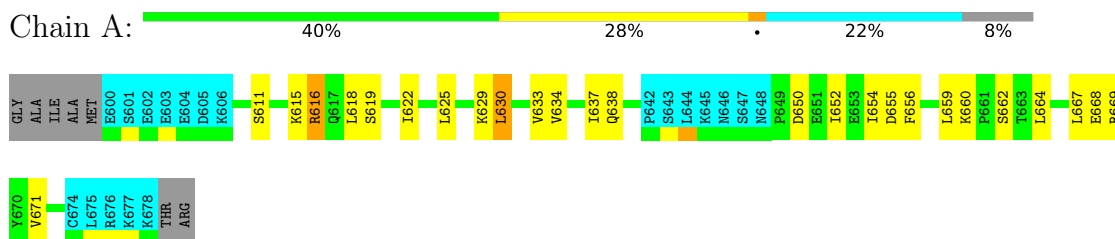
Mol	Chain	Residues	Atoms					Trace
			Total	C	H	N	O	
2	B	17	316	94	165	34	23	0

4 Residue-property plots [i](#)

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: Bromodomain-containing protein 4



- Molecule 2: MLV integrase

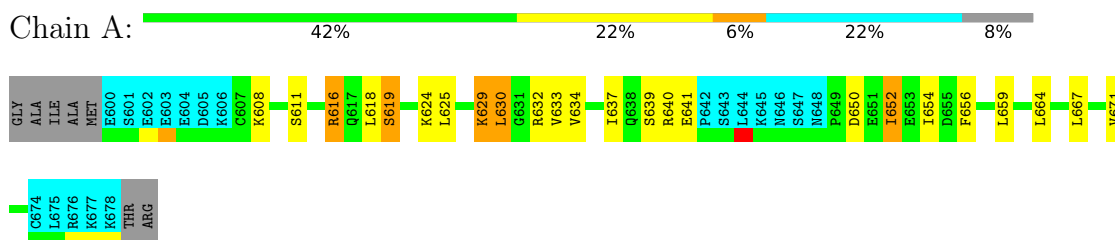


4.2 Scores per residue for each member of the ensemble

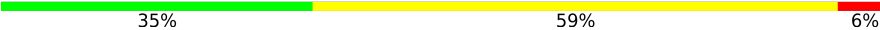
Colouring as in section 4.1 above.

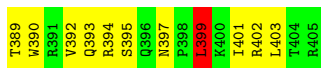
4.2.1 Score per residue for model 1

- Molecule 1: Bromodomain-containing protein 4



- Molecule 2: MLV integrase

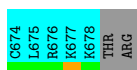
Chain B:  35% 59% 6%



4.2.2 Score per residue for model 2

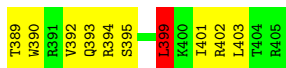
- Molecule 1: Bromodomain-containing protein 4

Chain A:  42% 21% 7% 22% 8%




- Molecule 2: MLV integrase

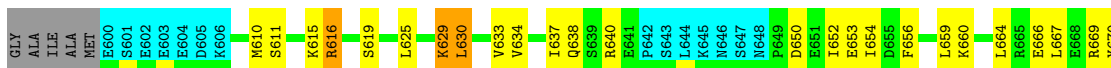
Chain B:  41% 53% 6%



4.2.3 Score per residue for model 3

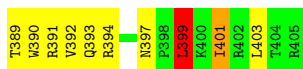
- Molecule 1: Bromodomain-containing protein 4

Chain A:  38% 28% 22% 8%



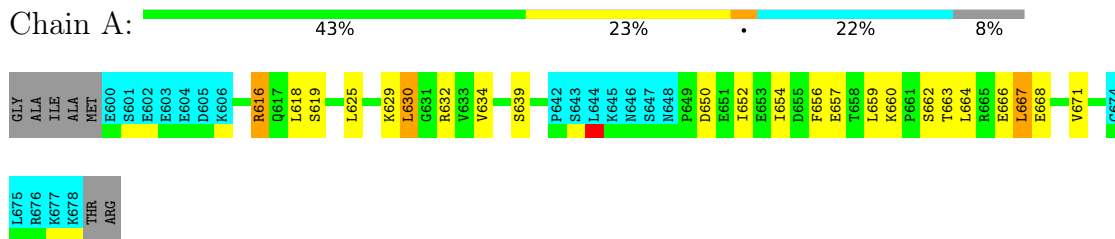
- Molecule 2: MLV integrase

Chain B:  41% 47% 6% 6%



4.2.4 Score per residue for model 4

- Molecule 1: Bromodomain-containing protein 4

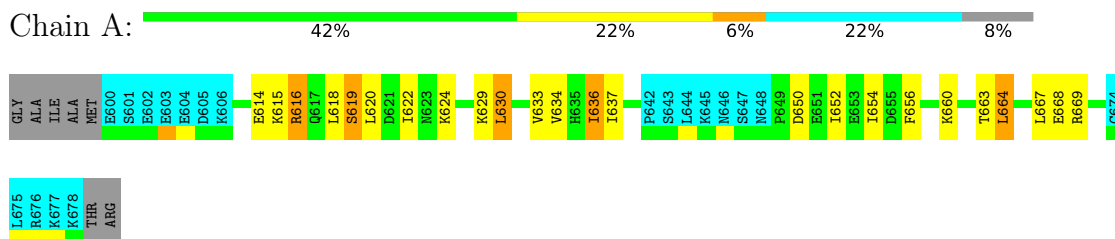


- Molecule 2: MLV integrase

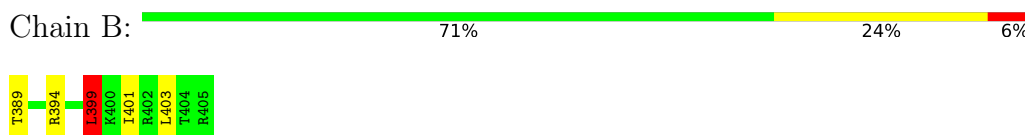


4.2.5 Score per residue for model 5

- Molecule 1: Bromodomain-containing protein 4

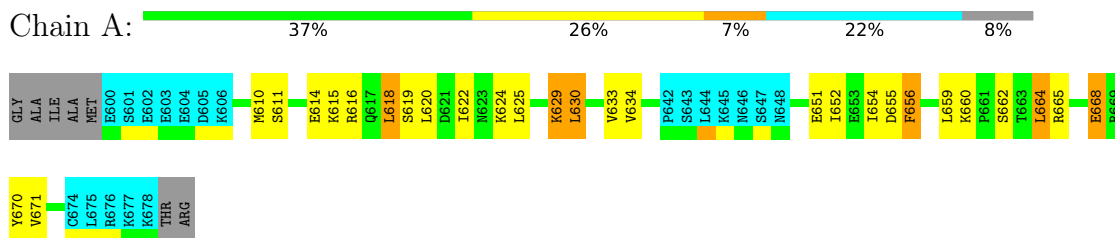


- Molecule 2: MLV integrase

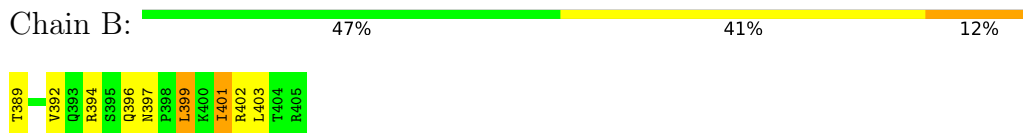


4.2.6 Score per residue for model 6

- Molecule 1: Bromodomain-containing protein 4

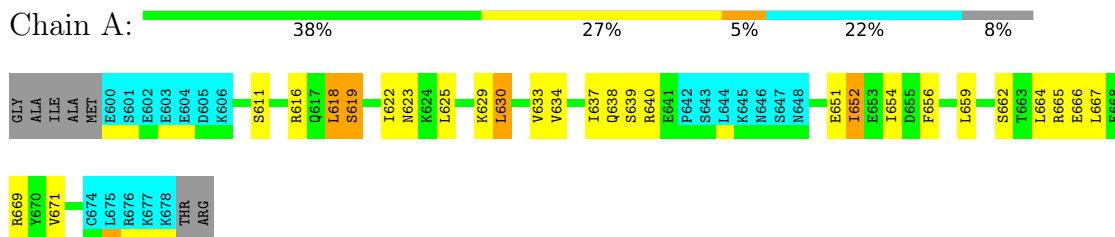


- Molecule 2: MLV integrase

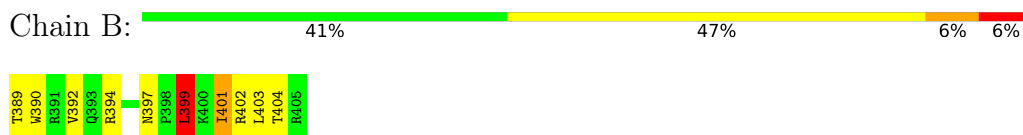


4.2.7 Score per residue for model 7

- Molecule 1: Bromodomain-containing protein 4

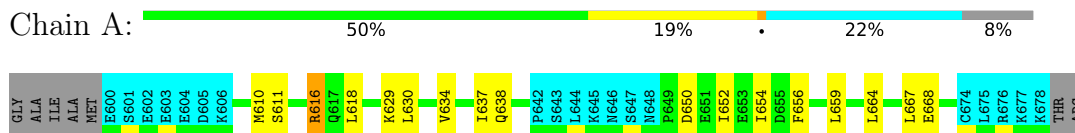


- Molecule 2: MLV integrase



4.2.8 Score per residue for model 8

- Molecule 1: Bromodomain-containing protein 4

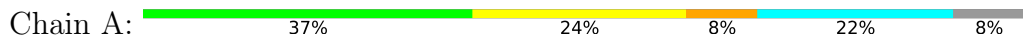


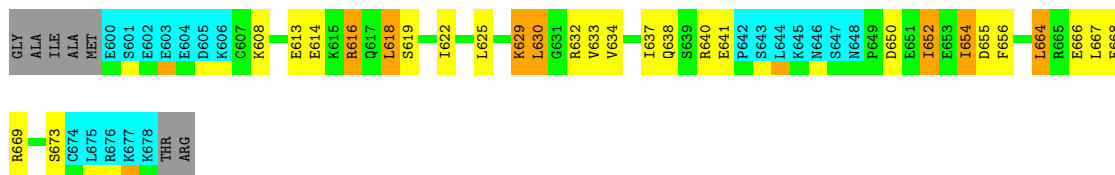
- Molecule 2: MLV integrase



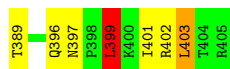
4.2.9 Score per residue for model 9

- Molecule 1: Bromodomain-containing protein 4



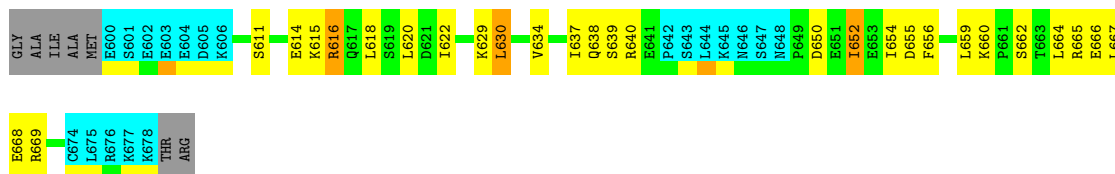
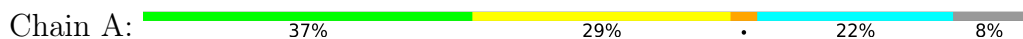


- Molecule 2: MLV integrase

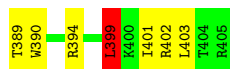


4.2.10 Score per residue for model 10

- Molecule 1: Bromodomain-containing protein 4

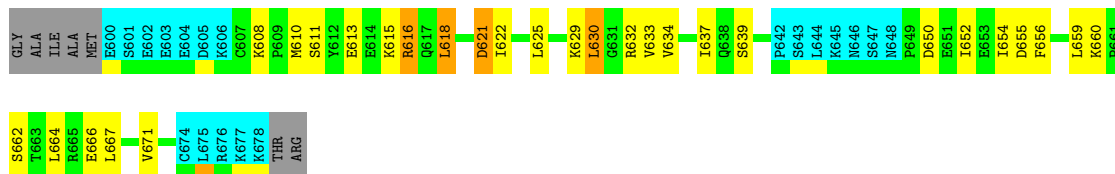


- Molecule 2: MLV integrase



4.2.11 Score per residue for model 11

- Molecule 1: Bromodomain-containing protein 4



- Molecule 2: MLV integrase

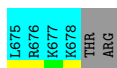




4.2.12 Score per residue for model 12

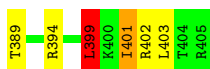
- Molecule 1: Bromodomain-containing protein 4

Chain A: 41% 26% 22% 8%



- Molecule 2: MLV integrase

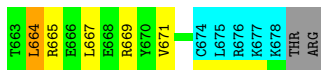
Chain B: 65% 24% 6% 6%



4.2.13 Score per residue for model 13

- Molecule 1: Bromodomain-containing protein 4

Chain A: 36% 29% 5% 22% 8%



- Molecule 2: MLV integrase

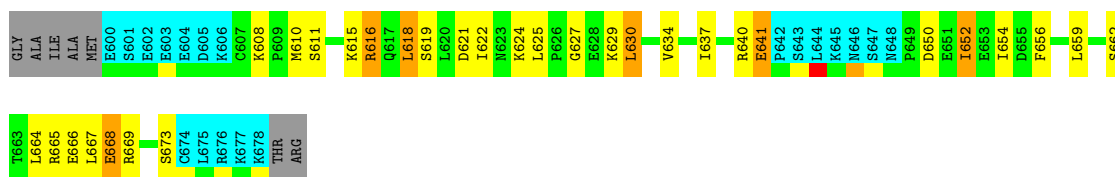
Chain B: 53% 35% 12%



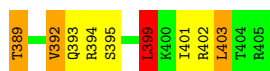
4.2.14 Score per residue for model 14

- Molecule 1: Bromodomain-containing protein 4

Chain A: 34% 29% 7% 22% 8%

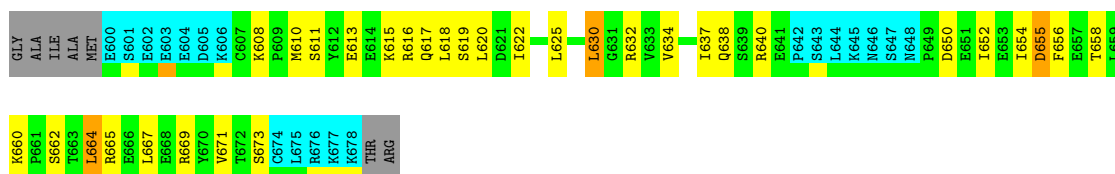


- Molecule 2: MLV integrase



4.2.15 Score per residue for model 15

- Molecule 1: Bromodomain-containing protein 4

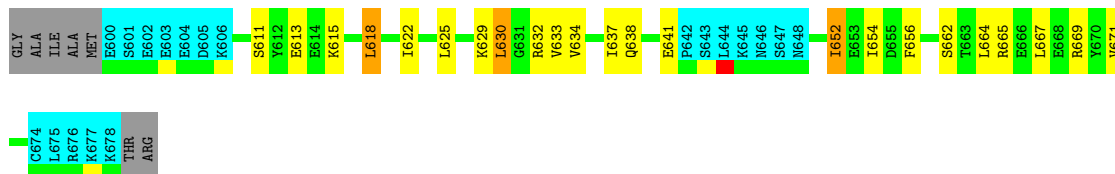


- Molecule 2: MLV integrase



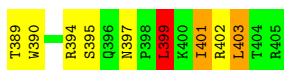
4.2.16 Score per residue for model 16

- Molecule 1: Bromodomain-containing protein 4



- Molecule 2: MLV integrase

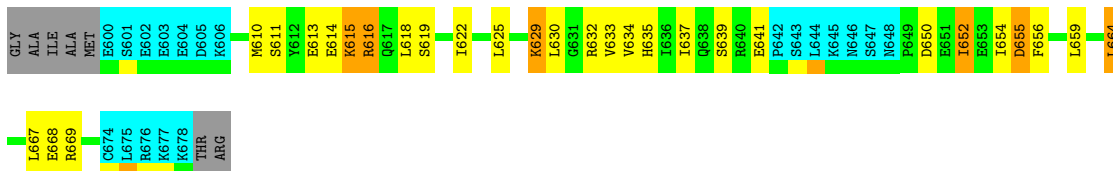




4.2.17 Score per residue for model 17 (medoid)

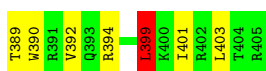
- Molecule 1: Bromodomain-containing protein 4

Chain A: 36% 27% 7% 22% 8%



- Molecule 2: MLV integrase

Chain B: 59% 35% 6%



4.2.18 Score per residue for model 18

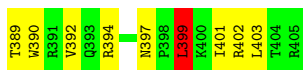
- Molecule 1: Bromodomain-containing protein 4

Chain A: 37% 30% 22% 8%



- Molecule 2: MLV integrase

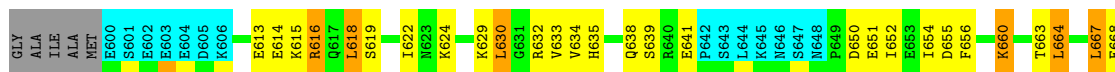
Chain B: 47% 47% 6%



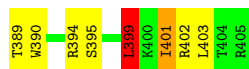
4.2.19 Score per residue for model 19

- Molecule 1: Bromodomain-containing protein 4

Chain A: 34% 29% 7% 22% 8%

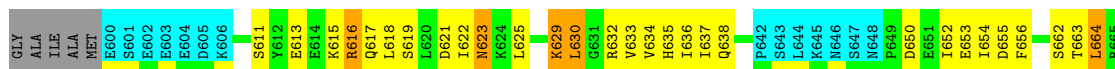


• Molecule 2: MLV integrase

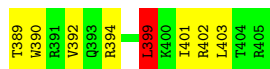


4.2.20 Score per residue for model 20

• Molecule 1: Bromodomain-containing protein 4



• Molecule 2: MLV integrase



5 Refinement protocol and experimental data overview

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

Of the 150 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
CYANA	refinement	3.97
CYANA	structure solution	3.97

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	995
Number of shifts mapped to atoms	926
Number of unparsed shifts	0
Number of shifts with mapping errors	69
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	66%

6 Model quality i

6.1 Standard geometry i

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts i

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	494	505	505	19±4
2	B	151	165	164	9±3
All	All	12900	13400	13380	422

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 16.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:634:VAL:HG22	2:B:403:LEU:HD23	1.01	1.31	3	2
1:A:625:LEU:HD11	1:A:671:VAL:HG23	0.98	1.33	1	2
1:A:634:VAL:HG12	2:B:403:LEU:HD23	0.97	1.29	4	3
1:A:654:ILE:HD13	2:B:403:LEU:HD23	0.93	1.40	9	2
1:A:630:LEU:HD23	1:A:634:VAL:HG11	0.79	1.55	16	8
1:A:654:ILE:HG22	1:A:659:LEU:HD11	0.78	1.55	18	2
1:A:654:ILE:HD11	2:B:403:LEU:HD22	0.77	1.54	13	8
1:A:622:ILE:HD13	1:A:633:VAL:HG11	0.74	1.57	6	9
1:A:630:LEU:HD21	2:B:403:LEU:HD12	0.73	1.61	15	6
2:B:392:VAL:HG23	2:B:403:LEU:HD22	0.72	1.61	14	2
1:A:634:VAL:CG1	2:B:403:LEU:HD23	0.70	2.17	13	3
1:A:654:ILE:HD12	2:B:403:LEU:HD23	0.69	1.63	5	6
1:A:630:LEU:HD11	2:B:392:VAL:HG21	0.69	1.65	11	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:654:ILE:CG2	1:A:659:LEU:HD11	0.68	2.17	18	2
1:A:656:PHE:CE2	2:B:399:LEU:HD12	0.67	2.25	4	17
1:A:622:ILE:HG22	1:A:630:LEU:HD12	0.66	1.64	10	8
2:B:401:ILE:HD12	2:B:403:LEU:HD21	0.65	1.67	9	3
1:A:634:VAL:HG21	2:B:390:TRP:CZ3	0.65	2.27	17	4
1:A:663:THR:O	1:A:667:LEU:HD22	0.65	1.92	4	4
1:A:625:LEU:CD2	1:A:671:VAL:HG23	0.64	2.22	11	4
1:A:633:VAL:HG13	1:A:667:LEU:HD12	0.64	1.69	5	2
1:A:634:VAL:HG21	2:B:390:TRP:CH2	0.64	2.28	11	5
1:A:618:LEU:HD21	1:A:656:PHE:CZ	0.63	2.28	19	1
1:A:630:LEU:HD22	2:B:390:TRP:HB3	0.62	1.69	13	8
1:A:654:ILE:CD1	2:B:403:LEU:HD22	0.62	2.24	4	8
1:A:625:LEU:HD22	1:A:671:VAL:HG23	0.62	1.70	3	2
1:A:625:LEU:HD22	1:A:629:LYS:HB3	0.62	1.72	4	1
2:B:392:VAL:HG23	2:B:403:LEU:HD11	0.62	1.72	4	2
1:A:616:ARG:HA	2:B:399:LEU:HD21	0.62	1.71	14	14
1:A:629:LYS:O	1:A:633:VAL:HG23	0.62	1.95	18	10
1:A:637:ILE:HD11	1:A:667:LEU:CD1	0.62	2.24	11	12
1:A:625:LEU:CD1	1:A:671:VAL:HG23	0.62	2.25	13	2
1:A:630:LEU:O	1:A:634:VAL:HG12	0.61	1.95	18	1
1:A:637:ILE:HD11	1:A:667:LEU:HD13	0.61	1.73	10	9
1:A:654:ILE:CD1	2:B:403:LEU:HD23	0.61	2.25	20	7
1:A:618:LEU:HD21	1:A:668:GLU:HB2	0.61	1.72	10	4
1:A:630:LEU:HD23	1:A:634:VAL:CG1	0.61	2.25	16	4
1:A:659:LEU:HD23	1:A:664:LEU:CD1	0.61	2.26	3	1
1:A:630:LEU:HD21	2:B:403:LEU:CD1	0.60	2.26	15	2
1:A:630:LEU:O	1:A:634:VAL:HG23	0.60	1.97	3	5
1:A:656:PHE:CG	1:A:664:LEU:HD21	0.60	2.31	5	2
1:A:618:LEU:HD12	1:A:622:ILE:HD12	0.60	1.74	16	3
1:A:634:VAL:HG12	2:B:403:LEU:CD2	0.59	2.27	16	1
1:A:622:ILE:CD1	1:A:633:VAL:HG11	0.59	2.27	13	4
1:A:638:GLN:HB3	1:A:652:ILE:HD11	0.59	1.74	9	4
1:A:637:ILE:HD11	1:A:667:LEU:HD11	0.58	1.74	1	2
1:A:637:ILE:HG21	1:A:654:ILE:HG12	0.58	1.75	16	5
1:A:637:ILE:HG21	1:A:654:ILE:HG23	0.58	1.75	15	1
1:A:618:LEU:HD21	1:A:668:GLU:HG3	0.58	1.75	14	1
2:B:392:VAL:CG2	2:B:403:LEU:HD22	0.58	2.29	14	1
1:A:660:LYS:O	1:A:664:LEU:HD12	0.58	1.98	19	3
1:A:625:LEU:HD23	1:A:629:LYS:HE2	0.58	1.75	17	1
2:B:392:VAL:HG23	2:B:403:LEU:CD1	0.58	2.27	4	2
1:A:637:ILE:HD13	1:A:654:ILE:HD13	0.58	1.74	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:637:ILE:HD11	1:A:667:LEU:HG	0.57	1.76	5	1
1:A:618:LEU:O	1:A:622:ILE:HD12	0.57	2.00	20	2
1:A:610:MET:HB2	1:A:664:LEU:HD23	0.57	1.77	13	5
1:A:623:ASN:ND2	2:B:392:VAL:HG11	0.57	2.15	7	2
1:A:636:ILE:HB	1:A:667:LEU:HD11	0.57	1.77	5	1
1:A:622:ILE:HG12	1:A:633:VAL:HG21	0.57	1.76	20	1
1:A:630:LEU:HD21	2:B:403:LEU:HG	0.56	1.77	17	4
1:A:630:LEU:HD11	2:B:392:VAL:HG23	0.56	1.77	18	1
1:A:656:PHE:CD1	1:A:664:LEU:HD11	0.56	2.34	13	7
1:A:615:LYS:HG2	1:A:664:LEU:HD21	0.56	1.77	6	1
1:A:625:LEU:HD12	1:A:625:LEU:O	0.56	2.00	4	1
1:A:654:ILE:HD13	2:B:403:LEU:HD22	0.56	1.78	4	1
1:A:634:VAL:HB	2:B:403:LEU:HD23	0.56	1.78	17	5
1:A:630:LEU:O	1:A:634:VAL:HG22	0.56	2.00	6	5
2:B:399:LEU:HD12	2:B:401:ILE:HD11	0.56	1.77	16	2
1:A:615:LYS:HD3	1:A:664:LEU:HD21	0.56	1.78	17	1
1:A:630:LEU:HD11	2:B:392:VAL:CG2	0.56	2.31	8	4
1:A:637:ILE:HG21	1:A:654:ILE:HD12	0.55	1.78	7	1
2:B:401:ILE:O	2:B:403:LEU:HD22	0.55	2.02	12	2
1:A:621:ASP:HB3	1:A:671:VAL:HG21	0.55	1.79	13	3
1:A:618:LEU:HD23	1:A:619:SER:N	0.55	2.17	9	3
1:A:656:PHE:CD1	1:A:664:LEU:HD21	0.54	2.37	9	1
1:A:625:LEU:HD13	1:A:629:LYS:CD	0.54	2.32	7	1
1:A:625:LEU:HD13	1:A:629:LYS:CG	0.54	2.32	7	1
1:A:615:LYS:HA	1:A:618:LEU:HD23	0.54	1.79	11	3
1:A:630:LEU:HD11	2:B:403:LEU:HD11	0.54	1.78	20	2
1:A:656:PHE:CD2	2:B:399:LEU:HD12	0.54	2.37	15	5
2:B:401:ILE:HG22	2:B:403:LEU:CD1	0.54	2.33	1	5
1:A:615:LYS:HG2	1:A:664:LEU:HD22	0.54	1.78	20	1
1:A:619:SER:OG	2:B:399:LEU:HD11	0.54	2.03	15	4
1:A:634:VAL:CG2	2:B:403:LEU:HD23	0.53	2.21	3	1
1:A:630:LEU:O	1:A:634:VAL:HG13	0.53	2.03	16	2
1:A:625:LEU:HD23	1:A:629:LYS:HB3	0.53	1.79	20	3
1:A:634:VAL:HG23	1:A:652:ILE:HG21	0.53	1.81	17	2
1:A:655:ASP:C	1:A:659:LEU:HD12	0.53	2.24	17	1
1:A:654:ILE:HD12	2:B:403:LEU:CD2	0.52	2.32	12	2
1:A:610:MET:HB2	1:A:664:LEU:HD22	0.52	1.80	17	1
1:A:637:ILE:HG21	1:A:654:ILE:CD1	0.52	2.35	7	1
1:A:618:LEU:HD21	1:A:668:GLU:CB	0.52	2.34	10	1
1:A:634:VAL:HG12	1:A:638:GLN:HE21	0.52	1.65	15	2
1:A:618:LEU:HD11	1:A:668:GLU:CA	0.52	2.35	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:630:LEU:HD22	2:B:390:TRP:CB	0.51	2.34	4	1
1:A:625:LEU:HD23	1:A:671:VAL:HG23	0.51	1.82	4	1
1:A:656:PHE:CE2	1:A:664:LEU:HD21	0.51	2.40	20	1
1:A:610:MET:HB3	1:A:664:LEU:HD22	0.51	1.81	6	1
1:A:654:ILE:HD13	2:B:403:LEU:CD2	0.51	2.26	9	1
1:A:654:ILE:HB	2:B:401:ILE:HD12	0.50	1.81	3	2
1:A:633:VAL:HG13	1:A:667:LEU:CD1	0.50	2.37	5	1
1:A:615:LYS:HG2	1:A:664:LEU:HD11	0.50	1.84	15	1
1:A:656:PHE:HA	1:A:659:LEU:HD12	0.50	1.84	18	2
2:B:392:VAL:CG1	2:B:401:ILE:HG22	0.49	2.37	3	1
1:A:615:LYS:CG	1:A:664:LEU:HD21	0.49	2.38	15	1
1:A:630:LEU:HD11	2:B:403:LEU:CD1	0.49	2.38	19	2
1:A:622:ILE:HG22	1:A:630:LEU:CD1	0.49	2.37	9	1
1:A:618:LEU:HD11	1:A:668:GLU:HA	0.48	1.83	17	3
1:A:615:LYS:CD	1:A:664:LEU:HD21	0.48	2.38	17	1
1:A:637:ILE:HG21	1:A:654:ILE:HG13	0.48	1.84	9	1
1:A:630:LEU:HD13	2:B:390:TRP:HB3	0.48	1.84	1	1
2:B:392:VAL:HG22	2:B:403:LEU:CD1	0.48	2.39	18	4
1:A:627:GLY:HA3	2:B:389:THR:HG22	0.48	1.84	14	1
2:B:399:LEU:CD1	2:B:401:ILE:HD11	0.48	2.39	16	1
1:A:616:ARG:CB	2:B:399:LEU:HD21	0.48	2.38	20	2
1:A:623:ASN:OD1	2:B:392:VAL:HG11	0.47	2.10	20	1
1:A:652:ILE:HG23	1:A:654:ILE:HD12	0.47	1.86	9	1
1:A:634:VAL:HG13	1:A:652:ILE:HG21	0.47	1.86	14	1
2:B:392:VAL:HG13	2:B:403:LEU:HD12	0.47	1.85	3	3
1:A:637:ILE:HD11	1:A:667:LEU:CD2	0.47	2.39	12	1
1:A:625:LEU:HD13	1:A:629:LYS:HD2	0.47	1.87	1	1
1:A:619:SER:HB3	2:B:399:LEU:HD11	0.46	1.88	1	1
1:A:634:VAL:HG22	1:A:638:GLN:HE21	0.46	1.70	10	2
1:A:651:GLU:HA	2:B:404:THR:HG22	0.46	1.85	7	1
1:A:625:LEU:HD13	1:A:629:LYS:HG3	0.46	1.88	6	2
1:A:618:LEU:HD11	1:A:664:LEU:HD23	0.46	1.87	15	1
1:A:654:ILE:HG23	1:A:659:LEU:HD11	0.46	1.87	17	1
1:A:622:ILE:CG2	1:A:630:LEU:HD12	0.46	2.40	20	1
1:A:615:LYS:CG	1:A:664:LEU:HD11	0.46	2.41	15	1
1:A:625:LEU:HD13	1:A:629:LYS:HE3	0.45	1.87	6	1
1:A:654:ILE:HD12	2:B:403:LEU:HD22	0.45	1.87	16	1
1:A:637:ILE:CD1	1:A:654:ILE:HD13	0.45	2.41	18	1
1:A:610:MET:CB	1:A:664:LEU:HD22	0.45	2.42	6	3
1:A:637:ILE:HD13	1:A:654:ILE:HG23	0.45	1.88	14	1
1:A:634:VAL:HG22	2:B:403:LEU:HG	0.45	1.89	19	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:655:ASP:HB2	1:A:658:THR:HG22	0.45	1.87	15	1
1:A:618:LEU:HD11	1:A:656:PHE:CZ	0.44	2.47	11	1
1:A:637:ILE:HG12	1:A:667:LEU:HD11	0.43	1.90	13	1
1:A:663:THR:HG22	1:A:667:LEU:HD11	0.43	1.90	18	1
1:A:616:ARG:CA	2:B:399:LEU:HD21	0.43	2.43	20	1
1:A:667:LEU:N	1:A:667:LEU:HD13	0.43	2.28	4	1
1:A:625:LEU:HD23	1:A:629:LYS:CE	0.43	2.42	17	1
1:A:630:LEU:CD2	1:A:634:VAL:HG11	0.43	2.43	12	1
1:A:659:LEU:HD23	1:A:664:LEU:HD12	0.42	1.91	3	1
1:A:625:LEU:HD21	1:A:671:VAL:HG23	0.42	1.90	11	2
1:A:618:LEU:HD21	1:A:668:GLU:CG	0.42	2.42	14	1
1:A:634:VAL:HG11	2:B:390:TRP:CZ3	0.42	2.48	20	3
1:A:615:LYS:HE3	1:A:664:LEU:HD21	0.42	1.90	3	1
1:A:637:ILE:HG23	1:A:659:LEU:HD21	0.42	1.92	17	1
1:A:615:LYS:HZ3	1:A:618:LEU:HD23	0.42	1.74	14	1
1:A:668:GLU:HA	1:A:671:VAL:HG12	0.42	1.92	6	4
1:A:650:ASP:O	1:A:650:ASP:CG	0.42	2.59	2	2
1:A:637:ILE:HG21	1:A:654:ILE:CG2	0.42	2.42	15	1
2:B:392:VAL:HG23	2:B:401:ILE:CG2	0.41	2.45	2	2
1:A:667:LEU:HD13	1:A:667:LEU:N	0.41	2.29	19	1
2:B:392:VAL:HG22	2:B:403:LEU:HD12	0.41	1.91	1	1
1:A:652:ILE:CG2	2:B:403:LEU:HB2	0.41	2.45	17	2
1:A:625:LEU:HD22	1:A:629:LYS:HE2	0.41	1.90	1	1
1:A:654:ILE:HD12	2:B:401:ILE:O	0.41	2.16	4	1
1:A:621:ASP:O	1:A:625:LEU:HD13	0.41	2.15	14	1
1:A:634:VAL:HG22	1:A:638:GLN:NE2	0.41	2.31	8	1
1:A:654:ILE:HG13	2:B:403:LEU:HD23	0.41	1.93	7	1
2:B:392:VAL:HG23	2:B:401:ILE:HG22	0.41	1.93	7	1
1:A:625:LEU:HD12	1:A:671:VAL:HG23	0.41	1.93	16	1
1:A:637:ILE:CG1	1:A:667:LEU:HD21	0.41	2.46	20	1
2:B:392:VAL:HG22	2:B:403:LEU:HG	0.40	1.93	3	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	60/86 (70%)	58±1 (97±2%)	2±1 (3±2%)	0±0 (0±0%)	100	100
2	B	15/17 (88%)	13±1 (84±4%)	1±1 (9±4%)	1±0 (7±2%)	2	18
All	All	1500/2060 (73%)	1418 (95%)	62 (4%)	20 (1%)	16	63

All 2 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
2	B	399	LEU	19
2	B	396	GLN	1

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	58/81 (72%)	43±4 (74±6%)	15±4 (26±6%)	2	22
2	B	17/17 (100%)	11±1 (65±7%)	6±1 (35±7%)	1	10
All	All	1500/1960 (77%)	1077 (72%)	423 (28%)	2	19

All 54 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)
2	B	389	THR	20
2	B	399	LEU	20
1	A	652	ILE	19
2	B	394	ARG	19
1	A	616	ARG	18
1	A	630	LEU	17
1	A	650	ASP	16
1	A	611	SER	15
2	B	402	ARG	15
1	A	669	ARG	14
2	B	401	ILE	14
1	A	662	SER	12
1	A	629	LYS	11
1	A	664	LEU	11

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Mol	Chain	Res	Type	Models (Total)
1	A	632	ARG	10
1	A	639	SER	10
1	A	613	GLU	10
1	A	655	ASP	10
1	A	660	LYS	10
1	A	618	LEU	9
1	A	619	SER	9
1	A	659	LEU	9
1	A	666	GLU	9
1	A	624	LYS	8
1	A	640	ARG	8
2	B	397	ASN	8
1	A	614	GLU	8
1	A	665	ARG	8
1	A	608	LYS	6
2	B	393	GLN	6
2	B	395	SER	6
1	A	641	GLU	4
1	A	673	SER	4
1	A	667	LEU	4
2	B	403	LEU	4
1	A	615	LYS	4
1	A	620	LEU	4
1	A	668	GLU	4
1	A	635	HIS	4
1	A	653	GLU	3
1	A	670	TYR	3
2	B	396	GLN	3
1	A	617	GLN	3
1	A	636	ILE	2
1	A	651	GLU	2
1	A	621	ASP	2
2	B	391	ARG	1
1	A	657	GLU	1
1	A	656	PHE	1
1	A	654	ILE	1
2	B	392	VAL	1
2	B	400	LYS	1
1	A	638	GLN	1
1	A	623	ASN	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 66% for the well-defined parts and 66% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping i

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

Total number of shifts	995
Number of shifts mapped to atoms	926
Number of unparsed shifts	0
Number of shifts with mapping errors	69
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

The following assigned chemical shifts were not mapped to the molecules present in the coordinate file.

- No matching atom found in the structure. All 69 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	595	GLY	N	109.419	0	1
1	A	595	GLY	CA	45.158	0	1
1	A	595	GLY	HA2	3.873	0	2
1	A	595	GLY	C	175.978	0	1
1	A	596	ALA	N	123.613	0	1
1	A	596	ALA	H	8.085	0	1
1	A	596	ALA	CA	52.43	0	1
1	A	596	ALA	HA	4.338	0	1
1	A	596	ALA	CB	19.34	0	1
1	A	596	ALA	HB1	1.357	0	1
1	A	596	ALA	HB2	1.357	0	1
1	A	596	ALA	HB3	1.357	0	1
1	A	596	ALA	C	175.398	0	1
1	A	597	ILE	N	119.933	0	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	597	ILE	H	8.061	0	1
1	A	597	ILE	CA	60.956	0	1
1	A	597	ILE	HA	4.121	0	1
1	A	597	ILE	CB	38.767	0	1
1	A	597	ILE	HB	1.829	0	1
1	A	597	ILE	CG1	27.175	0	1
1	A	597	ILE	HG12	1.46	0	2
1	A	597	ILE	CD1	12.906	0	1
1	A	597	ILE	HD11	0.857	0	1
1	A	597	ILE	HD12	0.857	0	1
1	A	597	ILE	HD13	0.857	0	1
1	A	597	ILE	CG2	17.413	0	1
1	A	597	ILE	HG21	0.911	0	1
1	A	597	ILE	HG22	0.911	0	1
1	A	597	ILE	HG23	0.911	0	1
1	A	597	ILE	C	176.685	0	1
1	A	598	ALA	N	128.156	0	1
1	A	598	ALA	H	8.32	0	1
1	A	598	ALA	CA	52.345	0	1
1	A	598	ALA	HA	4.315	0	1
1	A	598	ALA	CB	19.204	0	1
1	A	598	ALA	HB1	1.355	0	1
1	A	598	ALA	HB2	1.355	0	1
1	A	598	ALA	HB3	1.355	0	1
1	A	598	ALA	C	173.773	0	1
1	A	599	MET	N	120.268	0	1
1	A	599	MET	H	8.331	0	1
1	A	599	MET	CA	55.471	0	1
1	A	599	MET	HA	4.447	0	1
1	A	599	MET	CB	33.12	0	1
1	A	599	MET	HB2	2.061	0	2
1	A	599	MET	CG	31.95	0	1
1	A	599	MET	HG2	2.602	0	2
1	A	599	MET	C	175.051	0	1
1	A	679	THR	N	115.917	0	1
1	A	679	THR	H	8.204	0	1
1	A	679	THR	CA	61.795	0	1
1	A	679	THR	HA	4.327	0	1
1	A	679	THR	CB	69.941	0	1
1	A	679	THR	HB	4.245	0	1
1	A	679	THR	CG2	21.944	0	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	679	THR	HG21	1.192	0	1
1	A	679	THR	HG22	1.192	0	1
1	A	679	THR	HG23	1.192	0	1
1	A	679	THR	C	177.732	0	1
1	A	680	ARG	N	127.693	0	1
1	A	680	ARG	H	7.976	0	1
1	A	680	ARG	CA	57.64	0	1
1	A	680	ARG	HA	4.158	0	1
1	A	680	ARG	CB	31.376	0	1
1	A	680	ARG	HB2	1.837	0	2
1	A	680	ARG	CG	27.19	0	1
1	A	680	ARG	HG2	1.581	0	2
1	A	680	ARG	CD	43.456	0	1
1	A	680	ARG	HD2	3.179	0	2

7.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	86	-0.75 ± 0.28	Should be checked
$^{13}\text{C}_\beta$	83	0.30 ± 0.13	None needed (< 0.5 ppm)
$^{13}\text{C}'$	79	1.65 ± 0.51	Should be applied
^{15}N	81	0.65 ± 0.45	None needed (imprecise)

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 66%, i.e. 761 atoms were assigned a chemical shift out of a possible 1149. 0 out of 13 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	320/377 (85%)	148/151 (98%)	116/154 (75%)	56/72 (78%)
Sidechain	421/725 (58%)	284/465 (61%)	134/221 (61%)	3/39 (8%)
Aromatic	20/47 (43%)	14/23 (61%)	6/22 (27%)	0/2 (0%)
Overall	761/1149 (66%)	446/639 (70%)	256/397 (64%)	59/113 (52%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 66%, i.e. 926 atoms were assigned a chemical shift out of a possible 1405. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	410/470 (87%)	184/188 (98%)	152/192 (79%)	74/90 (82%)
Sidechain	496/888 (56%)	321/566 (57%)	170/274 (62%)	5/48 (10%)
Aromatic	20/47 (43%)	14/23 (61%)	6/22 (27%)	0/2 (0%)
Overall	926/1405 (66%)	519/777 (67%)	328/488 (67%)	79/140 (56%)

7.1.4 Statistically unusual chemical shifts [i](#)

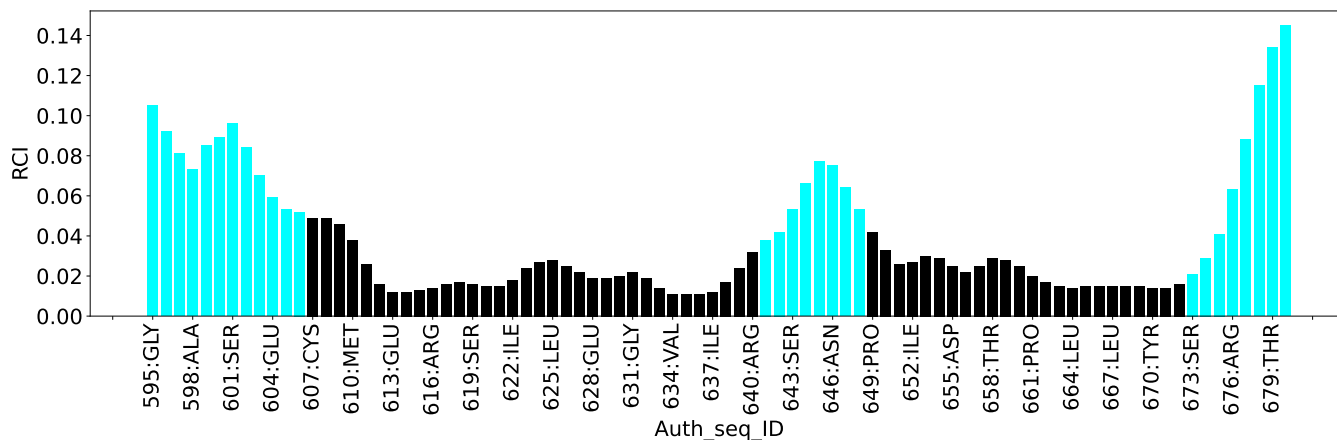
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	B	405	ARG	HD3	4.44	1.81 – 4.39	5.2

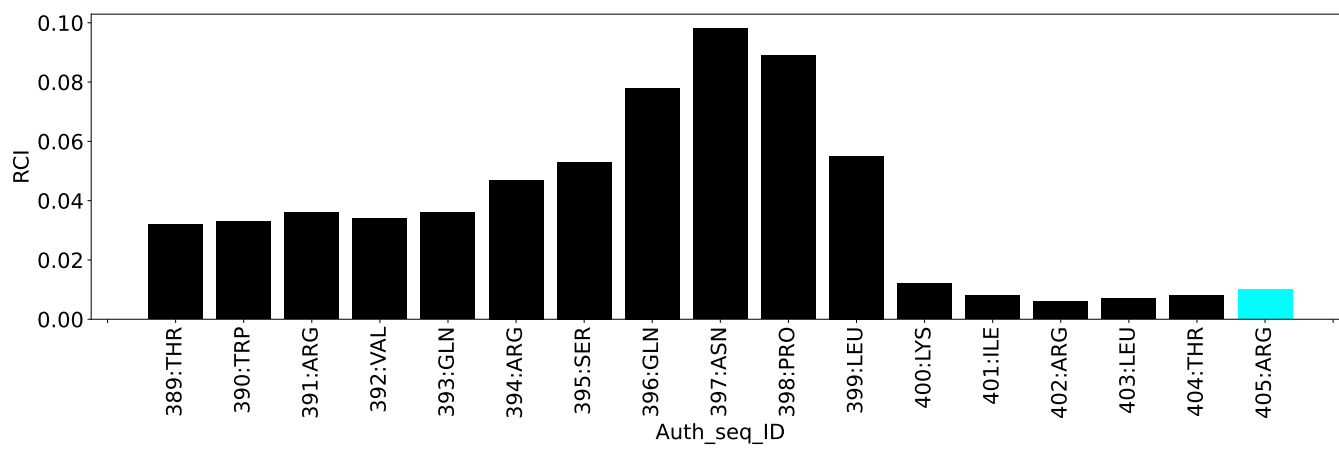
7.1.5 Random Coil Index (RCI) plots [i](#)

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

Random coil index (RCI) for chain A:



Random coil index (RCI) for chain B:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1103
Intra-residue ($ i-j =0$)	116
Sequential ($ i-j =1$)	255
Medium range ($ i-j >1$ and $ i-j <5$)	319
Long range ($ i-j \geq 5$)	174
Inter-chain	151
Hydrogen bond restraints	88
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	10.7
Number of long range restraints per residue ¹	1.8

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	15.6	0.2
0.2-0.5 (Medium)	4.2	0.5
>0.5 (Large)	12.5	3.25

8.2.2 Average number of dihedral-angle violations per model

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

9 Distance violation analysis [i](#)

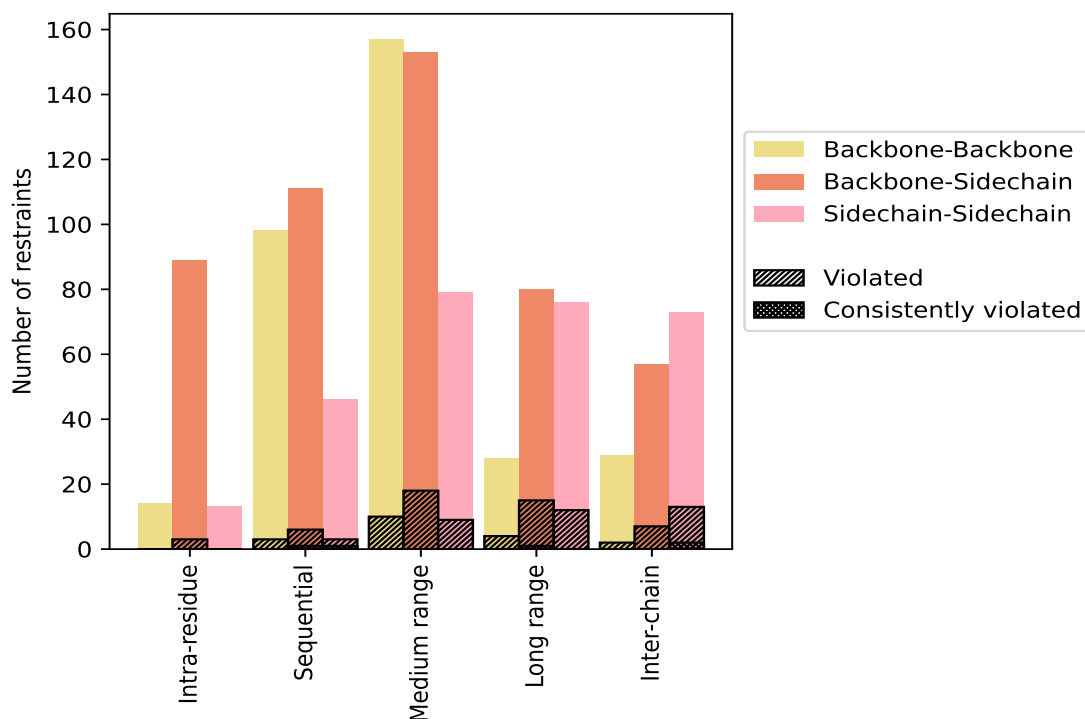
9.1 Summary of distance violations [i](#)

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.

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	116	10.5	3	2.6	0.3	0	0.0	0.0
Backbone-Backbone	14	1.3	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	89	8.1	3	3.4	0.3	0	0.0	0.0
Sidechain-Sidechain	13	1.2	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	255	23.1	12	4.7	1.1	2	0.8	0.2
Backbone-Backbone	98	8.9	3	3.1	0.3	0	0.0	0.0
Backbone-Sidechain	111	10.1	6	5.4	0.5	1	0.9	0.1
Sidechain-Sidechain	46	4.2	3	6.5	0.3	1	2.2	0.1
Medium range ($i-j >1$ & $i-j <5$)	319	28.9	31	9.7	2.8	0	0.0	0.0
Backbone-Backbone	87	7.9	4	4.6	0.4	0	0.0	0.0
Backbone-Sidechain	153	13.9	18	11.8	1.6	0	0.0	0.0
Sidechain-Sidechain	79	7.2	9	11.4	0.8	0	0.0	0.0
Long range ($i-j \geq 5$)	174	15.8	30	17.2	2.7	1	0.6	0.1
Backbone-Backbone	18	1.6	3	16.7	0.3	0	0.0	0.0
Backbone-Sidechain	80	7.3	15	18.8	1.4	1	1.2	0.1
Sidechain-Sidechain	76	6.9	12	15.8	1.1	0	0.0	0.0
Inter-chain	151	13.7	20	13.2	1.8	2	1.3	0.2
Backbone-Backbone	21	1.9	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	57	5.2	7	12.3	0.6	0	0.0	0.0
Sidechain-Sidechain	73	6.6	13	17.8	1.2	2	2.7	0.2
Hydrogen bond	88	8.0	9	10.2	0.8	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1103	100.0	105	9.5	9.5	5	0.5	0.5
Backbone-Backbone	326	29.6	19	5.8	1.7	0	0.0	0.0
Backbone-Sidechain	490	44.4	49	10.0	4.4	2	0.4	0.2
Sidechain-Sidechain	287	26.0	37	12.9	3.4	3	1.0	0.3

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	0	7	7	10	7	31	0.54	2.39	0.58	0.16
2	0	4	6	5	16	31	0.68	2.45	0.68	0.47
3	0	4	5	10	7	26	0.56	2.25	0.58	0.18
4	1	5	7	10	11	34	0.56	2.35	0.54	0.36
5	1	4	7	6	14	32	0.76	2.87	0.74	0.39
6	1	5	9	7	11	33	0.68	2.22	0.64	0.4
7	0	5	14	6	13	38	0.62	2.35	0.61	0.35
8	1	7	9	8	4	29	0.51	2.91	0.64	0.16
9	0	8	9	5	12	34	0.61	2.81	0.69	0.18
10	1	7	6	5	6	25	0.61	2.8	0.65	0.19
11	1	5	7	9	6	28	0.59	3.25	0.68	0.25

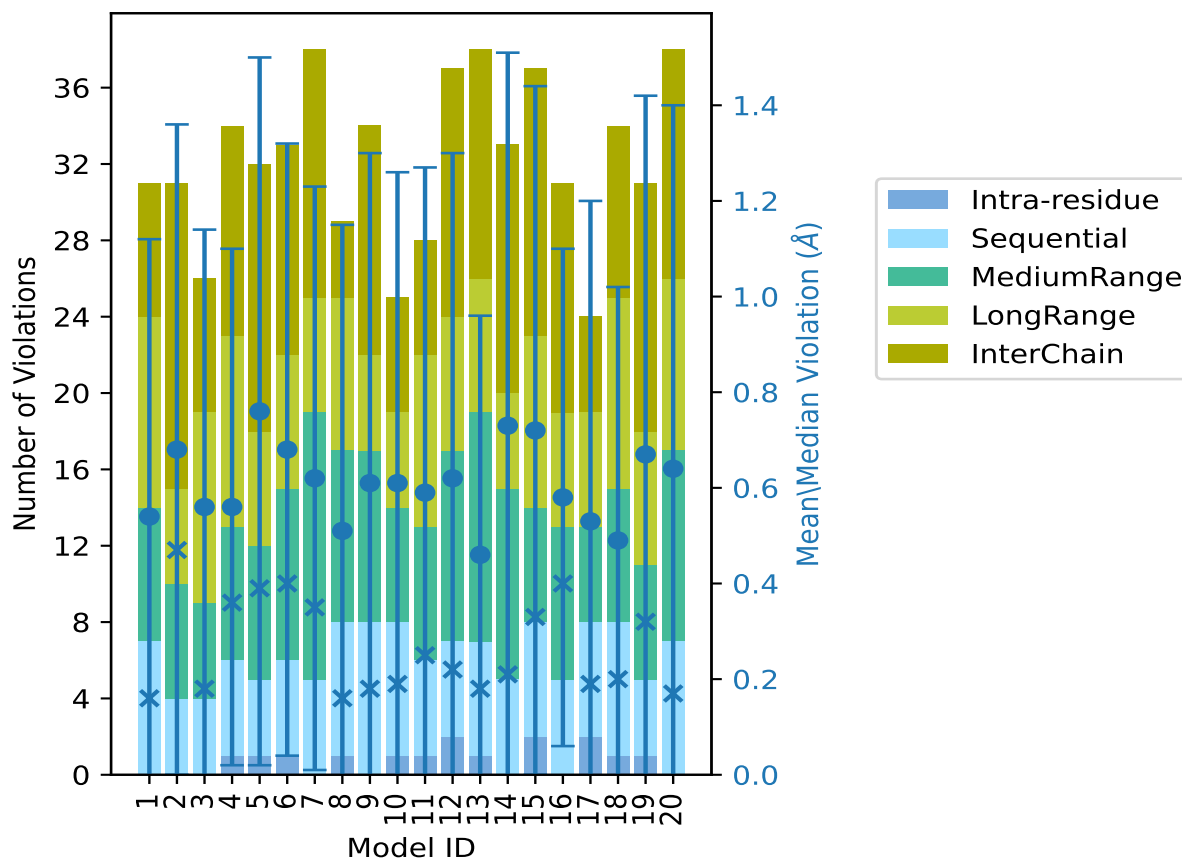
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Model ID	Number of violations					Total	Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵					
12	2	5	10	7	13	37	0.62	3.01	0.68	0.22
13	1	6	12	7	12	38	0.46	2.2	0.5	0.18
14	0	5	10	5	13	33	0.73	2.86	0.78	0.21
15	2	6	6	9	14	37	0.72	2.56	0.72	0.33
16	0	5	8	6	12	31	0.58	2.35	0.52	0.4
17	2	6	5	6	5	24	0.53	2.9	0.67	0.19
18	1	7	7	10	9	34	0.49	2.37	0.53	0.2
19	1	4	6	7	13	31	0.67	3.17	0.75	0.32
20	0	7	10	9	12	38	0.64	3.02	0.76	0.17

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

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



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

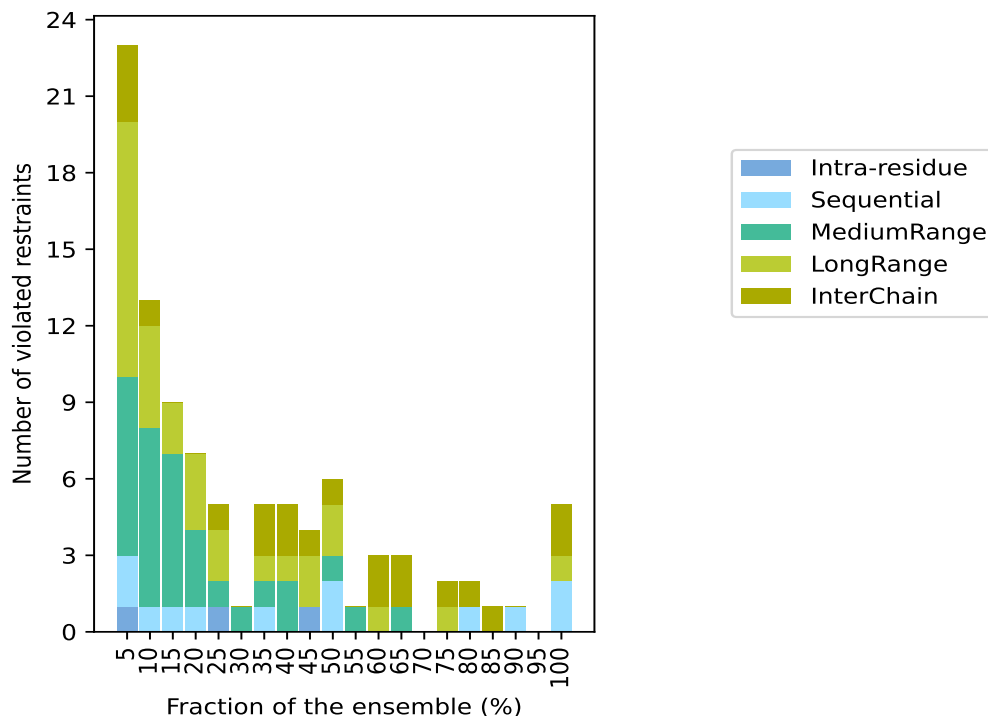
9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 919(IR:113, SQ:243, MR:288, LR:144, IC:131) 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	%
1	2	7	10	3	23	1	5.0
0	1	7	4	1	13	2	10.0
0	1	6	2	0	9	3	15.0
0	1	3	3	0	7	4	20.0
1	0	1	2	1	5	5	25.0
0	0	1	0	0	1	6	30.0
0	1	1	1	2	5	7	35.0
0	0	2	1	2	5	8	40.0
1	0	0	2	1	4	9	45.0
0	2	1	2	1	6	10	50.0
0	0	1	0	0	1	11	55.0
0	0	0	1	2	3	12	60.0
0	0	1	0	2	3	13	65.0
0	0	0	0	0	0	14	70.0
0	0	0	1	1	2	15	75.0
0	1	0	0	1	2	16	80.0
0	0	0	0	1	1	17	85.0
0	1	0	0	0	1	18	90.0
0	0	0	0	0	0	19	95.0
0	2	0	1	2	5	20	100.0

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

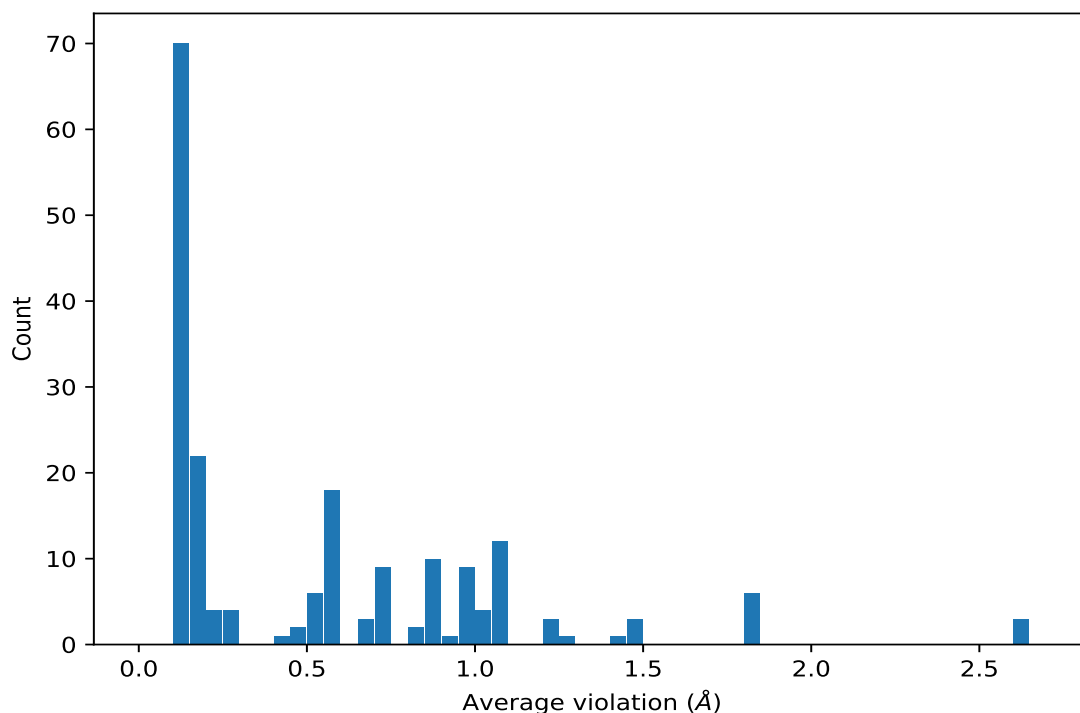
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	20	2.65	0.33	2.63
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	20	2.65	0.33	2.63
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	20	2.65	0.33	2.63
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	20	1.83	0.36	1.78
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	20	1.83	0.36	1.78
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	20	1.83	0.36	1.78
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	20	1.83	0.36	1.78
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	20	1.83	0.36	1.78
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	20	1.83	0.36	1.78
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	20	1.44	0.24	1.48
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	20	1.21	0.24	1.14
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	20	1.21	0.24	1.14
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	20	1.21	0.24	1.14
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	20	0.81	0.14	0.84
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	19	0.15	0.02	0.15
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	18	0.45	0.12	0.46

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	18	0.45	0.12	0.46
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	17	0.89	0.46	1.09
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	17	0.89	0.46	1.09
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	17	0.89	0.46	1.09
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	17	0.89	0.46	1.09
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	17	0.89	0.46	1.09
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	17	0.89	0.46	1.09
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	17	0.89	0.46	1.09
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	17	0.89	0.46	1.09
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	17	0.89	0.46	1.09
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	16	1.49	0.78	1.66
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	16	1.49	0.78	1.66
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	16	1.49	0.78	1.66
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	16	0.86	0.56	0.92
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	15	0.9	0.45	0.81
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	15	0.57	0.18	0.56
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	15	0.57	0.18	0.56
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	15	0.57	0.18	0.56
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	15	0.57	0.18	0.56
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	15	0.57	0.18	0.56
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	15	0.57	0.18	0.56
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	13	1.06	0.4	1.18
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	13	1.06	0.4	1.18
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	13	1.06	0.4	1.18
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	13	1.06	0.4	1.18
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	13	1.06	0.4	1.18
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	13	1.06	0.4	1.18
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	13	1.06	0.4	1.18
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	13	1.06	0.4	1.18
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	13	1.06	0.4	1.18
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	13	0.98	0.56	1.1
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	13	0.98	0.56	1.1
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	13	0.98	0.56	1.1
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	13	0.98	0.56	1.1
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	13	0.98	0.56	1.1
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	13	0.98	0.56	1.1
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	13	0.98	0.56	1.1
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	13	0.98	0.56	1.1
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	13	0.98	0.56	1.1
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	13	0.14	0.02	0.13
(1,905)	1:A:634:VAL:HA	2:B:390:TRP:HZ3	12	0.17	0.04	0.2
(1,50)	1:A:610:MET:HB2	1:A:664:LEU:HA	12	0.15	0.03	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1006)	1:A:656:PHE:HD1	2:B:398:PRO:HG2	12	0.15	0.04	0.14
(1,1006)	1:A:656:PHE:HD2	2:B:398:PRO:HG2	12	0.15	0.04	0.14
(2,49)	1:A:652:ILE:O	2:B:403:LEU:H	12	0.14	0.03	0.12
(1,174)	1:A:620:LEU:HG	1:A:624:LYS:HA	11	0.13	0.01	0.12
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD11	10	1.05	0.42	1.16
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD12	10	1.05	0.42	1.16
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD13	10	1.05	0.42	1.16
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD21	10	1.03	0.36	1.19
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD22	10	1.03	0.36	1.19
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD23	10	1.03	0.36	1.19
(1,53)	1:A:610:MET:HE1	1:A:611:SER:H	10	1.02	0.28	1.06
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG21	10	0.67	0.21	0.72
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG22	10	0.67	0.21	0.72
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG23	10	0.67	0.21	0.72
(2,5)	1:A:613:GLU:O	1:A:617:GLN:H	10	0.18	0.04	0.18
(1,78)	1:A:612:TYR:HB2	1:A:616:ARG:HA	10	0.14	0.02	0.13
(1,78)	1:A:612:TYR:HB3	1:A:616:ARG:HA	10	0.14	0.02	0.13
(1,795)	2:B:394:ARG:H	2:B:395:SER:H	10	0.12	0.01	0.12
(1,55)	1:A:610:MET:HE2	1:A:664:LEU:HA	9	1.25	0.31	1.4
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD11	9	0.52	0.32	0.49
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD12	9	0.52	0.32	0.49
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD13	9	0.52	0.32	0.49
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD11	9	0.52	0.32	0.49
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD12	9	0.52	0.32	0.49
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD13	9	0.52	0.32	0.49
(1,250)	1:A:630:LEU:H	1:A:630:LEU:HD21	9	0.25	0.12	0.26
(1,591)	1:A:659:LEU:HD11	1:A:664:LEU:HA	9	0.13	0.02	0.13
(1,591)	1:A:659:LEU:HD12	1:A:664:LEU:HA	9	0.13	0.02	0.13
(1,591)	1:A:659:LEU:HD13	1:A:664:LEU:HA	9	0.13	0.02	0.13
(1,56)	1:A:610:MET:HE2	1:A:664:LEU:HB2	8	0.84	0.13	0.83
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD11	8	0.72	0.31	0.54
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD12	8	0.72	0.31	0.54
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD13	8	0.72	0.31	0.54
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD11	8	0.72	0.31	0.54
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD12	8	0.72	0.31	0.54
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD13	8	0.72	0.31	0.54
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD11	8	0.72	0.31	0.54
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD12	8	0.72	0.31	0.54
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD13	8	0.72	0.31	0.54
(1,544)	1:A:655:ASP:H	1:A:659:LEU:HD21	8	0.42	0.22	0.38
(1,263)	1:A:630:LEU:HD21	1:A:633:VAL:H	8	0.15	0.03	0.15
(1,263)	1:A:630:LEU:HD22	1:A:633:VAL:H	8	0.15	0.03	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,263)	1:A:630:LEU:HD23	1:A:633:VAL:H	8	0.15	0.03	0.15
(1,941)	1:A:652:ILE:HA	2:B:403:LEU:HB2	8	0.14	0.02	0.13
(1,780)	2:B:392:VAL:HB	2:B:403:LEU:HA	7	0.25	0.06	0.22
(1,918)	1:A:648:ASN:HD22	2:B:404:THR:HA	7	0.18	0.05	0.17
(1,735)	2:B:390:TRP:H	2:B:391:ARG:H	7	0.13	0.0	0.13
(1,868)	1:A:612:TYR:HB2	2:B:398:PRO:HG3	7	0.12	0.02	0.12
(1,868)	1:A:612:TYR:HB3	2:B:398:PRO:HG3	7	0.12	0.02	0.12
(1,821)	2:B:397:ASN:HA	2:B:400:LYS:H	7	0.12	0.01	0.12
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD21	6	0.15	0.03	0.15
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD22	6	0.15	0.03	0.15
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD23	6	0.15	0.03	0.15
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD21	6	0.15	0.03	0.15
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD22	6	0.15	0.03	0.15
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD23	6	0.15	0.03	0.15
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD11	5	0.58	0.04	0.59
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD12	5	0.58	0.04	0.59
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD13	5	0.58	0.04	0.59
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD11	5	0.58	0.04	0.59
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD12	5	0.58	0.04	0.59
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD13	5	0.58	0.04	0.59
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD11	5	0.58	0.04	0.59
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD12	5	0.58	0.04	0.59
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD13	5	0.58	0.04	0.59
(1,328)	1:A:634:VAL:HG21	1:A:638:GLN:HG2	5	0.17	0.04	0.17
(1,328)	1:A:634:VAL:HG21	1:A:638:GLN:HG3	5	0.17	0.04	0.17
(1,328)	1:A:634:VAL:HG22	1:A:638:GLN:HG2	5	0.17	0.04	0.17
(1,328)	1:A:634:VAL:HG22	1:A:638:GLN:HG3	5	0.17	0.04	0.17
(1,328)	1:A:634:VAL:HG23	1:A:638:GLN:HG2	5	0.17	0.04	0.17
(1,328)	1:A:634:VAL:HG23	1:A:638:GLN:HG3	5	0.17	0.04	0.17
(1,755)	2:B:390:TRP:HZ3	2:B:404:THR:HB	5	0.15	0.03	0.15
(1,434)	1:A:638:GLN:HG2	1:A:652:ILE:HB	5	0.14	0.01	0.14
(1,434)	1:A:638:GLN:HG3	1:A:652:ILE:HB	5	0.14	0.01	0.14
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD21	5	0.13	0.02	0.12
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD22	5	0.13	0.02	0.12
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD23	5	0.13	0.02	0.12
(1,81)	1:A:613:GLU:H	1:A:616:ARG:HG2	4	0.28	0.01	0.28
(1,81)	1:A:613:GLU:H	1:A:616:ARG:HG3	4	0.28	0.01	0.28
(1,57)	1:A:610:MET:HE2	1:A:665:ARG:H	4	0.22	0.08	0.22
(1,366)	1:A:636:ILE:HG13	1:A:667:LEU:HB3	4	0.18	0.04	0.16
(2,7)	1:A:614:GLU:O	1:A:618:LEU:H	4	0.16	0.04	0.16
(1,605)	1:A:660:LYS:HA	1:A:663:THR:HB	4	0.15	0.01	0.15
(1,356)	1:A:636:ILE:HB	1:A:663:THR:HA	4	0.13	0.02	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,34)	1:A:608:LYS:HA	1:A:609:PRO:HB2	4	0.12	0.01	0.12
(1,117)	1:A:617:GLN:HA	1:A:620:LEU:HG	4	0.12	0.01	0.11
(2,33)	1:A:631:GLY:O	1:A:635:HIS:H	4	0.11	0.0	0.11
(1,590)	1:A:659:LEU:HD11	1:A:663:THR:HG23	3	0.55	0.46	0.26
(1,590)	1:A:659:LEU:HD12	1:A:663:THR:HG23	3	0.55	0.46	0.26
(1,590)	1:A:659:LEU:HD13	1:A:663:THR:HG23	3	0.55	0.46	0.26
(1,138)	1:A:618:LEU:HD21	1:A:656:PHE:HZ	3	0.23	0.11	0.17
(1,138)	1:A:618:LEU:HD22	1:A:656:PHE:HZ	3	0.23	0.11	0.17
(1,138)	1:A:618:LEU:HD23	1:A:656:PHE:HZ	3	0.23	0.11	0.17
(1,482)	1:A:646:ASN:HB2	1:A:649:PRO:HD2	3	0.19	0.07	0.14
(1,482)	1:A:646:ASN:HB2	1:A:649:PRO:HD3	3	0.19	0.07	0.14
(1,482)	1:A:646:ASN:HB3	1:A:649:PRO:HD2	3	0.19	0.07	0.14
(1,482)	1:A:646:ASN:HB3	1:A:649:PRO:HD3	3	0.19	0.07	0.14
(1,108)	1:A:616:ARG:HG2	1:A:618:LEU:H	3	0.16	0.03	0.17
(1,108)	1:A:616:ARG:HG3	1:A:618:LEU:H	3	0.16	0.03	0.17
(1,331)	1:A:634:VAL:HG21	1:A:638:GLN:HB2	3	0.15	0.04	0.13
(1,331)	1:A:634:VAL:HG21	1:A:638:GLN:HB3	3	0.15	0.04	0.13
(1,331)	1:A:634:VAL:HG22	1:A:638:GLN:HB2	3	0.15	0.04	0.13
(1,331)	1:A:634:VAL:HG22	1:A:638:GLN:HB3	3	0.15	0.04	0.13
(1,331)	1:A:634:VAL:HG23	1:A:638:GLN:HB2	3	0.15	0.04	0.13
(1,331)	1:A:634:VAL:HG23	1:A:638:GLN:HB3	3	0.15	0.04	0.13
(1,747)	2:B:390:TRP:HE1	2:B:405:ARG:HB2	3	0.14	0.02	0.14
(1,747)	2:B:390:TRP:HE1	2:B:405:ARG:HB3	3	0.14	0.02	0.14
(1,820)	2:B:397:ASN:HA	2:B:399:LEU:H	3	0.13	0.03	0.12
(1,513)	1:A:650:ASP:HA	1:A:651:GLU:H	3	0.13	0.01	0.12
(1,268)	1:A:630:LEU:HB2	1:A:634:VAL:HB	3	0.11	0.0	0.11
(1,268)	1:A:630:LEU:HB3	1:A:634:VAL:HB	3	0.11	0.0	0.11
(1,601)	1:A:660:LYS:H	1:A:664:LEU:HB2	2	0.16	0.02	0.16
(2,1)	1:A:611:SER:O	1:A:615:LYS:H	2	0.16	0.04	0.16
(1,548)	1:A:655:ASP:HA	1:A:659:LEU:HD21	2	0.16	0.04	0.16
(1,548)	1:A:655:ASP:HA	1:A:659:LEU:HD22	2	0.16	0.04	0.16
(1,548)	1:A:655:ASP:HA	1:A:659:LEU:HD23	2	0.16	0.04	0.16
(1,525)	1:A:652:ILE:HD11	1:A:654:ILE:HB	2	0.15	0.02	0.15
(1,525)	1:A:652:ILE:HD12	1:A:654:ILE:HB	2	0.15	0.02	0.15
(1,525)	1:A:652:ILE:HD13	1:A:654:ILE:HB	2	0.15	0.02	0.15
(1,323)	1:A:634:VAL:HB	1:A:652:ILE:HG12	2	0.14	0.02	0.14
(1,323)	1:A:634:VAL:HB	1:A:652:ILE:HG13	2	0.14	0.02	0.14
(1,400)	1:A:637:ILE:HD11	1:A:663:THR:HB	2	0.14	0.01	0.14
(1,400)	1:A:637:ILE:HD12	1:A:663:THR:HB	2	0.14	0.01	0.14
(1,400)	1:A:637:ILE:HD13	1:A:663:THR:HB	2	0.14	0.01	0.14
(1,595)	1:A:659:LEU:HG	1:A:663:THR:HB	2	0.14	0.02	0.14
(1,917)	1:A:638:GLN:HE22	2:B:405:ARG:HG2	2	0.14	0.01	0.14

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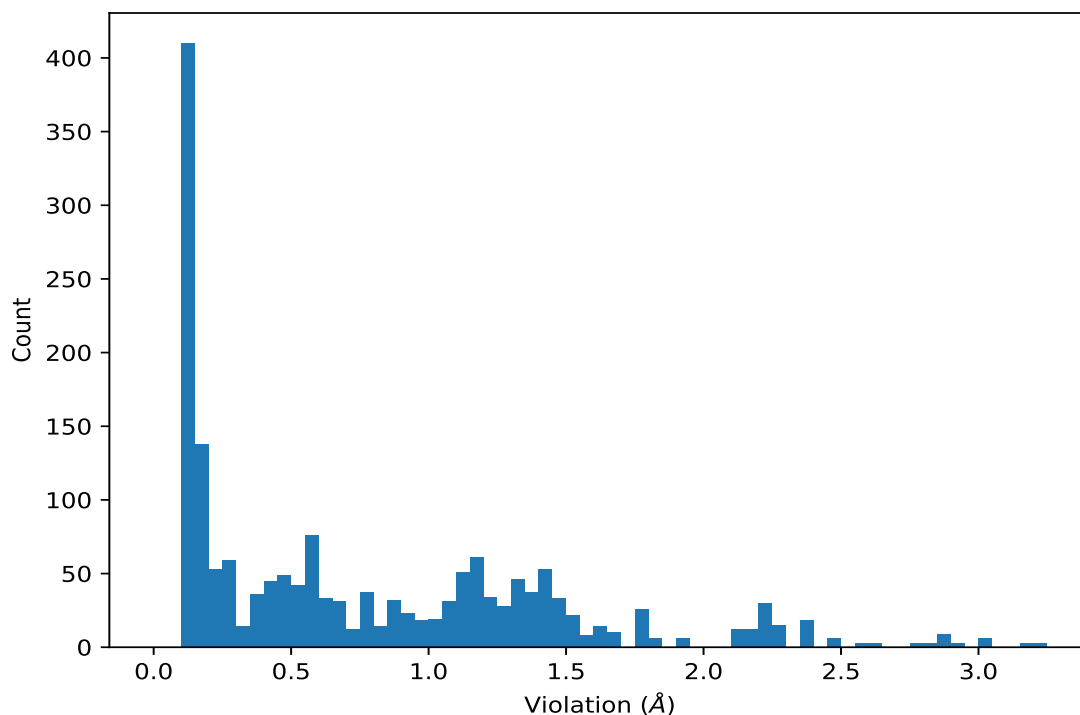
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,917)	1:A:638:GLN:HE22	2:B:405:ARG:HG3	2	0.14	0.01	0.14
(1,109)	1:A:616:ARG:HG2	1:A:619:SER:H	2	0.12	0.01	0.12
(1,109)	1:A:616:ARG:HG3	1:A:619:SER:H	2	0.12	0.01	0.12
(1,193)	1:A:622:ILE:HB	1:A:671:VAL:HB	2	0.12	0.01	0.12
(1,449)	1:A:641:GLU:HA	1:A:659:LEU:HG	2	0.12	0.01	0.12
(1,492)	1:A:648:ASN:HA	1:A:651:GLU:HB2	2	0.12	0.0	0.12
(1,492)	1:A:648:ASN:HA	1:A:651:GLU:HB3	2	0.12	0.0	0.12
(1,687)	1:A:671:VAL:HB	1:A:672:THR:HA	2	0.12	0.0	0.12
(1,688)	1:A:671:VAL:HB	1:A:675:LEU:HB2	2	0.12	0.0	0.12
(2,37)	1:A:633:VAL:O	1:A:637:ILE:H	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	11	3.25
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	11	3.25
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	11	3.25
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	19	3.17
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	19	3.17
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	19	3.17
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	20	3.02
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	20	3.02
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	20	3.02
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	12	3.01
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	12	3.01
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	12	3.01
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	8	2.91
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	8	2.91
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	8	2.91
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	17	2.9
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	17	2.9
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	17	2.9
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	5	2.87
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	5	2.87
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	5	2.87
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	14	2.86
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	14	2.86
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	14	2.86
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	9	2.81
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	9	2.81
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	9	2.81
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	10	2.8
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	10	2.8
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	10	2.8
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	14	2.61
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	14	2.61
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	14	2.61
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	15	2.56
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	15	2.56
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	15	2.56
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	15	2.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	15	2.46
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	15	2.46
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	2	2.45
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	2	2.45
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	2	2.45
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	1	2.39
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	1	2.39
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	1	2.39
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	18	2.37
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	18	2.37
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	18	2.37
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	20	2.35
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	20	2.35
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	20	2.35
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	4	2.35
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	4	2.35
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	4	2.35
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	7	2.35
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	7	2.35
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	7	2.35
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	16	2.35
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	16	2.35
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	16	2.35
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	5	2.25
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	5	2.25
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	5	2.25
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	5	2.25
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	5	2.25
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	5	2.25
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	12	2.25
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	12	2.25
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	12	2.25
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	12	2.25
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	12	2.25
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	12	2.25
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	3	2.25
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	3	2.25
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	3	2.25
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	20	2.24
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	20	2.24
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	20	2.24
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	20	2.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	20	2.24
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	20	2.24
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	5	2.23
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	5	2.23
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	5	2.23
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	6	2.22
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	6	2.22
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	6	2.22
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	19	2.21
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	19	2.21
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	19	2.21
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	19	2.21
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	19	2.21
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	19	2.21
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	19	2.2
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	19	2.2
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	19	2.2
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	6	2.2
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	6	2.2
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	6	2.2
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	6	2.2
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	6	2.2
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	6	2.2
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD11	13	2.2
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD12	13	2.2
(1,801)	2:B:394:ARG:HA	2:B:401:ILE:HD13	13	2.2
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	2	2.19
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	2	2.19
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	2	2.19
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	2	2.19
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	2	2.19
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	2	2.19
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	7	2.19
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	7	2.19
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	7	2.19
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	7	2.19
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	7	2.19
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	7	2.19
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	15	2.14
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	15	2.14
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	15	2.14
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	15	2.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	15	2.14
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	15	2.14
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	9	2.1
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	9	2.1
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	9	2.1
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	9	2.1
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	9	2.1
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	9	2.1
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	2	1.93
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	2	1.93
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	2	1.93
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	6	1.91
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	6	1.91
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	6	1.91
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	14	1.8
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	14	1.8
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	14	1.8
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	14	1.8
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	14	1.8
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	14	1.8
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	20	1.78
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	14	1.77
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	14	1.77
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	14	1.77
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	14	1.77
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	14	1.77
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	14	1.77
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	14	1.77
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	14	1.77
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	14	1.77
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	4	1.77
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	4	1.77
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	4	1.77
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	4	1.77
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	4	1.77
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	4	1.77
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	15	1.75
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	15	1.75
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	15	1.75
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	15	1.75
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	15	1.75
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	15	1.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	15	1.75
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	15	1.75
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	15	1.75
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	14	1.75
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	16	1.69
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	16	1.69
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	16	1.69
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	16	1.69
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	16	1.69
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	16	1.69
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	9	1.69
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	12	1.67
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	12	1.67
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	12	1.67
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	7	1.65
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	7	1.65
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	7	1.65
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	13	1.61
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	13	1.61
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	13	1.61
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	13	1.61
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	13	1.61
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	13	1.61
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD11	14	1.6
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD12	14	1.6
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD13	14	1.6
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	11	1.6
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	1	1.6
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	3	1.59
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	9	1.59
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	5	1.57
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	8	1.57
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	15	1.57
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	17	1.56
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	1	1.55
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	2	1.55
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	9	1.54
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	12	1.53
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	12	1.53
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	12	1.53
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	12	1.53
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	12	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	12	1.53
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	12	1.53
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	12	1.53
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	12	1.53
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	20	1.52
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	20	1.52
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	20	1.52
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	20	1.52
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	20	1.52
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	20	1.52
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	20	1.52
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	20	1.52
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	20	1.52
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	6	1.51
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	6	1.51
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	6	1.51
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	1	1.49
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	1	1.49
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	1	1.49
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	1	1.49
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	1	1.49
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	1	1.49
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	7	1.49
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	7	1.49
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	7	1.49
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	13	1.49
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	18	1.48
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD11	15	1.47
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD12	15	1.47
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD13	15	1.47
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	14	1.47
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	14	1.47
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	14	1.47
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	14	1.47
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	14	1.47
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	14	1.47
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	14	1.47
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	14	1.47
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	14	1.47
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	2	1.47
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	2	1.47
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	2	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	12	1.47
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	12	1.47
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	12	1.47
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	20	1.47
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	20	1.47
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	20	1.47
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	7	1.47
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	15	1.45
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	15	1.45
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	15	1.45
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	15	1.45
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	15	1.45
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	15	1.45
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	15	1.45
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	15	1.45
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	15	1.45
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	3	1.45
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	3	1.45
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	3	1.45
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	3	1.45
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	3	1.45
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	3	1.45
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	18	1.45
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	18	1.45
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	18	1.45
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	18	1.45
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	18	1.45
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	18	1.45
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	5	1.45
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	5	1.45
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	5	1.45
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	10	1.45
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	9	1.44
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	9	1.44
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	9	1.44
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	16	1.44
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	6	1.44
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	19	1.43
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	19	1.43
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	19	1.43
(1,55)	1:A:610:MET:HE2	1:A:664:LEU:HA	11	1.43
(1,55)	1:A:610:MET:HE2	1:A:664:LEU:HA	14	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	17	1.42
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	17	1.42
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	17	1.42
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	17	1.42
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	17	1.42
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	17	1.42
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	14	1.41
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	14	1.41
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	14	1.41
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	14	1.41
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	14	1.41
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	14	1.41
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	14	1.41
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	14	1.41
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	14	1.41
(1,55)	1:A:610:MET:HE2	1:A:664:LEU:HA	4	1.41
(1,55)	1:A:610:MET:HE2	1:A:664:LEU:HA	15	1.41
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	7	1.41
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD21	8	1.4
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD22	8	1.4
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD23	8	1.4
(1,55)	1:A:610:MET:HE2	1:A:664:LEU:HA	3	1.4
(1,53)	1:A:610:MET:HE1	1:A:611:SER:H	20	1.4
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	5	1.39
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	5	1.39
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	5	1.39
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	5	1.39
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	5	1.39
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	5	1.39
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	5	1.39
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	5	1.39
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	5	1.39
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	15	1.39
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	15	1.39
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	15	1.39
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	12	1.38
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	11	1.37
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	11	1.37
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	11	1.37
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	11	1.37
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	11	1.37
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	11	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	5	1.37
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD21	10	1.36
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD22	10	1.36
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD23	10	1.36
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD21	17	1.36
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD22	17	1.36
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD23	17	1.36
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	10	1.35
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	10	1.35
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	10	1.35
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	10	1.35
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	10	1.35
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	10	1.35
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD11	8	1.34
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD12	8	1.34
(1,947)	1:A:652:ILE:HG12	2:B:403:LEU:HD13	8	1.34
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD11	8	1.34
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD12	8	1.34
(1,947)	1:A:652:ILE:HG13	2:B:403:LEU:HD13	8	1.34
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	2	1.34
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD11	5	1.33
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD12	5	1.33
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD13	5	1.33
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD11	20	1.33
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD12	20	1.33
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD13	20	1.33
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	20	1.33
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	20	1.33
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	20	1.33
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	20	1.33
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	20	1.33
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	20	1.33
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	20	1.33
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	20	1.33
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	20	1.33
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	4	1.33
(1,55)	1:A:610:MET:HE2	1:A:664:LEU:HA	18	1.33
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	5	1.32
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	5	1.32
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	5	1.32
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	5	1.32
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	5	1.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	5	1.32
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	5	1.32
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	5	1.32
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	5	1.32
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	19	1.32
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	19	1.32
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	19	1.32
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	19	1.32
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	19	1.32
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	19	1.32
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	19	1.32
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	19	1.32
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	19	1.32
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	20	1.32
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD11	19	1.31
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD12	19	1.31
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD13	19	1.31
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	19	1.29
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	19	1.29
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	19	1.29
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	19	1.29
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	19	1.29
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	19	1.29
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	19	1.29
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	19	1.29
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	19	1.29
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	7	1.27
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	7	1.27
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	7	1.27
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	7	1.27
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	7	1.27
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	7	1.27
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	7	1.27
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	7	1.27
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	7	1.27
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD21	11	1.27
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD22	11	1.27
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD23	11	1.27
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	6	1.27
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD21	18	1.26
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD22	18	1.26
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD23	18	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:A:610:MET:HE2	1:A:664:LEU:HA	5	1.26
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	10	1.26
(1,53)	1:A:610:MET:HE1	1:A:611:SER:H	10	1.25
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	12	1.24
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	12	1.24
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	12	1.24
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	12	1.24
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	12	1.24
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	12	1.24
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	12	1.24
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	12	1.24
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	12	1.24
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	5	1.23
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	5	1.23
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	5	1.23
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	5	1.23
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	5	1.23
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	5	1.23
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	5	1.23
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	5	1.23
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	5	1.23
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD11	13	1.22
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD12	13	1.22
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD13	13	1.22
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD11	13	1.22
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD12	13	1.22
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD13	13	1.22
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD11	13	1.22
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD12	13	1.22
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD13	13	1.22
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD11	15	1.21
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD12	15	1.21
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD13	15	1.21
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD11	15	1.21
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD12	15	1.21
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD13	15	1.21
(1,55)	1:A:610:MET:HE2	1:A:664:LEU:HA	12	1.21
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	2	1.2
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	2	1.2
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	2	1.2
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	2	1.2
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	2	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	2	1.2
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	2	1.2
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	2	1.2
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	2	1.2
(1,590)	1:A:659:LEU:HD11	1:A:663:THR:HG23	6	1.2
(1,590)	1:A:659:LEU:HD12	1:A:663:THR:HG23	6	1.2
(1,590)	1:A:659:LEU:HD13	1:A:663:THR:HG23	6	1.2
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	9	1.18
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	9	1.18
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	9	1.18
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	6	1.18
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	6	1.18
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	6	1.18
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	6	1.18
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	6	1.18
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	6	1.18
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	6	1.18
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	6	1.18
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	6	1.18
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	9	1.18
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	9	1.18
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	9	1.18
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	9	1.18
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	9	1.18
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	9	1.18
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	9	1.18
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	9	1.18
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	9	1.18
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	9	1.18
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	9	1.18
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	9	1.18
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	9	1.18
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	9	1.18
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	9	1.18
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	9	1.18
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	9	1.18
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	9	1.18
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	6	1.17
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	6	1.17
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	6	1.17
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	6	1.17
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	6	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	6	1.17
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	6	1.17
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	6	1.17
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	6	1.17
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	7	1.17
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	19	1.16
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	19	1.16
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	19	1.16
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	19	1.16
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	19	1.16
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	19	1.16
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	19	1.16
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	19	1.16
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	19	1.16
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	4	1.15
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	4	1.15
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	4	1.15
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	6	1.15
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	6	1.15
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	6	1.15
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	6	1.15
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	6	1.15
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	6	1.15
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	6	1.15
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	6	1.15
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	6	1.15
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	20	1.15
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	20	1.15
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	20	1.15
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	20	1.15
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	20	1.15
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	20	1.15
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	20	1.15
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	20	1.15
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	20	1.15
(1,53)	1:A:610:MET:HE1	1:A:611:SER:H	6	1.15
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	13	1.13
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	13	1.13
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	13	1.13
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	14	1.13
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	14	1.13
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	14	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD11	4	1.13
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD12	4	1.13
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD13	4	1.13
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD11	4	1.13
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD12	4	1.13
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD13	4	1.13
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD11	4	1.13
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD12	4	1.13
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD13	4	1.13
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD21	3	1.12
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD22	3	1.12
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD23	3	1.12
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	12	1.11
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	2	1.1
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	2	1.1
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	2	1.1
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	2	1.1
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	2	1.1
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	2	1.1
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	2	1.1
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	2	1.1
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	2	1.1
(1,53)	1:A:610:MET:HE1	1:A:611:SER:H	13	1.1
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	2	1.09
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	2	1.09
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	2	1.09
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	2	1.09
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	2	1.09
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	2	1.09
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	2	1.09
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	2	1.09
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	2	1.09
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	15	1.08
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	15	1.08
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	15	1.08
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	15	1.08
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	15	1.08
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	15	1.08
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	15	1.08
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	15	1.08
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	15	1.08
(1,53)	1:A:610:MET:HE1	1:A:611:SER:H	16	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	7	1.07
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	7	1.07
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	7	1.07
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	7	1.07
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	7	1.07
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	7	1.07
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	7	1.07
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	7	1.07
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	7	1.07
(1,56)	1:A:610:MET:HE2	1:A:664:LEU:HB2	15	1.07
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	15	1.06
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	1	1.05
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD21	1	1.04
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD22	1	1.04
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD23	1	1.04
(1,53)	1:A:610:MET:HE1	1:A:611:SER:H	8	1.04
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	8	1.03
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	3	1.02
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	3	1.02
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	3	1.02
(1,53)	1:A:610:MET:HE1	1:A:611:SER:H	7	1.02
(1,53)	1:A:610:MET:HE1	1:A:611:SER:H	19	1.02
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD11	2	1.01
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD12	2	1.01
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD13	2	1.01
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	18	1.01
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	18	1.01
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	18	1.01
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	17	1.0
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	17	1.0
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	17	1.0
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	10	0.99
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	10	0.99
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	10	0.99
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	16	0.98
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	16	0.98
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	16	0.98
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG21	2	0.97
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG22	2	0.97
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG23	2	0.97
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	7	0.96
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	7	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	7	0.96
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	7	0.96
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	7	0.96
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	7	0.96
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	7	0.96
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	7	0.96
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	7	0.96
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD11	16	0.95
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD12	16	0.95
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD13	16	0.95
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD11	16	0.95
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD12	16	0.95
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD13	16	0.95
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD11	16	0.95
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD12	16	0.95
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD13	16	0.95
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	1	0.94
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	1	0.94
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	1	0.94
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	9	0.94
(1,56)	1:A:610:MET:HE2	1:A:664:LEU:HB2	3	0.94
(1,56)	1:A:610:MET:HE2	1:A:664:LEU:HB2	14	0.93
(1,53)	1:A:610:MET:HE1	1:A:611:SER:H	1	0.92
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	8	0.91
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	11	0.91
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	14	0.91
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD11	6	0.9
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD12	6	0.9
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD13	6	0.9
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	17	0.9
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	8	0.89
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	8	0.89
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	8	0.89
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG21	18	0.89
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG22	18	0.89
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG23	18	0.89
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	3	0.89
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	12	0.88
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	12	0.88
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	12	0.88
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	12	0.88
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	12	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	12	0.88
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	12	0.88
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	12	0.88
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	12	0.88
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	13	0.88
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	13	0.88
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	13	0.88
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	13	0.88
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	13	0.88
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	13	0.88
(1,544)	1:A:655:ASP:H	1:A:659:LEU:HD21	16	0.88
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG21	1	0.87
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG22	1	0.87
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG23	1	0.87
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	1	0.87
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	15	0.87
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	4	0.86
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	4	0.86
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	4	0.86
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	5	0.86
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	13	0.85
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	16	0.84
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	16	0.84
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	16	0.84
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	7	0.84
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	16	0.84
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	18	0.84
(1,56)	1:A:610:MET:HE2	1:A:664:LEU:HB2	11	0.84
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	13	0.82
(1,56)	1:A:610:MET:HE2	1:A:664:LEU:HB2	4	0.82
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	5	0.82
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	10	0.81
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	19	0.81
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	3	0.8
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG21	4	0.79
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG22	4	0.79
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG23	4	0.79
(1,56)	1:A:610:MET:HE2	1:A:664:LEU:HB2	5	0.79
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	2	0.78
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	4	0.77
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	4	0.77
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	4	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	4	0.77
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	4	0.77
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	4	0.77
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	4	0.77
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	4	0.77
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	4	0.77
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD11	11	0.76
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD12	11	0.76
(1,944)	1:A:652:ILE:HB	2:B:403:LEU:HD13	11	0.76
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	4	0.76
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	4	0.76
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	4	0.76
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	4	0.76
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	4	0.76
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	4	0.76
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	6	0.76
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	6	0.76
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	6	0.76
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	6	0.76
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	6	0.76
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	6	0.76
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	12	0.76
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	12	0.76
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	12	0.76
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	12	0.76
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	12	0.76
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	12	0.76
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	12	0.76
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	16	0.75
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG21	16	0.74
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG22	16	0.74
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG23	16	0.74
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	4	0.73
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	20	0.73
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	6	0.72
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD11	9	0.71
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD12	9	0.71
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD13	9	0.71
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD11	9	0.71
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD12	9	0.71
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD13	9	0.71
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	14	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	14	0.7
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	14	0.7
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	14	0.7
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	14	0.7
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	14	0.7
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG21	11	0.69
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG22	11	0.69
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG23	11	0.69
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD11	14	0.68
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD12	14	0.68
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD13	14	0.68
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD11	14	0.68
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD12	14	0.68
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD13	14	0.68
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD11	7	0.68
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD12	7	0.68
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD13	7	0.68
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	4	0.68
(1,56)	1:A:610:MET:HE2	1:A:664:LEU:HB2	12	0.66
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD11	12	0.65
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD12	12	0.65
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD13	12	0.65
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	7	0.65
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	7	0.65
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	7	0.65
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	7	0.65
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	7	0.65
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	7	0.65
(1,56)	1:A:610:MET:HE2	1:A:664:LEU:HB2	18	0.65
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	10	0.65
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD11	11	0.64
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD12	11	0.64
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD13	11	0.64
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD11	11	0.64
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD12	11	0.64
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD13	11	0.64
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD11	11	0.64
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD12	11	0.64
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD13	11	0.64
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	3	0.64
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	3	0.64
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	3	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	3	0.64
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	3	0.64
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	3	0.64
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD21	16	0.64
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD22	16	0.64
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD23	16	0.64
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	11	0.64
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	11	0.64
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	16	0.63
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	16	0.63
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	16	0.63
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	16	0.63
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	16	0.63
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	16	0.63
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	16	0.63
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	16	0.63
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	16	0.63
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	7	0.63
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	7	0.63
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	16	0.62
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	16	0.62
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD11	10	0.59
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD12	10	0.59
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD13	10	0.59
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD11	10	0.59
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD12	10	0.59
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD13	10	0.59
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD11	10	0.59
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD12	10	0.59
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD13	10	0.59
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD11	17	0.59
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD12	17	0.59
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD13	17	0.59
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD11	17	0.59
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD12	17	0.59
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD13	17	0.59
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD11	17	0.59
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD12	17	0.59
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD13	17	0.59
(1,544)	1:A:655:ASP:H	1:A:659:LEU:HD21	15	0.59
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	13	0.58
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	13	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	13	0.58
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD11	8	0.58
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD12	8	0.58
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD13	8	0.58
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD11	8	0.58
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD12	8	0.58
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD13	8	0.58
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD11	8	0.58
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD12	8	0.58
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD13	8	0.58
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD11	20	0.57
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD12	20	0.57
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD13	20	0.57
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD11	20	0.57
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD12	20	0.57
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD13	20	0.57
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	13	0.57
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	13	0.57
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	13	0.57
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	13	0.57
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	13	0.57
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	13	0.57
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	13	0.57
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	13	0.57
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	13	0.57
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD11	9	0.57
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD12	9	0.57
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD13	9	0.57
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD11	9	0.57
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD12	9	0.57
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD13	9	0.57
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD11	9	0.57
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD12	9	0.57
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD13	9	0.57
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	1	0.56
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	1	0.56
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	1	0.56
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	4	0.56
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	4	0.56
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	4	0.56
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	4	0.56
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	4	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	4	0.56
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	4	0.56
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	4	0.56
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	4	0.56
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	9	0.56
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	9	0.56
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	9	0.56
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	9	0.56
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	9	0.56
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	9	0.56
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	15	0.56
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	15	0.56
(1,730)	2:B:389:THR:HG21	2:B:390:TRP:HD1	19	0.55
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	2	0.54
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	2	0.54
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	2	0.54
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	2	0.54
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	2	0.54
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	2	0.54
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	2	0.54
(1,988)	1:A:654:ILE:HD11	2:B:403:LEU:HD11	7	0.52
(1,988)	1:A:654:ILE:HD11	2:B:403:LEU:HD12	7	0.52
(1,988)	1:A:654:ILE:HD11	2:B:403:LEU:HD13	7	0.52
(1,988)	1:A:654:ILE:HD12	2:B:403:LEU:HD11	7	0.52
(1,988)	1:A:654:ILE:HD12	2:B:403:LEU:HD12	7	0.52
(1,988)	1:A:654:ILE:HD12	2:B:403:LEU:HD13	7	0.52
(1,988)	1:A:654:ILE:HD13	2:B:403:LEU:HD11	7	0.52
(1,988)	1:A:654:ILE:HD13	2:B:403:LEU:HD12	7	0.52
(1,988)	1:A:654:ILE:HD13	2:B:403:LEU:HD13	7	0.52
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD11	7	0.52
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD12	7	0.52
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD13	7	0.52
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD11	7	0.52
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD12	7	0.52
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD13	7	0.52
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD11	7	0.52
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD12	7	0.52
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD13	7	0.52
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	10	0.52
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	10	0.52
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	20	0.52
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	20	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD11	18	0.51
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD12	18	0.51
(1,909)	1:A:634:VAL:HG11	2:B:403:LEU:HD13	18	0.51
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD11	18	0.51
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD12	18	0.51
(1,909)	1:A:634:VAL:HG12	2:B:403:LEU:HD13	18	0.51
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD11	18	0.51
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD12	18	0.51
(1,909)	1:A:634:VAL:HG13	2:B:403:LEU:HD13	18	0.51
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	2	0.51
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	2	0.51
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	9	0.5
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	9	0.5
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD11	19	0.49
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD12	19	0.49
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD13	19	0.49
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD11	19	0.49
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD12	19	0.49
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD13	19	0.49
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	18	0.48
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	18	0.48
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	18	0.48
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD11	12	0.48
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD12	12	0.48
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD13	12	0.48
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD11	12	0.48
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD12	12	0.48
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD13	12	0.48
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD11	12	0.48
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD12	12	0.48
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD13	12	0.48
(1,544)	1:A:655:ASP:H	1:A:659:LEU:HD21	5	0.48
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	15	0.48
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD11	2	0.47
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD12	2	0.47
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD13	2	0.47
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD11	2	0.47
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD12	2	0.47
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD13	2	0.47
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD11	2	0.47
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD12	2	0.47
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD13	2	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG21	6	0.47
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG22	6	0.47
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG23	6	0.47
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG21	7	0.47
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG22	7	0.47
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG23	7	0.47
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	12	0.47
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	12	0.47
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	1	0.46
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	1	0.46
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	1	0.46
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	1	0.46
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	1	0.46
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	1	0.46
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD21	4	0.45
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD22	4	0.45
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD23	4	0.45
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	18	0.45
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	18	0.45
(1,250)	1:A:630:LEU:H	1:A:630:LEU:HD21	12	0.45
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG21	13	0.43
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG22	13	0.43
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG23	13	0.43
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD21	13	0.43
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD22	13	0.43
(1,789)	2:B:393:GLN:H	2:B:403:LEU:HD23	13	0.43
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	13	0.43
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD11	5	0.42
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD12	5	0.42
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD13	5	0.42
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD11	5	0.42
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD12	5	0.42
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD13	5	0.42
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	8	0.42
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	8	0.42
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	16	0.41
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	16	0.41
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	16	0.41
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	16	0.41
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	16	0.41
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	16	0.41
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	16	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	16	0.41
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	16	0.41
(1,60)	1:A:610:MET:HE3	1:A:618:LEU:HD21	7	0.41
(1,60)	1:A:610:MET:HE3	1:A:618:LEU:HD22	7	0.41
(1,60)	1:A:610:MET:HE3	1:A:618:LEU:HD23	7	0.41
(1,544)	1:A:655:ASP:H	1:A:659:LEU:HD21	19	0.41
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD11	6	0.4
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD12	6	0.4
(1,913)	1:A:634:VAL:HG21	2:B:403:LEU:HD13	6	0.4
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD11	6	0.4
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD12	6	0.4
(1,913)	1:A:634:VAL:HG22	2:B:403:LEU:HD13	6	0.4
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD11	6	0.4
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD12	6	0.4
(1,913)	1:A:634:VAL:HG23	2:B:403:LEU:HD13	6	0.4
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	16	0.4
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	16	0.4
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	16	0.4
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	16	0.4
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	16	0.4
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	16	0.4
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	6	0.4
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	6	0.4
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	4	0.39
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	4	0.39
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	4	0.39
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	4	0.39
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	4	0.39
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	4	0.39
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	4	0.39
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	4	0.39
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	4	0.39
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	15	0.39
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	15	0.39
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	15	0.39
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	15	0.39
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	15	0.39
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	15	0.39
(1,55)	1:A:610:MET:HE2	1:A:664:LEU:HA	17	0.39
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	4	0.39
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	4	0.39
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	20	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	20	0.38
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	20	0.38
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	20	0.38
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	20	0.38
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	20	0.38
(1,250)	1:A:630:LEU:H	1:A:630:LEU:HD21	19	0.38
(1,138)	1:A:618:LEU:HD21	1:A:656:PHE:HZ	18	0.38
(1,138)	1:A:618:LEU:HD22	1:A:656:PHE:HZ	18	0.38
(1,138)	1:A:618:LEU:HD23	1:A:656:PHE:HZ	18	0.38
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	5	0.36
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	5	0.36
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	5	0.36
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	5	0.36
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	5	0.36
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	5	0.36
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	1	0.36
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	1	0.36
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG21	19	0.35
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG22	19	0.35
(1,800)	2:B:394:ARG:HA	2:B:401:ILE:HG23	19	0.35
(1,780)	2:B:392:VAL:HB	2:B:403:LEU:HA	18	0.35
(1,544)	1:A:655:ASP:H	1:A:659:LEU:HD21	20	0.35
(1,87)	1:A:614:GLU:H	1:A:615:LYS:HG2	18	0.34
(1,87)	1:A:614:GLU:H	1:A:615:LYS:HG3	18	0.34
(1,544)	1:A:655:ASP:H	1:A:659:LEU:HD21	4	0.33
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	13	0.33
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	13	0.33
(1,250)	1:A:630:LEU:H	1:A:630:LEU:HD21	5	0.33
(1,250)	1:A:630:LEU:H	1:A:630:LEU:HD21	15	0.33
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	19	0.32
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	19	0.32
(2,87)	2:B:395:SER:H	2:B:400:LYS:O	11	0.3
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	16	0.3
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	16	0.3
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	16	0.3
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	16	0.3
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	16	0.3
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	16	0.3
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	16	0.3
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	16	0.3
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	16	0.3
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD11	12	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD12	12	0.3
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD13	12	0.3
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD11	12	0.3
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD12	12	0.3
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD13	12	0.3
(1,780)	2:B:392:VAL:HB	2:B:403:LEU:HA	1	0.3
(1,780)	2:B:392:VAL:HB	2:B:403:LEU:HA	3	0.3
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	17	0.3
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	17	0.3
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD11	3	0.29
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD12	3	0.29
(1,978)	1:A:654:ILE:HA	2:B:403:LEU:HD13	3	0.29
(1,918)	1:A:648:ASN:HD22	2:B:404:THR:HA	7	0.29
(1,81)	1:A:613:GLU:H	1:A:616:ARG:HG2	10	0.29
(1,81)	1:A:613:GLU:H	1:A:616:ARG:HG3	10	0.29
(1,81)	1:A:613:GLU:H	1:A:616:ARG:HG2	13	0.29
(1,81)	1:A:613:GLU:H	1:A:616:ARG:HG3	13	0.29
(1,57)	1:A:610:MET:HE2	1:A:665:ARG:H	15	0.29
(1,57)	1:A:610:MET:HE2	1:A:665:ARG:H	18	0.29
(1,482)	1:A:646:ASN:HB2	1:A:649:PRO:HD2	14	0.29
(1,482)	1:A:646:ASN:HB2	1:A:649:PRO:HD3	14	0.29
(1,482)	1:A:646:ASN:HB3	1:A:649:PRO:HD2	14	0.29
(1,482)	1:A:646:ASN:HB3	1:A:649:PRO:HD3	14	0.29
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	1	0.28
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	1	0.28
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	1	0.28
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	1	0.28
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	1	0.28
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	1	0.28
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	1	0.28
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	1	0.28
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	1	0.28
(1,81)	1:A:613:GLU:H	1:A:616:ARG:HG2	6	0.27
(1,81)	1:A:613:GLU:H	1:A:616:ARG:HG3	6	0.27
(1,729)	2:B:389:THR:HG21	2:B:390:TRP:H	19	0.27
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD11	19	0.26
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD12	19	0.26
(1,904)	1:A:634:VAL:H	2:B:403:LEU:HD13	19	0.26
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD11	19	0.26
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD12	19	0.26
(1,904)	1:A:634:VAL:HA	2:B:403:LEU:HD13	19	0.26
(1,81)	1:A:613:GLU:H	1:A:616:ARG:HG2	5	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,81)	1:A:613:GLU:H	1:A:616:ARG:HG3	5	0.26
(1,590)	1:A:659:LEU:HD11	1:A:663:THR:HG23	11	0.26
(1,590)	1:A:659:LEU:HD12	1:A:663:THR:HG23	11	0.26
(1,590)	1:A:659:LEU:HD13	1:A:663:THR:HG23	11	0.26
(1,53)	1:A:610:MET:HE1	1:A:611:SER:H	9	0.26
(1,250)	1:A:630:LEU:H	1:A:630:LEU:HD21	11	0.26
(2,5)	1:A:613:GLU:O	1:A:617:GLN:H	18	0.24
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	6	0.24
(1,366)	1:A:636:ILE:HG13	1:A:667:LEU:HB3	4	0.24
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	11	0.24
(2,7)	1:A:614:GLU:O	1:A:618:LEU:H	13	0.23
(1,905)	1:A:634:VAL:HA	2:B:390:TRP:HZ3	7	0.23
(1,48)	1:A:610:MET:HA	1:A:664:LEU:HD23	16	0.23
(1,343)	1:A:635:HIS:HB2	1:A:636:ILE:HD13	14	0.23
(1,343)	1:A:635:HIS:HB3	1:A:636:ILE:HD13	14	0.23
(1,328)	1:A:634:VAL:HG21	1:A:638:GLN:HG2	15	0.23
(1,328)	1:A:634:VAL:HG21	1:A:638:GLN:HG3	15	0.23
(1,328)	1:A:634:VAL:HG22	1:A:638:GLN:HG2	15	0.23
(1,328)	1:A:634:VAL:HG22	1:A:638:GLN:HG3	15	0.23
(1,328)	1:A:634:VAL:HG23	1:A:638:GLN:HG2	15	0.23
(1,328)	1:A:634:VAL:HG23	1:A:638:GLN:HG3	15	0.23
(2,5)	1:A:613:GLU:O	1:A:617:GLN:H	12	0.22
(1,780)	2:B:392:VAL:HB	2:B:403:LEU:HA	11	0.22
(1,780)	2:B:392:VAL:HB	2:B:403:LEU:HA	17	0.22
(1,1006)	1:A:656:PHE:HD1	2:B:398:PRO:HG2	13	0.22
(1,1006)	1:A:656:PHE:HD2	2:B:398:PRO:HG2	13	0.22
(1,905)	1:A:634:VAL:HA	2:B:390:TRP:HZ3	2	0.21
(1,905)	1:A:634:VAL:HA	2:B:390:TRP:HZ3	12	0.21
(1,905)	1:A:634:VAL:HA	2:B:390:TRP:HZ3	14	0.21
(1,544)	1:A:655:ASP:H	1:A:659:LEU:HD21	11	0.21
(1,50)	1:A:610:MET:HB2	1:A:664:LEU:HA	16	0.21
(1,328)	1:A:634:VAL:HG21	1:A:638:GLN:HG2	20	0.21
(1,328)	1:A:634:VAL:HG21	1:A:638:GLN:HG3	20	0.21
(1,328)	1:A:634:VAL:HG22	1:A:638:GLN:HG2	20	0.21
(1,328)	1:A:634:VAL:HG22	1:A:638:GLN:HG3	20	0.21
(1,328)	1:A:634:VAL:HG23	1:A:638:GLN:HG2	20	0.21
(1,328)	1:A:634:VAL:HG23	1:A:638:GLN:HG3	20	0.21
(2,5)	1:A:613:GLU:O	1:A:617:GLN:H	3	0.2
(2,5)	1:A:613:GLU:O	1:A:617:GLN:H	14	0.2
(2,49)	1:A:652:ILE:O	2:B:403:LEU:H	16	0.2
(2,1)	1:A:611:SER:O	1:A:615:LYS:H	6	0.2
(1,905)	1:A:634:VAL:HA	2:B:390:TRP:HZ3	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,905)	1:A:634:VAL:HA	2:B:390:TRP:HZ3	9	0.2
(1,78)	1:A:612:TYR:HB2	1:A:616:ARG:HA	16	0.2
(1,78)	1:A:612:TYR:HB3	1:A:616:ARG:HA	16	0.2
(1,590)	1:A:659:LEU:HD11	1:A:663:THR:HG23	8	0.2
(1,590)	1:A:659:LEU:HD12	1:A:663:THR:HG23	8	0.2
(1,590)	1:A:659:LEU:HD13	1:A:663:THR:HG23	8	0.2
(1,50)	1:A:610:MET:HB2	1:A:664:LEU:HA	6	0.2
(1,331)	1:A:634:VAL:HG21	1:A:638:GLN:HB2	19	0.2
(1,331)	1:A:634:VAL:HG21	1:A:638:GLN:HB3	19	0.2
(1,331)	1:A:634:VAL:HG22	1:A:638:GLN:HB2	19	0.2
(1,331)	1:A:634:VAL:HG22	1:A:638:GLN:HB3	19	0.2
(1,331)	1:A:634:VAL:HG23	1:A:638:GLN:HB2	19	0.2
(1,331)	1:A:634:VAL:HG23	1:A:638:GLN:HB3	19	0.2
(1,1006)	1:A:656:PHE:HD1	2:B:398:PRO:HG2	11	0.2
(1,1006)	1:A:656:PHE:HD2	2:B:398:PRO:HG2	11	0.2
(1,1006)	1:A:656:PHE:HD1	2:B:398:PRO:HG2	17	0.2
(1,1006)	1:A:656:PHE:HD2	2:B:398:PRO:HG2	17	0.2
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	16	0.19
(1,918)	1:A:648:ASN:HD22	2:B:404:THR:HA	19	0.19
(1,905)	1:A:634:VAL:HA	2:B:390:TRP:HZ3	16	0.19
(1,780)	2:B:392:VAL:HB	2:B:403:LEU:HA	10	0.19
(1,755)	2:B:390:TRP:HZ3	2:B:404:THR:HB	7	0.19
(1,755)	2:B:390:TRP:HZ3	2:B:404:THR:HB	19	0.19
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD21	11	0.19
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD22	11	0.19
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD23	11	0.19
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD21	11	0.19
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD22	11	0.19
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD23	11	0.19
(1,548)	1:A:655:ASP:HA	1:A:659:LEU:HD21	17	0.19
(1,548)	1:A:655:ASP:HA	1:A:659:LEU:HD22	17	0.19
(1,548)	1:A:655:ASP:HA	1:A:659:LEU:HD23	17	0.19
(1,50)	1:A:610:MET:HB2	1:A:664:LEU:HA	15	0.19
(1,263)	1:A:630:LEU:HD21	1:A:633:VAL:H	12	0.19
(1,263)	1:A:630:LEU:HD22	1:A:633:VAL:H	12	0.19
(1,263)	1:A:630:LEU:HD23	1:A:633:VAL:H	12	0.19
(1,108)	1:A:616:ARG:HG2	1:A:618:LEU:H	17	0.19
(1,108)	1:A:616:ARG:HG3	1:A:618:LEU:H	17	0.19
(2,5)	1:A:613:GLU:O	1:A:617:GLN:H	20	0.18
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	4	0.18
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD11	9	0.18
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD12	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,961)	1:A:653:GLU:HA	2:B:403:LEU:HD13	9	0.18
(1,918)	1:A:648:ASN:HD22	2:B:404:THR:HA	16	0.18
(1,780)	2:B:392:VAL:HB	2:B:403:LEU:HA	8	0.18
(1,601)	1:A:660:LYS:H	1:A:664:LEU:HB2	13	0.18
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD21	12	0.18
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD22	12	0.18
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD23	12	0.18
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD21	12	0.18
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD22	12	0.18
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD23	12	0.18
(1,263)	1:A:630:LEU:HD21	1:A:633:VAL:H	9	0.18
(1,263)	1:A:630:LEU:HD22	1:A:633:VAL:H	9	0.18
(1,263)	1:A:630:LEU:HD23	1:A:633:VAL:H	9	0.18
(1,1006)	1:A:656:PHE:HD1	2:B:398:PRO:HG2	5	0.18
(1,1006)	1:A:656:PHE:HD2	2:B:398:PRO:HG2	5	0.18
(2,7)	1:A:614:GLU:O	1:A:618:LEU:H	10	0.17
(2,5)	1:A:613:GLU:O	1:A:617:GLN:H	4	0.17
(2,49)	1:A:652:ILE:O	2:B:403:LEU:H	8	0.17
(2,49)	1:A:652:ILE:O	2:B:403:LEU:H	18	0.17
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	8	0.17
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	14	0.17
(1,941)	1:A:652:ILE:HA	2:B:403:LEU:HB2	15	0.17
(1,918)	1:A:648:ASN:HD22	2:B:404:THR:HA	9	0.17
(1,918)	1:A:648:ASN:HD22	2:B:404:THR:HA	12	0.17
(1,918)	1:A:648:ASN:HD22	2:B:404:THR:HA	20	0.17
(1,868)	1:A:612:TYR:HB2	2:B:398:PRO:HG3	18	0.17
(1,868)	1:A:612:TYR:HB3	2:B:398:PRO:HG3	18	0.17
(1,836)	2:B:400:LYS:H	2:B:400:LYS:HE2	15	0.17
(1,836)	2:B:400:LYS:H	2:B:400:LYS:HE3	15	0.17
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD21	17	0.17
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD22	17	0.17
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD23	17	0.17
(1,820)	2:B:397:ASN:HA	2:B:399:LEU:H	13	0.17
(1,78)	1:A:612:TYR:HB2	1:A:616:ARG:HA	20	0.17
(1,78)	1:A:612:TYR:HB3	1:A:616:ARG:HA	20	0.17
(1,68)	1:A:610:MET:HG2	1:A:661:PRO:HG2	18	0.17
(1,68)	1:A:610:MET:HG3	1:A:661:PRO:HG2	18	0.17
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	7	0.17
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	15	0.17
(1,605)	1:A:660:LYS:HA	1:A:663:THR:HB	3	0.17
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD21	4	0.17
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD22	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD23	4	0.17
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD21	4	0.17
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD22	4	0.17
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD23	4	0.17
(1,525)	1:A:652:ILE:HD11	1:A:654:ILE:HB	16	0.17
(1,525)	1:A:652:ILE:HD12	1:A:654:ILE:HB	16	0.17
(1,525)	1:A:652:ILE:HD13	1:A:654:ILE:HB	16	0.17
(1,50)	1:A:610:MET:HB2	1:A:664:LEU:HA	18	0.17
(1,328)	1:A:634:VAL:HG21	1:A:638:GLN:HG2	14	0.17
(1,328)	1:A:634:VAL:HG21	1:A:638:GLN:HG3	14	0.17
(1,328)	1:A:634:VAL:HG22	1:A:638:GLN:HG2	14	0.17
(1,328)	1:A:634:VAL:HG22	1:A:638:GLN:HG3	14	0.17
(1,328)	1:A:634:VAL:HG23	1:A:638:GLN:HG2	14	0.17
(1,328)	1:A:634:VAL:HG23	1:A:638:GLN:HG3	14	0.17
(1,138)	1:A:618:LEU:HD21	1:A:656:PHE:HZ	6	0.17
(1,138)	1:A:618:LEU:HD22	1:A:656:PHE:HZ	6	0.17
(1,138)	1:A:618:LEU:HD23	1:A:656:PHE:HZ	6	0.17
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	3	0.17
(1,108)	1:A:616:ARG:HG2	1:A:618:LEU:H	16	0.17
(1,108)	1:A:616:ARG:HG3	1:A:618:LEU:H	16	0.17
(2,5)	1:A:613:GLU:O	1:A:617:GLN:H	8	0.16
(2,49)	1:A:652:ILE:O	2:B:403:LEU:H	11	0.16
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	7	0.16
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	12	0.16
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	17	0.16
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	19	0.16
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD11	2	0.16
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD12	2	0.16
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD13	2	0.16
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD11	2	0.16
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD12	2	0.16
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD13	2	0.16
(1,941)	1:A:652:ILE:HA	2:B:403:LEU:HB2	14	0.16
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD11	13	0.16
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD12	13	0.16
(1,914)	1:A:637:ILE:HD11	2:B:403:LEU:HD13	13	0.16
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD11	13	0.16
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD12	13	0.16
(1,914)	1:A:637:ILE:HD12	2:B:403:LEU:HD13	13	0.16
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD11	13	0.16
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD12	13	0.16
(1,914)	1:A:637:ILE:HD13	2:B:403:LEU:HD13	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,78)	1:A:612:TYR:HB2	1:A:616:ARG:HA	19	0.16
(1,78)	1:A:612:TYR:HB3	1:A:616:ARG:HA	19	0.16
(1,747)	2:B:390:TRP:HE1	2:B:405:ARG:HB2	8	0.16
(1,747)	2:B:390:TRP:HE1	2:B:405:ARG:HB3	8	0.16
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	3	0.16
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	8	0.16
(1,591)	1:A:659:LEU:HD11	1:A:664:LEU:HA	11	0.16
(1,591)	1:A:659:LEU:HD12	1:A:664:LEU:HA	11	0.16
(1,591)	1:A:659:LEU:HD13	1:A:664:LEU:HA	11	0.16
(1,591)	1:A:659:LEU:HD11	1:A:664:LEU:HA	14	0.16
(1,591)	1:A:659:LEU:HD12	1:A:664:LEU:HA	14	0.16
(1,591)	1:A:659:LEU:HD13	1:A:664:LEU:HA	14	0.16
(1,57)	1:A:610:MET:HE2	1:A:665:ARG:H	5	0.16
(1,50)	1:A:610:MET:HB2	1:A:664:LEU:HA	9	0.16
(1,50)	1:A:610:MET:HB2	1:A:664:LEU:HA	20	0.16
(1,434)	1:A:638:GLN:HG2	1:A:652:ILE:HB	17	0.16
(1,434)	1:A:638:GLN:HG3	1:A:652:ILE:HB	17	0.16
(1,375)	1:A:636:ILE:HG21	1:A:667:LEU:HB3	20	0.16
(1,375)	1:A:636:ILE:HG22	1:A:667:LEU:HB3	20	0.16
(1,375)	1:A:636:ILE:HG23	1:A:667:LEU:HB3	20	0.16
(1,366)	1:A:636:ILE:HG13	1:A:667:LEU:HB3	12	0.16
(1,366)	1:A:636:ILE:HG13	1:A:667:LEU:HB3	20	0.16
(1,356)	1:A:636:ILE:HB	1:A:663:THR:HA	12	0.16
(1,323)	1:A:634:VAL:HB	1:A:652:ILE:HG12	1	0.16
(1,323)	1:A:634:VAL:HB	1:A:652:ILE:HG13	1	0.16
(1,263)	1:A:630:LEU:HD21	1:A:633:VAL:H	4	0.16
(1,263)	1:A:630:LEU:HD22	1:A:633:VAL:H	4	0.16
(1,263)	1:A:630:LEU:HD23	1:A:633:VAL:H	4	0.16
(1,250)	1:A:630:LEU:H	1:A:630:LEU:HD21	4	0.16
(2,5)	1:A:613:GLU:O	1:A:617:GLN:H	7	0.15
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	2	0.15
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	11	0.15
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	15	0.15
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	3	0.15
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	3	0.15
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	3	0.15
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	3	0.15
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	3	0.15
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	3	0.15
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	3	0.15
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	3	0.15
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	18	0.15
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	18	0.15
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	18	0.15
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	18	0.15
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	18	0.15
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	18	0.15
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	18	0.15
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	18	0.15
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	18	0.15
(1,821)	2:B:397:ASN:HA	2:B:400:LYS:H	12	0.15
(1,755)	2:B:390:TRP:HZ3	2:B:404:THR:HB	14	0.15
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	10	0.15
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	13	0.15
(1,605)	1:A:660:LYS:HA	1:A:663:THR:HB	10	0.15
(1,605)	1:A:660:LYS:HA	1:A:663:THR:HB	13	0.15
(1,601)	1:A:660:LYS:H	1:A:664:LEU:HB2	10	0.15
(1,595)	1:A:659:LEU:HG	1:A:663:THR:HB	18	0.15
(1,591)	1:A:659:LEU:HD11	1:A:664:LEU:HA	12	0.15
(1,591)	1:A:659:LEU:HD12	1:A:664:LEU:HA	12	0.15
(1,591)	1:A:659:LEU:HD13	1:A:664:LEU:HA	12	0.15
(1,544)	1:A:655:ASP:H	1:A:659:LEU:HD21	9	0.15
(1,529)	1:A:652:ILE:HG12	1:A:654:ILE:H	14	0.15
(1,529)	1:A:652:ILE:HG13	1:A:654:ILE:H	14	0.15
(1,50)	1:A:610:MET:HB2	1:A:664:LEU:HA	4	0.15
(1,434)	1:A:638:GLN:HG2	1:A:652:ILE:HB	15	0.15
(1,434)	1:A:638:GLN:HG3	1:A:652:ILE:HB	15	0.15
(1,400)	1:A:637:ILE:HD11	1:A:663:THR:HB	3	0.15
(1,400)	1:A:637:ILE:HD12	1:A:663:THR:HB	3	0.15
(1,400)	1:A:637:ILE:HD13	1:A:663:THR:HB	3	0.15
(1,366)	1:A:636:ILE:HG13	1:A:667:LEU:HB3	19	0.15
(1,328)	1:A:634:VAL:HG21	1:A:638:GLN:HG2	5	0.15
(1,328)	1:A:634:VAL:HG21	1:A:638:GLN:HG3	5	0.15
(1,328)	1:A:634:VAL:HG22	1:A:638:GLN:HG2	5	0.15
(1,328)	1:A:634:VAL:HG22	1:A:638:GLN:HG3	5	0.15
(1,328)	1:A:634:VAL:HG23	1:A:638:GLN:HG2	5	0.15
(1,328)	1:A:634:VAL:HG23	1:A:638:GLN:HG3	5	0.15
(1,263)	1:A:630:LEU:HD21	1:A:633:VAL:H	6	0.15
(1,263)	1:A:630:LEU:HD22	1:A:633:VAL:H	6	0.15
(1,263)	1:A:630:LEU:HD23	1:A:633:VAL:H	6	0.15
(1,263)	1:A:630:LEU:HD21	1:A:633:VAL:H	7	0.15
(1,263)	1:A:630:LEU:HD22	1:A:633:VAL:H	7	0.15
(1,263)	1:A:630:LEU:HD23	1:A:633:VAL:H	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,174)	1:A:620:LEU:HG	1:A:624:LYS:HA	2	0.15
(1,174)	1:A:620:LEU:HG	1:A:624:LYS:HA	16	0.15
(1,1006)	1:A:656:PHE:HD1	2:B:398:PRO:HG2	10	0.15
(1,1006)	1:A:656:PHE:HD2	2:B:398:PRO:HG2	10	0.15
(2,7)	1:A:614:GLU:O	1:A:618:LEU:H	12	0.14
(2,49)	1:A:652:ILE:O	2:B:403:LEU:H	5	0.14
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	6	0.14
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	13	0.14
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD11	11	0.14
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD12	11	0.14
(1,950)	1:A:652:ILE:HD11	2:B:403:LEU:HD13	11	0.14
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD11	11	0.14
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD12	11	0.14
(1,950)	1:A:652:ILE:HD12	2:B:403:LEU:HD13	11	0.14
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD11	11	0.14
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD12	11	0.14
(1,950)	1:A:652:ILE:HD13	2:B:403:LEU:HD13	11	0.14
(1,917)	1:A:638:GLN:HE22	2:B:405:ARG:HG2	15	0.14
(1,917)	1:A:638:GLN:HE22	2:B:405:ARG:HG3	15	0.14
(1,866)	1:A:612:TYR:HB2	2:B:398:PRO:HA	13	0.14
(1,866)	1:A:612:TYR:HB3	2:B:398:PRO:HA	13	0.14
(1,795)	2:B:394:ARG:H	2:B:395:SER:H	5	0.14
(1,795)	2:B:394:ARG:H	2:B:395:SER:H	14	0.14
(1,78)	1:A:612:TYR:HB2	1:A:616:ARG:HA	13	0.14
(1,78)	1:A:612:TYR:HB3	1:A:616:ARG:HA	13	0.14
(1,747)	2:B:390:TRP:HE1	2:B:405:ARG:HB2	1	0.14
(1,747)	2:B:390:TRP:HE1	2:B:405:ARG:HB3	1	0.14
(1,605)	1:A:660:LYS:HA	1:A:663:THR:HB	8	0.14
(1,591)	1:A:659:LEU:HD11	1:A:664:LEU:HA	4	0.14
(1,591)	1:A:659:LEU:HD12	1:A:664:LEU:HA	4	0.14
(1,591)	1:A:659:LEU:HD13	1:A:664:LEU:HA	4	0.14
(1,547)	1:A:655:ASP:HA	1:A:659:LEU:H	18	0.14
(1,513)	1:A:650:ASP:HA	1:A:651:GLU:H	20	0.14
(1,50)	1:A:610:MET:HB2	1:A:664:LEU:HA	13	0.14
(1,482)	1:A:646:ASN:HB2	1:A:649:PRO:HD2	7	0.14
(1,482)	1:A:646:ASN:HB2	1:A:649:PRO:HD3	7	0.14
(1,482)	1:A:646:ASN:HB3	1:A:649:PRO:HD2	7	0.14
(1,482)	1:A:646:ASN:HB3	1:A:649:PRO:HD3	7	0.14
(1,434)	1:A:638:GLN:HG2	1:A:652:ILE:HB	5	0.14
(1,434)	1:A:638:GLN:HG3	1:A:652:ILE:HB	5	0.14
(1,434)	1:A:638:GLN:HG2	1:A:652:ILE:HB	10	0.14
(1,434)	1:A:638:GLN:HG3	1:A:652:ILE:HB	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,263)	1:A:630:LEU:HD21	1:A:633:VAL:H	13	0.14
(1,263)	1:A:630:LEU:HD22	1:A:633:VAL:H	13	0.14
(1,263)	1:A:630:LEU:HD23	1:A:633:VAL:H	13	0.14
(1,250)	1:A:630:LEU:H	1:A:630:LEU:HD21	17	0.14
(1,174)	1:A:620:LEU:HG	1:A:624:LYS:HA	9	0.14
(1,138)	1:A:618:LEU:HD21	1:A:656:PHE:HZ	13	0.14
(1,138)	1:A:618:LEU:HD22	1:A:656:PHE:HZ	13	0.14
(1,138)	1:A:618:LEU:HD23	1:A:656:PHE:HZ	13	0.14
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	4	0.14
(1,1006)	1:A:656:PHE:HD1	2:B:398:PRO:HG2	12	0.14
(1,1006)	1:A:656:PHE:HD2	2:B:398:PRO:HG2	12	0.14
(2,49)	1:A:652:ILE:O	2:B:403:LEU:H	19	0.13
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	9	0.13
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	10	0.13
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	20	0.13
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	9	0.13
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	9	0.13
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	9	0.13
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	9	0.13
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	9	0.13
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	9	0.13
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	9	0.13
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	9	0.13
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	9	0.13
(1,941)	1:A:652:ILE:HA	2:B:403:LEU:HB2	4	0.13
(1,941)	1:A:652:ILE:HA	2:B:403:LEU:HB2	5	0.13
(1,941)	1:A:652:ILE:HA	2:B:403:LEU:HB2	13	0.13
(1,941)	1:A:652:ILE:HA	2:B:403:LEU:HB2	20	0.13
(1,917)	1:A:638:GLN:HE22	2:B:405:ARG:HG2	2	0.13
(1,917)	1:A:638:GLN:HE22	2:B:405:ARG:HG3	2	0.13
(1,905)	1:A:634:VAL:HA	2:B:390:TRP:HZ3	13	0.13
(1,905)	1:A:634:VAL:HA	2:B:390:TRP:HZ3	19	0.13
(1,868)	1:A:612:TYR:HB2	2:B:398:PRO:HG3	10	0.13
(1,868)	1:A:612:TYR:HB3	2:B:398:PRO:HG3	10	0.13
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD21	10	0.13
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD22	10	0.13
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD23	10	0.13
(1,795)	2:B:394:ARG:H	2:B:395:SER:H	15	0.13
(1,795)	2:B:394:ARG:H	2:B:395:SER:H	17	0.13
(1,78)	1:A:612:TYR:HB2	1:A:616:ARG:HA	3	0.13
(1,78)	1:A:612:TYR:HB3	1:A:616:ARG:HA	3	0.13
(1,78)	1:A:612:TYR:HB2	1:A:616:ARG:HA	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,78)	1:A:612:TYR:HB3	1:A:616:ARG:HA	4	0.13
(1,78)	1:A:612:TYR:HB2	1:A:616:ARG:HA	14	0.13
(1,78)	1:A:612:TYR:HB3	1:A:616:ARG:HA	14	0.13
(1,78)	1:A:612:TYR:HB2	1:A:616:ARG:HA	15	0.13
(1,78)	1:A:612:TYR:HB3	1:A:616:ARG:HA	15	0.13
(1,735)	2:B:390:TRP:H	2:B:391:ARG:H	1	0.13
(1,735)	2:B:390:TRP:H	2:B:391:ARG:H	8	0.13
(1,735)	2:B:390:TRP:H	2:B:391:ARG:H	10	0.13
(1,735)	2:B:390:TRP:H	2:B:391:ARG:H	11	0.13
(1,735)	2:B:390:TRP:H	2:B:391:ARG:H	17	0.13
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	20	0.13
(1,591)	1:A:659:LEU:HD11	1:A:664:LEU:HA	1	0.13
(1,591)	1:A:659:LEU:HD12	1:A:664:LEU:HA	1	0.13
(1,591)	1:A:659:LEU:HD13	1:A:664:LEU:HA	1	0.13
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD21	8	0.13
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD22	8	0.13
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD23	8	0.13
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD21	8	0.13
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD22	8	0.13
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD23	8	0.13
(1,525)	1:A:652:ILE:HD11	1:A:654:ILE:HB	7	0.13
(1,525)	1:A:652:ILE:HD12	1:A:654:ILE:HB	7	0.13
(1,525)	1:A:652:ILE:HD13	1:A:654:ILE:HB	7	0.13
(1,488)	1:A:648:ASN:H	1:A:651:GLU:HB2	20	0.13
(1,488)	1:A:648:ASN:H	1:A:651:GLU:HB3	20	0.13
(1,487)	1:A:648:ASN:H	1:A:651:GLU:H	1	0.13
(1,482)	1:A:646:ASN:HB2	1:A:649:PRO:HD2	19	0.13
(1,482)	1:A:646:ASN:HB2	1:A:649:PRO:HD3	19	0.13
(1,482)	1:A:646:ASN:HB3	1:A:649:PRO:HD2	19	0.13
(1,482)	1:A:646:ASN:HB3	1:A:649:PRO:HD3	19	0.13
(1,449)	1:A:641:GLU:HA	1:A:659:LEU:HG	7	0.13
(1,448)	1:A:641:GLU:HA	1:A:659:LEU:HD21	9	0.13
(1,448)	1:A:641:GLU:HA	1:A:659:LEU:HD22	9	0.13
(1,448)	1:A:641:GLU:HA	1:A:659:LEU:HD23	9	0.13
(1,400)	1:A:637:ILE:HD11	1:A:663:THR:HB	8	0.13
(1,400)	1:A:637:ILE:HD12	1:A:663:THR:HB	8	0.13
(1,400)	1:A:637:ILE:HD13	1:A:663:THR:HB	8	0.13
(1,356)	1:A:636:ILE:HB	1:A:663:THR:HA	19	0.13
(1,34)	1:A:608:LYS:HA	1:A:609:PRO:HB2	14	0.13
(1,331)	1:A:634:VAL:HG21	1:A:638:GLN:HB2	1	0.13
(1,331)	1:A:634:VAL:HG21	1:A:638:GLN:HB3	1	0.13
(1,331)	1:A:634:VAL:HG22	1:A:638:GLN:HB2	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,331)	1:A:634:VAL:HG22	1:A:638:GLN:HB3	1	0.13
(1,331)	1:A:634:VAL:HG23	1:A:638:GLN:HB2	1	0.13
(1,331)	1:A:634:VAL:HG23	1:A:638:GLN:HB3	1	0.13
(1,250)	1:A:630:LEU:H	1:A:630:LEU:HD21	13	0.13
(1,193)	1:A:622:ILE:HB	1:A:671:VAL:HB	15	0.13
(1,174)	1:A:620:LEU:HG	1:A:624:LYS:HA	12	0.13
(1,117)	1:A:617:GLN:HA	1:A:620:LEU:HG	2	0.13
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	18	0.13
(1,109)	1:A:616:ARG:HG2	1:A:619:SER:H	8	0.13
(1,109)	1:A:616:ARG:HG3	1:A:619:SER:H	8	0.13
(1,1006)	1:A:656:PHE:HD1	2:B:398:PRO:HG2	14	0.13
(1,1006)	1:A:656:PHE:HD2	2:B:398:PRO:HG2	14	0.13
(1,1006)	1:A:656:PHE:HD1	2:B:398:PRO:HG2	19	0.13
(1,1006)	1:A:656:PHE:HD2	2:B:398:PRO:HG2	19	0.13
(2,5)	1:A:613:GLU:O	1:A:617:GLN:H	9	0.12
(2,49)	1:A:652:ILE:O	2:B:403:LEU:H	1	0.12
(2,49)	1:A:652:ILE:O	2:B:403:LEU:H	2	0.12
(2,49)	1:A:652:ILE:O	2:B:403:LEU:H	17	0.12
(2,33)	1:A:631:GLY:O	1:A:635:HIS:H	16	0.12
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	1	0.12
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	18	0.12
(2,1)	1:A:611:SER:O	1:A:615:LYS:H	18	0.12
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD11	13	0.12
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD12	13	0.12
(1,991)	1:A:654:ILE:HG21	2:B:403:LEU:HD13	13	0.12
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD11	13	0.12
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD12	13	0.12
(1,991)	1:A:654:ILE:HG22	2:B:403:LEU:HD13	13	0.12
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD11	13	0.12
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD12	13	0.12
(1,991)	1:A:654:ILE:HG23	2:B:403:LEU:HD13	13	0.12
(1,941)	1:A:652:ILE:HA	2:B:403:LEU:HB2	2	0.12
(1,918)	1:A:648:ASN:HD22	2:B:404:THR:HA	2	0.12
(1,905)	1:A:634:VAL:HA	2:B:390:TRP:HZ3	4	0.12
(1,905)	1:A:634:VAL:HA	2:B:390:TRP:HZ3	5	0.12
(1,905)	1:A:634:VAL:HA	2:B:390:TRP:HZ3	15	0.12
(1,868)	1:A:612:TYR:HB2	2:B:398:PRO:HG3	3	0.12
(1,868)	1:A:612:TYR:HB3	2:B:398:PRO:HG3	3	0.12
(1,868)	1:A:612:TYR:HB2	2:B:398:PRO:HG3	5	0.12
(1,868)	1:A:612:TYR:HB3	2:B:398:PRO:HG3	5	0.12
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD21	6	0.12
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD22	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD23	6	0.12
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD21	18	0.12
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD22	18	0.12
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD23	18	0.12
(1,821)	2:B:397:ASN:HA	2:B:400:LYS:H	5	0.12
(1,821)	2:B:397:ASN:HA	2:B:400:LYS:H	14	0.12
(1,821)	2:B:397:ASN:HA	2:B:400:LYS:H	17	0.12
(1,820)	2:B:397:ASN:HA	2:B:399:LEU:H	7	0.12
(1,795)	2:B:394:ARG:H	2:B:395:SER:H	10	0.12
(1,795)	2:B:394:ARG:H	2:B:395:SER:H	12	0.12
(1,78)	1:A:612:TYR:HB2	1:A:616:ARG:HA	7	0.12
(1,78)	1:A:612:TYR:HB3	1:A:616:ARG:HA	7	0.12
(1,78)	1:A:612:TYR:HB2	1:A:616:ARG:HA	11	0.12
(1,78)	1:A:612:TYR:HB3	1:A:616:ARG:HA	11	0.12
(1,759)	2:B:390:TRP:HH2	2:B:404:THR:H	6	0.12
(1,755)	2:B:390:TRP:HZ3	2:B:404:THR:HB	15	0.12
(1,755)	2:B:390:TRP:HZ3	2:B:404:THR:HB	20	0.12
(1,747)	2:B:390:TRP:HE1	2:B:405:ARG:HB2	20	0.12
(1,747)	2:B:390:TRP:HE1	2:B:405:ARG:HB3	20	0.12
(1,735)	2:B:390:TRP:H	2:B:391:ARG:H	3	0.12
(1,735)	2:B:390:TRP:H	2:B:391:ARG:H	18	0.12
(1,688)	1:A:671:VAL:HB	1:A:675:LEU:HB2	8	0.12
(1,687)	1:A:671:VAL:HB	1:A:672:THR:HA	15	0.12
(1,668)	1:A:669:ARG:HA	1:A:672:THR:HB	7	0.12
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	5	0.12
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	11	0.12
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	14	0.12
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	17	0.12
(1,595)	1:A:659:LEU:HG	1:A:663:THR:HB	6	0.12
(1,591)	1:A:659:LEU:HD11	1:A:664:LEU:HA	2	0.12
(1,591)	1:A:659:LEU:HD12	1:A:664:LEU:HA	2	0.12
(1,591)	1:A:659:LEU:HD13	1:A:664:LEU:HA	2	0.12
(1,591)	1:A:659:LEU:HD11	1:A:664:LEU:HA	3	0.12
(1,591)	1:A:659:LEU:HD12	1:A:664:LEU:HA	3	0.12
(1,591)	1:A:659:LEU:HD13	1:A:664:LEU:HA	3	0.12
(1,57)	1:A:610:MET:HE2	1:A:665:ARG:H	4	0.12
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD21	1	0.12
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD22	1	0.12
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD23	1	0.12
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD21	1	0.12
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD22	1	0.12
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD23	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD21	9	0.12
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD22	9	0.12
(1,554)	1:A:655:ASP:HB2	1:A:659:LEU:HD23	9	0.12
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD21	9	0.12
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD22	9	0.12
(1,554)	1:A:655:ASP:HB3	1:A:659:LEU:HD23	9	0.12
(1,548)	1:A:655:ASP:HA	1:A:659:LEU:HD21	18	0.12
(1,548)	1:A:655:ASP:HA	1:A:659:LEU:HD22	18	0.12
(1,548)	1:A:655:ASP:HA	1:A:659:LEU:HD23	18	0.12
(1,513)	1:A:650:ASP:HA	1:A:651:GLU:H	9	0.12
(1,513)	1:A:650:ASP:HA	1:A:651:GLU:H	12	0.12
(1,50)	1:A:610:MET:HB2	1:A:664:LEU:HA	2	0.12
(1,50)	1:A:610:MET:HB2	1:A:664:LEU:HA	3	0.12
(1,50)	1:A:610:MET:HB2	1:A:664:LEU:HA	19	0.12
(1,492)	1:A:648:ASN:HA	1:A:651:GLU:HB2	19	0.12
(1,492)	1:A:648:ASN:HA	1:A:651:GLU:HB3	19	0.12
(1,449)	1:A:641:GLU:HA	1:A:659:LEU:HG	6	0.12
(1,434)	1:A:638:GLN:HG2	1:A:652:ILE:HB	16	0.12
(1,434)	1:A:638:GLN:HG3	1:A:652:ILE:HB	16	0.12
(1,356)	1:A:636:ILE:HB	1:A:663:THR:HA	20	0.12
(1,34)	1:A:608:LYS:HA	1:A:609:PRO:HB2	1	0.12
(1,331)	1:A:634:VAL:HG21	1:A:638:GLN:HB2	14	0.12
(1,331)	1:A:634:VAL:HG21	1:A:638:GLN:HB3	14	0.12
(1,331)	1:A:634:VAL:HG22	1:A:638:GLN:HB2	14	0.12
(1,331)	1:A:634:VAL:HG22	1:A:638:GLN:HB3	14	0.12
(1,331)	1:A:634:VAL:HG23	1:A:638:GLN:HB2	14	0.12
(1,331)	1:A:634:VAL:HG23	1:A:638:GLN:HB3	14	0.12
(1,323)	1:A:634:VAL:HB	1:A:652:ILE:HG12	3	0.12
(1,323)	1:A:634:VAL:HB	1:A:652:ILE:HG13	3	0.12
(1,263)	1:A:630:LEU:HD21	1:A:633:VAL:H	16	0.12
(1,263)	1:A:630:LEU:HD22	1:A:633:VAL:H	16	0.12
(1,263)	1:A:630:LEU:HD23	1:A:633:VAL:H	16	0.12
(1,259)	1:A:630:LEU:HD11	1:A:634:VAL:H	13	0.12
(1,259)	1:A:630:LEU:HD12	1:A:634:VAL:H	13	0.12
(1,259)	1:A:630:LEU:HD13	1:A:634:VAL:H	13	0.12
(1,193)	1:A:622:ILE:HB	1:A:671:VAL:HB	20	0.12
(1,174)	1:A:620:LEU:HG	1:A:624:LYS:HA	4	0.12
(1,174)	1:A:620:LEU:HG	1:A:624:LYS:HA	7	0.12
(1,174)	1:A:620:LEU:HG	1:A:624:LYS:HA	13	0.12
(1,174)	1:A:620:LEU:HG	1:A:624:LYS:HA	14	0.12
(1,112)	1:A:617:GLN:H	1:A:618:LEU:HD22	20	0.12
(1,109)	1:A:616:ARG:HG2	1:A:619:SER:H	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,109)	1:A:616:ARG:HG3	1:A:619:SER:H	20	0.12
(1,108)	1:A:616:ARG:HG2	1:A:618:LEU:H	1	0.12
(1,108)	1:A:616:ARG:HG3	1:A:618:LEU:H	1	0.12
(1,1006)	1:A:656:PHE:HD1	2:B:398:PRO:HG2	2	0.12
(1,1006)	1:A:656:PHE:HD2	2:B:398:PRO:HG2	2	0.12
(1,1006)	1:A:656:PHE:HD1	2:B:398:PRO:HG2	7	0.12
(1,1006)	1:A:656:PHE:HD2	2:B:398:PRO:HG2	7	0.12
(1,1006)	1:A:656:PHE:HD1	2:B:398:PRO:HG2	16	0.12
(1,1006)	1:A:656:PHE:HD2	2:B:398:PRO:HG2	16	0.12
(2,7)	1:A:614:GLU:O	1:A:618:LEU:H	5	0.11
(2,51)	1:A:654:ILE:H	2:B:401:ILE:O	15	0.11
(2,5)	1:A:613:GLU:O	1:A:617:GLN:H	2	0.11
(2,49)	1:A:652:ILE:O	2:B:403:LEU:H	3	0.11
(2,49)	1:A:652:ILE:O	2:B:403:LEU:H	10	0.11
(2,49)	1:A:652:ILE:O	2:B:403:LEU:H	14	0.11
(2,37)	1:A:633:VAL:O	1:A:637:ILE:H	1	0.11
(2,37)	1:A:633:VAL:O	1:A:637:ILE:H	12	0.11
(2,33)	1:A:631:GLY:O	1:A:635:HIS:H	6	0.11
(2,33)	1:A:631:GLY:O	1:A:635:HIS:H	9	0.11
(2,33)	1:A:631:GLY:O	1:A:635:HIS:H	13	0.11
(2,27)	1:A:628:GLU:O	1:A:632:ARG:H	5	0.11
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD11	6	0.11
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD12	6	0.11
(1,984)	1:A:654:ILE:HG12	2:B:403:LEU:HD13	6	0.11
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD11	6	0.11
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD12	6	0.11
(1,984)	1:A:654:ILE:HG13	2:B:403:LEU:HD13	6	0.11
(1,941)	1:A:652:ILE:HA	2:B:403:LEU:HB2	18	0.11
(1,883)	1:A:619:SER:HB2	2:B:394:ARG:HB3	18	0.11
(1,883)	1:A:619:SER:HB3	2:B:394:ARG:HB3	18	0.11
(1,868)	1:A:612:TYR:HB2	2:B:398:PRO:HG3	4	0.11
(1,868)	1:A:612:TYR:HB3	2:B:398:PRO:HG3	4	0.11
(1,868)	1:A:612:TYR:HB2	2:B:398:PRO:HG3	15	0.11
(1,868)	1:A:612:TYR:HB3	2:B:398:PRO:HG3	15	0.11
(1,868)	1:A:612:TYR:HB2	2:B:398:PRO:HG3	20	0.11
(1,868)	1:A:612:TYR:HB3	2:B:398:PRO:HG3	20	0.11
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD21	12	0.11
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD22	12	0.11
(1,830)	2:B:399:LEU:H	2:B:399:LEU:HD23	12	0.11
(1,821)	2:B:397:ASN:HA	2:B:400:LYS:H	2	0.11
(1,821)	2:B:397:ASN:HA	2:B:400:LYS:H	15	0.11
(1,821)	2:B:397:ASN:HA	2:B:400:LYS:H	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,820)	2:B:397:ASN:HA	2:B:399:LEU:H	11	0.11
(1,795)	2:B:394:ARG:H	2:B:395:SER:H	8	0.11
(1,795)	2:B:394:ARG:H	2:B:395:SER:H	9	0.11
(1,795)	2:B:394:ARG:H	2:B:395:SER:H	13	0.11
(1,795)	2:B:394:ARG:H	2:B:395:SER:H	20	0.11
(1,788)	2:B:393:GLN:H	2:B:403:LEU:HA	11	0.11
(1,766)	2:B:391:ARG:H	2:B:404:THR:H	1	0.11
(1,688)	1:A:671:VAL:HB	1:A:675:LEU:HB2	7	0.11
(1,687)	1:A:671:VAL:HB	1:A:672:THR:HA	17	0.11
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	9	0.11
(1,659)	1:A:668:GLU:HA	1:A:671:VAL:HB	18	0.11
(1,591)	1:A:659:LEU:HD11	1:A:664:LEU:HA	8	0.11
(1,591)	1:A:659:LEU:HD12	1:A:664:LEU:HA	8	0.11
(1,591)	1:A:659:LEU:HD13	1:A:664:LEU:HA	8	0.11
(1,591)	1:A:659:LEU:HD11	1:A:664:LEU:HA	9	0.11
(1,591)	1:A:659:LEU:HD12	1:A:664:LEU:HA	9	0.11
(1,591)	1:A:659:LEU:HD13	1:A:664:LEU:HA	9	0.11
(1,540)	1:A:654:ILE:HG21	1:A:659:LEU:H	13	0.11
(1,540)	1:A:654:ILE:HG22	1:A:659:LEU:H	13	0.11
(1,540)	1:A:654:ILE:HG23	1:A:659:LEU:H	13	0.11
(1,50)	1:A:610:MET:HB2	1:A:664:LEU:HA	17	0.11
(1,492)	1:A:648:ASN:HA	1:A:651:GLU:HB2	7	0.11
(1,492)	1:A:648:ASN:HA	1:A:651:GLU:HB3	7	0.11
(1,484)	1:A:646:ASN:HB2	1:A:652:ILE:HA	8	0.11
(1,484)	1:A:646:ASN:HB3	1:A:652:ILE:HA	8	0.11
(1,468)	1:A:644:LEU:HA	1:A:652:ILE:HA	8	0.11
(1,356)	1:A:636:ILE:HB	1:A:663:THR:HA	1	0.11
(1,34)	1:A:608:LYS:HA	1:A:609:PRO:HB2	4	0.11
(1,34)	1:A:608:LYS:HA	1:A:609:PRO:HB2	18	0.11
(1,328)	1:A:634:VAL:HG21	1:A:638:GLN:HG2	3	0.11
(1,328)	1:A:634:VAL:HG21	1:A:638:GLN:HG3	3	0.11
(1,328)	1:A:634:VAL:HG22	1:A:638:GLN:HG2	3	0.11
(1,328)	1:A:634:VAL:HG22	1:A:638:GLN:HG3	3	0.11
(1,328)	1:A:634:VAL:HG23	1:A:638:GLN:HG2	3	0.11
(1,328)	1:A:634:VAL:HG23	1:A:638:GLN:HG3	3	0.11
(1,268)	1:A:630:LEU:HB2	1:A:634:VAL:HB	6	0.11
(1,268)	1:A:630:LEU:HB3	1:A:634:VAL:HB	6	0.11
(1,268)	1:A:630:LEU:HB2	1:A:634:VAL:HB	7	0.11
(1,268)	1:A:630:LEU:HB3	1:A:634:VAL:HB	7	0.11
(1,268)	1:A:630:LEU:HB2	1:A:634:VAL:HB	12	0.11
(1,268)	1:A:630:LEU:HB3	1:A:634:VAL:HB	12	0.11
(1,263)	1:A:630:LEU:HD21	1:A:633:VAL:H	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,263)	1:A:630:LEU:HD22	1:A:633:VAL:H	2	0.11
(1,263)	1:A:630:LEU:HD23	1:A:633:VAL:H	2	0.11
(1,250)	1:A:630:LEU:H	1:A:630:LEU:HD21	8	0.11
(1,174)	1:A:620:LEU:HG	1:A:624:LYS:HA	6	0.11
(1,174)	1:A:620:LEU:HG	1:A:624:LYS:HA	8	0.11
(1,174)	1:A:620:LEU:HG	1:A:624:LYS:HA	20	0.11
(1,128)	1:A:617:GLN:HG2	1:A:618:LEU:HD21	9	0.11
(1,128)	1:A:617:GLN:HG2	1:A:618:LEU:HD22	9	0.11
(1,128)	1:A:617:GLN:HG2	1:A:618:LEU:HD23	9	0.11
(1,128)	1:A:617:GLN:HG3	1:A:618:LEU:HD21	9	0.11
(1,128)	1:A:617:GLN:HG3	1:A:618:LEU:HD22	9	0.11
(1,128)	1:A:617:GLN:HG3	1:A:618:LEU:HD23	9	0.11
(1,117)	1:A:617:GLN:HA	1:A:620:LEU:HG	7	0.11
(1,117)	1:A:617:GLN:HA	1:A:620:LEU:HG	9	0.11
(1,117)	1:A:617:GLN:HA	1:A:620:LEU:HG	12	0.11
(1,1006)	1:A:656:PHE:HD1	2:B:398:PRO:HG2	1	0.11
(1,1006)	1:A:656:PHE:HD2	2:B:398:PRO:HG2	1	0.11
(1,1)	1:A:601:SER:HA	1:A:603:GLU:HB2	1	0.11
(1,1)	1:A:601:SER:HA	1:A:603:GLU:HB3	1	0.11

10 Dihedral-angle violation analysis

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