



Full wwPDB NMR Structure Validation Report ⓘ

Jun 4, 2023 – 02:17 PM EDT

PDB ID : 2KZB
BMRB ID : 17006
Title : Solution structure of alpha-mannosidase binding domain of Atg19
Authors : Watanabe, Y.; Noda, N.; Kumeta, H.; Suzuki, K.; Ohsumi, Y.; Inagaki, F.
Deposited on : 2010-06-15

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

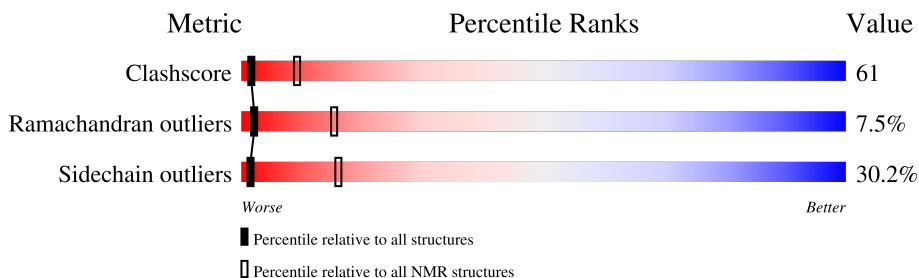
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 92%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	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	118	

2 Ensemble composition and analysis i

This entry contains 20 models. Model 15 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:261-A:296, A:304-A:361 (94)	0.30	15

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

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

The models can be grouped into 4 clusters and 1 single-model cluster was found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1802 atoms, of which 891 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Autophagy-related protein 19.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	114	1802	577	891	151	179	4	0

There are 4 discrepancies between the modelled and reference sequences:

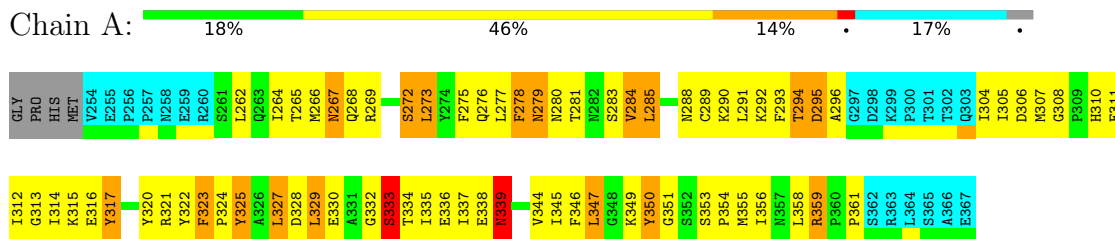
Chain	Residue	Modelled	Actual	Comment	Reference
A	250	GLY	-	expression tag	UNP P35193
A	251	PRO	-	expression tag	UNP P35193
A	252	HIS	-	expression tag	UNP P35193
A	253	MET	-	expression tag	UNP P35193

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: Autophagy-related protein 19

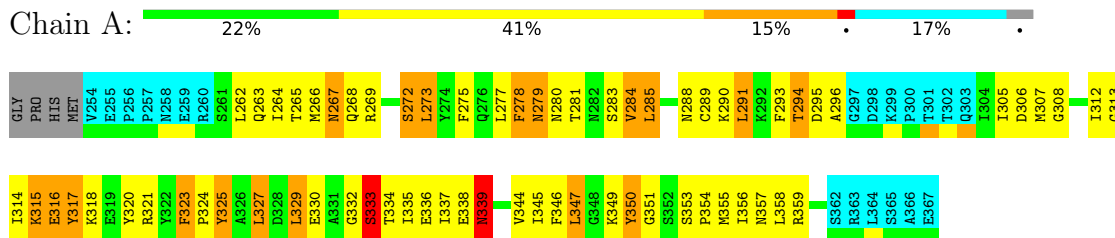


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

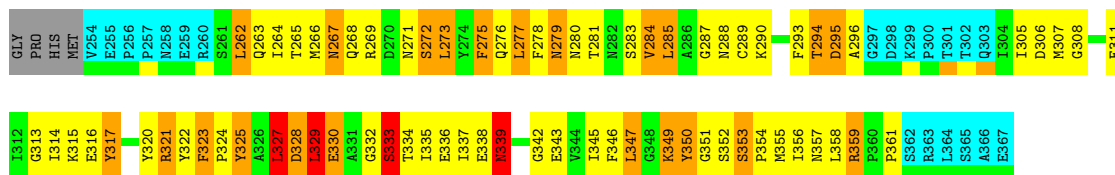
- Molecule 1: Autophagy-related protein 19



4.2.2 Score per residue for model 2

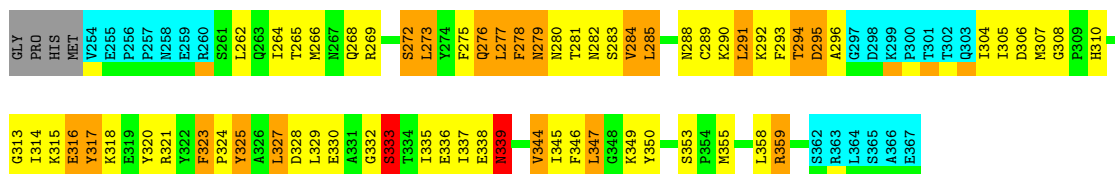
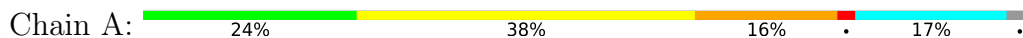
- Molecule 1: Autophagy-related protein 19





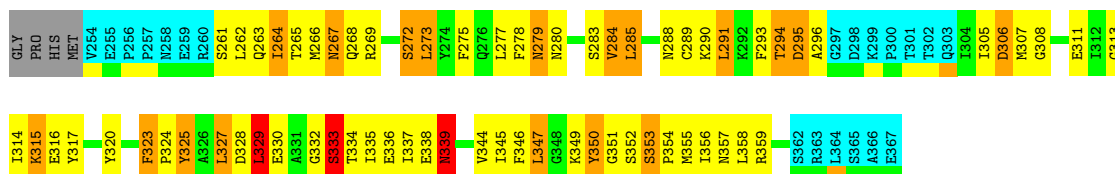
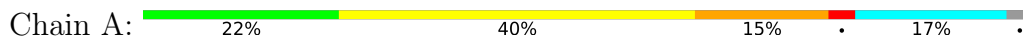
4.2.3 Score per residue for model 3

- Molecule 1: Autophagy-related protein 19



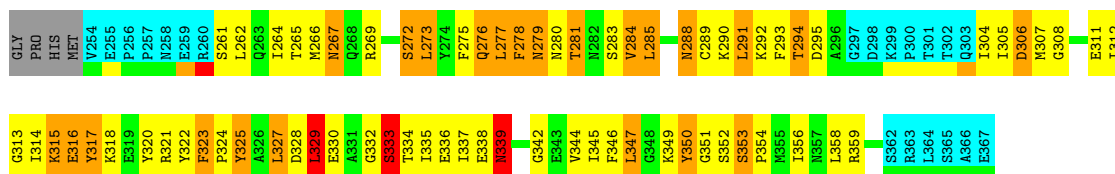
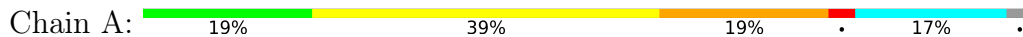
4.2.4 Score per residue for model 4

- Molecule 1: Autophagy-related protein 19



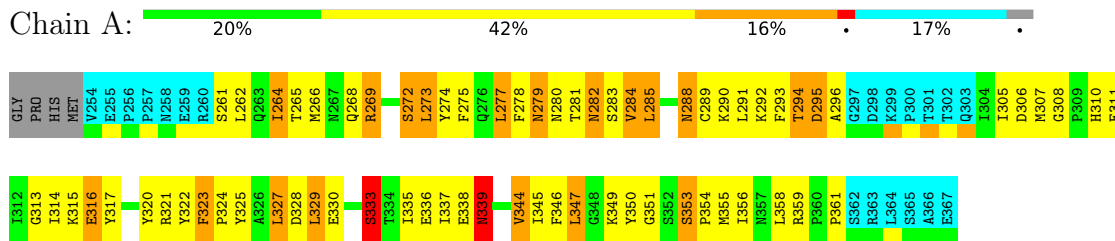
4.2.5 Score per residue for model 5

- Molecule 1: Autophagy-related protein 19



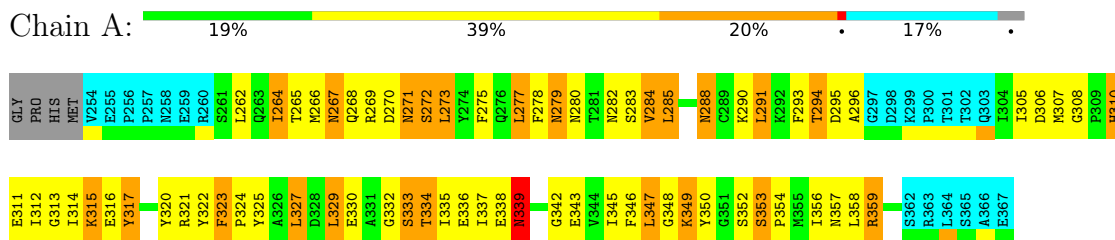
4.2.6 Score per residue for model 6

- Molecule 1: Autophagy-related protein 19



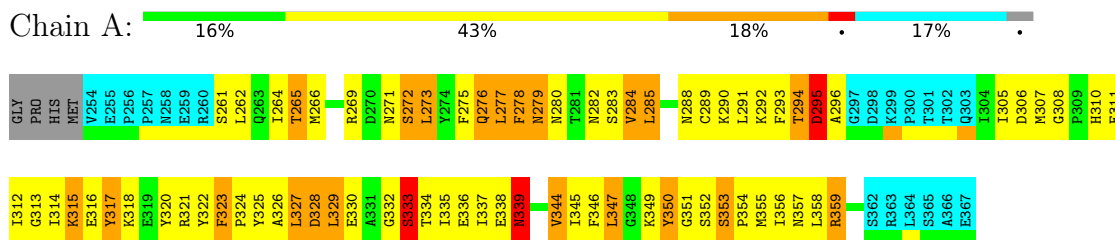
4.2.7 Score per residue for model 7

- Molecule 1: Autophagy-related protein 19



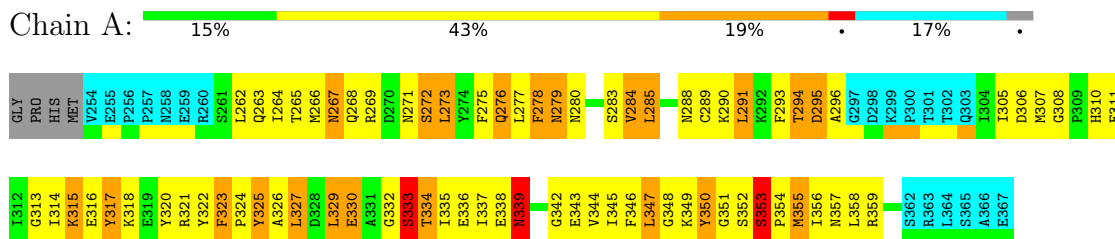
4.2.8 Score per residue for model 8

- Molecule 1: Autophagy-related protein 19



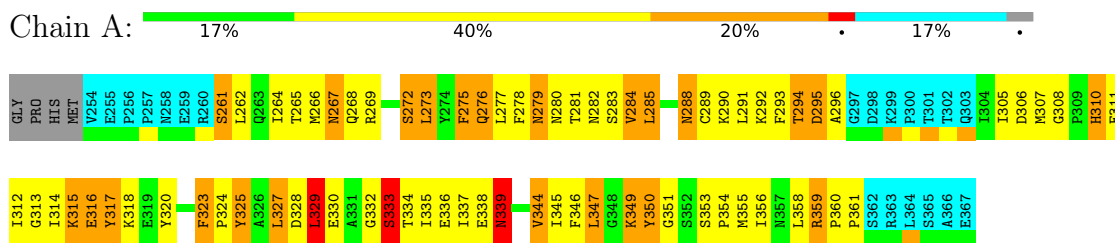
4.2.9 Score per residue for model 9

- Molecule 1: Autophagy-related protein 19



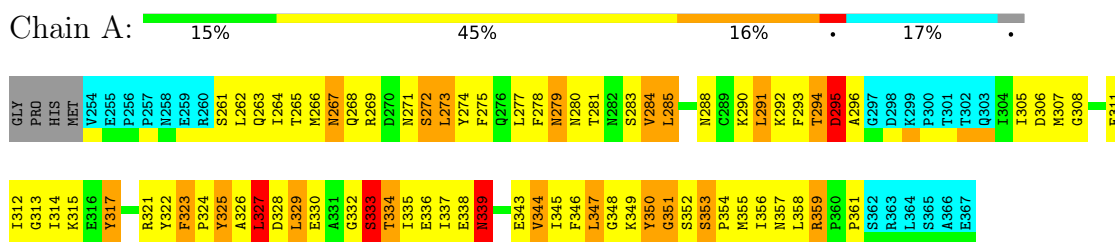
4.2.10 Score per residue for model 10

- Molecule 1: Autophagy-related protein 19



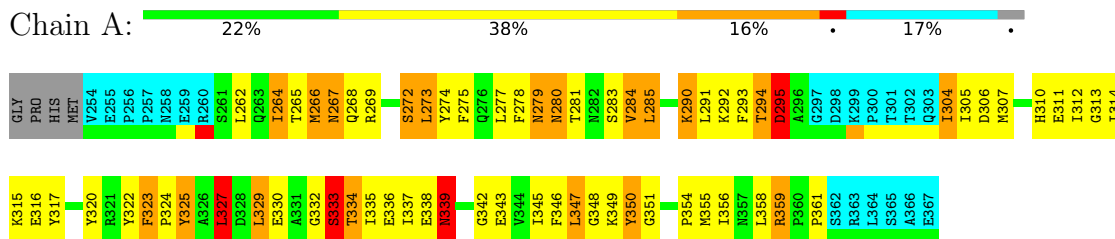
4.2.11 Score per residue for model 11

- Molecule 1: Autophagy-related protein 19



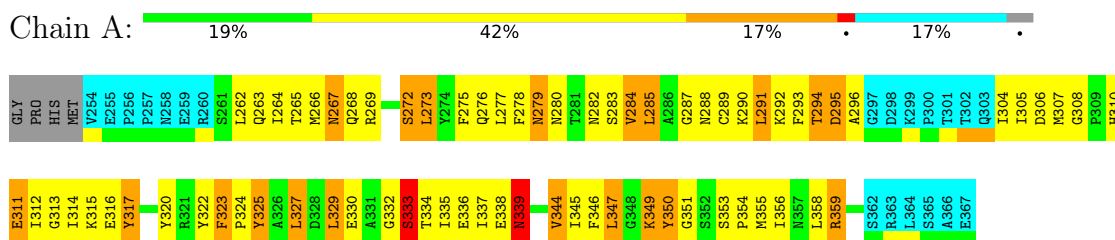
4.2.12 Score per residue for model 12

- Molecule 1: Autophagy-related protein 19



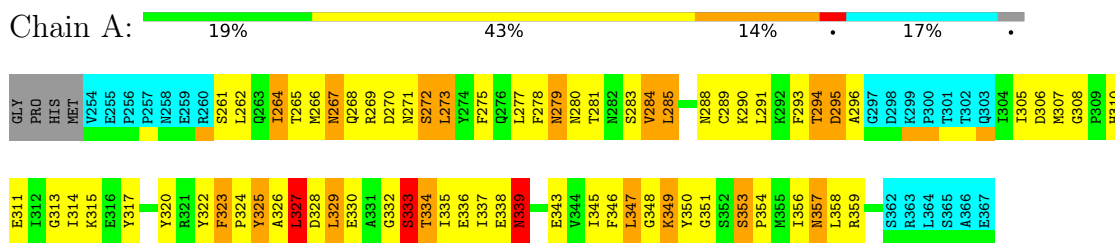
4.2.13 Score per residue for model 13

- Molecule 1: Autophagy-related protein 19



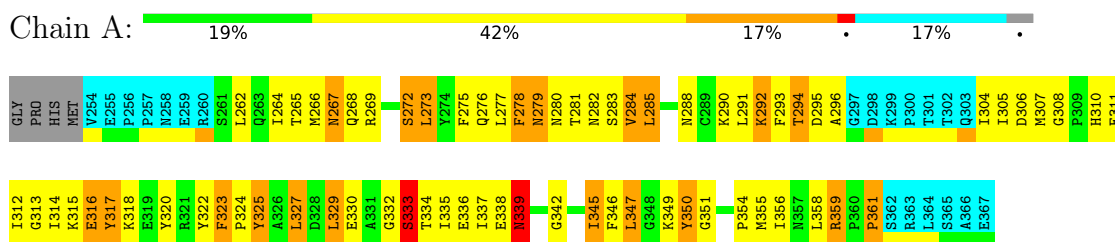
4.2.14 Score per residue for model 14

- Molecule 1: Autophagy-related protein 19



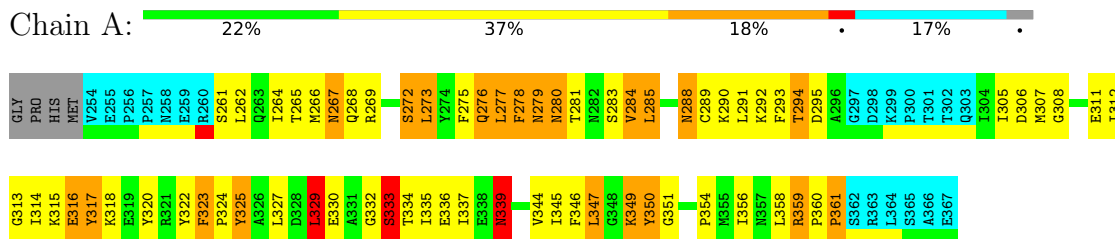
4.2.15 Score per residue for model 15 (medoid)

- Molecule 1: Autophagy-related protein 19



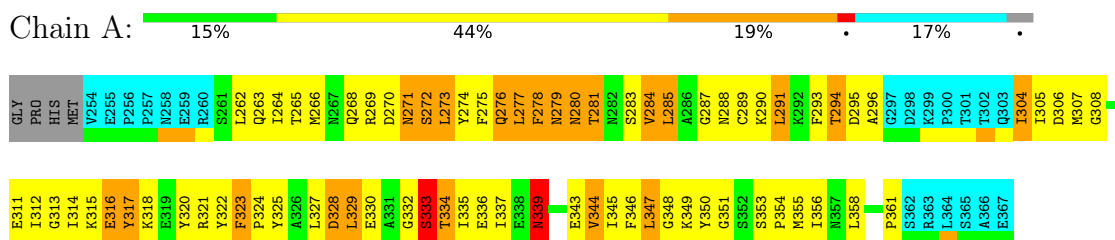
4.2.16 Score per residue for model 16

- Molecule 1: Autophagy-related protein 19



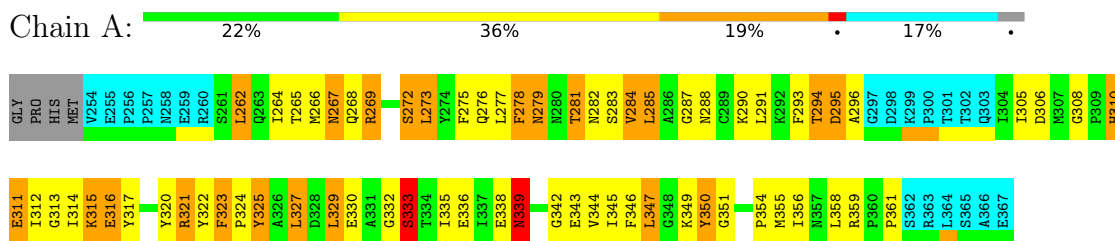
4.2.17 Score per residue for model 17

- Molecule 1: Autophagy-related protein 19



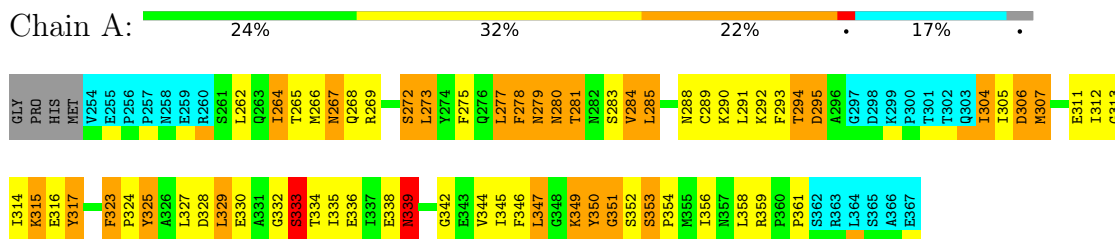
4.2.18 Score per residue for model 18

- Molecule 1: Autophagy-related protein 19



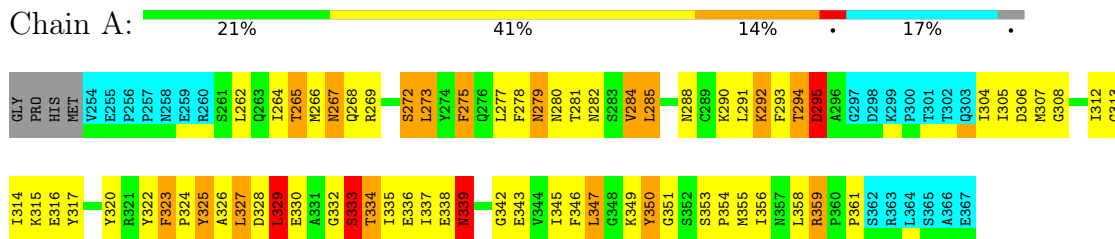
4.2.19 Score per residue for model 19

- Molecule 1: Autophagy-related protein 19



4.2.20 Score per residue for model 20

- Molecule 1: Autophagy-related protein 19



5 Refinement protocol and experimental data overview

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

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

Software name	Classification	Version
CYANA	structure solution	
CYANA	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1417
Number of shifts mapped to atoms	1417
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	92%

6 Model quality

6.1 Standard geometry

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	757	742	739	91±5
All	All	15140	14840	14780	1813

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 61.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:262:LEU:HD12	1:A:346:PHE:CD2	1.04	1.88	2	2
1:A:325:TYR:CE2	1:A:327:LEU:HD13	0.95	1.97	4	2
1:A:325:TYR:CE1	1:A:327:LEU:HD13	0.94	1.97	16	5
1:A:295:ASP:OD1	1:A:327:LEU:HD12	0.90	1.66	6	6
1:A:273:LEU:HD12	1:A:325:TYR:CD1	0.88	2.03	13	3
1:A:296:ALA:HB2	1:A:330:GLU:CD	0.88	1.89	10	13
1:A:266:MET:SD	1:A:335:ILE:HD11	0.87	2.10	9	20
1:A:262:LEU:CD2	1:A:277:LEU:HD21	0.84	2.01	2	1
1:A:277:LEU:HD13	1:A:278:PHE:N	0.82	1.89	4	1
1:A:262:LEU:HD22	1:A:277:LEU:HD21	0.80	1.54	2	1
1:A:277:LEU:HD22	1:A:278:PHE:N	0.79	1.93	2	1
1:A:336:GLU:O	1:A:337:ILE:HD13	0.79	1.77	12	12
1:A:295:ASP:OD2	1:A:327:LEU:HD22	0.78	1.76	16	2
1:A:273:LEU:HD11	1:A:329:LEU:HD21	0.78	1.56	13	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:325:TYR:CZ	1:A:327:LEU:HD13	0.78	2.13	5	4
1:A:279:ASN:ND2	1:A:285:LEU:HD23	0.78	1.94	10	20
1:A:314:ILE:HG22	1:A:315:LYS:HD3	0.76	1.57	12	17
1:A:269:ARG:NH1	1:A:321:ARG:HH21	0.74	1.80	17	1
1:A:273:LEU:HD13	1:A:275:PHE:CE2	0.74	2.18	10	13
1:A:273:LEU:HD12	1:A:325:TYR:CE1	0.73	2.17	13	4
1:A:284:VAL:HG23	1:A:314:ILE:HG13	0.73	1.61	20	19
1:A:278:PHE:CD1	1:A:317:TYR:CE2	0.73	2.76	6	6
1:A:296:ALA:HB2	1:A:330:GLU:CG	0.73	2.13	13	13
1:A:277:LEU:HD22	1:A:278:PHE:H	0.73	1.42	2	2
1:A:336:GLU:HB3	1:A:344:VAL:HG21	0.73	1.58	17	4
1:A:327:LEU:HD23	1:A:327:LEU:N	0.73	1.99	11	11
1:A:275:PHE:CE1	1:A:305:ILE:CD1	0.72	2.72	5	20
1:A:296:ALA:HB2	1:A:330:GLU:HG3	0.72	1.58	1	11
1:A:283:SER:O	1:A:314:ILE:HD11	0.72	1.84	15	19
1:A:262:LEU:HD12	1:A:346:PHE:CE2	0.71	2.20	18	2
1:A:307:MET:CE	1:A:337:ILE:HG23	0.71	2.16	8	12
1:A:262:LEU:HD21	1:A:285:LEU:HD11	0.71	1.63	13	8
1:A:275:PHE:CE1	1:A:305:ILE:HD11	0.71	2.21	2	18
1:A:307:MET:HE1	1:A:337:ILE:HG23	0.71	1.63	17	4
1:A:273:LEU:HD21	1:A:329:LEU:HD21	0.70	1.63	17	1
1:A:262:LEU:HD22	1:A:277:LEU:CD2	0.70	2.16	2	1
1:A:273:LEU:CD1	1:A:293:PHE:CE2	0.69	2.75	10	14
1:A:273:LEU:CD1	1:A:325:TYR:CE1	0.69	2.76	13	2
1:A:273:LEU:CD1	1:A:293:PHE:CZ	0.68	2.76	17	16
1:A:295:ASP:CG	1:A:327:LEU:HD22	0.68	2.08	18	1
1:A:349:LYS:CE	1:A:356:ILE:HG21	0.68	2.19	16	3
1:A:273:LEU:HD22	1:A:275:PHE:CE2	0.67	2.24	3	3
1:A:295:ASP:OD1	1:A:327:LEU:HD13	0.67	1.88	1	2
1:A:350:TYR:HA	1:A:356:ILE:HD13	0.67	1.67	11	18
1:A:325:TYR:CD1	1:A:327:LEU:CD1	0.67	2.77	16	4
1:A:349:LYS:HE2	1:A:356:ILE:HG21	0.67	1.64	13	3
1:A:293:PHE:CD1	1:A:294:THR:N	0.67	2.63	5	14
1:A:325:TYR:CE1	1:A:327:LEU:CD1	0.66	2.79	19	6
1:A:296:ALA:HB2	1:A:330:GLU:HG2	0.65	1.67	14	2
1:A:291:LEU:HD12	1:A:337:ILE:CD1	0.65	2.21	8	12
1:A:264:ILE:HG13	1:A:277:LEU:HD23	0.65	1.68	4	1
1:A:266:MET:HE3	1:A:329:LEU:HD13	0.65	1.67	3	17
1:A:325:TYR:CD2	1:A:327:LEU:CD1	0.65	2.80	4	2
1:A:292:LYS:NZ	1:A:304:ILE:HG23	0.64	2.06	15	2
1:A:350:TYR:CD1	1:A:351:GLY:N	0.64	2.65	5	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:312:ILE:HD11	1:A:320:TYR:OH	0.64	1.91	5	11
1:A:339:ASN:N	1:A:339:ASN:ND2	0.63	2.46	10	20
1:A:330:GLU:O	1:A:350:TYR:CD1	0.63	2.51	16	9
1:A:268:GLN:NE2	1:A:325:TYR:CD2	0.63	2.66	7	8
1:A:307:MET:HE3	1:A:337:ILE:HG23	0.63	1.70	8	3
1:A:273:LEU:HD12	1:A:325:TYR:CE2	0.62	2.28	17	8
1:A:350:TYR:CE1	1:A:351:GLY:O	0.62	2.52	16	10
1:A:278:PHE:CG	1:A:317:TYR:CE2	0.62	2.87	14	5
1:A:262:LEU:CD2	1:A:285:LEU:HD11	0.62	2.24	13	7
1:A:293:PHE:CE1	1:A:294:THR:O	0.62	2.52	12	2
1:A:291:LEU:HD21	1:A:293:PHE:HB2	0.62	1.70	5	15
1:A:268:GLN:HE22	1:A:327:LEU:N	0.62	1.92	20	10
1:A:266:MET:CE	1:A:329:LEU:CD1	0.61	2.79	14	14
1:A:276:GLN:CD	1:A:317:TYR:CE2	0.61	2.74	3	8
1:A:293:PHE:CG	1:A:294:THR:N	0.61	2.68	12	16
1:A:276:GLN:OE1	1:A:317:TYR:CD2	0.61	2.54	8	8
1:A:295:ASP:OD1	1:A:327:LEU:HD22	0.60	1.96	19	4
1:A:323:PHE:C	1:A:323:PHE:CD1	0.60	2.74	10	9
1:A:265:THR:HG22	1:A:354:PRO:HB2	0.60	1.73	18	19
1:A:275:PHE:CE2	1:A:293:PHE:CD2	0.60	2.89	13	13
1:A:295:ASP:CG	1:A:327:LEU:HD12	0.60	2.17	11	4
1:A:273:LEU:HD23	1:A:274:TYR:H	0.59	1.54	12	2
1:A:278:PHE:CG	1:A:317:TYR:CZ	0.59	2.90	6	7
1:A:262:LEU:HG	1:A:277:LEU:HD21	0.59	1.75	4	1
1:A:277:LEU:O	1:A:317:TYR:CD1	0.58	2.56	13	12
1:A:336:GLU:CB	1:A:344:VAL:HG21	0.58	2.28	17	1
1:A:350:TYR:CD1	1:A:350:TYR:C	0.58	2.76	5	13
1:A:266:MET:CE	1:A:329:LEU:HD13	0.58	2.29	3	18
1:A:273:LEU:HD13	1:A:293:PHE:CE2	0.58	2.34	17	13
1:A:350:TYR:C	1:A:350:TYR:CD1	0.57	2.77	10	7
1:A:273:LEU:HD11	1:A:293:PHE:CZ	0.57	2.34	10	7
1:A:325:TYR:CD1	1:A:327:LEU:HD13	0.57	2.35	10	2
1:A:277:LEU:HD13	1:A:277:LEU:C	0.56	2.20	4	1
1:A:281:THR:HG21	1:A:346:PHE:CZ	0.56	2.36	18	1
1:A:273:LEU:HD22	1:A:275:PHE:CZ	0.56	2.35	12	2
1:A:307:MET:SD	1:A:320:TYR:CZ	0.56	2.99	15	12
1:A:323:PHE:CD2	1:A:324:PRO:HA	0.55	2.36	10	7
1:A:325:TYR:CE1	1:A:327:LEU:HD12	0.55	2.36	12	3
1:A:263:GLN:O	1:A:277:LEU:HD22	0.55	2.02	4	1
1:A:275:PHE:CE1	1:A:305:ILE:HD13	0.55	2.37	16	17
1:A:266:MET:HE3	1:A:329:LEU:CD1	0.55	2.31	19	13

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:339:ASN:OD1	1:A:345:ILE:CG2	0.55	2.55	5	20
1:A:262:LEU:CG	1:A:277:LEU:HD21	0.55	2.31	4	1
1:A:281:THR:O	1:A:314:ILE:HG23	0.55	2.01	6	7
1:A:336:GLU:C	1:A:337:ILE:HD13	0.55	2.22	14	10
1:A:325:TYR:CE2	1:A:327:LEU:CD1	0.55	2.80	4	2
1:A:269:ARG:NE	1:A:272:SER:CB	0.54	2.70	2	3
1:A:262:LEU:HD21	1:A:277:LEU:HD21	0.54	1.77	2	1
1:A:271:ASN:OD1	1:A:324:PRO:CB	0.54	2.56	2	1
1:A:330:GLU:O	1:A:350:TYR:CE1	0.54	2.60	5	1
1:A:295:ASP:OD2	1:A:327:LEU:HD12	0.54	2.01	7	1
1:A:265:THR:HG23	1:A:355:MET:HB2	0.54	1.79	8	10
1:A:262:LEU:HD21	1:A:277:LEU:HD11	0.54	1.80	7	3
1:A:327:LEU:N	1:A:327:LEU:CD2	0.54	2.71	6	7
1:A:321:ARG:O	1:A:321:ARG:CZ	0.54	2.55	2	1
1:A:270:ASP:O	1:A:271:ASN:CB	0.53	2.56	17	2
1:A:278:PHE:CD2	1:A:317:TYR:OH	0.53	2.60	18	5
1:A:266:MET:SD	1:A:293:PHE:CE1	0.53	3.01	12	1
1:A:269:ARG:CD	1:A:272:SER:OG	0.53	2.57	14	4
1:A:284:VAL:HG23	1:A:314:ILE:CG1	0.53	2.33	13	19
1:A:316:GLU:O	1:A:317:TYR:CD2	0.53	2.61	6	2
1:A:292:LYS:HZ1	1:A:304:ILE:HD13	0.53	1.64	5	2
1:A:264:ILE:CG1	1:A:277:LEU:HD23	0.53	2.34	4	1
1:A:266:MET:HE2	1:A:350:TYR:CD2	0.53	2.39	4	2
1:A:273:LEU:HD23	1:A:274:TYR:N	0.53	2.19	12	1
1:A:283:SER:O	1:A:314:ILE:CD1	0.52	2.58	6	19
1:A:305:ILE:CG1	1:A:322:TYR:CD1	0.52	2.92	20	5
1:A:305:ILE:CG2	1:A:306:ASP:N	0.52	2.73	12	20
1:A:271:ASN:HD22	1:A:326:ALA:HB2	0.52	1.65	11	4
1:A:295:ASP:O	1:A:333:SER:CB	0.51	2.57	4	10
1:A:289:CYS:SG	1:A:307:MET:CB	0.51	2.98	5	1
1:A:266:MET:CE	1:A:333:SER:OG	0.51	2.58	6	2
1:A:280:ASN:ND2	1:A:280:ASN:C	0.51	2.63	12	3
1:A:325:TYR:CE1	1:A:327:LEU:HG	0.51	2.40	17	1
1:A:262:LEU:HD11	1:A:285:LEU:HD11	0.51	1.82	18	2
1:A:305:ILE:HG13	1:A:322:TYR:CD1	0.51	2.41	14	4
1:A:347:LEU:HD22	1:A:361:PRO:CB	0.51	2.36	16	10
1:A:292:LYS:NZ	1:A:304:ILE:HD13	0.51	2.20	3	2
1:A:325:TYR:CD1	1:A:327:LEU:HD12	0.51	2.41	19	2
1:A:266:MET:SD	1:A:335:ILE:CD1	0.51	2.98	5	11
1:A:295:ASP:OD2	1:A:327:LEU:CD1	0.51	2.59	13	2
1:A:262:LEU:HB3	1:A:358:LEU:HD12	0.51	1.83	18	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:289:CYS:O	1:A:307:MET:CB	0.51	2.59	3	10
1:A:352:SER:O	1:A:353:SER:CB	0.51	2.59	9	8
1:A:296:ALA:CB	1:A:330:GLU:CD	0.51	2.80	9	7
1:A:332:GLY:O	1:A:334:THR:N	0.50	2.44	11	17
1:A:262:LEU:CD1	1:A:346:PHE:CD2	0.50	2.91	18	2
1:A:277:LEU:HD22	1:A:312:ILE:HD13	0.50	1.83	17	8
1:A:294:THR:O	1:A:295:ASP:C	0.50	2.49	3	14
1:A:291:LEU:HD12	1:A:337:ILE:HD11	0.50	1.81	4	4
1:A:329:LEU:CD1	1:A:329:LEU:N	0.50	2.74	17	1
1:A:329:LEU:N	1:A:329:LEU:HD23	0.50	2.22	15	4
1:A:347:LEU:O	1:A:358:LEU:O	0.50	2.29	19	20
1:A:325:TYR:OH	1:A:329:LEU:CD2	0.50	2.59	18	1
1:A:283:SER:O	1:A:284:VAL:CB	0.50	2.59	18	19
1:A:351:GLY:O	1:A:352:SER:CB	0.50	2.59	8	3
1:A:296:ALA:HB1	1:A:330:GLU:CD	0.49	2.27	15	1
1:A:262:LEU:HD21	1:A:279:ASN:HA	0.49	1.84	2	1
1:A:275:PHE:N	1:A:275:PHE:CD1	0.49	2.80	20	4
1:A:262:LEU:O	1:A:358:LEU:CG	0.49	2.61	7	11
1:A:350:TYR:CE1	1:A:353:SER:O	0.49	2.66	3	2
1:A:305:ILE:HG12	1:A:322:TYR:CD1	0.49	2.42	8	5
1:A:266:MET:HE2	1:A:329:LEU:CD1	0.49	2.38	14	3
1:A:339:ASN:OD1	1:A:345:ILE:HG21	0.49	2.08	13	9
1:A:323:PHE:CD1	1:A:323:PHE:C	0.49	2.85	5	5
1:A:273:LEU:HD13	1:A:275:PHE:CZ	0.49	2.43	10	11
1:A:283:SER:O	1:A:284:VAL:HG23	0.48	2.08	18	17
1:A:335:ILE:N	1:A:348:GLY:O	0.48	2.46	17	6
1:A:272:SER:N	1:A:325:TYR:O	0.48	2.46	4	20
1:A:268:GLN:NE2	1:A:325:TYR:CE2	0.48	2.80	7	2
1:A:295:ASP:OD1	1:A:327:LEU:CD1	0.48	2.60	9	2
1:A:359:ARG:NH1	1:A:360:PRO:CD	0.48	2.76	10	1
1:A:345:ILE:HG13	1:A:346:PHE:CD2	0.48	2.43	13	20
1:A:280:ASN:ND2	1:A:280:ASN:O	0.48	2.47	19	3
1:A:273:LEU:HD12	1:A:325:TYR:CZ	0.48	2.44	1	2
1:A:296:ALA:HB2	1:A:330:GLU:OE1	0.48	2.07	2	2
1:A:335:ILE:CG2	1:A:336:GLU:N	0.48	2.76	5	15
1:A:296:ALA:CB	1:A:330:GLU:OE1	0.48	2.62	2	2
1:A:353:SER:O	1:A:356:ILE:HD11	0.48	2.09	17	2
1:A:323:PHE:CB	1:A:324:PRO:HA	0.48	2.39	17	19
1:A:269:ARG:CG	1:A:272:SER:OG	0.48	2.62	10	4
1:A:279:ASN:ND2	1:A:313:GLY:O	0.48	2.47	3	20
1:A:261:SER:H	1:A:280:ASN:ND2	0.48	2.07	14	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:349:LYS:CE	1:A:349:LYS:O	0.48	2.62	19	1
1:A:339:ASN:ND2	1:A:343:GLU:O	0.47	2.47	17	9
1:A:292:LYS:CG	1:A:336:GLU:HB2	0.47	2.39	13	7
1:A:310:HIS:CD2	1:A:310:HIS:N	0.47	2.81	10	3
1:A:268:GLN:HB2	1:A:329:LEU:CD1	0.47	2.39	17	1
1:A:262:LEU:C	1:A:358:LEU:HD12	0.47	2.30	6	7
1:A:338:GLU:CG	1:A:344:VAL:N	0.47	2.77	10	5
1:A:275:PHE:CZ	1:A:293:PHE:CD2	0.47	3.02	13	1
1:A:268:GLN:NE2	1:A:325:TYR:CD1	0.47	2.82	11	3
1:A:336:GLU:HB3	1:A:344:VAL:CG2	0.47	2.39	11	2
1:A:332:GLY:O	1:A:333:SER:C	0.47	2.53	20	13
1:A:295:ASP:CB	1:A:325:TYR:OH	0.47	2.62	17	1
1:A:288:ASN:N	1:A:308:GLY:O	0.47	2.48	2	18
1:A:312:ILE:HG23	1:A:316:GLU:HB3	0.47	1.86	1	2
1:A:278:PHE:O	1:A:280:ASN:N	0.47	2.48	4	16
1:A:350:TYR:CD1	1:A:353:SER:O	0.47	2.68	3	1
1:A:314:ILE:HG22	1:A:315:LYS:CD	0.47	2.36	14	7
1:A:262:LEU:O	1:A:358:LEU:HD12	0.47	2.09	8	3
1:A:262:LEU:HD23	1:A:346:PHE:CD2	0.47	2.45	17	3
1:A:264:ILE:HG13	1:A:358:LEU:HD11	0.47	1.85	4	6
1:A:322:TYR:CD2	1:A:323:PHE:N	0.47	2.83	12	2
1:A:292:LYS:NZ	1:A:292:LYS:HA	0.47	2.25	15	2
1:A:358:LEU:O	1:A:359:ARG:HB2	0.47	2.10	6	12
1:A:295:ASP:OD2	1:A:327:LEU:CB	0.47	2.63	18	1
1:A:262:LEU:O	1:A:358:LEU:N	0.46	2.48	2	15
1:A:262:LEU:HG	1:A:358:LEU:HD12	0.46	1.86	14	11
1:A:318:LYS:HG2	1:A:320:TYR:CZ	0.46	2.45	5	9
1:A:266:MET:O	1:A:267:ASN:ND2	0.46	2.49	2	16
1:A:323:PHE:CG	1:A:324:PRO:HA	0.46	2.45	10	6
1:A:335:ILE:C	1:A:336:GLU:CG	0.46	2.83	11	19
1:A:296:ALA:CB	1:A:330:GLU:CG	0.46	2.90	13	1
1:A:321:ARG:O	1:A:321:ARG:NE	0.46	2.49	18	1
1:A:268:GLN:NE2	1:A:327:LEU:N	0.46	2.63	20	1
1:A:279:ASN:O	1:A:315:LYS:N	0.46	2.49	2	7
1:A:332:GLY:N	1:A:350:TYR:O	0.46	2.49	3	3
1:A:295:ASP:CG	1:A:325:TYR:HH	0.46	2.15	4	1
1:A:266:MET:HG2	1:A:275:PHE:CD2	0.46	2.46	12	1
1:A:278:PHE:C	1:A:278:PHE:CD1	0.46	2.89	1	2
1:A:305:ILE:HD11	1:A:322:TYR:CB	0.46	2.40	7	3
1:A:292:LYS:HZ1	1:A:304:ILE:HG23	0.46	1.70	15	2
1:A:312:ILE:CG2	1:A:313:GLY:N	0.45	2.78	20	7

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:268:GLN:NE2	1:A:327:LEU:O	0.45	2.49	19	8
1:A:339:ASN:N	1:A:339:ASN:HD22	0.45	2.08	10	12
1:A:266:MET:SD	1:A:293:PHE:CD1	0.45	3.10	12	1
1:A:278:PHE:HB2	1:A:317:TYR:CZ	0.45	2.46	20	4
1:A:291:LEU:N	1:A:307:MET:SD	0.45	2.90	19	1
1:A:307:MET:SD	1:A:307:MET:N	0.45	2.88	19	1
1:A:358:LEU:O	1:A:359:ARG:CB	0.45	2.63	15	4
1:A:269:ARG:CZ	1:A:269:ARG:HB2	0.45	2.41	6	1
1:A:296:ALA:HB2	1:A:330:GLU:OE2	0.45	2.09	10	1
1:A:263:GLN:NE2	1:A:355:MET:SD	0.45	2.90	1	7
1:A:269:ARG:CG	1:A:272:SER:CB	0.45	2.95	19	5
1:A:335:ILE:HG22	1:A:336:GLU:N	0.45	2.27	13	5
1:A:278:PHE:CD2	1:A:317:TYR:CE1	0.45	3.05	5	1
1:A:279:ASN:OD1	1:A:279:ASN:C	0.45	2.56	3	17
1:A:314:ILE:C	1:A:316:GLU:N	0.45	2.70	18	15
1:A:273:LEU:HD13	1:A:293:PHE:HE2	0.45	1.70	13	1
1:A:275:PHE:CD1	1:A:275:PHE:N	0.44	2.86	1	4
1:A:291:LEU:HD21	1:A:293:PHE:CB	0.44	2.42	9	1
1:A:278:PHE:HB2	1:A:317:TYR:CE1	0.44	2.47	11	6
1:A:328:ASP:O	1:A:329:LEU:C	0.44	2.56	5	11
1:A:262:LEU:O	1:A:358:LEU:CB	0.44	2.66	20	9
1:A:284:VAL:HG22	1:A:313:GLY:HA2	0.44	1.89	20	1
1:A:266:MET:HE1	1:A:350:TYR:CD2	0.44	2.48	5	1
1:A:357:ASN:N	1:A:357:ASN:ND2	0.44	2.66	14	2
1:A:281:THR:O	1:A:282:ASN:ND2	0.44	2.51	20	1
1:A:280:ASN:O	1:A:280:ASN:CG	0.43	2.57	4	12
1:A:287:GLY:N	1:A:311:GLU:CB	0.43	2.81	18	2
1:A:262:LEU:HD13	1:A:279:ASN:HA	0.43	1.89	14	13
1:A:269:ARG:CG	1:A:272:SER:HB2	0.43	2.43	3	9
1:A:295:ASP:CG	1:A:325:TYR:OH	0.43	2.57	19	8
1:A:289:CYS:C	1:A:307:MET:HG2	0.43	2.34	19	1
1:A:269:ARG:NE	1:A:272:SER:HB2	0.43	2.29	1	3
1:A:272:SER:OG	1:A:323:PHE:CB	0.43	2.67	17	1
1:A:359:ARG:CZ	1:A:359:ARG:HA	0.43	2.43	9	2
1:A:323:PHE:CG	1:A:324:PRO:N	0.43	2.87	15	4
1:A:276:GLN:OE1	1:A:317:TYR:CD1	0.43	2.72	2	1
1:A:349:LYS:C	1:A:349:LYS:HD3	0.43	2.34	14	2
1:A:347:LEU:HD22	1:A:361:PRO:CG	0.43	2.43	20	4
1:A:350:TYR:HA	1:A:356:ILE:CD1	0.43	2.44	9	4
1:A:305:ILE:HG22	1:A:306:ASP:N	0.43	2.29	17	2
1:A:278:PHE:CD1	1:A:278:PHE:C	0.43	2.91	20	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:294:THR:CG2	1:A:296:ALA:C	0.43	2.87	7	1
1:A:312:ILE:HG22	1:A:313:GLY:N	0.43	2.29	16	1
1:A:262:LEU:CD1	1:A:279:ASN:HA	0.42	2.44	4	1
1:A:339:ASN:ND2	1:A:339:ASN:H	0.42	2.12	5	5
1:A:323:PHE:HA	1:A:324:PRO:C	0.42	2.35	1	4
1:A:269:ARG:CD	1:A:272:SER:HB2	0.42	2.44	12	4
1:A:271:ASN:C	1:A:272:SER:OG	0.42	2.58	14	1
1:A:266:MET:CE	1:A:350:TYR:CD2	0.42	3.02	2	2
1:A:349:LYS:CD	1:A:349:LYS:C	0.42	2.87	2	2
1:A:305:ILE:HD11	1:A:322:TYR:HB2	0.42	1.91	7	3
1:A:296:ALA:O	1:A:332:GLY:O	0.42	2.38	17	1
1:A:296:ALA:CB	1:A:330:GLU:HG3	0.42	2.44	18	1
1:A:261:SER:N	1:A:280:ASN:ND2	0.42	2.68	14	1
1:A:321:ARG:CZ	1:A:321:ARG:CB	0.42	2.98	5	1
1:A:277:LEU:C	1:A:277:LEU:HD13	0.42	2.35	2	1
1:A:338:GLU:CD	1:A:342:GLY:O	0.42	2.58	2	9
1:A:323:PHE:CD2	1:A:324:PRO:CA	0.42	3.03	4	4
1:A:356:ILE:HD12	1:A:356:ILE:N	0.42	2.29	12	2
1:A:294:THR:HG22	1:A:334:THR:H	0.42	1.74	12	1
1:A:305:ILE:CG1	1:A:322:TYR:CG	0.42	3.03	16	1
1:A:328:ASP:O	1:A:330:GLU:N	0.42	2.53	17	1
1:A:281:THR:C	1:A:282:ASN:ND2	0.42	2.73	20	1
1:A:332:GLY:O	1:A:334:THR:OG1	0.42	2.37	2	3
1:A:323:PHE:CG	1:A:324:PRO:CA	0.42	3.03	10	2
1:A:338:GLU:O	1:A:339:ASN:O	0.41	2.38	10	10
1:A:329:LEU:HD23	1:A:329:LEU:N	0.41	2.30	13	1
1:A:322:TYR:CG	1:A:323:PHE:N	0.41	2.88	15	1
1:A:321:ARG:NE	1:A:321:ARG:C	0.41	2.74	18	1
1:A:269:ARG:CZ	1:A:272:SER:HB2	0.41	2.45	1	2
1:A:261:SER:HB3	1:A:359:ARG:CD	0.41	2.45	10	1
1:A:284:VAL:HG13	1:A:285:LEU:N	0.41	2.30	16	1
1:A:326:ALA:O	1:A:327:LEU:O	0.41	2.39	20	1
1:A:280:ASN:O	1:A:280:ASN:OD1	0.41	2.39	14	2
1:A:347:LEU:O	1:A:358:LEU:C	0.41	2.58	5	1
1:A:306:ASP:OD2	1:A:308:GLY:N	0.41	2.53	16	1
1:A:295:ASP:O	1:A:333:SER:OG	0.41	2.36	19	1
1:A:330:GLU:O	1:A:333:SER:OG	0.41	2.39	4	1
1:A:290:LYS:CG	1:A:292:LYS:HD3	0.41	2.46	12	1
1:A:295:ASP:OD1	1:A:327:LEU:CB	0.41	2.69	14	1
1:A:275:PHE:CE2	1:A:293:PHE:CE2	0.41	3.09	13	1
1:A:347:LEU:HD22	1:A:361:PRO:HB3	0.41	1.91	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:282:ASN:HA	1:A:314:ILE:CG2	0.41	2.46	18	1
1:A:287:GLY:O	1:A:289:CYS:SG	0.41	2.78	2	2
1:A:307:MET:HG3	1:A:320:TYR:CZ	0.41	2.51	4	1
1:A:307:MET:SD	1:A:337:ILE:HG23	0.41	2.55	7	1
1:A:277:LEU:CD1	1:A:278:PHE:N	0.41	2.75	4	1
1:A:357:ASN:OD1	1:A:359:ARG:CD	0.41	2.69	11	1
1:A:294:THR:HG22	1:A:334:THR:N	0.41	2.31	12	1
1:A:321:ARG:HB3	1:A:321:ARG:CZ	0.41	2.46	18	1
1:A:294:THR:CG2	1:A:296:ALA:O	0.41	2.69	7	1
1:A:283:SER:O	1:A:284:VAL:HB	0.41	2.16	18	1
1:A:280:ASN:O	1:A:281:THR:O	0.41	2.39	19	1
1:A:285:LEU:O	1:A:312:ILE:O	0.40	2.39	1	1
1:A:325:TYR:CE1	1:A:327:LEU:HB2	0.40	2.51	1	1
1:A:273:LEU:HB3	1:A:275:PHE:CZ	0.40	2.50	17	2
1:A:273:LEU:CD1	1:A:329:LEU:HD21	0.40	2.46	6	1
1:A:359:ARG:NH1	1:A:360:PRO:HD2	0.40	2.31	10	1
1:A:291:LEU:CD2	1:A:293:PHE:HB2	0.40	2.46	13	1
1:A:279:ASN:C	1:A:279:ASN:OD1	0.40	2.59	15	1
1:A:350:TYR:CG	1:A:351:GLY:N	0.40	2.90	5	1
1:A:315:LYS:CB	1:A:315:LYS:NZ	0.40	2.84	7	1
1:A:347:LEU:O	1:A:358:LEU:HA	0.40	2.15	8	1
1:A:274:TYR:CZ	1:A:321:ARG:HG3	0.40	2.51	11	1
1:A:269:ARG:HG3	1:A:270:ASP:N	0.40	2.32	14	1
1:A:274:TYR:CE2	1:A:321:ARG:HG3	0.40	2.52	6	1
1:A:295:ASP:OD1	1:A:325:TYR:OH	0.40	2.40	6	1
1:A:292:LYS:HZ2	1:A:292:LYS:HB3	0.40	1.77	15	1
1:A:279:ASN:CB	1:A:313:GLY:O	0.40	2.69	5	1
1:A:347:LEU:CD2	1:A:361:PRO:HB3	0.40	2.46	16	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	94/118 (80%)	70±3 (74±4%)	17±3 (19±3%)	7±1 (8±1%)	2	15

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	1880/2360 (80%)	1390 (74%)	349 (19%)	141 (8%)	2 15

All 14 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	279	ASN	20
1	A	284	VAL	20
1	A	333	SER	20
1	A	339	ASN	20
1	A	325	TYR	15
1	A	327	LEU	13
1	A	329	LEU	8
1	A	281	THR	7
1	A	295	ASP	4
1	A	304	ILE	4
1	A	353	SER	3
1	A	351	GLY	3
1	A	271	ASN	2
1	A	361	PRO	2

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	83/104 (80%)	58±2 (70±3%)	25±2 (30±3%)	1 16
All	All	1660/2080 (80%)	1158 (70%)	502 (30%)	1 16

All 49 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	264	ILE	20
1	A	272	SER	20
1	A	273	LEU	20
1	A	285	LEU	20
1	A	290	LYS	20

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Mol	Chain	Res	Type	Models (Total)
1	A	294	THR	20
1	A	323	PHE	20
1	A	333	SER	20
1	A	339	ASN	20
1	A	347	LEU	20
1	A	349	LYS	20
1	A	329	LEU	17
1	A	311	GLU	17
1	A	267	ASN	16
1	A	317	TYR	15
1	A	350	TYR	15
1	A	295	ASP	14
1	A	291	LEU	12
1	A	344	VAL	12
1	A	353	SER	12
1	A	277	LEU	12
1	A	359	ARG	12
1	A	278	PHE	11
1	A	315	LYS	11
1	A	316	GLU	11
1	A	310	HIS	11
1	A	276	GLN	9
1	A	327	LEU	8
1	A	321	ARG	7
1	A	334	THR	7
1	A	357	ASN	6
1	A	288	ASN	6
1	A	261	SER	5
1	A	269	ARG	5
1	A	280	ASN	4
1	A	292	LYS	4
1	A	275	PHE	3
1	A	328	ASP	3
1	A	330	GLU	3
1	A	306	ASP	3
1	A	262	LEU	2
1	A	265	THR	2
1	A	282	ASN	1
1	A	355	MET	1
1	A	266	MET	1
1	A	325	TYR	1
1	A	345	ILE	1

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Mol	Chain	Res	Type	Models (Total)
1	A	281	THR	1
1	A	307	MET	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 92% for the well-defined parts and 91% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *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	1417
Number of shifts mapped to atoms	1417
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing (i)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	114	-0.06 ± 0.11	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	106	-0.08 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}'$	99	0.38 ± 0.12	None needed (< 0.5 ppm)
^{15}N	104	-0.50 ± 0.40	None needed (< 0.5 ppm)

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 92%, i.e. 1196 atoms were assigned a chemical shift out of a possible 1296. 0 out of 11 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	452/467 (97%)	188/190 (99%)	177/188 (94%)	87/89 (98%)
Sidechain	662/709 (93%)	443/460 (96%)	207/223 (93%)	12/26 (46%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	82/120 (68%)	53/57 (93%)	29/62 (47%)	0/1 (0%)
Overall	1196/1296 (92%)	684/707 (97%)	413/473 (87%)	99/116 (85%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 91%, i.e. 1417 atoms were assigned a chemical shift out of a possible 1554. 0 out of 13 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	543/562 (97%)	226/228 (99%)	213/228 (93%)	104/106 (98%)
Sidechain	792/872 (91%)	529/563 (94%)	249/274 (91%)	14/35 (40%)
Aromatic	82/120 (68%)	53/57 (93%)	29/62 (47%)	0/1 (0%)
Overall	1417/1554 (91%)	808/848 (95%)	491/564 (87%)	118/142 (83%)

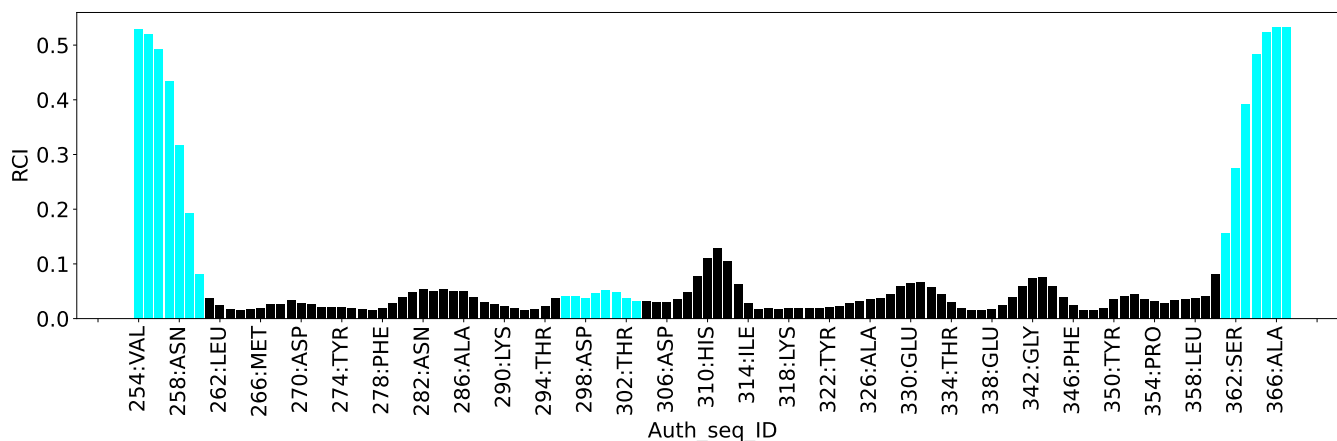
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	2896
Intra-residue ($ i-j =0$)	617
Sequential ($ i-j =1$)	770
Medium range ($ i-j >1$ and $ i-j <5$)	244
Long range ($ i-j \geq 5$)	1265
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	24.5
Number of long range restraints per residue ¹	10.7

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)	13.8	0.2
0.2-0.5 (Medium)	9.4	0.5
>0.5 (Large)	12.3	1.48

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

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

9 Distance violation analysis i

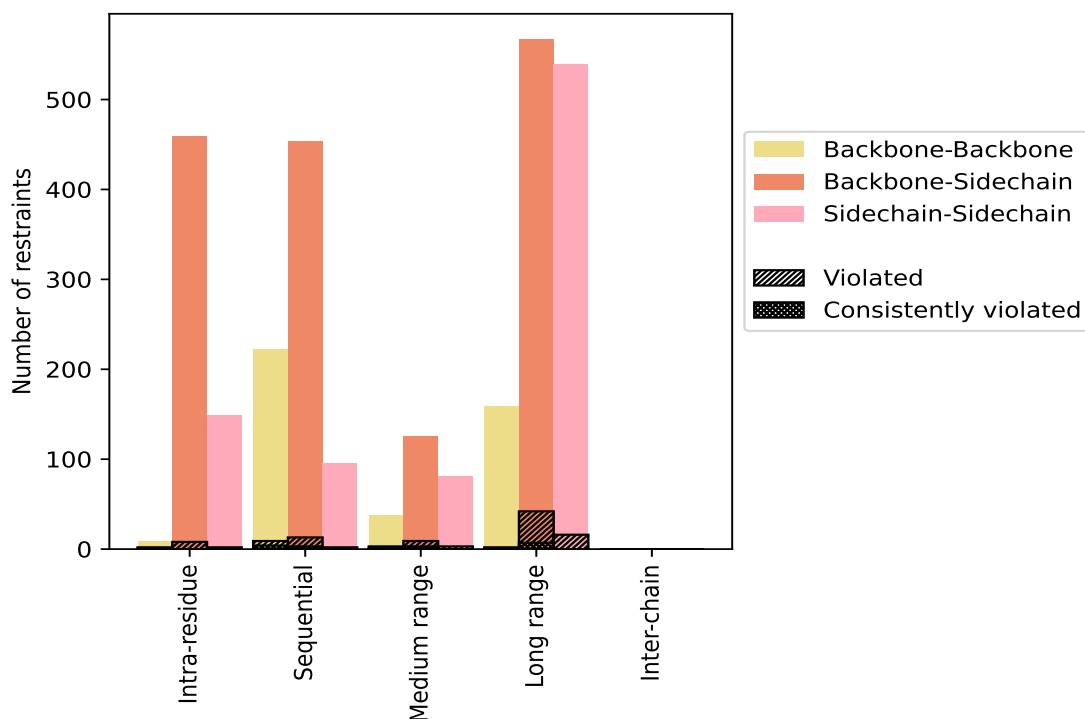
9.1 Summary of distance violations i

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	617	21.3	12	1.9	0.4	1	0.2	0.0
Backbone-Backbone	9	0.3	2	22.2	0.1	1	11.1	0.0
Backbone-Sidechain	459	15.8	8	1.7	0.3	0	0.0	0.0
Sidechain-Sidechain	149	5.1	2	1.3	0.1	0	0.0	0.0
Sequential ($i-j =1$)	770	26.6	24	3.1	0.8	7	0.9	0.2
Backbone-Backbone	222	7.7	9	4.1	0.3	4	1.8	0.1
Backbone-Sidechain	453	15.6	13	2.9	0.4	3	0.7	0.1
Sidechain-Sidechain	95	3.3	2	2.1	0.1	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	244	8.4	15	6.1	0.5	4	1.6	0.1
Backbone-Backbone	38	1.3	3	7.9	0.1	1	2.6	0.0
Backbone-Sidechain	125	4.3	9	7.2	0.3	3	2.4	0.1
Sidechain-Sidechain	81	2.8	3	3.7	0.1	0	0.0	0.0
Long range ($i-j \geq 5$)	1265	43.7	60	4.7	2.1	7	0.6	0.2
Backbone-Backbone	159	5.5	2	1.3	0.1	0	0.0	0.0
Backbone-Sidechain	567	19.6	42	7.4	1.5	7	1.2	0.2
Sidechain-Sidechain	539	18.6	16	3.0	0.6	0	0.0	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2896	100.0	111	3.8	3.8	19	0.7	0.7
Backbone-Backbone	428	14.8	16	3.7	0.6	6	1.4	0.2
Backbone-Sidechain	1604	55.4	72	4.5	2.5	13	0.8	0.4
Sidechain-Sidechain	864	29.8	23	2.7	0.8	0	0.0	0.0

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

9.1.1 Bar chart : Distribution of distance restraints and violations [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	1	10	5	13	0	29	0.45	1.14	0.27	0.39
2	2	10	5	20	0	37	0.41	1.17	0.31	0.27
3	3	10	5	21	0	39	0.38	1.13	0.28	0.34
4	2	13	5	16	0	36	0.42	1.16	0.29	0.33
5	1	11	4	17	0	33	0.44	1.25	0.32	0.34
6	3	8	5	22	0	38	0.4	1.15	0.3	0.35
7	2	11	5	15	0	33	0.45	1.43	0.35	0.34
8	3	11	5	17	0	36	0.39	1.14	0.27	0.32
9	2	10	5	17	0	34	0.4	1.13	0.29	0.28
10	3	9	5	17	0	34	0.4	1.14	0.29	0.34
11	2	11	7	15	0	35	0.41	1.15	0.32	0.26

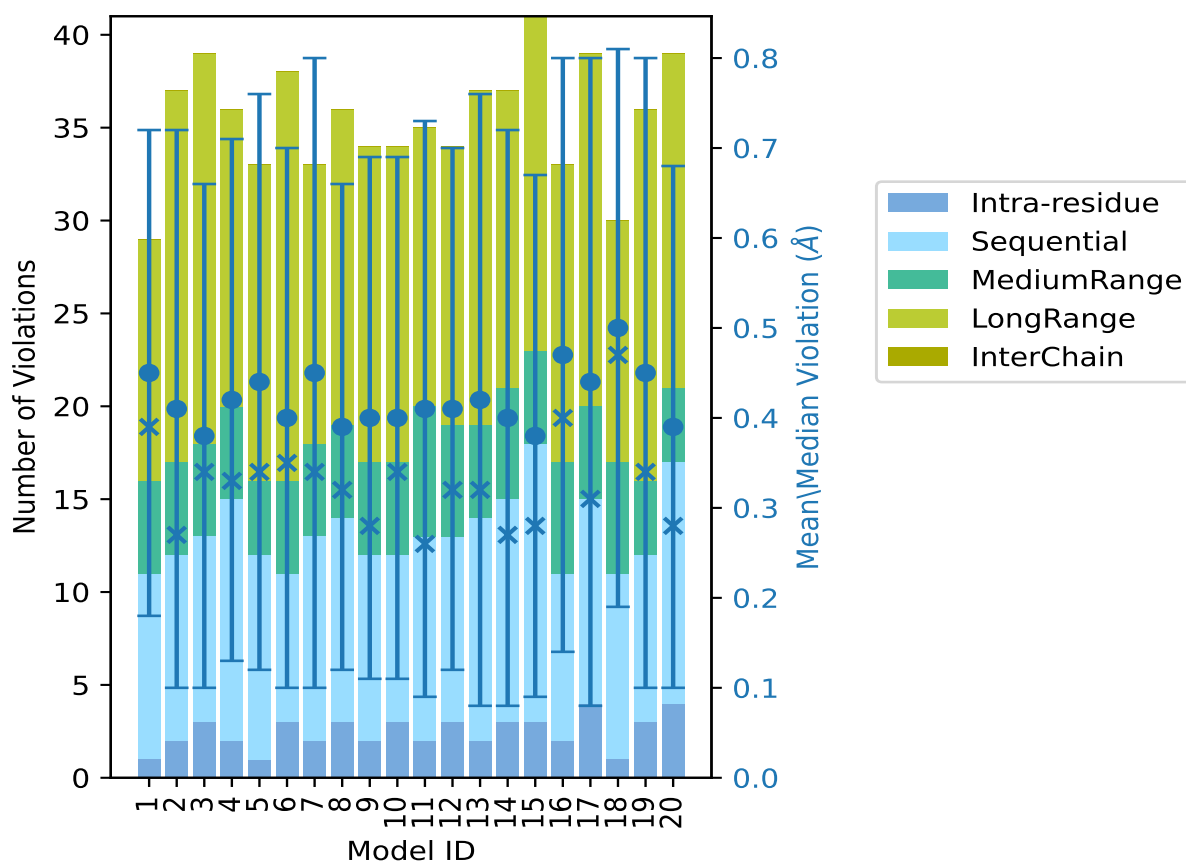
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Model ID	Number of violations					Total	Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵					
12	3	10	6	15	0	34	0.41	1.13	0.29	0.32
13	2	12	5	18	0	37	0.42	1.32	0.34	0.32
14	3	12	6	16	0	37	0.4	1.48	0.32	0.27
15	3	15	5	18	0	41	0.38	1.16	0.29	0.28
16	2	9	6	16	0	33	0.47	1.36	0.33	0.4
17	4	11	5	19	0	39	0.44	1.38	0.36	0.31
18	1	10	6	13	0	30	0.5	1.15	0.31	0.47
19	3	9	4	20	0	36	0.45	1.33	0.35	0.34
20	4	13	4	18	0	39	0.39	1.21	0.29	0.28

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

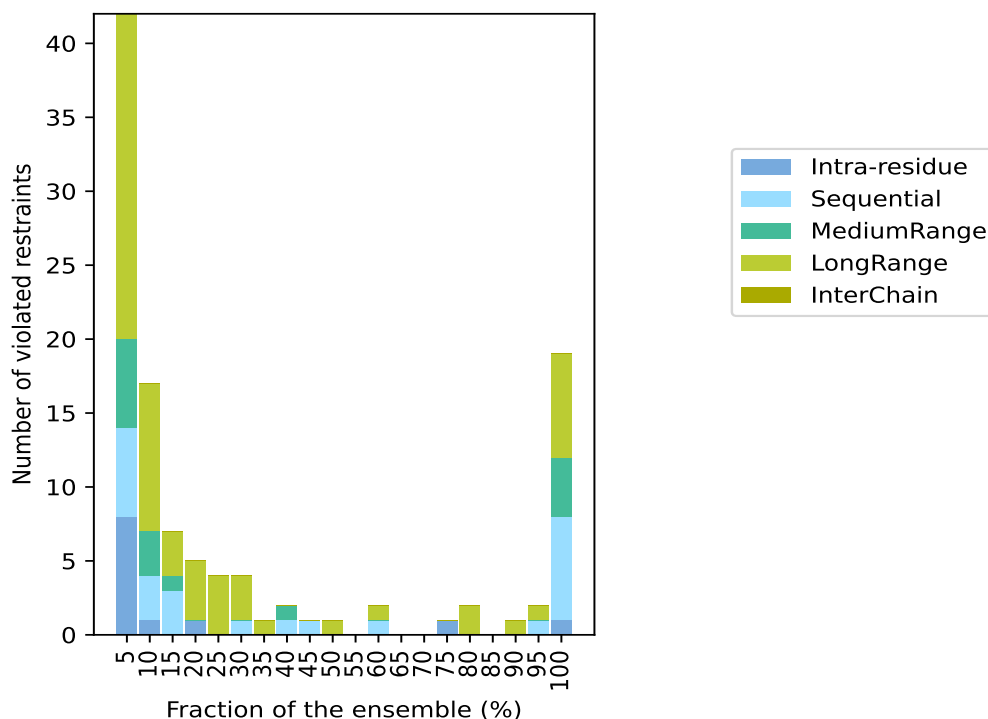
9.3 Distance violation statistics for the ensemble

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, 2785(IR:605, SQ:746, MR:229, LR:1205, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
8	6	6	22	0	42	1	5.0
1	3	3	10	0	17	2	10.0
0	3	1	3	0	7	3	15.0
1	0	0	4	0	5	4	20.0
0	0	0	4	0	4	5	25.0
0	1	0	3	0	4	6	30.0
0	0	0	1	0	1	7	35.0
0	1	1	0	0	2	8	40.0
0	1	0	0	0	1	9	45.0
0	0	0	1	0	1	10	50.0
0	0	0	0	0	0	11	55.0
0	1	0	1	0	2	12	60.0
0	0	0	0	0	0	13	65.0
0	0	0	0	0	0	14	70.0
1	0	0	0	0	1	15	75.0
0	0	0	2	0	2	16	80.0
0	0	0	0	0	0	17	85.0
0	0	0	1	0	1	18	90.0
0	1	0	1	0	2	19	95.0
1	7	4	7	0	19	20	100.0

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

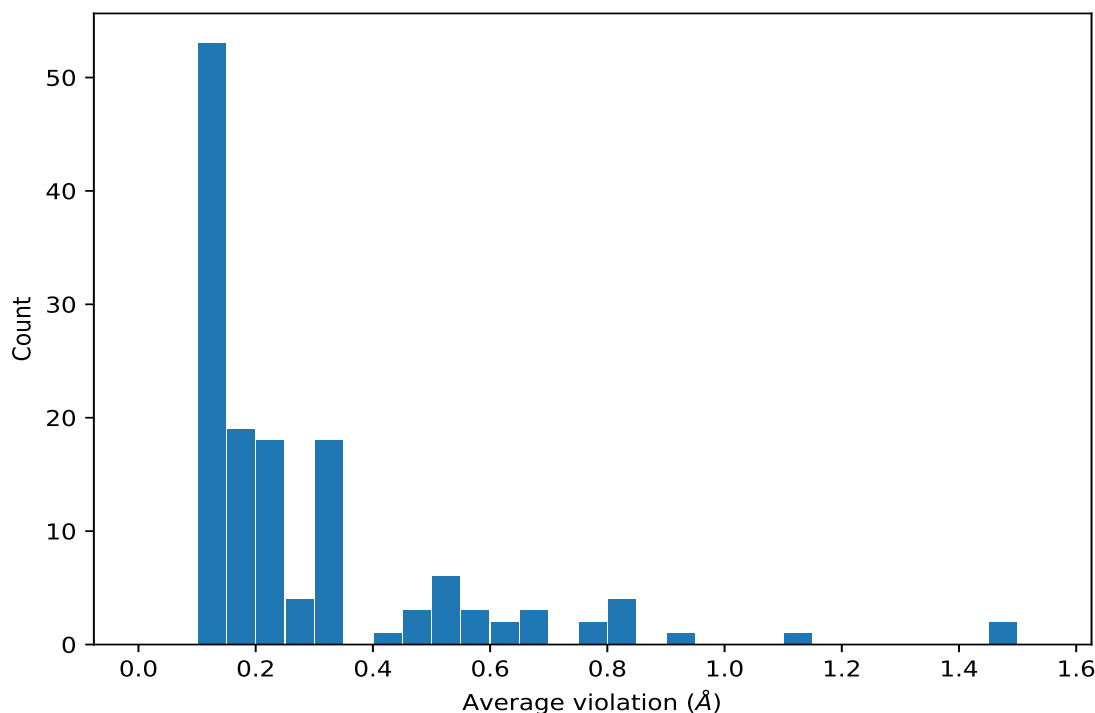
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	20	1.15	0.02	1.14
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	20	0.95	0.2	1.01
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	20	0.84	0.11	0.89
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	20	0.81	0.07	0.82
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	20	0.81	0.07	0.82
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	20	0.8	0.24	0.85
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	20	0.7	0.13	0.71
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	20	0.69	0.06	0.68
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	20	0.68	0.02	0.69
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	20	0.63	0.21	0.6
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	20	0.61	0.17	0.67
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	20	0.54	0.24	0.48
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	20	0.54	0.24	0.48
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	20	0.54	0.24	0.48
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	20	0.53	0.03	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	20	0.53	0.03	0.53

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	20	0.53	0.03	0.53
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	20	0.46	0.07	0.49
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	20	0.46	0.07	0.49
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	20	0.46	0.07	0.49
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	20	0.41	0.05	0.42
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	20	0.33	0.09	0.35
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	20	0.33	0.09	0.35
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	20	0.33	0.09	0.35
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	20	0.33	0.04	0.34
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	20	0.33	0.03	0.33
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	20	0.14	0.03	0.14
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	20	0.13	0.0	0.13
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	19	0.56	0.23	0.51
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	19	0.56	0.23	0.51
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	19	0.56	0.23	0.51
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	19	0.2	0.03	0.19
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	18	0.75	0.31	0.62
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	18	0.75	0.31	0.62
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	16	0.17	0.04	0.18
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	16	0.17	0.04	0.18
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	16	0.16	0.03	0.15
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	16	0.16	0.03	0.15
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	16	0.16	0.03	0.15
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	16	0.16	0.03	0.15
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	16	0.16	0.03	0.15
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	16	0.16	0.03	0.15
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	15	0.11	0.0	0.11
(1,1986)	1:A:287:GLY:HA2	1:A:288:ASN:HB3	12	0.31	0.03	0.31
(1,1856)	1:A:335:ILE:HB	1:A:348:GLY:HA2	12	0.25	0.1	0.28
(1,1617)	1:A:293:PHE:HB3	1:A:303:GLN:HB3	10	0.17	0.05	0.16
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE21	9	0.23	0.13	0.18
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE22	9	0.23	0.13	0.18
(1,2307)	1:A:301:THR:HB	1:A:303:GLN:H	8	0.19	0.04	0.18
(1,2687)	1:A:303:GLN:HB2	1:A:304:ILE:H	8	0.15	0.0	0.15
(1,2687)	1:A:303:GLN:HB3	1:A:304:ILE:H	8	0.15	0.0	0.15
(1,1991)	1:A:332:GLY:HA3	1:A:349:LYS:HB2	7	0.22	0.04	0.2
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD21	6	0.14	0.02	0.14
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD22	6	0.14	0.02	0.14
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD23	6	0.14	0.02	0.14
(1,285)	1:A:294:THR:HB	1:A:301:THR:H	6	0.13	0.02	0.12
(1,1477)	1:A:277:LEU:HD11	1:A:317:TYR:HA	6	0.12	0.01	0.12
(1,1477)	1:A:277:LEU:HD12	1:A:317:TYR:HA	6	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1477)	1:A:277:LEU:HD13	1:A:317:TYR:HA	6	0.12	0.01	0.12
(1,1968)	1:A:284:VAL:HA	1:A:285:LEU:HB3	6	0.11	0.0	0.11
(1,2203)	1:A:292:LYS:HB2	1:A:337:ILE:HA	5	0.17	0.03	0.17
(1,1877)	1:A:292:LYS:HE3	1:A:336:GLU:HB2	5	0.16	0.02	0.15
(1,696)	1:A:293:PHE:HD1	1:A:336:GLU:H	5	0.13	0.03	0.12
(1,696)	1:A:293:PHE:HD2	1:A:336:GLU:H	5	0.13	0.03	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD11	5	0.13	0.01	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD12	5	0.13	0.01	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD13	5	0.13	0.01	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD21	5	0.13	0.01	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD22	5	0.13	0.01	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD23	5	0.13	0.01	0.12
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG11	4	0.22	0.02	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG12	4	0.22	0.02	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG13	4	0.22	0.02	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG21	4	0.22	0.02	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG22	4	0.22	0.02	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG23	4	0.22	0.02	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG11	4	0.22	0.02	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG12	4	0.22	0.02	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG13	4	0.22	0.02	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG21	4	0.22	0.02	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG22	4	0.22	0.02	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG23	4	0.22	0.02	0.23
(1,790)	1:A:292:LYS:H	1:A:292:LYS:HE3	4	0.18	0.02	0.18
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD11	4	0.12	0.0	0.12
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD12	4	0.12	0.0	0.12
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD13	4	0.12	0.0	0.12
(1,2202)	1:A:291:LEU:HB3	1:A:337:ILE:HA	4	0.12	0.0	0.12
(1,645)	1:A:293:PHE:HZ	1:A:329:LEU:H	4	0.11	0.0	0.11
(1,459)	1:A:303:GLN:HA	1:A:304:ILE:H	3	0.15	0.04	0.13
(1,216)	1:A:261:SER:H	1:A:280:ASN:HA	3	0.15	0.0	0.15
(1,1996)	1:A:313:GLY:HA2	1:A:316:GLU:HB2	3	0.13	0.02	0.12
(1,2690)	1:A:303:GLN:HG2	1:A:304:ILE:H	3	0.13	0.02	0.12
(1,2690)	1:A:303:GLN:HG3	1:A:304:ILE:H	3	0.13	0.02	0.12
(1,2661)	1:A:298:ASP:H	1:A:299:LYS:HB2	3	0.13	0.02	0.12
(1,2661)	1:A:298:ASP:H	1:A:299:LYS:HB3	3	0.13	0.02	0.12
(1,1120)	1:A:266:MET:HE1	1:A:329:LEU:H	3	0.12	0.0	0.12
(1,1120)	1:A:266:MET:HE2	1:A:329:LEU:H	3	0.12	0.0	0.12
(1,1120)	1:A:266:MET:HE3	1:A:329:LEU:H	3	0.12	0.0	0.12
(1,1329)	1:A:268:GLN:HG2	1:A:273:LEU:HD11	3	0.12	0.0	0.12
(1,1329)	1:A:268:GLN:HG2	1:A:273:LEU:HD12	3	0.12	0.0	0.12

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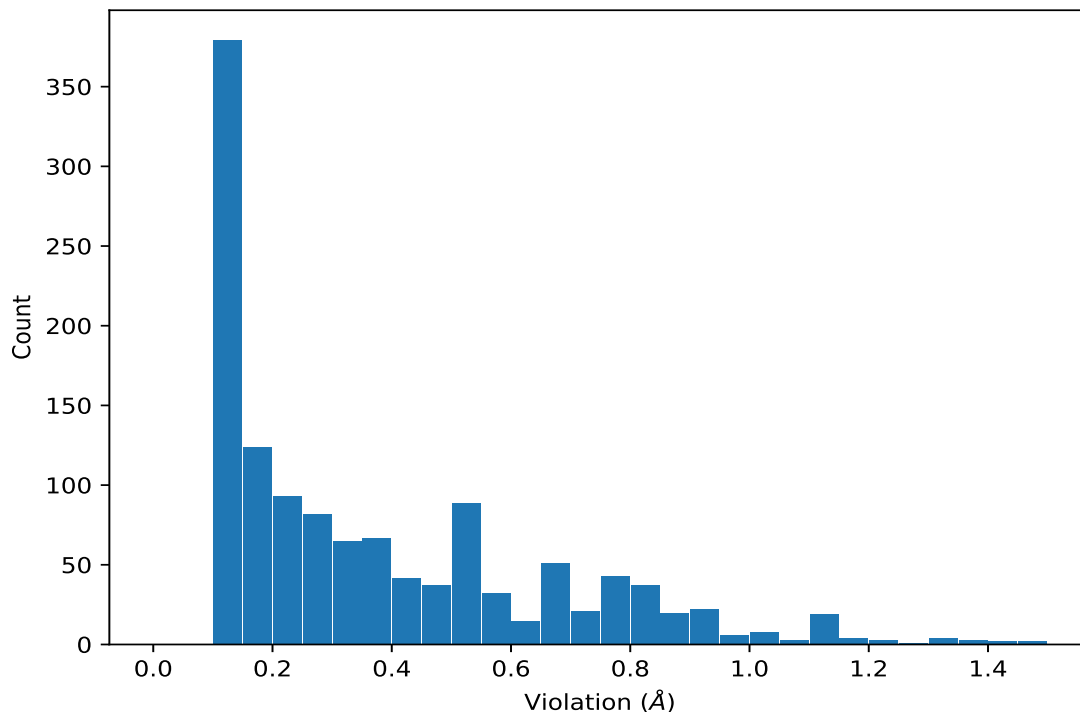
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1329)	1:A:268:GLN:HG2	1:A:273:LEU:HD13	3	0.12	0.0	0.12
(1,2793)	1:A:332:GLY:HA3	1:A:349:LYS:HG2	2	1.46	0.03	1.46
(1,2793)	1:A:332:GLY:HA3	1:A:349:LYS:HG3	2	1.46	0.03	1.46
(1,2601)	1:A:291:LEU:HD11	1:A:292:LYS:HE2	2	0.31	0.05	0.31
(1,2601)	1:A:291:LEU:HD11	1:A:292:LYS:HE3	2	0.31	0.05	0.31
(1,2601)	1:A:291:LEU:HD12	1:A:292:LYS:HE2	2	0.31	0.05	0.31
(1,2601)	1:A:291:LEU:HD12	1:A:292:LYS:HE3	2	0.31	0.05	0.31
(1,2601)	1:A:291:LEU:HD13	1:A:292:LYS:HE2	2	0.31	0.05	0.31
(1,2601)	1:A:291:LEU:HD13	1:A:292:LYS:HE3	2	0.31	0.05	0.31
(1,2601)	1:A:291:LEU:HD21	1:A:292:LYS:HE2	2	0.31	0.05	0.31
(1,2601)	1:A:291:LEU:HD21	1:A:292:LYS:HE3	2	0.31	0.05	0.31
(1,2601)	1:A:291:LEU:HD22	1:A:292:LYS:HE2	2	0.31	0.05	0.31
(1,2601)	1:A:291:LEU:HD22	1:A:292:LYS:HE3	2	0.31	0.05	0.31
(1,2601)	1:A:291:LEU:HD23	1:A:292:LYS:HE2	2	0.31	0.05	0.31
(1,2601)	1:A:291:LEU:HD23	1:A:292:LYS:HE3	2	0.31	0.05	0.31
(1,2851)	1:A:349:LYS:HG2	1:A:351:GLY:H	2	0.26	0.01	0.26
(1,2851)	1:A:349:LYS:HG3	1:A:351:GLY:H	2	0.26	0.01	0.26
(1,1876)	1:A:292:LYS:H	1:A:292:LYS:HE2	2	0.26	0.03	0.26
(1,819)	1:A:263:GLN:H	1:A:277:LEU:HG	2	0.22	0.01	0.22
(1,1852)	1:A:292:LYS:HA	1:A:304:ILE:HB	2	0.2	0.0	0.2
(1,2780)	1:A:329:LEU:HD11	1:A:354:PRO:HA	2	0.19	0.01	0.19
(1,2780)	1:A:329:LEU:HD12	1:A:354:PRO:HA	2	0.19	0.01	0.19
(1,2780)	1:A:329:LEU:HD13	1:A:354:PRO:HA	2	0.19	0.01	0.19
(1,2780)	1:A:329:LEU:HD21	1:A:354:PRO:HA	2	0.19	0.01	0.19
(1,2780)	1:A:329:LEU:HD22	1:A:354:PRO:HA	2	0.19	0.01	0.19
(1,2780)	1:A:329:LEU:HD23	1:A:354:PRO:HA	2	0.19	0.01	0.19
(1,2351)	1:A:266:MET:HB3	1:A:350:TYR:HD1	2	0.15	0.02	0.15
(1,2351)	1:A:266:MET:HB3	1:A:350:TYR:HD2	2	0.15	0.02	0.15
(1,1613)	1:A:334:THR:HA	1:A:349:LYS:HD3	2	0.14	0.01	0.14
(1,951)	1:A:338:GLU:H	1:A:344:VAL:HB	2	0.14	0.02	0.14
(1,817)	1:A:262:LEU:H	1:A:263:GLN:H	2	0.13	0.02	0.13
(1,972)	1:A:304:ILE:H	1:A:305:ILE:H	2	0.13	0.02	0.13
(1,1665)	1:A:266:MET:HG2	1:A:276:GLN:H	2	0.13	0.02	0.13
(1,1889)	1:A:292:LYS:HE2	1:A:336:GLU:HB2	2	0.13	0.01	0.13
(1,2648)	1:A:295:ASP:HB3	1:A:303:GLN:HE21	2	0.13	0.02	0.13
(1,2648)	1:A:295:ASP:HB3	1:A:303:GLN:HE22	2	0.13	0.02	0.13
(1,1305)	1:A:302:THR:HG21	1:A:304:ILE:HB	2	0.12	0.0	0.12
(1,1305)	1:A:302:THR:HG22	1:A:304:ILE:HB	2	0.12	0.0	0.12
(1,1305)	1:A:302:THR:HG23	1:A:304:ILE:HB	2	0.12	0.0	0.12
(1,421)	1:A:339:ASN:H	1:A:343:GLU:HA	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)
(1,2793)	1:A:332:GLY:HA3	1:A:349:LYS:HG2	14	1.48
(1,2793)	1:A:332:GLY:HA3	1:A:349:LYS:HG3	14	1.48
(1,2793)	1:A:332:GLY:HA3	1:A:349:LYS:HG2	7	1.43
(1,2793)	1:A:332:GLY:HA3	1:A:349:LYS:HG3	7	1.43
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	17	1.38
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	16	1.36
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	16	1.36
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	19	1.33
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	19	1.33
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	13	1.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	13	1.32
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	5	1.25
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	17	1.21
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	17	1.21
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	20	1.21
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	19	1.18
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	2	1.17
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	4	1.16
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	15	1.16
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	6	1.15
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	7	1.15
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	11	1.15
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	13	1.15
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	18	1.15
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	6	1.15
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	1	1.14
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	5	1.14
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	8	1.14
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	14	1.14
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	10	1.14
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	3	1.13
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	9	1.13
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	10	1.13
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	12	1.13
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	17	1.13
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	15	1.13
(1,1969)	1:A:285:LEU:HB3	1:A:313:GLY:HA3	16	1.12
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	13	1.1
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	16	1.09
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	18	1.06
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	19	1.06
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	11	1.04
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	2	1.03
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	18	1.03
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	20	1.02
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	6	1.01
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	6	1.01
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	6	1.01
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	17	1.0
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	11	0.99
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	8	0.99
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	2	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	17	0.97
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	12	0.96
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	18	0.96
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	12	0.95
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	7	0.95
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	13	0.95
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	19	0.95
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	17	0.94
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	17	0.94
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	10	0.94
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	10	0.94
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	7	0.93
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	20	0.93
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	13	0.92
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	13	0.92
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	13	0.92
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	5	0.91
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	11	0.91
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	11	0.9
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	3	0.9
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	1	0.9
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	15	0.9
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	5	0.9
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	5	0.9
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	5	0.9
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	6	0.89
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	6	0.89
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	4	0.89
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	9	0.89
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	16	0.89
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	18	0.89
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	18	0.89
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	18	0.89
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	19	0.88
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	5	0.88
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	5	0.88
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	9	0.87
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	14	0.87
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	4	0.87
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	4	0.87
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	2	0.87
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	13	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	4	0.86
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	3	0.86
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	3	0.86
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	1	0.85
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	1	0.85
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	19	0.84
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	19	0.84
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	15	0.83
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	19	0.83
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	16	0.83
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	7	0.83
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	7	0.83
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	15	0.83
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	15	0.83
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	11	0.82
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	14	0.82
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	2	0.82
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	2	0.82
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	13	0.82
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	13	0.82
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	3	0.82
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	3	0.82
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	3	0.82
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	4	0.82
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	4	0.82
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	4	0.82
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	9	0.81
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	20	0.81
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	2	0.81
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	9	0.81
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	9	0.81
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	18	0.81
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	18	0.81
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	8	0.81
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	8	0.81
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	8	0.81
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	18	0.8
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	4	0.8
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	4	0.8
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	4	0.8
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	12	0.79
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	10	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	10	0.79
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	20	0.79
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	11	0.79
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	12	0.79
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	14	0.79
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	13	0.78
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	18	0.78
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	2	0.78
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	1	0.78
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	7	0.78
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	16	0.78
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	16	0.78
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	10	0.78
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	7	0.77
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	2	0.77
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	12	0.77
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	11	0.77
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	11	0.77
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	14	0.77
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	14	0.77
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	16	0.77
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	16	0.77
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	16	0.77
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	18	0.76
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	20	0.76
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	3	0.76
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	8	0.76
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	8	0.76
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	8	0.76
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	3	0.75
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	5	0.75
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	5	0.75
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	9	0.75
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	5	0.75
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	6	0.75
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	1	0.75
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	1	0.75
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	1	0.75
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	19	0.75
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	19	0.75
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	19	0.75
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	9	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	7	0.74
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	7	0.74
(1,2576)	1:A:287:GLY:HA3	1:A:307:MET:HG2	19	0.73
(1,2576)	1:A:287:GLY:HA3	1:A:307:MET:HG3	19	0.73
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	14	0.73
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	17	0.73
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	17	0.73
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	20	0.73
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	20	0.73
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	4	0.72
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	4	0.72
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	16	0.72
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	2	0.71
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	1	0.71
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	10	0.71
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	4	0.71
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	15	0.71
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	10	0.71
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	10	0.71
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	10	0.71
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	6	0.7
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	7	0.7
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	10	0.7
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	19	0.7
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	4	0.7
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	19	0.7
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	12	0.7
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	1	0.69
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	5	0.69
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	12	0.69
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	13	0.69
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	14	0.69
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	18	0.69
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	6	0.69
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	1	0.69
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	1	0.69
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	8	0.69
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	8	0.69
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	7	0.69
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	3	0.68
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	4	0.68
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	8	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	9	0.68
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	16	0.68
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	2	0.68
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	17	0.68
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD2	12	0.68
(1,1612)	1:A:332:GLY:HA3	1:A:349:LYS:HD3	12	0.68
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	3	0.68
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	3	0.68
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	3	0.68
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	6	0.68
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	6	0.68
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	6	0.68
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	11	0.67
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	15	0.67
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	17	0.67
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	16	0.67
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	15	0.67
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	19	0.67
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	3	0.67
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	20	0.67
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	20	0.67
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	20	0.67
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	4	0.66
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	11	0.66
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	17	0.66
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	8	0.65
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	2	0.65
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	2	0.65
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	2	0.65
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	19	0.64
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	20	0.64
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	5	0.63
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	15	0.63
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	15	0.63
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	5	0.63
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	8	0.62
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	6	0.61
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	6	0.61
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	5	0.61
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	16	0.61
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	9	0.61
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	16	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	16	0.61
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	16	0.61
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	9	0.6
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	6	0.6
(1,1589)	1:A:348:GLY:HA2	1:A:358:LEU:HG	14	0.6
(1,861)	1:A:286:ALA:H	1:A:287:GLY:HA3	20	0.59
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	14	0.59
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	4	0.59
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	11	0.59
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	11	0.59
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	11	0.59
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	3	0.58
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	8	0.58
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	8	0.58
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	8	0.58
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	15	0.58
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	15	0.58
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	15	0.58
(1,625)	1:A:329:LEU:H	1:A:329:LEU:HG	17	0.57
(1,586)	1:A:312:ILE:H	1:A:313:GLY:HA3	15	0.57
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	1	0.57
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	1	0.55
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	16	0.55
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	6	0.55
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	12	0.55
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	17	0.55
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	17	0.55
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	17	0.55
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	12	0.55
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	12	0.55
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	12	0.55
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	19	0.55
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	19	0.55
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	19	0.55
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	13	0.54
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	18	0.54
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	10	0.54
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	10	0.54
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	10	0.54
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	16	0.54
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	16	0.54
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	16	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	20	0.54
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	20	0.54
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	20	0.54
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	3	0.53
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	3	0.53
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	9	0.53
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	9	0.53
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	8	0.53
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	12	0.53
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	12	0.53
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	12	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	5	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	5	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	5	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	7	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	7	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	7	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	9	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	9	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	9	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	15	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	15	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	15	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	18	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	18	0.53
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	18	0.53
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	20	0.52
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	20	0.52
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	8	0.52
(1,164)	1:A:287:GLY:HA2	1:A:288:ASN:HD21	14	0.52
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	3	0.52
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	16	0.52
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	16	0.52
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	16	0.52
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	18	0.52
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	18	0.52
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	18	0.52
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	2	0.52
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	2	0.52
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	2	0.52
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	4	0.52
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	4	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	4	0.52
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	17	0.52
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	17	0.52
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	17	0.52
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	1	0.51
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	15	0.51
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	15	0.51
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	15	0.51
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	19	0.51
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	19	0.51
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	19	0.51
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	20	0.51
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	20	0.51
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	20	0.51
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	5	0.51
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	5	0.51
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	5	0.51
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	1	0.51
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	1	0.51
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	1	0.51
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	3	0.51
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	3	0.51
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	3	0.51
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	13	0.51
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	13	0.51
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	13	0.51
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	14	0.51
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	14	0.51
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	14	0.51
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	18	0.5
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	18	0.5
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	8	0.5
(1,1794)	1:A:338:GLU:HG3	1:A:342:GLY:HA3	10	0.5
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	4	0.5
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	4	0.5
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	4	0.5
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	9	0.5
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	9	0.5
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	9	0.5
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	8	0.49
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	8	0.49
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	11	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	11	0.49
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	2	0.49
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	2	0.49
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	2	0.49
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	11	0.49
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	11	0.49
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	11	0.49
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	2	0.48
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	2	0.48
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	18	0.48
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	1	0.48
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	1	0.48
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	1	0.48
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	13	0.48
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	13	0.48
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	13	0.48
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE2	12	0.47
(1,2794)	1:A:332:GLY:HA3	1:A:349:LYS:HE3	12	0.47
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	2	0.47
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	2	0.47
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	2	0.47
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	10	0.47
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	10	0.47
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	10	0.47
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE21	18	0.46
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE22	18	0.46
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	6	0.46
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	6	0.46
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	3	0.46
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	17	0.46
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	17	0.46
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	17	0.46
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	14	0.45
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	13	0.45
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE21	16	0.44
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE22	16	0.44
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	10	0.44
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	12	0.44
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD11	6	0.44
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD12	6	0.44
(1,1108)	1:A:348:GLY:HA2	1:A:356:ILE:HD13	6	0.44
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	3	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	5	0.43
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	9	0.43
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	7	0.43
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	7	0.43
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	7	0.43
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	15	0.43
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	15	0.43
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	15	0.43
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	3	0.43
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	3	0.43
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	3	0.43
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	15	0.43
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	15	0.43
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	15	0.43
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	4	0.42
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	7	0.42
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	1	0.42
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	10	0.42
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	3	0.42
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	3	0.42
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	3	0.42
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	10	0.42
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	10	0.42
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	10	0.42
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	15	0.41
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	17	0.41
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	19	0.41
(1,2004)	1:A:338:GLU:HB3	1:A:342:GLY:HA3	10	0.41
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	6	0.41
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	6	0.41
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	6	0.41
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	16	0.4
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	20	0.4
(1,1856)	1:A:335:ILE:HB	1:A:348:GLY:HA2	6	0.4
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	1	0.39
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	8	0.39
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	11	0.39
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	5	0.39
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	5	0.39
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	5	0.39
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	13	0.39
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	13	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	13	0.39
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	19	0.39
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	19	0.39
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	19	0.39
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	7	0.38
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	15	0.38
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	14	0.38
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	14	0.38
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	14	0.38
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	6	0.38
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	6	0.38
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	6	0.38
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	10	0.38
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	10	0.38
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	10	0.38
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	14	0.38
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	14	0.38
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	14	0.38
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	16	0.37
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	18	0.37
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	19	0.37
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	1	0.37
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	1	0.37
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	1	0.37
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	7	0.37
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	7	0.37
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	7	0.37
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	13	0.37
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	13	0.37
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	13	0.37
(1,2601)	1:A:291:LEU:HD11	1:A:292:LYS:HE2	15	0.36
(1,2601)	1:A:291:LEU:HD11	1:A:292:LYS:HE3	15	0.36
(1,2601)	1:A:291:LEU:HD12	1:A:292:LYS:HE2	15	0.36
(1,2601)	1:A:291:LEU:HD12	1:A:292:LYS:HE3	15	0.36
(1,2601)	1:A:291:LEU:HD13	1:A:292:LYS:HE2	15	0.36
(1,2601)	1:A:291:LEU:HD13	1:A:292:LYS:HE3	15	0.36
(1,2601)	1:A:291:LEU:HD21	1:A:292:LYS:HE2	15	0.36
(1,2601)	1:A:291:LEU:HD21	1:A:292:LYS:HE3	15	0.36
(1,2601)	1:A:291:LEU:HD22	1:A:292:LYS:HE2	15	0.36
(1,2601)	1:A:291:LEU:HD22	1:A:292:LYS:HE3	15	0.36
(1,2601)	1:A:291:LEU:HD23	1:A:292:LYS:HE2	15	0.36
(1,2601)	1:A:291:LEU:HD23	1:A:292:LYS:HE3	15	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	2	0.36
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	8	0.36
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	14	0.36
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	16	0.36
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	2	0.36
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	6	0.36
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	8	0.36
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	10	0.36
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	13	0.36
(1,1856)	1:A:335:ILE:HB	1:A:348:GLY:HA2	4	0.36
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	20	0.36
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	9	0.36
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	9	0.36
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	9	0.36
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	18	0.36
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	18	0.36
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	18	0.36
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	1	0.35
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	6	0.35
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	15	0.35
(1,1986)	1:A:287:GLY:HA2	1:A:288:ASN:HB3	3	0.35
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	6	0.35
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	13	0.35
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	11	0.35
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	11	0.35
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	11	0.35
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	12	0.35
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	12	0.35
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	12	0.35
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	16	0.35
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	16	0.35
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	16	0.35
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	17	0.35
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	17	0.35
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	17	0.35
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	3	0.34
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	4	0.34
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	17	0.34
(1,1986)	1:A:287:GLY:HA2	1:A:288:ASN:HB3	14	0.34
(1,1856)	1:A:335:ILE:HB	1:A:348:GLY:HA2	3	0.34
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	8	0.34
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	5	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	7	0.34
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	7	0.34
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	7	0.34
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	5	0.34
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	5	0.34
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	5	0.34
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	4	0.33
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	13	0.33
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	15	0.33
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	2	0.33
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	1	0.33
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	3	0.33
(1,1856)	1:A:335:ILE:HB	1:A:348:GLY:HA2	8	0.33
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	4	0.33
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	4	0.33
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	4	0.33
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	20	0.33
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	20	0.33
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	20	0.33
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	10	0.32
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	17	0.32
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	18	0.32
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	7	0.32
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	12	0.32
(1,1986)	1:A:287:GLY:HA2	1:A:288:ASN:HB3	1	0.32
(1,1986)	1:A:287:GLY:HA2	1:A:288:ASN:HB3	9	0.32
(1,1986)	1:A:287:GLY:HA2	1:A:288:ASN:HB3	12	0.32
(1,1856)	1:A:335:ILE:HB	1:A:348:GLY:HA2	13	0.32
(1,1799)	1:A:338:GLU:HG2	1:A:342:GLY:HA3	10	0.32
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	8	0.32
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	8	0.32
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	8	0.32
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	9	0.31
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	19	0.31
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	5	0.31
(1,1986)	1:A:287:GLY:HA2	1:A:288:ASN:HB3	4	0.31
(1,1986)	1:A:287:GLY:HA2	1:A:288:ASN:HB3	17	0.31
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	12	0.31
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	12	0.31
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	12	0.31
(1,1986)	1:A:287:GLY:HA2	1:A:288:ASN:HB3	8	0.3
(1,1986)	1:A:287:GLY:HA2	1:A:288:ASN:HB3	20	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	1	0.3
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	1	0.3
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	1	0.3
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	8	0.3
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	8	0.3
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	8	0.3
(1,822)	1:A:289:CYS:HB3	1:A:307:MET:H	5	0.29
(1,2307)	1:A:301:THR:HB	1:A:303:GLN:H	12	0.29
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	18	0.29
(1,1991)	1:A:332:GLY:HA3	1:A:349:LYS:HB2	11	0.29
(1,1986)	1:A:287:GLY:HA2	1:A:288:ASN:HB3	18	0.29
(1,1856)	1:A:335:ILE:HB	1:A:348:GLY:HA2	5	0.29
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD11	14	0.29
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD12	14	0.29
(1,1485)	1:A:348:GLY:HA2	1:A:358:LEU:HD13	14	0.29
(1,510)	1:A:284:VAL:H	1:A:285:LEU:HA	20	0.28
(1,505)	1:A:284:VAL:H	1:A:284:VAL:HG11	20	0.28
(1,505)	1:A:284:VAL:H	1:A:284:VAL:HG12	20	0.28
(1,505)	1:A:284:VAL:H	1:A:284:VAL:HG13	20	0.28
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	5	0.28
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	20	0.28
(1,1876)	1:A:292:LYS:H	1:A:292:LYS:HE2	15	0.28
(1,1619)	1:A:348:GLY:HA3	1:A:349:LYS:HD2	4	0.28
(1,1100)	1:A:307:MET:H	1:A:307:MET:HE1	19	0.28
(1,1100)	1:A:307:MET:H	1:A:307:MET:HE2	19	0.28
(1,1100)	1:A:307:MET:H	1:A:307:MET:HE3	19	0.28
(1,2851)	1:A:349:LYS:HG2	1:A:351:GLY:H	7	0.27
(1,2851)	1:A:349:LYS:HG3	1:A:351:GLY:H	7	0.27
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	12	0.27
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	14	0.27
(1,1991)	1:A:332:GLY:HA3	1:A:349:LYS:HB2	2	0.27
(1,1986)	1:A:287:GLY:HA2	1:A:288:ASN:HB3	13	0.27
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	17	0.27
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	17	0.27
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	17	0.27
(1,2601)	1:A:291:LEU:HD11	1:A:292:LYS:HE2	20	0.26
(1,2601)	1:A:291:LEU:HD11	1:A:292:LYS:HE3	20	0.26
(1,2601)	1:A:291:LEU:HD12	1:A:292:LYS:HE2	20	0.26
(1,2601)	1:A:291:LEU:HD12	1:A:292:LYS:HE3	20	0.26
(1,2601)	1:A:291:LEU:HD13	1:A:292:LYS:HE2	20	0.26
(1,2601)	1:A:291:LEU:HD13	1:A:292:LYS:HE3	20	0.26
(1,2601)	1:A:291:LEU:HD21	1:A:292:LYS:HE2	20	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2601)	1:A:291:LEU:HD21	1:A:292:LYS:HE3	20	0.26
(1,2601)	1:A:291:LEU:HD22	1:A:292:LYS:HE2	20	0.26
(1,2601)	1:A:291:LEU:HD22	1:A:292:LYS:HE3	20	0.26
(1,2601)	1:A:291:LEU:HD23	1:A:292:LYS:HE2	20	0.26
(1,2601)	1:A:291:LEU:HD23	1:A:292:LYS:HE3	20	0.26
(1,2031)	1:A:347:LEU:HB2	1:A:348:GLY:HA3	11	0.26
(1,2008)	1:A:313:GLY:HA2	1:A:316:GLU:H	13	0.26
(1,1856)	1:A:335:ILE:HB	1:A:348:GLY:HA2	18	0.26
(1,1617)	1:A:293:PHE:HB3	1:A:303:GLN:HB3	11	0.26
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	20	0.26
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	20	0.26
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	20	0.26
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	18	0.26
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	18	0.26
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	18	0.26
(1,2851)	1:A:349:LYS:HG2	1:A:351:GLY:H	14	0.25
(1,2851)	1:A:349:LYS:HG3	1:A:351:GLY:H	14	0.25
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE21	1	0.25
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE22	1	0.25
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG11	13	0.25
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG12	13	0.25
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG13	13	0.25
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG21	13	0.25
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG22	13	0.25
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG23	13	0.25
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG11	13	0.25
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG12	13	0.25
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG13	13	0.25
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG21	13	0.25
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG22	13	0.25
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG23	13	0.25
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	11	0.25
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	14	0.25
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	14	0.25
(1,1506)	1:A:268:GLN:HB2	1:A:329:LEU:HG	17	0.25
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	9	0.25
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	9	0.25
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	9	0.25
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	20	0.24
(1,1986)	1:A:287:GLY:HA2	1:A:288:ASN:HB3	15	0.24
(1,1617)	1:A:293:PHE:HB3	1:A:303:GLN:HB3	4	0.24
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	14	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	14	0.24
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	14	0.24
(1,819)	1:A:263:GLN:H	1:A:277:LEU:HG	2	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG11	8	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG12	8	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG13	8	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG21	8	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG22	8	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG23	8	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG11	8	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG12	8	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG13	8	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG21	8	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG22	8	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG23	8	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG11	10	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG12	10	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG13	10	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG21	10	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG22	10	0.23
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG23	10	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG11	10	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG12	10	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG13	10	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG21	10	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG22	10	0.23
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG23	10	0.23
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	5	0.23
(1,2005)	1:A:341:TYR:H	1:A:342:GLY:HA3	9	0.23
(1,1876)	1:A:292:LYS:H	1:A:292:LYS:HE2	20	0.23
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	2	0.23
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	2	0.23
(1,819)	1:A:263:GLN:H	1:A:277:LEU:HG	4	0.22
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	1	0.22
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	4	0.22
(1,1115)	1:A:266:MET:HG2	1:A:266:MET:HE1	12	0.22
(1,1115)	1:A:266:MET:HG2	1:A:266:MET:HE2	12	0.22
(1,1115)	1:A:266:MET:HG2	1:A:266:MET:HE3	12	0.22
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	9	0.22
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	9	0.22
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	9	0.22
(1,1060)	1:A:335:ILE:HD11	1:A:348:GLY:HA2	11	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1060)	1:A:335:ILE:HD12	1:A:348:GLY:HA2	11	0.22
(1,1060)	1:A:335:ILE:HD13	1:A:348:GLY:HA2	11	0.22
(1,459)	1:A:303:GLN:HA	1:A:304:ILE:H	14	0.21
(1,2477)	1:A:268:GLN:HG2	1:A:329:LEU:HG	17	0.21
(1,2477)	1:A:268:GLN:HG3	1:A:329:LEU:HG	17	0.21
(1,2203)	1:A:292:LYS:HB2	1:A:337:ILE:HA	20	0.21
(1,1991)	1:A:332:GLY:HA3	1:A:349:LYS:HB2	3	0.21
(1,1877)	1:A:292:LYS:HE3	1:A:336:GLU:HB2	11	0.21
(1,1617)	1:A:293:PHE:HB3	1:A:303:GLN:HB3	8	0.21
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	15	0.21
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	15	0.21
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	2	0.21
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	2	0.21
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	2	0.21
(1,790)	1:A:292:LYS:H	1:A:292:LYS:HE3	6	0.2
(1,2780)	1:A:329:LEU:HD11	1:A:354:PRO:HA	6	0.2
(1,2780)	1:A:329:LEU:HD12	1:A:354:PRO:HA	6	0.2
(1,2780)	1:A:329:LEU:HD13	1:A:354:PRO:HA	6	0.2
(1,2780)	1:A:329:LEU:HD21	1:A:354:PRO:HA	6	0.2
(1,2780)	1:A:329:LEU:HD22	1:A:354:PRO:HA	6	0.2
(1,2780)	1:A:329:LEU:HD23	1:A:354:PRO:HA	6	0.2
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	16	0.2
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	16	0.2
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	16	0.2
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	16	0.2
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	16	0.2
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	16	0.2
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	19	0.2
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	19	0.2
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	19	0.2
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	19	0.2
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	19	0.2
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	19	0.2
(1,2307)	1:A:301:THR:HB	1:A:303:GLN:H	1	0.2
(1,2203)	1:A:292:LYS:HB2	1:A:337:ILE:HA	15	0.2
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	7	0.2
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	9	0.2
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	10	0.2
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	12	0.2
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	17	0.2
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	19	0.2
(1,1991)	1:A:332:GLY:HA3	1:A:349:LYS:HB2	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1856)	1:A:335:ILE:HB	1:A:348:GLY:HA2	16	0.2
(1,1852)	1:A:292:LYS:HA	1:A:304:ILE:HB	15	0.2
(1,1852)	1:A:292:LYS:HA	1:A:304:ILE:HB	20	0.2
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	9	0.2
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	9	0.2
(1,790)	1:A:292:LYS:H	1:A:292:LYS:HE3	13	0.19
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG11	6	0.19
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG12	6	0.19
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG13	6	0.19
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG21	6	0.19
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG22	6	0.19
(1,2630)	1:A:292:LYS:HE2	1:A:344:VAL:HG23	6	0.19
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG11	6	0.19
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG12	6	0.19
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG13	6	0.19
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG21	6	0.19
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG22	6	0.19
(1,2630)	1:A:292:LYS:HE3	1:A:344:VAL:HG23	6	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	4	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	4	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	4	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	4	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	4	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	4	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	7	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	7	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	7	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	7	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	7	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	7	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	18	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	18	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	18	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	18	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	18	0.19
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	18	0.19
(1,2307)	1:A:301:THR:HB	1:A:303:GLN:H	4	0.19
(1,2307)	1:A:301:THR:HB	1:A:303:GLN:H	13	0.19
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	3	0.19
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	5	0.19
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	6	0.19
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	8	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	11	0.19
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	14	0.19
(1,1991)	1:A:332:GLY:HA3	1:A:349:LYS:HB2	18	0.19
(1,1517)	1:A:294:THR:HA	1:A:300:PRO:HG3	9	0.19
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	5	0.19
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	5	0.19
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	10	0.19
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	10	0.19
(1,1226)	1:A:335:ILE:HG21	1:A:348:GLY:HA2	11	0.19
(1,1226)	1:A:335:ILE:HG22	1:A:348:GLY:HA2	11	0.19
(1,1226)	1:A:335:ILE:HG23	1:A:348:GLY:HA2	11	0.19
(1,696)	1:A:293:PHE:HD1	1:A:336:GLU:H	14	0.18
(1,696)	1:A:293:PHE:HD2	1:A:336:GLU:H	14	0.18
(1,285)	1:A:294:THR:HB	1:A:301:THR:H	10	0.18
(1,2780)	1:A:329:LEU:HD11	1:A:354:PRO:HA	3	0.18
(1,2780)	1:A:329:LEU:HD12	1:A:354:PRO:HA	3	0.18
(1,2780)	1:A:329:LEU:HD13	1:A:354:PRO:HA	3	0.18
(1,2780)	1:A:329:LEU:HD21	1:A:354:PRO:HA	3	0.18
(1,2780)	1:A:329:LEU:HD22	1:A:354:PRO:HA	3	0.18
(1,2780)	1:A:329:LEU:HD23	1:A:354:PRO:HA	3	0.18
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE21	7	0.18
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE22	7	0.18
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE21	20	0.18
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE22	20	0.18
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	14	0.18
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	14	0.18
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	14	0.18
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	14	0.18
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	14	0.18
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	14	0.18
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	16	0.18
(1,1991)	1:A:332:GLY:HA3	1:A:349:LYS:HB2	9	0.18
(1,1991)	1:A:332:GLY:HA3	1:A:349:LYS:HB2	12	0.18
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	7	0.18
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	7	0.18
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	16	0.18
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	16	0.18
(1,2702)	1:A:307:MET:HA	1:A:307:MET:HG2	19	0.17
(1,2702)	1:A:307:MET:HA	1:A:307:MET:HG3	19	0.17
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE21	13	0.17
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE22	13	0.17
(1,2595)	1:A:291:LEU:H	1:A:307:MET:HB2	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2595)	1:A:291:LEU:H	1:A:307:MET:HB3	19	0.17
(1,2307)	1:A:301:THR:HB	1:A:303:GLN:H	8	0.17
(1,2307)	1:A:301:THR:HB	1:A:303:GLN:H	11	0.17
(1,2203)	1:A:292:LYS:HB2	1:A:337:ILE:HA	10	0.17
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	1	0.17
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	2	0.17
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	13	0.17
(1,1993)	1:A:313:GLY:HA2	1:A:314:ILE:HB	15	0.17
(1,1617)	1:A:293:PHE:HB3	1:A:303:GLN:HB3	3	0.17
(1,1617)	1:A:293:PHE:HB3	1:A:303:GLN:HB3	13	0.17
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	11	0.17
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	11	0.17
(1,1451)	1:A:262:LEU:HD11	1:A:279:ASN:HB3	2	0.17
(1,1451)	1:A:262:LEU:HD12	1:A:279:ASN:HB3	2	0.17
(1,1451)	1:A:262:LEU:HD13	1:A:279:ASN:HB3	2	0.17
(1,790)	1:A:292:LYS:H	1:A:292:LYS:HE3	8	0.16
(1,790)	1:A:292:LYS:H	1:A:292:LYS:HE3	10	0.16
(1,2690)	1:A:303:GLN:HG2	1:A:304:ILE:H	15	0.16
(1,2690)	1:A:303:GLN:HG3	1:A:304:ILE:H	15	0.16
(1,2642)	1:A:295:ASP:H	1:A:329:LEU:HD11	17	0.16
(1,2642)	1:A:295:ASP:H	1:A:329:LEU:HD12	17	0.16
(1,2642)	1:A:295:ASP:H	1:A:329:LEU:HD13	17	0.16
(1,2642)	1:A:295:ASP:H	1:A:329:LEU:HD21	17	0.16
(1,2642)	1:A:295:ASP:H	1:A:329:LEU:HD22	17	0.16
(1,2642)	1:A:295:ASP:H	1:A:329:LEU:HD23	17	0.16
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	12	0.16
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	12	0.16
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	12	0.16
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	12	0.16
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	12	0.16
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	12	0.16
(1,2351)	1:A:266:MET:HB3	1:A:350:TYR:HD1	6	0.16
(1,2351)	1:A:266:MET:HB3	1:A:350:TYR:HD2	6	0.16
(1,2203)	1:A:292:LYS:HB2	1:A:337:ILE:HA	6	0.16
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	3	0.16
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	17	0.16
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	19	0.16
(1,1996)	1:A:313:GLY:HA2	1:A:316:GLU:HB2	15	0.16
(1,1877)	1:A:292:LYS:HE3	1:A:336:GLU:HB2	10	0.16
(1,1617)	1:A:293:PHE:HB3	1:A:303:GLN:HB3	6	0.16
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	20	0.16
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	20	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD21	16	0.16
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD22	16	0.16
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD23	16	0.16
(1,972)	1:A:304:ILE:H	1:A:305:ILE:H	4	0.15
(1,951)	1:A:338:GLU:H	1:A:344:VAL:HB	11	0.15
(1,817)	1:A:262:LEU:H	1:A:263:GLN:H	2	0.15
(1,796)	1:A:332:GLY:HA3	1:A:350:TYR:H	12	0.15
(1,2816)	1:A:344:VAL:H	1:A:344:VAL:HG11	17	0.15
(1,2816)	1:A:344:VAL:H	1:A:344:VAL:HG12	17	0.15
(1,2816)	1:A:344:VAL:H	1:A:344:VAL:HG13	17	0.15
(1,2816)	1:A:344:VAL:H	1:A:344:VAL:HG21	17	0.15
(1,2816)	1:A:344:VAL:H	1:A:344:VAL:HG22	17	0.15
(1,2816)	1:A:344:VAL:H	1:A:344:VAL:HG23	17	0.15
(1,2687)	1:A:303:GLN:HB2	1:A:304:ILE:H	4	0.15
(1,2687)	1:A:303:GLN:HB3	1:A:304:ILE:H	4	0.15
(1,2687)	1:A:303:GLN:HB2	1:A:304:ILE:H	5	0.15
(1,2687)	1:A:303:GLN:HB3	1:A:304:ILE:H	5	0.15
(1,2687)	1:A:303:GLN:HB2	1:A:304:ILE:H	7	0.15
(1,2687)	1:A:303:GLN:HB3	1:A:304:ILE:H	7	0.15
(1,2687)	1:A:303:GLN:HB2	1:A:304:ILE:H	8	0.15
(1,2687)	1:A:303:GLN:HB3	1:A:304:ILE:H	8	0.15
(1,2687)	1:A:303:GLN:HB2	1:A:304:ILE:H	11	0.15
(1,2687)	1:A:303:GLN:HB3	1:A:304:ILE:H	11	0.15
(1,2687)	1:A:303:GLN:HB2	1:A:304:ILE:H	13	0.15
(1,2687)	1:A:303:GLN:HB3	1:A:304:ILE:H	13	0.15
(1,2687)	1:A:303:GLN:HB2	1:A:304:ILE:H	15	0.15
(1,2687)	1:A:303:GLN:HB3	1:A:304:ILE:H	15	0.15
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE21	8	0.15
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE22	8	0.15
(1,2661)	1:A:298:ASP:H	1:A:299:LYS:HB2	12	0.15
(1,2661)	1:A:298:ASP:H	1:A:299:LYS:HB3	12	0.15
(1,2648)	1:A:295:ASP:HB3	1:A:303:GLN:HE21	7	0.15
(1,2648)	1:A:295:ASP:HB3	1:A:303:GLN:HE22	7	0.15
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	20	0.15
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	20	0.15
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	20	0.15
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	20	0.15
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	20	0.15
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	20	0.15
(1,2309)	1:A:295:ASP:HB3	1:A:301:THR:HB	17	0.15
(1,2307)	1:A:301:THR:HB	1:A:303:GLN:H	9	0.15
(1,216)	1:A:261:SER:H	1:A:280:ASN:HA	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,216)	1:A:261:SER:H	1:A:280:ASN:HA	19	0.15
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	4	0.15
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	13	0.15
(1,1877)	1:A:292:LYS:HE3	1:A:336:GLU:HB2	6	0.15
(1,1877)	1:A:292:LYS:HE3	1:A:336:GLU:HB2	8	0.15
(1,1877)	1:A:292:LYS:HE3	1:A:336:GLU:HB2	13	0.15
(1,1856)	1:A:335:ILE:HB	1:A:348:GLY:HA2	10	0.15
(1,1665)	1:A:266:MET:HG2	1:A:276:GLN:H	3	0.15
(1,1617)	1:A:293:PHE:HB3	1:A:303:GLN:HB3	7	0.15
(1,1613)	1:A:334:THR:HA	1:A:349:LYS:HD3	14	0.15
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD21	20	0.15
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD22	20	0.15
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD23	20	0.15
(1,1321)	1:A:329:LEU:HD11	1:A:333:SER:HB2	17	0.15
(1,1321)	1:A:329:LEU:HD12	1:A:333:SER:HB2	17	0.15
(1,1321)	1:A:329:LEU:HD13	1:A:333:SER:HB2	17	0.15
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	7	0.15
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	7	0.15
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	7	0.15
(1,2687)	1:A:303:GLN:HB2	1:A:304:ILE:H	14	0.14
(1,2687)	1:A:303:GLN:HB3	1:A:304:ILE:H	14	0.14
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	11	0.14
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	11	0.14
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	11	0.14
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	11	0.14
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	11	0.14
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	11	0.14
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	13	0.14
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	13	0.14
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	13	0.14
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	13	0.14
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	13	0.14
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	13	0.14
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD11	5	0.14
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD12	5	0.14
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD13	5	0.14
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD21	5	0.14
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD22	5	0.14
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD23	5	0.14
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD11	16	0.14
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD12	16	0.14
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD13	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD21	16	0.14
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD22	16	0.14
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD23	16	0.14
(1,216)	1:A:261:SER:H	1:A:280:ASN:HA	17	0.14
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	9	0.14
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	15	0.14
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	20	0.14
(1,1889)	1:A:292:LYS:HE2	1:A:336:GLU:HB2	20	0.14
(1,1856)	1:A:335:ILE:HB	1:A:348:GLY:HA2	19	0.14
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	1	0.14
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	1	0.14
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD21	9	0.14
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD22	9	0.14
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD23	9	0.14
(1,696)	1:A:293:PHE:HD1	1:A:336:GLU:H	16	0.13
(1,696)	1:A:293:PHE:HD2	1:A:336:GLU:H	16	0.13
(1,459)	1:A:303:GLN:HA	1:A:304:ILE:H	11	0.13
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD11	20	0.13
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD12	20	0.13
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD13	20	0.13
(1,285)	1:A:294:THR:HB	1:A:301:THR:H	1	0.13
(1,285)	1:A:294:THR:HB	1:A:301:THR:H	3	0.13
(1,2626)	1:A:292:LYS:HE2	1:A:293:PHE:H	15	0.13
(1,2626)	1:A:292:LYS:HE3	1:A:293:PHE:H	15	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	5	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	5	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	5	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	5	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	5	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	5	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	8	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	8	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	8	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	8	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	8	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	8	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	15	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	15	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	15	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	15	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	15	0.13
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2351)	1:A:266:MET:HB3	1:A:350:TYR:HD1	3	0.13
(1,2351)	1:A:266:MET:HB3	1:A:350:TYR:HD2	3	0.13
(1,2307)	1:A:301:THR:HB	1:A:303:GLN:H	18	0.13
(1,2265)	1:A:344:VAL:HA	1:A:346:PHE:H	11	0.13
(1,2202)	1:A:291:LEU:HB3	1:A:337:ILE:HA	6	0.13
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	2	0.13
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	8	0.13
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	12	0.13
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	14	0.13
(1,197)	1:A:271:ASN:H	1:A:325:TYR:HD1	1	0.13
(1,197)	1:A:271:ASN:H	1:A:325:TYR:HD2	1	0.13
(1,1856)	1:A:335:ILE:HB	1:A:348:GLY:HA2	2	0.13
(1,1655)	1:A:344:VAL:HB	1:A:345:ILE:H	17	0.13
(1,1617)	1:A:293:PHE:HB3	1:A:303:GLN:HB3	2	0.13
(1,1617)	1:A:293:PHE:HB3	1:A:303:GLN:HB3	15	0.13
(1,1613)	1:A:334:THR:HA	1:A:349:LYS:HD3	7	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	1	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	3	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	4	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	5	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	6	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	7	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	8	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	9	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	10	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	11	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	12	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	13	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	14	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	16	0.13
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	20	0.13
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	19	0.13
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	19	0.13
(1,1477)	1:A:277:LEU:HD11	1:A:317:TYR:HA	5	0.13
(1,1477)	1:A:277:LEU:HD12	1:A:317:TYR:HA	5	0.13
(1,1477)	1:A:277:LEU:HD13	1:A:317:TYR:HA	5	0.13
(1,1477)	1:A:277:LEU:HD11	1:A:317:TYR:HA	9	0.13
(1,1477)	1:A:277:LEU:HD12	1:A:317:TYR:HA	9	0.13
(1,1477)	1:A:277:LEU:HD13	1:A:317:TYR:HA	9	0.13
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD21	17	0.13
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD22	17	0.13
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD23	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,951)	1:A:338:GLU:H	1:A:344:VAL:HB	17	0.12
(1,925)	1:A:330:GLU:H	1:A:331:ALA:H	17	0.12
(1,917)	1:A:301:THR:HG21	1:A:303:GLN:H	16	0.12
(1,917)	1:A:301:THR:HG22	1:A:303:GLN:H	16	0.12
(1,917)	1:A:301:THR:HG23	1:A:303:GLN:H	16	0.12
(1,864)	1:A:266:MET:H	1:A:350:TYR:HE1	3	0.12
(1,864)	1:A:266:MET:H	1:A:350:TYR:HE2	3	0.12
(1,696)	1:A:293:PHE:HD1	1:A:336:GLU:H	4	0.12
(1,696)	1:A:293:PHE:HD2	1:A:336:GLU:H	4	0.12
(1,645)	1:A:293:PHE:HZ	1:A:329:LEU:H	2	0.12
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD11	9	0.12
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD12	9	0.12
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD13	9	0.12
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD11	12	0.12
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD12	12	0.12
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD13	12	0.12
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD11	15	0.12
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD12	15	0.12
(1,38)	1:A:332:GLY:H	1:A:356:ILE:HD13	15	0.12
(1,2825)	1:A:344:VAL:HG11	1:A:361:PRO:HB3	19	0.12
(1,2825)	1:A:344:VAL:HG12	1:A:361:PRO:HB3	19	0.12
(1,2825)	1:A:344:VAL:HG13	1:A:361:PRO:HB3	19	0.12
(1,2825)	1:A:344:VAL:HG21	1:A:361:PRO:HB3	19	0.12
(1,2825)	1:A:344:VAL:HG22	1:A:361:PRO:HB3	19	0.12
(1,2825)	1:A:344:VAL:HG23	1:A:361:PRO:HB3	19	0.12
(1,28)	1:A:295:ASP:HB3	1:A:297:GLY:H	10	0.12
(1,2734)	1:A:315:LYS:HB3	1:A:315:LYS:HE2	3	0.12
(1,2734)	1:A:315:LYS:HB3	1:A:315:LYS:HE3	3	0.12
(1,2690)	1:A:303:GLN:HG2	1:A:304:ILE:H	7	0.12
(1,2690)	1:A:303:GLN:HG3	1:A:304:ILE:H	7	0.12
(1,2661)	1:A:298:ASP:H	1:A:299:LYS:HB2	3	0.12
(1,2661)	1:A:298:ASP:H	1:A:299:LYS:HB3	3	0.12
(1,2649)	1:A:295:ASP:HB3	1:A:329:LEU:HD11	17	0.12
(1,2649)	1:A:295:ASP:HB3	1:A:329:LEU:HD12	17	0.12
(1,2649)	1:A:295:ASP:HB3	1:A:329:LEU:HD13	17	0.12
(1,2649)	1:A:295:ASP:HB3	1:A:329:LEU:HD21	17	0.12
(1,2649)	1:A:295:ASP:HB3	1:A:329:LEU:HD22	17	0.12
(1,2649)	1:A:295:ASP:HB3	1:A:329:LEU:HD23	17	0.12
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	2	0.12
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	2	0.12
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	2	0.12
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	2	0.12
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	2	0.12
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	9	0.12
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	9	0.12
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	9	0.12
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	9	0.12
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	9	0.12
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	9	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD11	9	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD12	9	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD13	9	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD21	9	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD22	9	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD23	9	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD11	15	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD12	15	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD13	15	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD21	15	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD22	15	0.12
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD23	15	0.12
(1,2203)	1:A:292:LYS:HB2	1:A:337:ILE:HA	13	0.12
(1,2202)	1:A:291:LEU:HB3	1:A:337:ILE:HA	8	0.12
(1,2202)	1:A:291:LEU:HB3	1:A:337:ILE:HA	10	0.12
(1,2202)	1:A:291:LEU:HB3	1:A:337:ILE:HA	13	0.12
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	6	0.12
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	7	0.12
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	10	0.12
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	11	0.12
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	16	0.12
(1,2119)	1:A:287:GLY:HA2	1:A:288:ASN:HA	18	0.12
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	16	0.12
(1,1996)	1:A:313:GLY:HA2	1:A:316:GLU:HB2	18	0.12
(1,1968)	1:A:284:VAL:HA	1:A:285:LEU:HB3	13	0.12
(1,1951)	1:A:262:LEU:HB3	1:A:279:ASN:HA	4	0.12
(1,1889)	1:A:292:LYS:HE2	1:A:336:GLU:HB2	15	0.12
(1,1856)	1:A:335:ILE:HB	1:A:348:GLY:HA2	1	0.12
(1,1647)	1:A:343:GLU:HB3	1:A:344:VAL:H	10	0.12
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	2	0.12
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	15	0.12
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	17	0.12
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	18	0.12
(1,16)	1:A:342:GLY:H	1:A:342:GLY:HA3	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	13	0.12
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	13	0.12
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	18	0.12
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	18	0.12
(1,1477)	1:A:277:LEU:HD11	1:A:317:TYR:HA	3	0.12
(1,1477)	1:A:277:LEU:HD12	1:A:317:TYR:HA	3	0.12
(1,1477)	1:A:277:LEU:HD13	1:A:317:TYR:HA	3	0.12
(1,1477)	1:A:277:LEU:HD11	1:A:317:TYR:HA	16	0.12
(1,1477)	1:A:277:LEU:HD12	1:A:317:TYR:HA	16	0.12
(1,1477)	1:A:277:LEU:HD13	1:A:317:TYR:HA	16	0.12
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD21	13	0.12
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD22	13	0.12
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD23	13	0.12
(1,1329)	1:A:268:GLN:HG2	1:A:273:LEU:HD11	2	0.12
(1,1329)	1:A:268:GLN:HG2	1:A:273:LEU:HD12	2	0.12
(1,1329)	1:A:268:GLN:HG2	1:A:273:LEU:HD13	2	0.12
(1,1329)	1:A:268:GLN:HG2	1:A:273:LEU:HD11	6	0.12
(1,1329)	1:A:268:GLN:HG2	1:A:273:LEU:HD12	6	0.12
(1,1329)	1:A:268:GLN:HG2	1:A:273:LEU:HD13	6	0.12
(1,1329)	1:A:268:GLN:HG2	1:A:273:LEU:HD11	20	0.12
(1,1329)	1:A:268:GLN:HG2	1:A:273:LEU:HD12	20	0.12
(1,1329)	1:A:268:GLN:HG2	1:A:273:LEU:HD13	20	0.12
(1,1305)	1:A:302:THR:HG21	1:A:304:ILE:HB	3	0.12
(1,1305)	1:A:302:THR:HG22	1:A:304:ILE:HB	3	0.12
(1,1305)	1:A:302:THR:HG23	1:A:304:ILE:HB	3	0.12
(1,1120)	1:A:266:MET:HE1	1:A:329:LEU:H	7	0.12
(1,1120)	1:A:266:MET:HE2	1:A:329:LEU:H	7	0.12
(1,1120)	1:A:266:MET:HE3	1:A:329:LEU:H	7	0.12
(1,1120)	1:A:266:MET:HE1	1:A:329:LEU:H	14	0.12
(1,1120)	1:A:266:MET:HE2	1:A:329:LEU:H	14	0.12
(1,1120)	1:A:266:MET:HE3	1:A:329:LEU:H	14	0.12
(1,1120)	1:A:266:MET:HE1	1:A:329:LEU:H	19	0.12
(1,1120)	1:A:266:MET:HE2	1:A:329:LEU:H	19	0.12
(1,1120)	1:A:266:MET:HE3	1:A:329:LEU:H	19	0.12
(1,1094)	1:A:289:CYS:HB3	1:A:307:MET:HE1	19	0.12
(1,1094)	1:A:289:CYS:HB3	1:A:307:MET:HE2	19	0.12
(1,1094)	1:A:289:CYS:HB3	1:A:307:MET:HE3	19	0.12
(1,972)	1:A:304:ILE:H	1:A:305:ILE:H	14	0.11
(1,817)	1:A:262:LEU:H	1:A:263:GLN:H	4	0.11
(1,696)	1:A:293:PHE:HD1	1:A:336:GLU:H	5	0.11
(1,696)	1:A:293:PHE:HD2	1:A:336:GLU:H	5	0.11
(1,696)	1:A:293:PHE:HD1	1:A:336:GLU:H	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,696)	1:A:293:PHE:HD2	1:A:336:GLU:H	19	0.11
(1,645)	1:A:293:PHE:HZ	1:A:329:LEU:H	5	0.11
(1,645)	1:A:293:PHE:HZ	1:A:329:LEU:H	6	0.11
(1,645)	1:A:293:PHE:HZ	1:A:329:LEU:H	14	0.11
(1,621)	1:A:273:LEU:HD21	1:A:329:LEU:H	17	0.11
(1,621)	1:A:273:LEU:HD22	1:A:329:LEU:H	17	0.11
(1,621)	1:A:273:LEU:HD23	1:A:329:LEU:H	17	0.11
(1,459)	1:A:303:GLN:HA	1:A:304:ILE:H	4	0.11
(1,439)	1:A:262:LEU:HB3	1:A:347:LEU:H	2	0.11
(1,421)	1:A:339:ASN:H	1:A:343:GLU:HA	11	0.11
(1,421)	1:A:339:ASN:H	1:A:343:GLU:HA	12	0.11
(1,366)	1:A:359:ARG:H	1:A:359:ARG:HD3	14	0.11
(1,321)	1:A:290:LYS:H	1:A:338:GLU:HB3	19	0.11
(1,285)	1:A:294:THR:HB	1:A:301:THR:H	2	0.11
(1,285)	1:A:294:THR:HB	1:A:301:THR:H	6	0.11
(1,285)	1:A:294:THR:HB	1:A:301:THR:H	14	0.11
(1,2690)	1:A:303:GLN:HG2	1:A:304:ILE:H	5	0.11
(1,2690)	1:A:303:GLN:HG3	1:A:304:ILE:H	5	0.11
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE21	11	0.11
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE22	11	0.11
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE21	15	0.11
(1,2680)	1:A:302:THR:HB	1:A:303:GLN:HE22	15	0.11
(1,2661)	1:A:298:ASP:H	1:A:299:LYS:HB2	9	0.11
(1,2661)	1:A:298:ASP:H	1:A:299:LYS:HB3	9	0.11
(1,2648)	1:A:295:ASP:HB3	1:A:303:GLN:HE21	3	0.11
(1,2648)	1:A:295:ASP:HB3	1:A:303:GLN:HE22	3	0.11
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD11	10	0.11
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD12	10	0.11
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD13	10	0.11
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD21	10	0.11
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD22	10	0.11
(1,2457)	1:A:267:ASN:HA	1:A:329:LEU:HD23	10	0.11
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD11	3	0.11
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD12	3	0.11
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD13	3	0.11
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD21	3	0.11
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD22	3	0.11
(1,2434)	1:A:264:ILE:HA	1:A:277:LEU:HD23	3	0.11
(1,2311)	1:A:334:THR:HB	1:A:348:GLY:H	12	0.11
(1,2081)	1:A:331:ALA:HA	1:A:350:TYR:HD1	3	0.11
(1,2081)	1:A:331:ALA:HA	1:A:350:TYR:HD2	3	0.11
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	3	0.11
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	4	0.11
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	6	0.11
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	7	0.11
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	8	0.11
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	9	0.11
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	10	0.11
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	11	0.11
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	12	0.11
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	14	0.11
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	15	0.11
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	17	0.11
(1,2)	1:A:287:GLY:H	1:A:287:GLY:HA2	20	0.11
(1,1996)	1:A:313:GLY:HA2	1:A:316:GLU:HB2	14	0.11
(1,1968)	1:A:284:VAL:HA	1:A:285:LEU:HB3	2	0.11
(1,1968)	1:A:284:VAL:HA	1:A:285:LEU:HB3	5	0.11
(1,1968)	1:A:284:VAL:HA	1:A:285:LEU:HB3	15	0.11
(1,1968)	1:A:284:VAL:HA	1:A:285:LEU:HB3	19	0.11
(1,1968)	1:A:284:VAL:HA	1:A:285:LEU:HB3	20	0.11
(1,1689)	1:A:284:VAL:HB	1:A:285:LEU:H	20	0.11
(1,1665)	1:A:266:MET:HG2	1:A:276:GLN:H	6	0.11
(1,1617)	1:A:293:PHE:HB3	1:A:303:GLN:HB3	20	0.11
(1,1515)	1:A:268:GLN:HE22	1:A:329:LEU:HG	17	0.11
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	4	0.11
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	4	0.11
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD1	8	0.11
(1,1508)	1:A:329:LEU:HG	1:A:350:TYR:HD2	8	0.11
(1,149)	1:A:269:ARG:HB2	1:A:272:SER:H	2	0.11
(1,1477)	1:A:277:LEU:HD11	1:A:317:TYR:HA	8	0.11
(1,1477)	1:A:277:LEU:HD12	1:A:317:TYR:HA	8	0.11
(1,1477)	1:A:277:LEU:HD13	1:A:317:TYR:HA	8	0.11
(1,1477)	1:A:277:LEU:HD11	1:A:317:TYR:HA	15	0.11
(1,1477)	1:A:277:LEU:HD12	1:A:317:TYR:HA	15	0.11
(1,1477)	1:A:277:LEU:HD13	1:A:317:TYR:HA	15	0.11
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD21	12	0.11
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD22	12	0.11
(1,1368)	1:A:348:GLY:HA2	1:A:358:LEU:HD23	12	0.11
(1,1305)	1:A:302:THR:HG21	1:A:304:ILE:HB	6	0.11
(1,1305)	1:A:302:THR:HG22	1:A:304:ILE:HB	6	0.11
(1,1305)	1:A:302:THR:HG23	1:A:304:ILE:HB	6	0.11
(1,1293)	1:A:301:THR:HG21	1:A:303:GLN:HE21	16	0.11
(1,1293)	1:A:301:THR:HG22	1:A:303:GLN:HE21	16	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1293)	1:A:301:THR:HG23	1:A:303:GLN:HE21	16	0.11
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG21	19	0.11
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG22	19	0.11
(1,1214)	1:A:348:GLY:HA2	1:A:356:ILE:HG23	19	0.11

10 Dihedral-angle violation analysis

No dihedral-angle restraints found