



Full wwPDB NMR Structure Validation Report ⓘ

Mar 6, 2026 – 09:17 PM UTC

PDB ID : 2KI7 / pdb_00002ki7
Title : The solution structure of RPP29-RPP21 complex from *Pyrococcus furiosus*
Authors : Xu, Y.; Foster, M.P.
Deposited on : 2009-04-28

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

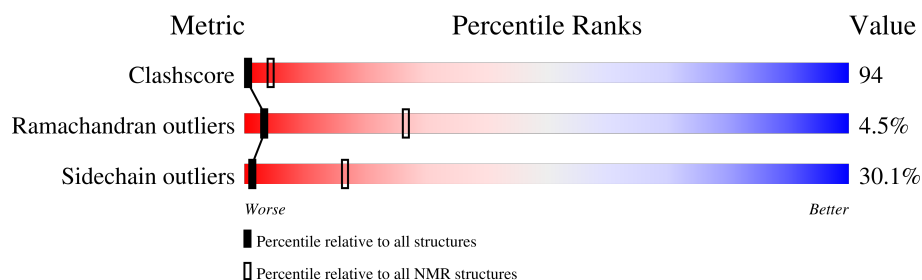
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment was not calculated.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

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

Mol	Chain	Length	Quality of chain
1	A	127	
2	B	123	

2 Ensemble composition and analysis

This entry contains 10 models. Model 3 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:19-A:122, B:9-B:52, B:58-B:76, B:92-B:93 (169)	0.55	3

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

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

The models can be grouped into 2 clusters and 1 single-model cluster was found.

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

3 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3589 atoms, of which 1850 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Ribonuclease P protein component 1.

Mol	Chain	Residues	Atoms						Trace
1	A	111	Total	C	H	N	O	S	0
			1867	589	950	171	154	3	

- Molecule 2 is a protein called Ribonuclease P protein component 4.

Mol	Chain	Residues	Atoms						Trace
2	B	97	Total	C	H	N	O	S	0
			1721	535	900	158	122	6	

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	118	GLY	-	expression tag	UNP Q8U0H6
B	119	GLY	-	expression tag	UNP Q8U0H6
B	120	LEU	-	expression tag	UNP Q8U0H6
B	121	VAL	-	expression tag	UNP Q8U0H6
B	122	PRO	-	expression tag	UNP Q8U0H6
B	123	ARG	-	expression tag	UNP Q8U0H6

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

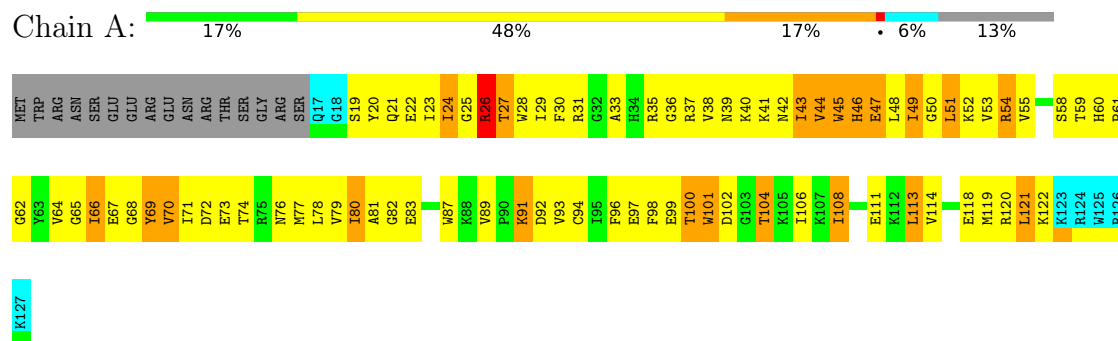
Mol	Chain	Residues	Atoms	
3	B	1	Total	Zn
			1	1

4 Residue-property plots

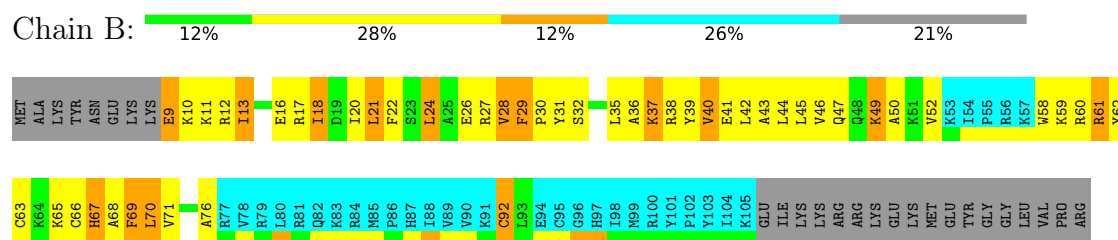
4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Ribonuclease P protein component 1



- Molecule 2: Ribonuclease P protein component 4

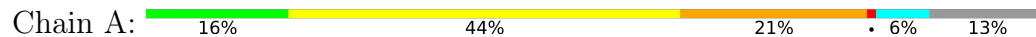


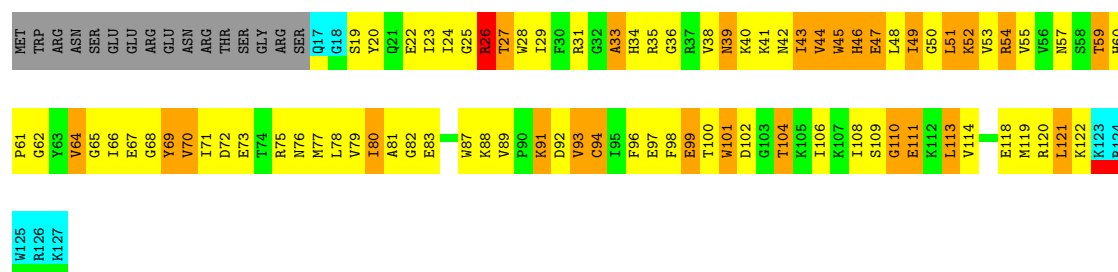
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

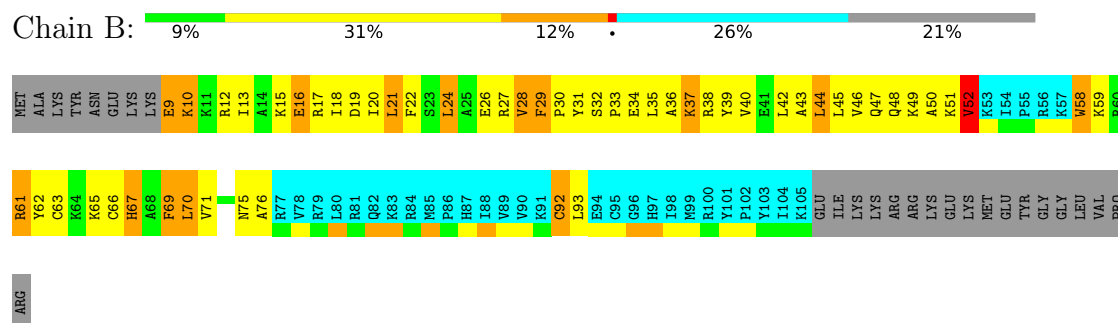
4.2.1 Score per residue for model 1

- Molecule 1: Ribonuclease P protein component 1



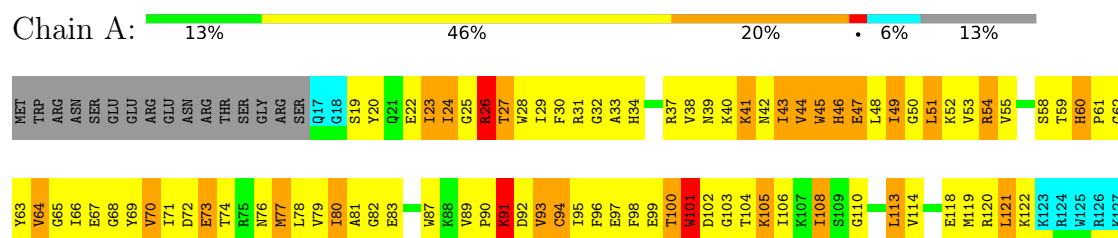


- Molecule 2: Ribonuclease P protein component 4

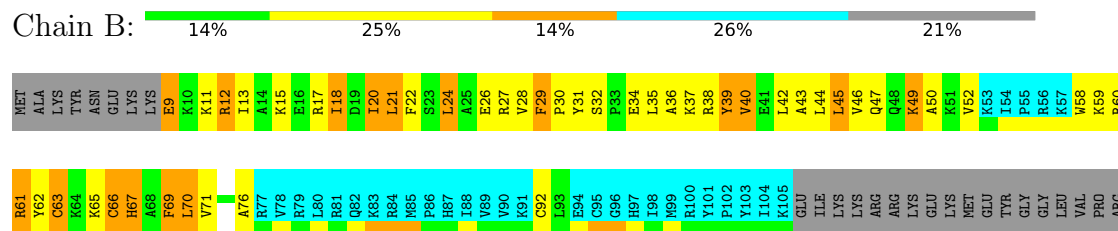


4.2.2 Score per residue for model 2

- Molecule 1: Ribonuclease P protein component 1



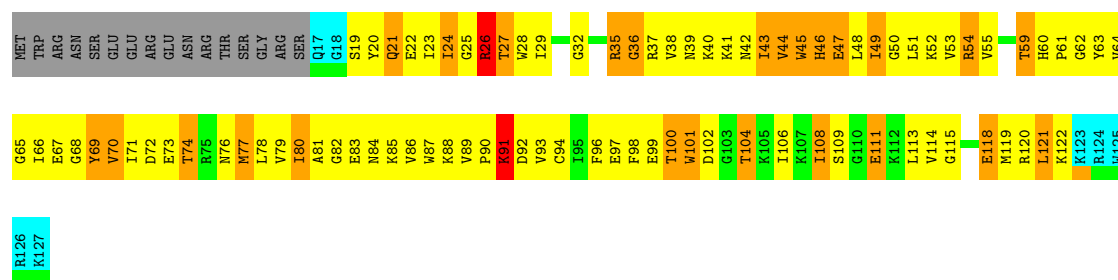
- Molecule 2: Ribonuclease P protein component 4



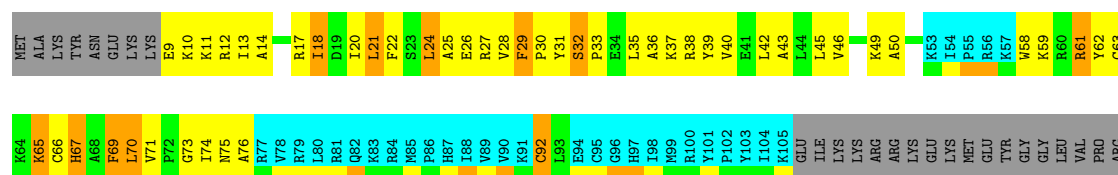
4.2.3 Score per residue for model 3 (medoid)

- Molecule 1: Ribonuclease P protein component 1



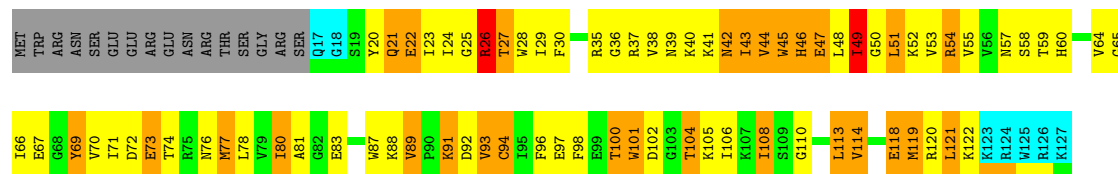
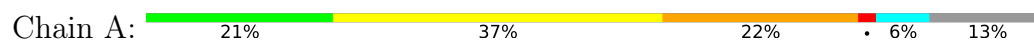


• Molecule 2: Ribonuclease P protein component 4

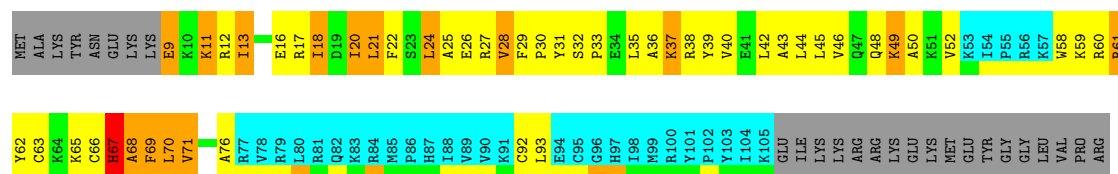


4.2.4 Score per residue for model 4

• Molecule 1: Ribonuclease P protein component 1

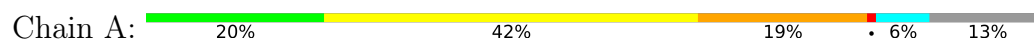


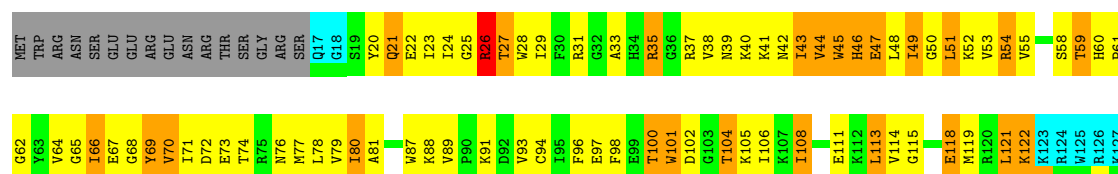
• Molecule 2: Ribonuclease P protein component 4



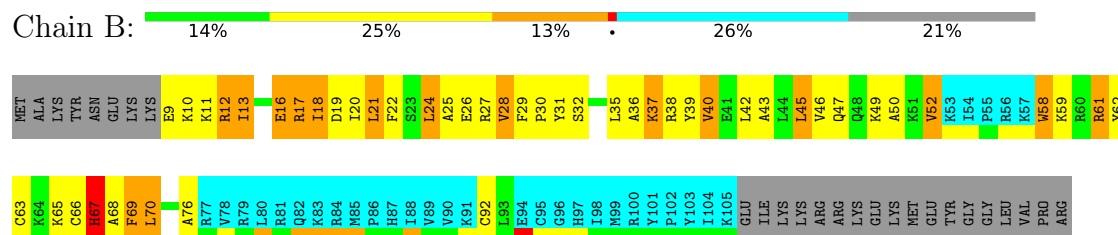
4.2.5 Score per residue for model 5

• Molecule 1: Ribonuclease P protein component 1



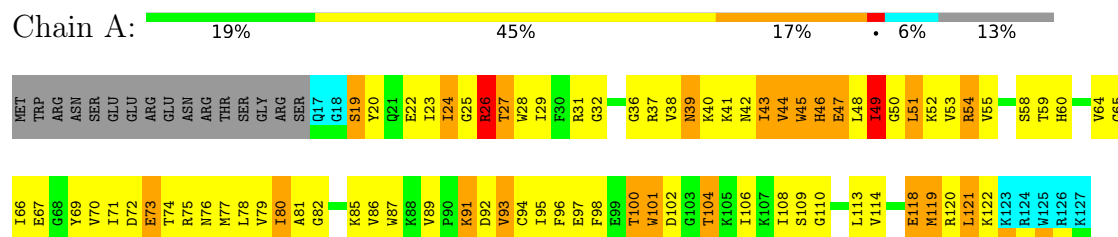


• Molecule 2: Ribonuclease P protein component 4

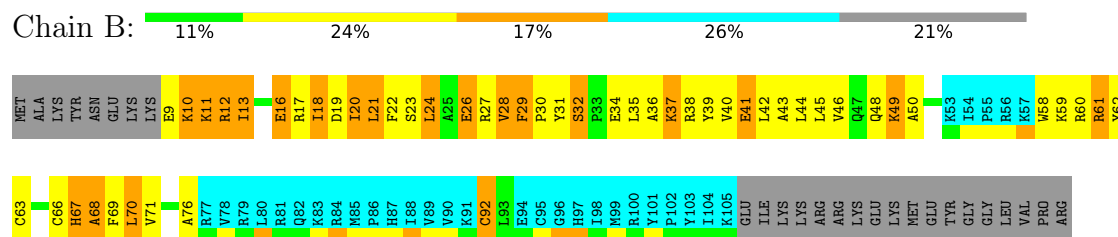


4.2.6 Score per residue for model 6

• Molecule 1: Ribonuclease P protein component 1

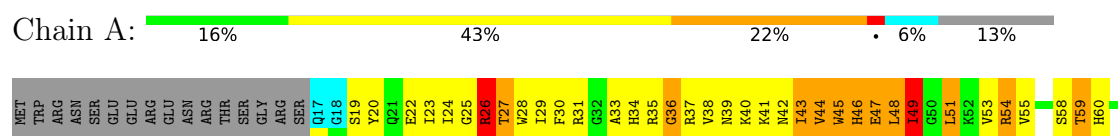


• Molecule 2: Ribonuclease P protein component 4



4.2.7 Score per residue for model 7

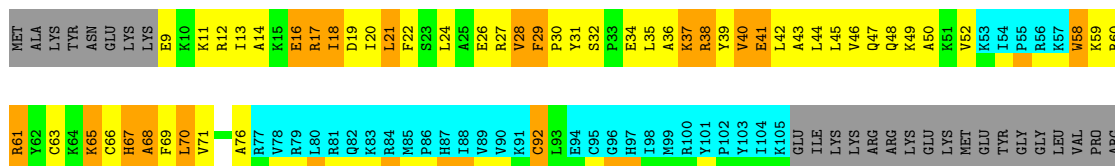
• Molecule 1: Ribonuclease P protein component 1





• Molecule 2: Ribonuclease P protein component 4

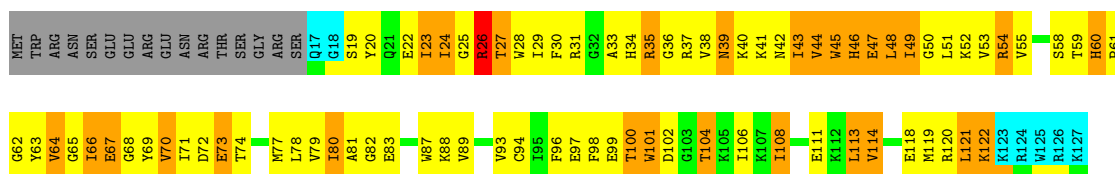
Chain B: 11% 28% 14% 26% 21%



4.2.8 Score per residue for model 8

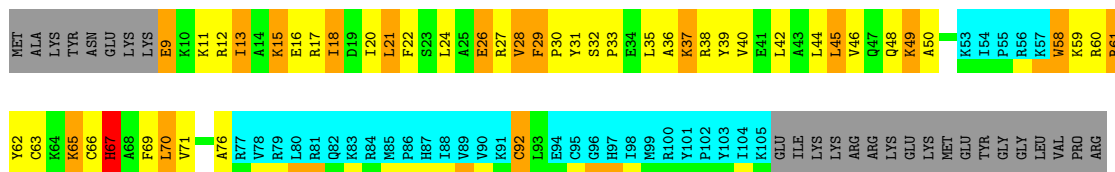
• Molecule 1: Ribonuclease P protein component 1

Chain A: 17% 42% 22% 6% 13%



• Molecule 2: Ribonuclease P protein component 4

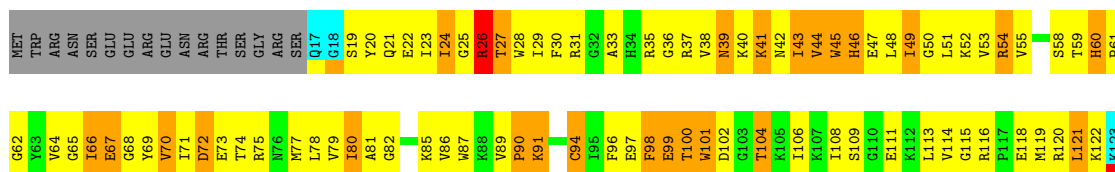
Chain B: 15% 24% 13% 26% 21%



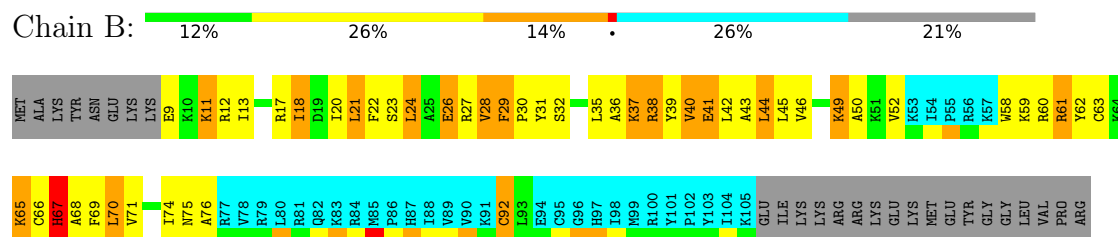
4.2.9 Score per residue for model 9

• Molecule 1: Ribonuclease P protein component 1

Chain A: 14% 47% 20% 6% 13%

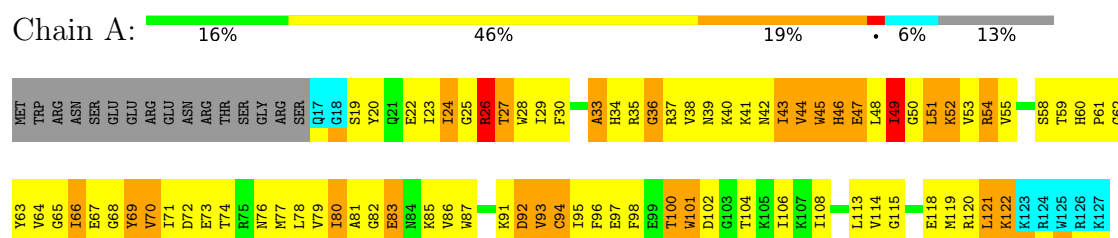


- Molecule 2: Ribonuclease P protein component 4

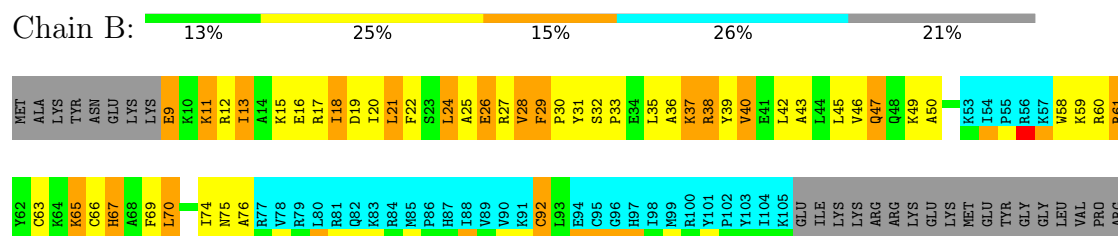


4.2.10 Score per residue for model 10

- Molecule 1: Ribonuclease P protein component 1



- Molecule 2: Ribonuclease P protein component 4



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 10 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
X-PLOR NIH	structure solution	
X-PLOR NIH	refinement	

No chemical shift data was provided.

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.70±0.01	0±0/869 (0.0± 0.0%)	1.13±0.01	0±0/1172 (0.0± 0.0%)
2	B	0.71±0.01	0±0/552 (0.0± 0.0%)	1.18±0.02	1±0/741 (0.1± 0.1%)
All	All	0.70	0/14210 (0.0%)	1.15	11/19130 (0.1%)

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	29	PHE	CA-CB-CG	-7.61	106.19	113.80	8	8
1	A	83	GLU	CB-CA-C	-5.94	109.74	116.63	3	3

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	849	877	874	167±11
2	B	540	581	579	127±10
All	All	13900	14580	14530	2672

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 94.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:28:VAL:O	2:B:32:SER:N	1.26	1.69	3	10
1:A:71:ILE:HD11	1:A:81:ALA:HB2	1.07	1.15	10	7
1:A:66:ILE:HG23	1:A:87:TRP:NE1	1.03	1.67	10	4
2:B:21:LEU:HD13	2:B:22:PHE:N	1.02	1.70	2	10
1:A:80:ILE:HD13	1:A:80:ILE:N	0.95	1.77	8	3
1:A:66:ILE:HG23	1:A:87:TRP:HE1	0.94	1.18	10	4
2:B:21:LEU:HD22	2:B:21:LEU:C	0.94	1.86	8	10
1:A:53:VAL:HG23	1:A:97:GLU:C	0.93	1.87	5	8
2:B:12:ARG:CD	2:B:12:ARG:H	0.93	1.77	7	9
1:A:100:THR:OG1	1:A:104:THR:O	0.92	1.88	2	9
1:A:78:LEU:HD23	1:A:96:PHE:CE2	0.91	2.01	8	4
2:B:70:LEU:H	2:B:70:LEU:HD22	0.90	1.26	2	1
1:A:77:MET:C	1:A:91:LYS:HZ1	0.89	1.75	9	1
2:B:21:LEU:HD13	2:B:22:PHE:H	0.89	1.28	5	10
1:A:73:GLU:N	1:A:73:GLU:CD	0.88	2.30	6	2
1:A:45:TRP:CD1	1:A:45:TRP:N	0.88	2.42	9	10
2:B:46:VAL:O	2:B:50:ALA:HB3	0.88	1.69	2	10
2:B:24:LEU:O	2:B:28:VAL:HG13	0.87	1.70	9	10
1:A:47:GLU:OE1	2:B:17:ARG:NE	0.87	2.08	5	1
2:B:45:LEU:HD12	2:B:46:VAL:N	0.86	1.85	10	3
1:A:51:LEU:O	1:A:70:VAL:HG23	0.86	1.69	3	10
2:B:70:LEU:N	2:B:70:LEU:HD22	0.86	1.85	6	9
1:A:79:VAL:C	1:A:80:ILE:HD13	0.85	1.96	5	3
1:A:99:GLU:OE2	1:A:104:THR:N	0.85	2.09	2	1
1:A:66:ILE:HG21	1:A:87:TRP:CZ2	0.84	2.07	4	2
2:B:74:ILE:HG22	2:B:75:ASN:HD22	0.84	1.29	10	1
2:B:26:GLU:O	2:B:30:PRO:CD	0.84	2.26	1	10
2:B:21:LEU:HD23	2:B:39:TYR:CB	0.84	2.02	7	10
1:A:66:ILE:HG23	1:A:87:TRP:CD1	0.84	2.08	1	3
2:B:61:ARG:HB2	2:B:70:LEU:O	0.83	1.72	3	10
2:B:16:GLU:O	2:B:20:ILE:HD13	0.83	1.72	7	4
2:B:27:ARG:O	2:B:30:PRO:HG2	0.82	1.74	10	10
2:B:24:LEU:HD12	2:B:28:VAL:HG11	0.82	1.50	9	4
1:A:100:THR:N	1:A:104:THR:O	0.82	2.11	2	10
2:B:21:LEU:HD21	2:B:43:ALA:HB2	0.82	1.50	9	5
1:A:47:GLU:OE1	1:A:47:GLU:N	0.82	2.12	5	2
1:A:48:LEU:O	1:A:49:ILE:HG12	0.82	1.73	9	2
2:B:28:VAL:O	2:B:31:TYR:N	0.82	2.13	8	10
1:A:44:VAL:HG13	1:A:45:TRP:NE1	0.81	1.90	2	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:12:ARG:CD	2:B:12:ARG:N	0.81	2.44	1	9
1:A:48:LEU:HD22	1:A:98:PHE:CZ	0.81	2.10	8	1
1:A:47:GLU:OE2	1:A:47:GLU:O	0.80	1.99	8	7
1:A:45:TRP:O	1:A:121:LEU:HD21	0.80	1.77	7	8
1:A:48:LEU:O	1:A:49:ILE:HD13	0.80	1.76	8	8
1:A:49:ILE:HD13	2:B:39:TYR:CD1	0.80	2.12	9	2
2:B:21:LEU:HD23	2:B:39:TYR:HB3	0.80	1.54	9	10
1:A:47:GLU:N	1:A:47:GLU:OE1	0.79	2.14	2	3
1:A:43:ILE:HD11	1:A:98:PHE:CD1	0.79	2.13	9	10
1:A:36:GLY:O	1:A:101:TRP:CD1	0.78	2.37	1	1
2:B:37:LYS:NZ	2:B:69:PHE:O	0.78	2.15	2	1
1:A:70:VAL:HG21	1:A:98:PHE:CE2	0.78	2.14	8	2
1:A:51:LEU:HD23	1:A:52:LYS:H	0.78	1.39	8	8
1:A:74:THR:HG22	2:B:38:ARG:NH2	0.78	1.93	8	2
1:A:72:ASP:OD1	1:A:73:GLU:N	0.77	2.17	6	3
1:A:51:LEU:HD23	1:A:52:LYS:N	0.77	1.94	3	8
2:B:38:ARG:NH1	2:B:42:LEU:HD11	0.77	1.93	4	3
1:A:73:GLU:O	2:B:38:ARG:NH1	0.77	2.18	9	1
2:B:27:ARG:O	2:B:30:PRO:CG	0.76	2.33	6	10
1:A:99:GLU:OE2	1:A:100:THR:O	0.76	2.03	2	1
1:A:48:LEU:O	1:A:49:ILE:CG1	0.76	2.32	9	2
2:B:21:LEU:HD22	2:B:21:LEU:O	0.76	1.81	2	10
1:A:29:ILE:CD1	2:B:28:VAL:HG12	0.76	2.11	2	10
1:A:39:ASN:O	1:A:43:ILE:N	0.76	2.18	1	10
2:B:70:LEU:HD22	2:B:70:LEU:N	0.76	1.95	2	1
2:B:49:LYS:HD3	2:B:49:LYS:C	0.75	2.06	4	1
1:A:91:LYS:HZ2	1:A:115:GLY:H	0.75	1.20	7	1
1:A:23:ILE:N	1:A:23:ILE:HD13	0.75	1.96	8	2
1:A:66:ILE:CD1	1:A:87:TRP:HE1	0.75	1.94	6	2
2:B:38:ARG:C	2:B:38:ARG:CD	0.75	2.58	7	2
2:B:9:GLU:N	2:B:12:ARG:HE	0.74	1.81	7	4
2:B:12:ARG:H	2:B:12:ARG:HD3	0.74	1.40	2	9
1:A:66:ILE:HG21	1:A:87:TRP:CE2	0.74	2.17	6	1
2:B:61:ARG:NH1	2:B:69:PHE:CE2	0.74	2.56	2	3
1:A:29:ILE:HD12	2:B:28:VAL:HG12	0.74	1.58	7	10
1:A:48:LEU:HD22	1:A:98:PHE:CE2	0.74	2.17	6	10
1:A:59:THR:O	1:A:60:HIS:CD2	0.74	2.41	2	10
2:B:45:LEU:HD12	2:B:45:LEU:C	0.74	2.07	8	7
1:A:46:HIS:CG	2:B:17:ARG:NE	0.73	2.56	5	1
1:A:73:GLU:OE1	2:B:42:LEU:HD11	0.73	1.82	6	1
1:A:47:GLU:H	1:A:47:GLU:CD	0.73	1.90	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:24:LEU:HD12	2:B:28:VAL:CG1	0.73	2.14	6	10
1:A:71:ILE:O	2:B:38:ARG:NH2	0.73	2.20	5	3
2:B:44:LEU:HD11	2:B:62:TYR:OH	0.73	1.84	6	2
1:A:46:HIS:CD2	2:B:17:ARG:NH2	0.73	2.57	5	1
1:A:47:GLU:N	1:A:47:GLU:CD	0.72	2.45	2	4
1:A:78:LEU:HD23	1:A:96:PHE:CZ	0.72	2.19	8	6
2:B:29:PHE:N	2:B:30:PRO:HD2	0.72	1.99	6	10
1:A:71:ILE:CD1	1:A:81:ALA:HB2	0.72	2.08	10	5
1:A:94:CYS:SG	1:A:96:PHE:CE1	0.72	2.83	9	6
1:A:26:ARG:O	1:A:28:TRP:N	0.72	2.22	2	10
1:A:55:VAL:O	1:A:65:GLY:N	0.72	2.23	10	10
1:A:42:ASN:O	1:A:46:HIS:HB2	0.71	1.86	5	10
1:A:71:ILE:N	1:A:79:VAL:O	0.71	2.23	8	9
1:A:94:CYS:SG	1:A:96:PHE:CZ	0.71	2.84	5	5
1:A:74:THR:HG22	2:B:38:ARG:CZ	0.71	2.16	8	1
1:A:43:ILE:HD11	1:A:98:PHE:CG	0.70	2.21	8	4
2:B:42:LEU:O	2:B:46:VAL:HG23	0.70	1.85	1	6
1:A:80:ILE:HD12	1:A:87:TRP:CD1	0.70	2.20	7	4
2:B:45:LEU:O	2:B:49:LYS:HB2	0.70	1.85	1	6
1:A:66:ILE:HG21	1:A:87:TRP:NE1	0.70	2.02	6	1
2:B:38:ARG:HH11	2:B:42:LEU:HD11	0.70	1.47	2	3
1:A:72:ASP:CG	2:B:38:ARG:HE	0.70	1.95	9	1
1:A:94:CYS:SG	1:A:96:PHE:CE2	0.70	2.84	7	4
2:B:29:PHE:CE2	2:B:69:PHE:O	0.69	2.45	1	9
2:B:24:LEU:HD12	2:B:28:VAL:HG13	0.69	1.64	2	6
2:B:28:VAL:CG2	2:B:32:SER:OG	0.69	2.41	9	8
2:B:61:ARG:CD	2:B:61:ARG:C	0.69	2.65	5	10
1:A:67:GLU:O	1:A:87:TRP:CZ2	0.69	2.46	1	6
1:A:24:ILE:HD13	1:A:25:GLY:N	0.69	2.02	9	4
2:B:49:LYS:C	2:B:49:LYS:CD	0.69	2.64	4	2
1:A:66:ILE:CB	1:A:87:TRP:HE1	0.68	2.01	6	1
1:A:59:THR:O	1:A:59:THR:HG23	0.68	1.88	2	3
1:A:30:PHE:CD2	2:B:24:LEU:HD11	0.68	2.24	10	4
1:A:78:LEU:HD23	1:A:96:PHE:CE1	0.68	2.24	2	6
2:B:36:ALA:O	2:B:40:VAL:HG23	0.68	1.89	3	5
1:A:46:HIS:ND1	2:B:17:ARG:NE	0.68	2.41	5	1
2:B:38:ARG:HD3	2:B:38:ARG:C	0.68	2.14	1	2
2:B:58:TRP:CD1	2:B:61:ARG:NH2	0.68	2.62	8	4
1:A:59:THR:C	1:A:60:HIS:CG	0.68	2.72	5	7
2:B:61:ARG:NH1	2:B:69:PHE:CE1	0.68	2.62	8	1
1:A:73:GLU:O	2:B:42:LEU:HD11	0.67	1.89	10	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:21:LEU:C	2:B:21:LEU:CD2	0.67	2.66	10	10
1:A:105:LYS:CD	1:A:105:LYS:H	0.67	2.00	2	1
1:A:26:ARG:C	1:A:28:TRP:N	0.67	2.52	1	10
2:B:12:ARG:N	2:B:12:ARG:HD2	0.67	2.05	4	9
1:A:71:ILE:HD11	1:A:81:ALA:CB	0.67	2.16	9	6
2:B:12:ARG:O	2:B:16:GLU:CD	0.67	2.37	6	3
1:A:41:LYS:C	1:A:45:TRP:CD1	0.67	2.72	6	10
1:A:47:GLU:OE1	2:B:17:ARG:O	0.67	2.13	6	1
2:B:40:VAL:O	2:B:44:LEU:HD23	0.67	1.90	8	3
2:B:66:CYS:O	2:B:67:HIS:O	0.67	2.11	8	8
2:B:37:LYS:NZ	2:B:68:ALA:HB1	0.67	2.05	5	1
1:A:121:LEU:O	2:B:49:LYS:NZ	0.67	2.28	8	1
1:A:114:VAL:HG13	1:A:114:VAL:O	0.67	1.89	9	9
1:A:34:HIS:CE1	1:A:51:LEU:H	0.67	2.08	8	1
1:A:39:ASN:O	1:A:42:ASN:N	0.67	2.27	10	10
1:A:72:ASP:OD2	2:B:38:ARG:NH1	0.67	2.28	3	3
1:A:46:HIS:C	2:B:17:ARG:HE	0.67	1.97	4	1
2:B:61:ARG:CZ	2:B:69:PHE:CE1	0.67	2.78	8	1
1:A:45:TRP:CD1	1:A:45:TRP:H	0.67	2.08	8	10
1:A:96:PHE:HB3	1:A:98:PHE:CE1	0.67	2.25	4	7
1:A:80:ILE:N	1:A:80:ILE:CD1	0.67	2.50	8	3
1:A:53:VAL:HG22	1:A:54:ARG:N	0.66	2.05	10	9
1:A:91:LYS:HZ2	1:A:115:GLY:N	0.66	1.89	7	1
2:B:70:LEU:HB3	2:B:76:ALA:HB2	0.66	1.67	9	10
2:B:28:VAL:HB	2:B:32:SER:OG	0.66	1.90	2	8
2:B:61:ARG:NH1	2:B:69:PHE:CZ	0.66	2.64	3	2
2:B:61:ARG:CB	2:B:70:LEU:O	0.66	2.44	2	10
2:B:63:CYS:CB	2:B:70:LEU:HD21	0.66	2.21	2	1
2:B:69:PHE:C	2:B:70:LEU:HD13	0.66	2.15	1	10
2:B:9:GLU:N	2:B:12:ARG:CZ	0.65	2.59	4	5
2:B:38:ARG:C	2:B:38:ARG:NE	0.65	2.55	7	1
1:A:26:ARG:C	1:A:28:TRP:H	0.65	2.00	3	10
2:B:70:LEU:HD22	2:B:70:LEU:H	0.65	1.50	3	6
1:A:66:ILE:CD1	1:A:87:TRP:NE1	0.65	2.60	6	1
1:A:46:HIS:CG	2:B:17:ARG:HE	0.65	2.10	5	1
1:A:31:ARG:C	1:A:33:ALA:H	0.65	2.00	9	4
1:A:48:LEU:O	1:A:73:GLU:CD	0.65	2.40	8	2
1:A:25:GLY:C	1:A:27:THR:H	0.65	2.00	2	10
1:A:37:ARG:O	1:A:46:HIS:NE2	0.65	2.30	10	7
2:B:58:TRP:O	2:B:62:TYR:N	0.65	2.30	2	4
1:A:91:LYS:HZ3	1:A:115:GLY:N	0.65	1.89	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:91:LYS:NZ	1:A:115:GLY:N	0.65	2.45	3	1
2:B:9:GLU:N	2:B:12:ARG:NE	0.64	2.44	7	6
2:B:63:CYS:SG	2:B:66:CYS:N	0.64	2.69	8	7
1:A:23:ILE:HG23	2:B:31:TYR:CE2	0.64	2.27	5	9
2:B:21:LEU:HD23	2:B:39:TYR:HB2	0.64	1.70	7	9
1:A:74:THR:HG22	2:B:38:ARG:HH22	0.64	1.52	9	1
1:A:34:HIS:NE2	1:A:50:GLY:N	0.64	2.46	8	1
2:B:29:PHE:CD1	2:B:29:PHE:C	0.64	2.76	8	6
1:A:47:GLU:N	2:B:17:ARG:CD	0.64	2.60	6	1
1:A:37:ARG:O	1:A:46:HIS:CE1	0.64	2.51	7	5
1:A:91:LYS:N	1:A:91:LYS:CD	0.64	2.61	3	1
1:A:66:ILE:HD12	1:A:87:TRP:HE1	0.64	1.51	4	2
2:B:17:ARG:NH1	2:B:46:VAL:CG2	0.64	2.61	4	1
1:A:68:GLY:C	1:A:80:ILE:HG22	0.63	2.16	7	7
2:B:26:GLU:O	2:B:30:PRO:HD3	0.63	1.93	4	10
2:B:74:ILE:HG22	2:B:75:ASN:ND2	0.63	2.07	10	2
1:A:47:GLU:OE2	2:B:17:ARG:CZ	0.63	2.46	7	1
2:B:28:VAL:C	2:B:32:SER:H	0.63	1.93	8	1
1:A:91:LYS:H	1:A:91:LYS:CD	0.63	2.06	1	2
1:A:38:VAL:HB	1:A:101:TRP:H	0.63	1.54	2	9
1:A:49:ILE:HD11	2:B:42:LEU:HD12	0.63	1.71	3	4
1:A:45:TRP:CH2	1:A:120:ARG:CZ	0.63	2.80	4	1
2:B:58:TRP:CD1	2:B:61:ARG:HH21	0.63	2.11	10	3
2:B:46:VAL:O	2:B:50:ALA:CB	0.63	2.46	8	7
2:B:62:TYR:CD1	2:B:63:CYS:N	0.63	2.66	2	3
1:A:49:ILE:CG2	2:B:39:TYR:CZ	0.63	2.81	4	3
1:A:23:ILE:HD12	2:B:32:SER:OG	0.63	1.93	3	1
1:A:51:LEU:HD21	1:A:99:GLU:O	0.63	1.93	9	3
1:A:38:VAL:O	1:A:101:TRP:CZ3	0.63	2.52	6	9
1:A:42:ASN:O	1:A:46:HIS:CG	0.63	2.52	4	6
2:B:39:TYR:O	2:B:42:LEU:N	0.63	2.32	7	10
1:A:45:TRP:CZ3	1:A:120:ARG:NE	0.63	2.67	3	1
2:B:65:LYS:HZ3	2:B:65:LYS:HB3	0.63	1.54	9	1
1:A:53:VAL:HG21	1:A:96:PHE:HB3	0.62	1.68	10	7
1:A:53:VAL:CG2	1:A:54:ARG:N	0.62	2.61	7	8
1:A:38:VAL:O	1:A:101:TRP:CE3	0.62	2.52	7	9
2:B:22:PHE:CE1	2:B:58:TRP:NE1	0.62	2.67	9	4
1:A:53:VAL:HB	1:A:98:PHE:CD2	0.62	2.30	1	9
1:A:46:HIS:CD2	2:B:17:ARG:CZ	0.62	2.83	5	2
1:A:72:ASP:C	1:A:73:GLU:CD	0.62	2.67	8	2
1:A:73:GLU:O	2:B:38:ARG:NH2	0.62	2.32	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:28:VAL:O	2:B:29:PHE:C	0.62	2.42	7	10
2:B:45:LEU:O	2:B:49:LYS:N	0.62	2.33	7	4
1:A:60:HIS:O	1:A:64:VAL:HG13	0.62	1.95	4	2
1:A:59:THR:O	1:A:59:THR:OG1	0.62	2.17	3	2
2:B:37:LYS:HZ3	2:B:68:ALA:HB1	0.62	1.54	5	1
1:A:74:THR:HG23	1:A:76:ASN:H	0.62	1.55	10	2
1:A:45:TRP:CZ2	1:A:120:ARG:NH2	0.62	2.68	1	2
1:A:45:TRP:CH2	1:A:120:ARG:NH2	0.62	2.68	4	1
2:B:29:PHE:CE2	2:B:71:VAL:HG23	0.62	2.30	4	1
2:B:58:TRP:CD1	2:B:60:ARG:HH12	0.62	2.12	7	1
1:A:59:THR:O	1:A:60:HIS:CG	0.62	2.53	8	8
1:A:118:GLU:HB3	2:B:45:LEU:HD22	0.62	1.72	8	7
2:B:22:PHE:CE1	2:B:58:TRP:CE2	0.62	2.88	2	1
2:B:17:ARG:HA	2:B:17:ARG:NE	0.62	2.09	6	1
2:B:17:ARG:HE	2:B:46:VAL:HG22	0.62	1.53	9	1
2:B:39:TYR:N	2:B:39:TYR:CD1	0.61	2.62	2	4
1:A:49:ILE:HB	2:B:24:LEU:HD23	0.61	1.70	4	1
1:A:72:ASP:CG	2:B:38:ARG:NH1	0.61	2.58	6	1
1:A:35:ARG:H	2:B:20:ILE:HD12	0.61	1.55	5	2
1:A:91:LYS:NZ	1:A:92:ASP:OD1	0.61	2.33	4	1
2:B:28:VAL:O	2:B:31:TYR:C	0.61	2.43	4	10
2:B:35:LEU:CD2	2:B:38:ARG:HH21	0.61	2.08	6	2
1:A:42:ASN:O	1:A:46:HIS:CB	0.61	2.48	5	10
1:A:69:TYR:O	1:A:81:ALA:N	0.61	2.33	1	9
2:B:16:GLU:O	2:B:20:ILE:HG12	0.61	1.96	1	1
2:B:28:VAL:HG23	2:B:29:PHE:N	0.61	2.11	3	9
2:B:30:PRO:HG2	2:B:31:TYR:H	0.61	1.55	8	10
1:A:46:HIS:CE1	2:B:17:ARG:NE	0.61	2.69	5	1
1:A:41:LYS:O	1:A:45:TRP:CG	0.61	2.54	6	10
1:A:66:ILE:CG2	1:A:87:TRP:NE1	0.61	2.56	10	5
1:A:74:THR:CG2	2:B:38:ARG:HH22	0.60	2.08	9	1
1:A:34:HIS:CD2	2:B:20:ILE:CG2	0.60	2.84	8	2
1:A:50:GLY:O	1:A:69:TYR:CE2	0.60	2.55	1	5
2:B:45:LEU:O	2:B:49:LYS:CB	0.60	2.49	9	6
1:A:46:HIS:HD1	2:B:13:ILE:HG23	0.60	1.56	7	1
1:A:91:LYS:NZ	1:A:113:LEU:O	0.60	2.35	7	1
1:A:28:TRP:NE1	2:B:27:ARG:HH12	0.60	1.93	1	2
1:A:73:GLU:H	2:B:38:ARG:CZ	0.60	2.09	4	4
2:B:70:LEU:N	2:B:70:LEU:HD13	0.60	2.11	2	4
1:A:53:VAL:HG13	1:A:80:ILE:HG21	0.60	1.72	7	2
1:A:82:GLY:N	1:A:87:TRP:CZ3	0.60	2.70	3	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:61:ARG:HA	2:B:70:LEU:O	0.60	1.95	7	5
2:B:28:VAL:HG23	2:B:32:SER:OG	0.60	1.96	9	6
2:B:49:LYS:C	2:B:49:LYS:HZ2	0.60	2.04	4	1
1:A:96:PHE:CB	1:A:98:PHE:CZ	0.59	2.85	9	6
1:A:47:GLU:CD	1:A:47:GLU:N	0.59	2.56	4	1
1:A:66:ILE:HD12	1:A:87:TRP:NE1	0.59	2.12	6	2
2:B:61:ARG:O	2:B:70:LEU:N	0.59	2.31	7	9
1:A:69:TYR:N	1:A:81:ALA:O	0.59	2.30	8	6
1:A:25:GLY:O	1:A:27:THR:N	0.59	2.35	2	10
1:A:38:VAL:CG2	1:A:101:TRP:CD2	0.59	2.85	1	1
1:A:50:GLY:O	1:A:69:TYR:CD2	0.59	2.55	3	6
2:B:61:ARG:CZ	2:B:69:PHE:CZ	0.59	2.85	8	1
1:A:49:ILE:HD12	2:B:39:TYR:CD1	0.59	2.33	2	5
1:A:105:LYS:HD3	1:A:105:LYS:N	0.59	2.12	2	1
2:B:58:TRP:CD1	2:B:60:ARG:NH1	0.59	2.70	7	1
1:A:72:ASP:O	1:A:78:LEU:HA	0.59	1.98	2	9
2:B:29:PHE:C	2:B:29:PHE:CD1	0.59	2.81	2	4
1:A:49:ILE:HG23	2:B:39:TYR:CE1	0.59	2.32	10	5
1:A:42:ASN:O	1:A:46:HIS:N	0.59	2.36	2	3
1:A:72:ASP:HA	2:B:38:ARG:NH2	0.59	2.12	4	3
1:A:23:ILE:HG23	2:B:31:TYR:CD2	0.59	2.32	6	9
1:A:44:VAL:CG2	1:A:44:VAL:O	0.59	2.51	9	10
1:A:20:TYR:O	1:A:22:GLU:N	0.59	2.35	5	3
1:A:59:THR:C	1:A:60:HIS:CD2	0.59	2.81	4	2
1:A:47:GLU:OE1	2:B:17:ARG:CZ	0.59	2.50	5	1
2:B:17:ARG:N	2:B:17:ARG:HD2	0.59	2.13	5	1
1:A:47:GLU:OE1	1:A:49:ILE:HG13	0.59	1.97	8	1
2:B:28:VAL:CG2	2:B:29:PHE:N	0.59	2.66	9	9
2:B:61:ARG:O	2:B:70:LEU:HD22	0.58	1.97	4	4
1:A:46:HIS:CE1	2:B:17:ARG:CZ	0.58	2.85	5	1
1:A:118:GLU:O	1:A:120:ARG:N	0.58	2.35	4	2
2:B:49:LYS:O	2:B:49:LYS:NZ	0.58	2.28	4	1
1:A:48:LEU:C	1:A:49:ILE:HG12	0.58	2.21	4	8
2:B:40:VAL:CG2	2:B:69:PHE:CD1	0.58	2.86	3	3
1:A:47:GLU:CD	1:A:47:GLU:O	0.58	2.46	2	4
2:B:61:ARG:CG	2:B:61:ARG:HH11	0.58	2.11	3	3
1:A:47:GLU:CD	1:A:47:GLU:H	0.58	2.05	10	2
1:A:48:LEU:O	1:A:73:GLU:CG	0.58	2.51	6	2
2:B:61:ARG:CZ	2:B:69:PHE:CE2	0.58	2.85	9	2
1:A:35:ARG:NH1	2:B:20:ILE:HD11	0.58	2.13	1	1
1:A:53:VAL:HG23	1:A:97:GLU:O	0.58	1.98	5	7

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:73:GLU:N	2:B:38:ARG:CZ	0.58	2.67	4	3
2:B:62:TYR:C	2:B:70:LEU:CD2	0.58	2.77	2	1
1:A:53:VAL:HG12	1:A:70:VAL:HG22	0.58	1.75	10	5
2:B:63:CYS:SG	2:B:67:HIS:N	0.58	2.76	2	1
1:A:48:LEU:O	1:A:49:ILE:CD1	0.58	2.49	8	8
2:B:70:LEU:CB	2:B:76:ALA:HB2	0.58	2.28	2	9
2:B:38:ARG:NH1	2:B:42:LEU:CD1	0.58	2.67	4	3
1:A:46:HIS:HD1	2:B:13:ILE:CG2	0.58	2.11	7	3
1:A:66:ILE:HG21	1:A:87:TRP:HZ2	0.58	1.52	4	1
2:B:29:PHE:HB2	2:B:36:ALA:CB	0.58	2.29	5	10
2:B:21:LEU:HD22	2:B:22:PHE:N	0.58	2.14	7	7
1:A:47:GLU:O	1:A:47:GLU:CD	0.58	2.46	5	4
1:A:66:ILE:CG2	1:A:87:TRP:HE1	0.58	2.11	6	1
1:A:48:LEU:C	1:A:49:ILE:CG1	0.57	2.77	9	10
1:A:41:LYS:C	1:A:45:TRP:NE1	0.57	2.62	7	9
2:B:61:ARG:NE	2:B:69:PHE:CZ	0.57	2.72	6	1
1:A:121:LEU:HD12	2:B:46:VAL:HG13	0.57	1.75	8	3
1:A:91:LYS:CD	1:A:115:GLY:H	0.57	2.12	9	2
2:B:39:TYR:CD1	2:B:39:TYR:N	0.57	2.65	3	4
1:A:41:LYS:O	1:A:45:TRP:CD2	0.57	2.57	9	7
1:A:101:TRP:CH2	1:A:102:ASP:OD2	0.57	2.56	9	3
1:A:71:ILE:C	1:A:73:GLU:OE2	0.57	2.47	8	2
1:A:46:HIS:NE2	2:B:17:ARG:CZ	0.57	2.68	5	1
1:A:34:HIS:CD2	1:A:50:GLY:H	0.57	2.18	10	2
2:B:28:VAL:CB	2:B:32:SER:OG	0.57	2.53	4	8
1:A:54:ARG:NH2	1:A:97:GLU:OE1	0.57	2.37	3	1
2:B:16:GLU:C	2:B:17:ARG:NH1	0.57	2.63	5	1
1:A:45:TRP:HB2	2:B:13:ILE:HG21	0.57	1.75	3	3
2:B:45:LEU:C	2:B:45:LEU:CD1	0.57	2.74	8	1
2:B:74:ILE:HG23	2:B:75:ASN:H	0.57	1.59	9	1
1:A:66:ILE:HG22	1:A:87:TRP:CZ2	0.57	2.35	5	4
1:A:121:LEU:O	2:B:49:LYS:CE	0.57	2.52	8	1
1:A:34:HIS:CG	2:B:20:ILE:HD12	0.57	2.35	2	1
1:A:38:VAL:H	1:A:101:TRP:CD1	0.57	2.17	7	9
1:A:96:PHE:CB	1:A:98:PHE:CE1	0.57	2.88	7	9
2:B:22:PHE:CD1	2:B:58:TRP:CZ2	0.57	2.93	4	1
1:A:118:GLU:O	1:A:119:MET:C	0.56	2.48	4	10
2:B:37:LYS:HD2	2:B:69:PHE:H	0.56	1.59	4	7
2:B:49:LYS:NZ	2:B:49:LYS:CA	0.56	2.68	4	1
1:A:121:LEU:HD11	2:B:17:ARG:HD3	0.56	1.75	10	2
1:A:40:LYS:O	1:A:45:TRP:NE1	0.56	2.38	1	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:47:GLU:OE1	2:B:21:LEU:CA	0.56	2.53	1	2
1:A:60:HIS:O	1:A:62:GLY:N	0.56	2.39	2	7
1:A:45:TRP:CE3	1:A:120:ARG:CD	0.56	2.87	10	4
2:B:67:HIS:O	2:B:68:ALA:HB2	0.56	1.99	4	3
2:B:11:LYS:H	2:B:12:ARG:HH11	0.56	1.43	4	5
1:A:43:ILE:HD13	1:A:43:ILE:O	0.56	2.01	6	1
1:A:120:ARG:HE	1:A:120:ARG:CA	0.56	2.11	7	1
1:A:31:ARG:O	1:A:33:ALA:N	0.56	2.37	9	1
1:A:47:GLU:H	2:B:17:ARG:CD	0.56	2.11	6	1
1:A:36:GLY:H	2:B:20:ILE:CG1	0.56	2.13	4	1
1:A:45:TRP:O	1:A:121:LEU:CD2	0.56	2.52	7	4
1:A:105:LYS:H	1:A:105:LYS:HD3	0.56	1.60	2	1
2:B:38:ARG:NE	2:B:38:ARG:O	0.56	2.38	7	1
1:A:58:SER:OG	1:A:60:HIS:ND1	0.56	2.38	10	2
1:A:118:GLU:CG	1:A:119:MET:N	0.56	2.69	1	4
2:B:70:LEU:N	2:B:70:LEU:CD2	0.56	2.66	7	8
1:A:58:SER:OG	1:A:60:HIS:CE1	0.56	2.58	2	2
1:A:73:GLU:N	1:A:73:GLU:OE1	0.56	2.39	6	1
1:A:59:THR:HG22	1:A:93:VAL:HG12	0.56	1.78	2	1
1:A:47:GLU:OE1	2:B:21:LEU:N	0.55	2.39	1	2
2:B:26:GLU:OE2	2:B:61:ARG:NH2	0.55	2.39	4	2
1:A:24:ILE:HD13	1:A:24:ILE:C	0.55	2.26	2	3
1:A:66:ILE:HB	1:A:87:TRP:NE1	0.55	2.16	7	4
1:A:80:ILE:HG12	1:A:87:TRP:CB	0.55	2.31	10	3
1:A:72:ASP:OD1	2:B:38:ARG:NE	0.55	2.33	9	1
1:A:44:VAL:O	1:A:44:VAL:HG22	0.55	2.00	4	10
1:A:94:CYS:SG	1:A:95:ILE:N	0.55	2.79	10	2
1:A:109:SER:C	1:A:111:GLU:H	0.55	2.09	1	2
1:A:72:ASP:OD2	1:A:77:MET:SD	0.55	2.65	5	4
2:B:17:ARG:HE	2:B:46:VAL:CG2	0.55	2.15	9	3
1:A:41:LYS:C	1:A:42:ASN:HD22	0.55	2.09	4	1
1:A:42:ASN:N	1:A:42:ASN:HD22	0.55	2.00	4	1
1:A:43:ILE:CD1	1:A:98:PHE:CD1	0.55	2.89	10	8
2:B:21:LEU:CD1	2:B:22:PHE:N	0.55	2.65	10	10
2:B:18:ILE:O	2:B:21:LEU:CD1	0.55	2.55	7	8
1:A:54:ARG:NE	1:A:97:GLU:OE1	0.55	2.40	8	5
1:A:51:LEU:HD22	1:A:98:PHE:HB3	0.55	1.77	3	2
1:A:78:LEU:CD2	1:A:96:PHE:CE2	0.55	2.88	6	4
1:A:70:VAL:HG21	1:A:98:PHE:HE2	0.55	1.59	8	1
1:A:99:GLU:HA	1:A:105:LYS:HA	0.55	1.79	2	1
1:A:101:TRP:CD2	1:A:102:ASP:OD1	0.55	2.60	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:49:ILE:O	1:A:70:VAL:O	0.54	2.24	8	5
1:A:85:LYS:CG	1:A:86:VAL:N	0.54	2.70	3	4
1:A:19:SER:O	1:A:22:GLU:N	0.54	2.38	2	7
1:A:28:TRP:HE1	2:B:27:ARG:HH12	0.54	1.45	9	1
1:A:78:LEU:CD2	1:A:96:PHE:CZ	0.54	2.91	8	7
1:A:24:ILE:O	1:A:24:ILE:HG23	0.54	2.01	2	2
2:B:63:CYS:SG	2:B:63:CYS:O	0.54	2.66	2	1
1:A:24:ILE:CD1	1:A:85:LYS:O	0.54	2.56	6	2
1:A:46:HIS:C	2:B:17:ARG:NE	0.54	2.66	4	1
2:B:29:PHE:CE1	2:B:71:VAL:CG2	0.54	2.91	8	5
2:B:38:ARG:O	2:B:38:ARG:NH1	0.54	2.39	1	1
1:A:20:TYR:C	1:A:22:GLU:N	0.54	2.64	5	5
2:B:13:ILE:O	2:B:17:ARG:CD	0.54	2.55	5	1
1:A:74:THR:CG2	2:B:38:ARG:NH2	0.54	2.69	9	1
1:A:35:ARG:O	1:A:36:GLY:C	0.54	2.51	3	5
1:A:31:ARG:C	1:A:33:ALA:N	0.54	2.66	9	3
1:A:34:HIS:CE1	1:A:50:GLY:H	0.54	2.21	8	1
1:A:43:ILE:HD11	1:A:98:PHE:CE1	0.54	2.37	5	7
1:A:118:GLU:HA	2:B:45:LEU:HD13	0.54	1.78	6	3
1:A:42:ASN:ND2	2:B:13:ILE:CD1	0.54	2.71	7	1
2:B:38:ARG:NE	2:B:38:ARG:CA	0.54	2.66	7	1
2:B:70:LEU:H	2:B:70:LEU:CD2	0.54	2.09	2	1
1:A:78:LEU:HG	1:A:96:PHE:CZ	0.54	2.37	7	3
1:A:25:GLY:C	1:A:27:THR:N	0.54	2.66	8	10
1:A:100:THR:HG23	1:A:106:ILE:HD11	0.54	1.79	2	3
1:A:30:PHE:CD2	2:B:24:LEU:HD21	0.54	2.37	4	1
1:A:38:VAL:O	1:A:100:THR:HG23	0.54	2.03	1	1
2:B:18:ILE:HG23	2:B:19:ASP:N	0.54	2.17	1	1
2:B:29:PHE:N	2:B:30:PRO:CD	0.54	2.70	6	10
2:B:71:VAL:C	2:B:76:ALA:HB3	0.54	2.27	7	3
1:A:53:VAL:CG2	1:A:97:GLU:N	0.54	2.71	10	3
1:A:49:ILE:CG2	2:B:39:TYR:CE1	0.54	2.91	7	3
1:A:32:GLY:O	2:B:27:ARG:NH1	0.54	2.41	6	2
1:A:47:GLU:N	2:B:17:ARG:HD2	0.54	2.17	6	1
1:A:40:LYS:C	1:A:42:ASN:H	0.53	2.11	9	10
2:B:61:ARG:NH1	2:B:61:ARG:CG	0.53	2.68	3	3
2:B:44:LEU:CD1	2:B:62:TYR:OH	0.53	2.56	2	1
2:B:22:PHE:CE1	2:B:26:GLU:OE2	0.53	2.60	5	1
1:A:74:THR:HG22	2:B:38:ARG:NH1	0.53	2.17	7	1
1:A:34:HIS:HA	2:B:20:ILE:HG23	0.53	1.81	1	1
1:A:63:TYR:O	1:A:66:ILE:HG22	0.53	2.03	10	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:33:PRO:O	2:B:37:LYS:NZ	0.53	2.42	8	2
1:A:74:THR:CB	2:B:38:ARG:HH22	0.53	2.17	9	1
1:A:40:LYS:C	1:A:42:ASN:N	0.53	2.65	8	10
2:B:33:PRO:O	2:B:37:LYS:CE	0.53	2.57	1	2
1:A:90:PRO:O	1:A:94:CYS:SG	0.53	2.64	3	2
1:A:41:LYS:O	1:A:45:TRP:CD1	0.53	2.62	8	10
1:A:93:VAL:O	1:A:93:VAL:CG1	0.53	2.56	1	1
2:B:63:CYS:SG	2:B:65:LYS:CG	0.53	2.96	10	1
1:A:96:PHE:HB3	1:A:98:PHE:CZ	0.53	2.38	7	6
2:B:66:CYS:O	2:B:67:HIS:ND1	0.53	2.42	8	1
1:A:53:VAL:HG22	1:A:54:ARG:H	0.53	1.64	2	8
2:B:66:CYS:C	2:B:67:HIS:CG	0.53	2.87	4	3
1:A:58:SER:OG	1:A:93:VAL:O	0.53	2.26	4	4
2:B:33:PRO:CB	2:B:37:LYS:HZ1	0.53	2.16	8	1
1:A:48:LEU:CD1	1:A:113:LEU:HD13	0.53	2.34	2	3
2:B:18:ILE:CG2	2:B:19:ASP:N	0.53	2.71	1	5
1:A:101:TRP:CE3	1:A:102:ASP:N	0.53	2.77	9	9
2:B:28:VAL:HG23	2:B:32:SER:HG	0.53	1.64	10	6
2:B:39:TYR:O	2:B:43:ALA:N	0.53	2.38	1	9
1:A:36:GLY:HA3	2:B:20:ILE:HD11	0.53	1.80	8	2
2:B:45:LEU:HD12	2:B:45:LEU:O	0.53	2.04	8	1
1:A:73:GLU:N	2:B:38:ARG:NH1	0.53	2.57	2	3
1:A:20:TYR:O	1:A:23:ILE:N	0.53	2.42	5	3
1:A:49:ILE:O	2:B:24:LEU:CD2	0.53	2.57	3	1
2:B:58:TRP:CG	2:B:61:ARG:CZ	0.53	2.92	8	1
2:B:44:LEU:O	2:B:48:GLN:HG2	0.52	2.04	4	3
1:A:118:GLU:O	1:A:121:LEU:N	0.52	2.42	4	3
1:A:48:LEU:O	1:A:73:GLU:OE2	0.52	2.26	8	2
1:A:72:ASP:OD2	2:B:38:ARG:NH2	0.52	2.34	9	1
1:A:99:GLU:OE2	1:A:100:THR:N	0.52	2.42	2	1
1:A:85:LYS:NZ	1:A:86:VAL:O	0.52	2.41	9	1
1:A:47:GLU:OE2	2:B:17:ARG:NH2	0.52	2.42	5	2
1:A:48:LEU:HB3	1:A:70:VAL:HG11	0.52	1.80	8	4
1:A:47:GLU:O	1:A:47:GLU:CG	0.52	2.57	5	5
1:A:77:MET:O	1:A:91:LYS:NZ	0.52	2.36	9	1
1:A:34:HIS:NE2	1:A:47:GLU:OE2	0.52	2.42	1	3
2:B:38:ARG:NH2	2:B:42:LEU:HD21	0.52	2.20	1	1
1:A:32:GLY:O	2:B:27:ARG:NE	0.52	2.43	3	1
1:A:99:GLU:OE2	1:A:104:THR:O	0.52	2.28	2	1
1:A:99:GLU:OE2	1:A:105:LYS:NZ	0.52	2.43	7	1
1:A:54:ARG:NH2	1:A:97:GLU:OE2	0.52	2.43	9	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:67:GLU:OE2	1:A:68:GLY:N	0.52	2.43	3	1
1:A:49:ILE:HG22	2:B:24:LEU:CD2	0.52	2.34	5	2
2:B:27:ARG:C	2:B:30:PRO:CG	0.51	2.84	6	10
2:B:61:ARG:NE	2:B:69:PHE:CE1	0.51	2.78	6	1
1:A:77:MET:C	1:A:91:LYS:NZ	0.51	2.60	9	1
1:A:73:GLU:O	2:B:38:ARG:NE	0.51	2.42	1	1
1:A:46:HIS:ND1	2:B:17:ARG:CD	0.51	2.74	5	1
1:A:67:GLU:C	1:A:87:TRP:CZ2	0.51	2.88	7	5
1:A:27:THR:O	1:A:31:ARG:N	0.51	2.39	8	1
1:A:91:LYS:CB	1:A:110:GLY:O	0.51	2.59	6	1
1:A:46:HIS:ND1	2:B:13:ILE:HG23	0.51	2.18	7	1
2:B:34:GLU:OE1	2:B:34:GLU:N	0.51	2.36	7	1
1:A:91:LYS:HD3	1:A:115:GLY:H	0.51	1.64	9	1
1:A:29:ILE:O	1:A:33:ALA:CB	0.51	2.58	7	3
1:A:26:ARG:NE	2:B:31:TYR:CE2	0.51	2.78	8	1
1:A:92:ASP:OD1	1:A:92:ASP:N	0.51	2.42	10	2
1:A:24:ILE:O	1:A:24:ILE:CG2	0.51	2.59	8	4
1:A:47:GLU:CA	2:B:17:ARG:HE	0.51	2.19	4	1
1:A:66:ILE:HG22	1:A:67:GLU:N	0.51	2.20	6	2
1:A:72:ASP:CG	2:B:38:ARG:NE	0.51	2.68	9	1
2:B:61:ARG:NH1	2:B:69:PHE:CD2	0.51	2.79	9	1
1:A:48:LEU:HD11	1:A:113:LEU:HD13	0.51	1.81	8	2
2:B:38:ARG:HG3	2:B:38:ARG:HH11	0.51	1.65	6	2
1:A:82:GLY:O	1:A:83:GLU:C	0.51	2.54	7	4
1:A:91:LYS:O	1:A:110:GLY:C	0.51	2.54	4	3
1:A:23:ILE:N	1:A:23:ILE:CD1	0.51	2.65	8	1
1:A:26:ARG:CD	2:B:31:TYR:CE2	0.51	2.93	10	7
1:A:44:VAL:CG1	1:A:45:TRP:NE1	0.51	2.71	3	10
1:A:109:SER:C	1:A:111:GLU:N	0.51	2.65	1	3
2:B:58:TRP:C	2:B:60:ARG:N	0.51	2.68	8	6
1:A:66:ILE:CG2	1:A:87:TRP:CZ2	0.51	2.93	5	4
2:B:61:ARG:C	2:B:61:ARG:HD3	0.51	2.31	9	4
1:A:29:ILE:O	1:A:33:ALA:HB3	0.51	2.06	7	3
1:A:20:TYR:HB3	1:A:86:VAL:HG11	0.51	1.81	7	4
1:A:23:ILE:CD1	2:B:32:SER:OG	0.51	2.59	3	1
1:A:20:TYR:OH	1:A:72:ASP:OD2	0.51	2.28	6	1
2:B:65:LYS:HB2	2:B:66:CYS:SG	0.50	2.46	2	1
1:A:101:TRP:N	1:A:101:TRP:HE3	0.50	2.04	8	7
2:B:37:LYS:HD2	2:B:68:ALA:HB1	0.50	1.82	7	2
2:B:26:GLU:O	2:B:30:PRO:HD2	0.50	2.06	10	8
1:A:118:GLU:C	1:A:120:ARG:N	0.50	2.69	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:28:VAL:O	2:B:31:TYR:CA	0.50	2.60	4	9
1:A:34:HIS:C	1:A:34:HIS:ND1	0.50	2.70	2	1
1:A:47:GLU:OE2	2:B:20:ILE:HG21	0.50	2.06	3	1
2:B:25:ALA:HB1	2:B:69:PHE:CE2	0.50	2.41	5	3
1:A:72:ASP:OD2	2:B:38:ARG:CZ	0.50	2.60	3	1
1:A:48:LEU:O	1:A:73:GLU:HG2	0.50	2.07	6	1
1:A:42:ASN:ND2	2:B:13:ILE:HD11	0.50	2.21	7	1
1:A:75:ARG:HE	1:A:116:ARG:HH22	0.50	1.49	9	1
2:B:18:ILE:O	2:B:22:PHE:CB	0.50	2.60	1	3
1:A:48:LEU:CB	1:A:70:VAL:HG11	0.50	2.36	7	1
1:A:116:ARG:NH1	1:A:118:GLU:OE2	0.50	2.44	7	1
1:A:24:ILE:C	1:A:24:ILE:CD1	0.50	2.85	2	1
2:B:17:ARG:HH11	2:B:46:VAL:CG2	0.50	2.20	4	1
2:B:38:ARG:O	2:B:41:GLU:HG2	0.50	2.06	6	2
2:B:21:LEU:CD2	2:B:43:ALA:HB2	0.50	2.32	9	1
2:B:37:LYS:O	2:B:41:GLU:CD	0.50	2.55	6	2
2:B:31:TYR:CD1	2:B:31:TYR:C	0.50	2.89	8	1
1:A:119:MET:C	1:A:119:MET:SD	0.50	2.95	4	1
1:A:51:LEU:CD2	1:A:52:LYS:H	0.50	2.20	5	1
1:A:59:THR:C	1:A:60:HIS:ND1	0.50	2.70	8	2
2:B:31:TYR:CD1	2:B:31:TYR:O	0.50	2.65	8	1
1:A:100:THR:C	1:A:102:ASP:H	0.49	2.15	2	3
2:B:24:LEU:CD1	2:B:28:VAL:CG1	0.49	2.90	9	8
1:A:46:HIS:ND1	2:B:17:ARG:HD3	0.49	2.22	5	1
1:A:34:HIS:CE1	1:A:47:GLU:OE2	0.49	2.65	8	1
1:A:66:ILE:CG2	1:A:87:TRP:CD1	0.49	2.93	3	3
1:A:113:LEU:HD23	1:A:113:LEU:H	0.49	1.66	8	2
2:B:9:GLU:O	2:B:13:ILE:HG12	0.49	2.07	8	4
1:A:101:TRP:CE3	1:A:102:ASP:OD1	0.49	2.65	7	1
1:A:74:THR:OG1	1:A:77:MET:CG	0.49	2.59	8	1
2:B:45:LEU:HG	2:B:46:VAL:N	0.49	2.23	1	4
2:B:13:ILE:O	2:B:17:ARG:CB	0.49	2.60	2	4
1:A:91:LYS:N	1:A:91:LYS:HD3	0.49	2.23	3	1
2:B:9:GLU:N	2:B:12:ARG:CD	0.49	2.75	7	2
1:A:49:ILE:HD13	2:B:39:TYR:CE1	0.49	2.42	9	1
1:A:96:PHE:HB2	1:A:98:PHE:CE1	0.49	2.42	10	4
2:B:66:CYS:C	2:B:67:HIS:ND1	0.49	2.69	8	1
1:A:118:GLU:O	1:A:122:LYS:N	0.49	2.37	9	1
2:B:70:LEU:HD13	2:B:70:LEU:N	0.49	2.22	1	2
1:A:96:PHE:O	1:A:108:ILE:O	0.49	2.29	8	5
2:B:49:LYS:C	2:B:49:LYS:NZ	0.49	2.70	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:35:ARG:H	2:B:20:ILE:CD1	0.49	2.19	5	1
1:A:118:GLU:CB	2:B:45:LEU:HD22	0.49	2.36	8	2
1:A:66:ILE:HG21	1:A:87:TRP:HE1	0.49	1.63	6	1
2:B:58:TRP:CD1	2:B:58:TRP:N	0.49	2.77	6	1
2:B:63:CYS:C	2:B:65:LYS:H	0.49	2.13	10	1
1:A:101:TRP:CE3	1:A:101:TRP:HA	0.49	2.42	1	1
2:B:38:ARG:CZ	2:B:38:ARG:HB2	0.49	2.37	7	1
1:A:38:VAL:H	1:A:101:TRP:CG	0.49	2.26	8	8
1:A:20:TYR:C	1:A:22:GLU:H	0.49	2.16	3	3
2:B:9:GLU:O	2:B:13:ILE:CG1	0.49	2.60	10	4
1:A:54:ARG:CZ	1:A:97:GLU:OE1	0.49	2.61	3	2
1:A:118:GLU:HG3	1:A:119:MET:N	0.49	2.23	1	1
2:B:61:ARG:CA	2:B:70:LEU:O	0.49	2.61	2	5
1:A:23:ILE:CD1	2:B:32:SER:HB3	0.49	2.38	6	1
1:A:121:LEU:CD1	2:B:46:VAL:HG13	0.49	2.38	8	1
1:A:121:LEU:HD21	2:B:17:ARG:HD3	0.49	1.84	9	2
1:A:53:VAL:CG1	1:A:80:ILE:HG21	0.49	2.37	7	3
1:A:73:GLU:CD	1:A:73:GLU:H	0.49	2.12	6	1
1:A:99:GLU:CD	1:A:100:THR:O	0.48	2.56	2	1
1:A:73:GLU:CD	1:A:73:GLU:N	0.48	2.71	8	1
1:A:29:ILE:CG1	1:A:30:PHE:CE1	0.48	2.96	4	2
1:A:73:GLU:OE1	1:A:73:GLU:O	0.48	2.31	6	1
2:B:18:ILE:O	2:B:21:LEU:HD13	0.48	2.07	7	5
1:A:71:ILE:O	1:A:73:GLU:OE2	0.48	2.31	7	2
1:A:109:SER:O	1:A:111:GLU:N	0.48	2.47	1	1
2:B:10:LYS:CD	2:B:10:LYS:H	0.48	2.21	1	2
2:B:18:ILE:HA	2:B:21:LEU:HD12	0.48	1.85	2	1
2:B:42:LEU:O	2:B:45:LEU:CD1	0.48	2.61	10	1
2:B:38:ARG:HH21	2:B:41:GLU:CD	0.48	2.15	7	1
2:B:25:ALA:CB	2:B:69:PHE:CE2	0.48	2.97	5	2
1:A:47:GLU:OE1	2:B:21:LEU:CB	0.48	2.62	1	2
1:A:60:HIS:C	1:A:62:GLY:H	0.48	2.17	8	7
1:A:97:GLU:CG	1:A:106:ILE:O	0.48	2.62	10	10
1:A:37:ARG:HA	1:A:101:TRP:CD1	0.48	2.44	6	9
1:A:53:VAL:HG23	1:A:97:GLU:N	0.48	2.23	10	2
1:A:23:ILE:HD12	2:B:32:SER:HB3	0.48	1.86	8	1
1:A:73:GLU:C	1:A:73:GLU:CD	0.48	2.81	2	2
2:B:16:GLU:C	2:B:17:ARG:HH11	0.48	2.17	5	1
2:B:49:LYS:NZ	2:B:49:LYS:CB	0.47	2.76	4	1
2:B:61:ARG:NH1	2:B:61:ARG:HG3	0.47	2.24	3	2
1:A:114:VAL:O	1:A:114:VAL:CG1	0.47	2.60	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:42:LEU:O	2:B:45:LEU:HG	0.47	2.09	2	4
1:A:22:GLU:C	1:A:23:ILE:HD13	0.47	2.34	3	2
1:A:46:HIS:C	2:B:17:ARG:NH1	0.47	2.72	10	1
1:A:51:LEU:CD2	1:A:52:LYS:N	0.47	2.76	1	2
1:A:72:ASP:HA	2:B:38:ARG:CZ	0.47	2.39	2	2
2:B:37:LYS:HD2	2:B:69:PHE:N	0.47	2.24	2	2
2:B:29:PHE:CZ	2:B:69:PHE:O	0.47	2.67	4	1
1:A:47:GLU:N	2:B:17:ARG:HE	0.47	2.08	4	1
1:A:91:LYS:HG3	1:A:115:GLY:H	0.47	1.69	7	1
1:A:76:ASN:C	1:A:91:LYS:CE	0.47	2.88	1	1
1:A:88:LYS:O	1:A:89:VAL:HG13	0.47	2.09	3	1
1:A:101:TRP:CE3	1:A:101:TRP:N	0.47	2.82	8	7
1:A:58:SER:OG	1:A:64:VAL:HG12	0.47	2.10	7	2
2:B:12:ARG:H	2:B:12:ARG:HD2	0.47	1.61	7	1
1:A:73:GLU:OE1	1:A:78:LEU:CD1	0.47	2.62	8	1
2:B:39:TYR:O	2:B:40:VAL:C	0.47	2.58	7	8
2:B:22:PHE:CD1	2:B:22:PHE:C	0.47	2.93	6	1
1:A:74:THR:CG2	2:B:38:ARG:NH1	0.47	2.78	7	1
1:A:49:ILE:HD13	2:B:38:ARG:NH2	0.47	2.25	2	2
2:B:58:TRP:C	2:B:60:ARG:H	0.47	2.17	8	6
1:A:72:ASP:OD1	1:A:74:THR:HG23	0.47	2.10	3	1
1:A:54:ARG:CZ	1:A:97:GLU:OE2	0.47	2.62	6	1
1:A:75:ARG:O	1:A:76:ASN:OD1	0.47	2.33	7	1
2:B:24:LEU:C	2:B:28:VAL:HG13	0.47	2.33	7	3
1:A:46:HIS:C	2:B:17:ARG:HH11	0.47	2.17	10	1
1:A:70:VAL:N	1:A:80:ILE:HG22	0.47	2.25	10	1
2:B:63:CYS:SG	2:B:65:LYS:CB	0.47	3.03	10	1
1:A:90:PRO:C	1:A:92:ASP:N	0.47	2.73	2	1
1:A:101:TRP:CZ3	1:A:102:ASP:CG	0.47	2.92	9	3
1:A:19:SER:O	1:A:20:TYR:C	0.47	2.58	2	8
2:B:75:ASN:C	2:B:93:LEU:HD12	0.47	2.34	1	1
1:A:30:PHE:N	1:A:30:PHE:CD1	0.47	2.83	2	2
2:B:22:PHE:CZ	2:B:58:TRP:NE1	0.47	2.82	2	1
2:B:13:ILE:O	2:B:17:ARG:HD2	0.47	2.10	5	1
2:B:38:ARG:HG3	2:B:39:TYR:CD1	0.47	2.45	7	2
2:B:49:LYS:HD3	2:B:50:ALA:N	0.47	2.25	8	1
1:A:26:ARG:O	1:A:27:THR:C	0.47	2.58	2	10
2:B:62:TYR:CG	2:B:63:CYS:N	0.47	2.83	5	4
1:A:59:THR:HG22	1:A:93:VAL:CG1	0.46	2.39	2	1
2:B:38:ARG:C	2:B:38:ARG:HD2	0.46	2.35	2	2
2:B:65:LYS:C	2:B:66:CYS:SG	0.46	2.96	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:12:ARG:O	2:B:16:GLU:OE2	0.46	2.33	8	2
1:A:39:ASN:O	1:A:42:ASN:C	0.46	2.58	1	4
1:A:60:HIS:C	1:A:62:GLY:N	0.46	2.72	2	7
1:A:73:GLU:CB	2:B:38:ARG:NH1	0.46	2.79	5	2
1:A:101:TRP:CE2	1:A:102:ASP:OD1	0.46	2.69	7	1
1:A:74:THR:OG1	1:A:75:ARG:N	0.46	2.48	9	1
1:A:51:LEU:O	1:A:70:VAL:CG2	0.46	2.57	1	2
1:A:100:THR:C	1:A:102:ASP:N	0.46	2.73	2	2
1:A:89:VAL:O	1:A:94:CYS:SG	0.46	2.73	3	1
2:B:63:CYS:N	2:B:70:LEU:HD21	0.46	2.24	2	1
1:A:100:THR:OG1	1:A:104:THR:C	0.46	2.59	6	6
1:A:58:SER:O	1:A:64:VAL:CG1	0.46	2.63	5	1
2:B:9:GLU:N	2:B:9:GLU:CD	0.46	2.73	2	1
1:A:45:TRP:H	1:A:45:TRP:HD1	0.46	1.51	9	4
1:A:52:LYS:CE	1:A:67:GLU:CD	0.46	2.89	4	1
2:B:40:VAL:HG21	2:B:69:PHE:CD1	0.46	2.44	1	2
2:B:13:ILE:O	2:B:17:ARG:N	0.46	2.40	3	2
1:A:63:TYR:CE2	1:A:88:LYS:O	0.46	2.69	3	1
1:A:73:GLU:OE2	1:A:77:MET:O	0.46	2.34	4	1
1:A:54:ARG:NE	1:A:97:GLU:OE2	0.46	2.49	6	1
2:B:21:LEU:HD11	2:B:43:ALA:HB2	0.46	1.88	6	1
1:A:72:ASP:OD1	2:B:38:ARG:NH1	0.46	2.49	7	1
1:A:52:LYS:NZ	1:A:67:GLU:OE2	0.46	2.47	9	1
2:B:32:SER:OG	2:B:35:LEU:HB2	0.46	2.11	2	4
1:A:58:SER:H	1:A:64:VAL:HG12	0.46	1.71	5	1
1:A:48:LEU:CD2	1:A:98:PHE:CE2	0.46	2.98	4	4
2:B:37:LYS:NZ	2:B:69:PHE:H	0.46	2.09	2	1
1:A:44:VAL:HG13	1:A:45:TRP:CD1	0.46	2.46	6	2
1:A:91:LYS:NZ	1:A:115:GLY:CA	0.46	2.79	3	1
1:A:54:ARG:HE	1:A:97:GLU:CD	0.46	2.18	5	1
1:A:111:GLU:O	1:A:111:GLU:OE1	0.46	2.33	8	1
2:B:63:CYS:C	2:B:65:LYS:N	0.46	2.74	10	1
1:A:47:GLU:N	2:B:17:ARG:HG3	0.45	2.26	1	2
1:A:53:VAL:CG2	1:A:54:ARG:H	0.45	2.23	7	7
1:A:94:CYS:SG	1:A:96:PHE:CD1	0.45	3.09	4	1
2:B:44:LEU:HD21	2:B:62:TYR:OH	0.45	2.11	4	1
2:B:11:LYS:HG2	2:B:12:ARG:HD2	0.45	1.89	6	1
1:A:41:LYS:O	1:A:45:TRP:CE2	0.45	2.69	9	2
2:B:49:LYS:CA	2:B:49:LYS:HZ3	0.45	2.24	4	1
2:B:49:LYS:HZ3	2:B:49:LYS:HB2	0.45	1.70	4	1
1:A:40:LYS:O	1:A:43:ILE:HG22	0.45	2.11	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:72:ASP:CG	2:B:38:ARG:CZ	0.45	2.89	6	2
1:A:38:VAL:CG2	1:A:101:TRP:CE2	0.45	2.98	1	1
2:B:16:GLU:N	2:B:16:GLU:OE1	0.45	2.50	1	1
2:B:61:ARG:CG	2:B:61:ARG:O	0.45	2.64	2	1
1:A:49:ILE:HD12	2:B:21:LEU:HB2	0.45	1.88	3	1
1:A:73:GLU:CG	1:A:91:LYS:NZ	0.45	2.79	5	2
2:B:61:ARG:O	2:B:61:ARG:CG	0.45	2.65	6	1
2:B:29:PHE:CD2	2:B:69:PHE:HB3	0.45	2.47	4	1
1:A:26:ARG:CD	2:B:31:TYR:CD2	0.45	3.00	6	6
2:B:58:TRP:O	2:B:62:TYR:CB	0.45	2.64	4	3
1:A:91:LYS:HZ1	1:A:115:GLY:CA	0.45	2.24	3	1
2:B:49:LYS:CB	2:B:49:LYS:HZ3	0.45	2.24	4	1
1:A:91:LYS:HD2	1:A:115:GLY:H	0.45	1.71	5	1
1:A:91:LYS:CD	1:A:91:LYS:N	0.45	2.77	1	1
1:A:99:GLU:CD	1:A:99:GLU:C	0.45	2.84	2	1
1:A:47:GLU:HA	2:B:17:ARG:HE	0.45	1.70	4	1
1:A:76:ASN:OD1	1:A:76:ASN:O	0.45	2.34	4	1
2:B:40:VAL:HG23	2:B:69:PHE:CD2	0.45	2.47	5	1
1:A:91:LYS:H	1:A:91:LYS:HD2	0.45	1.70	7	1
1:A:35:ARG:HH11	2:B:20:ILE:HD11	0.45	1.69	1	1
1:A:64:VAL:HG23	1:A:64:VAL:O	0.45	2.11	1	1
1:A:73:GLU:HB3	2:B:38:ARG:NH1	0.45	2.27	5	2
1:A:118:GLU:CG	2:B:45:LEU:HD22	0.45	2.41	4	1
2:B:35:LEU:HB3	2:B:39:TYR:CZ	0.45	2.47	9	6
1:A:26:ARG:CG	2:B:31:TYR:CE2	0.45	3.00	2	6
1:A:91:LYS:HZ3	1:A:115:GLY:H	0.45	1.55	3	1
2:B:20:ILE:O	2:B:23:SER:OG	0.45	2.34	9	2
2:B:15:LYS:O	2:B:18:ILE:HG22	0.45	2.12	10	2
1:A:23:ILE:HD12	2:B:31:TYR:O	0.45	2.11	2	1
1:A:58:SER:HB3	1:A:64:VAL:HG12	0.45	1.89	6	1
1:A:101:TRP:CE3	1:A:101:TRP:CA	0.45	3.00	1	1
1:A:58:SER:N	1:A:64:VAL:HG12	0.45	2.27	5	1
2:B:29:PHE:CD1	2:B:29:PHE:O	0.45	2.70	5	1
1:A:75:ARG:C	1:A:91:LYS:HZ1	0.45	2.20	6	1
1:A:89:VAL:O	1:A:90:PRO:C	0.45	2.60	9	1
1:A:47:GLU:OE2	2:B:17:ARG:NE	0.44	2.50	7	1
1:A:76:ASN:CG	1:A:76:ASN:O	0.44	2.59	3	2
1:A:53:VAL:HG23	1:A:98:PHE:N	0.44	2.26	8	1
1:A:49:ILE:CD1	2:B:39:TYR:CD1	0.44	2.93	9	1
1:A:34:HIS:CD2	1:A:50:GLY:N	0.44	2.85	10	1
1:A:38:VAL:HG23	1:A:101:TRP:CE2	0.44	2.47	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:30:PRO:HG2	2:B:31:TYR:N	0.44	2.26	8	7
1:A:41:LYS:HA	1:A:45:TRP:CE2	0.44	2.48	6	9
1:A:99:GLU:OE2	1:A:104:THR:C	0.44	2.61	2	1
1:A:121:LEU:HD21	2:B:17:ARG:CD	0.44	2.42	2	2
1:A:66:ILE:HB	1:A:87:TRP:HE1	0.44	1.69	6	1
2:B:70:LEU:HB2	2:B:76:ALA:HB2	0.44	1.89	2	1
2:B:29:PHE:CE2	2:B:71:VAL:CG2	0.44	3.01	4	1
1:A:45:TRP:CD2	1:A:120:ARG:NE	0.44	2.85	1	1
1:A:88:LYS:C	1:A:89:VAL:CG2	0.44	2.89	4	2
1:A:98:PHE:O	1:A:106:ILE:HB	0.44	2.13	8	2
1:A:111:GLU:C	1:A:111:GLU:OE2	0.44	2.60	1	1
2:B:11:LYS:O	2:B:15:LYS:HG2	0.44	2.12	2	1
1:A:43:ILE:HD13	1:A:43:ILE:C	0.44	2.37	6	1
2:B:13:ILE:O	2:B:17:ARG:HB3	0.44	2.13	7	1
2:B:74:ILE:HG23	2:B:75:ASN:N	0.44	2.27	9	1
1:A:90:PRO:O	1:A:92:ASP:N	0.44	2.51	2	2
1:A:20:TYR:O	1:A:21:GLN:C	0.44	2.61	5	2
1:A:39:ASN:CG	1:A:41:LYS:HZ2	0.44	2.21	4	1
2:B:66:CYS:O	2:B:67:HIS:C	0.44	2.60	5	4
1:A:102:ASP:CG	1:A:102:ASP:O	0.44	2.60	8	1
2:B:49:LYS:C	2:B:49:LYS:HD3	0.44	2.37	8	1
1:A:24:ILE:CD1	1:A:24:ILE:C	0.44	2.91	9	2
1:A:73:GLU:HB3	2:B:38:ARG:HH12	0.44	1.73	4	1
1:A:34:HIS:CE1	1:A:51:LEU:N	0.44	2.81	8	1
1:A:44:VAL:HG13	1:A:45:TRP:CE2	0.43	2.48	5	5
1:A:64:VAL:O	1:A:64:VAL:CG2	0.43	2.65	1	2
2:B:45:LEU:O	2:B:49:LYS:HB3	0.43	2.12	4	1
2:B:48:GLN:HG3	2:B:49:LYS:N	0.43	2.28	8	2
2:B:38:ARG:CZ	2:B:38:ARG:CB	0.43	2.96	7	1
1:A:43:ILE:CG2	1:A:44:VAL:N	0.43	2.81	6	3
1:A:91:LYS:CD	1:A:91:LYS:H	0.43	2.25	3	1
1:A:42:ASN:N	1:A:42:ASN:ND2	0.43	2.65	4	1
2:B:18:ILE:CD1	2:B:47:GLN:NE2	0.43	2.81	5	1
2:B:63:CYS:O	2:B:67:HIS:N	0.43	2.51	10	1
1:A:50:GLY:O	1:A:51:LEU:C	0.43	2.62	10	4
2:B:45:LEU:CG	2:B:46:VAL:N	0.43	2.81	1	2
1:A:44:VAL:N	1:A:45:TRP:CD1	0.43	2.86	7	5
1:A:24:ILE:HD13	1:A:85:LYS:O	0.43	2.13	3	1
1:A:58:SER:O	1:A:60:HIS:N	0.43	2.50	5	1
1:A:47:GLU:H	2:B:17:ARG:HG3	0.43	1.74	8	1
1:A:53:VAL:CG1	1:A:80:ILE:CG2	0.43	2.96	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:69:TYR:C	1:A:80:ILE:HG22	0.43	2.38	10	1
1:A:36:GLY:O	1:A:101:TRP:NE1	0.43	2.51	1	1
1:A:68:GLY:O	1:A:80:ILE:HG22	0.43	2.14	3	5
1:A:76:ASN:N	1:A:91:LYS:HZ1	0.43	2.11	6	1
1:A:95:ILE:HG23	1:A:109:SER:HA	0.43	1.91	6	1
2:B:48:GLN:CG	2:B:49:LYS:N	0.43	2.82	8	1
1:A:74:THR:OG1	1:A:77:MET:HG3	0.43	2.12	7	1
1:A:63:TYR:CE1	1:A:88:LYS:N	0.43	2.85	8	1
1:A:78:LEU:CD2	1:A:96:PHE:CE1	0.43	3.00	2	2
1:A:100:THR:HG22	1:A:101:TRP:CE3	0.43	2.48	9	2
1:A:67:GLU:C	1:A:67:GLU:OE2	0.43	2.62	8	1
1:A:91:LYS:CE	1:A:91:LYS:H	0.43	2.26	9	1
1:A:68:GLY:O	1:A:80:ILE:CG2	0.43	2.67	10	1
2:B:26:GLU:OE2	2:B:61:ARG:NH1	0.43	2.52	3	1
2:B:63:CYS:SG	2:B:65:LYS:HG2	0.43	2.54	3	2
1:A:111:GLU:OE1	1:A:111:GLU:C	0.43	2.62	8	1
1:A:113:LEU:HD23	1:A:113:LEU:N	0.43	2.29	8	1
2:B:35:LEU:HB3	2:B:39:TYR:OH	0.43	2.14	8	1
1:A:73:GLU:C	2:B:38:ARG:NH1	0.43	2.77	9	1
1:A:34:HIS:CD2	2:B:20:ILE:HG21	0.43	2.49	1	1
1:A:66:ILE:C	1:A:87:TRP:HE1	0.43	2.22	1	1
2:B:18:ILE:O	2:B:22:PHE:HB3	0.43	2.14	1	2
1:A:55:VAL:CG2	1:A:80:ILE:CD1	0.43	2.97	4	1
1:A:72:ASP:OD1	1:A:72:ASP:C	0.43	2.60	6	1
1:A:47:GLU:OE1	1:A:49:ILE:CG1	0.43	2.67	8	1
2:B:15:LYS:HD3	2:B:16:GLU:N	0.43	2.29	8	1
1:A:80:ILE:HG12	1:A:87:TRP:CG	0.43	2.48	10	1
1:A:80:ILE:O	1:A:87:TRP:N	0.42	2.40	2	1
2:B:63:CYS:SG	2:B:66:CYS:C	0.42	3.02	2	1
1:A:53:VAL:HG23	1:A:98:PHE:CG	0.42	2.49	6	1
1:A:98:PHE:CD1	1:A:98:PHE:N	0.42	2.87	2	2
2:B:34:GLU:CD	2:B:34:GLU:C	0.42	2.86	2	1
2:B:67:HIS:O	2:B:68:ALA:CB	0.42	2.65	4	1
1:A:42:ASN:CG	2:B:13:ILE:CG2	0.42	2.93	6	1
2:B:12:ARG:CA	2:B:12:ARG:NE	0.42	2.82	6	1
1:A:99:GLU:OE2	1:A:103:GLY:C	0.42	2.62	2	1
2:B:12:ARG:O	2:B:16:GLU:OE1	0.42	2.37	5	1
2:B:58:TRP:CD1	2:B:61:ARG:CZ	0.42	3.03	5	1
1:A:39:ASN:O	1:A:40:LYS:C	0.42	2.61	10	2
2:B:9:GLU:O	2:B:13:ILE:HD12	0.42	2.14	7	1
2:B:38:ARG:CG	2:B:39:TYR:N	0.42	2.83	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:34:HIS:CD2	2:B:20:ILE:HD12	0.42	2.50	2	1
2:B:10:LYS:CG	2:B:11:LYS:N	0.42	2.83	3	1
1:A:29:ILE:HG22	2:B:27:ARG:HH11	0.42	1.75	5	1
1:A:35:ARG:O	1:A:36:GLY:O	0.42	2.36	10	1
1:A:45:TRP:CE3	1:A:120:ARG:HG3	0.42	2.49	2	1
2:B:73:GLY:N	2:B:76:ALA:O	0.42	2.45	3	1
1:A:41:LYS:C	1:A:42:ASN:ND2	0.42	2.77	4	1
1:A:78:LEU:HD22	1:A:91:LYS:HZ3	0.42	1.74	5	1
2:B:38:ARG:HH11	2:B:42:LEU:CD1	0.42	2.23	5	1
1:A:30:PHE:O	1:A:34:HIS:CB	0.42	2.68	7	1
1:A:98:PHE:O	1:A:106:ILE:CB	0.42	2.67	8	1
1:A:44:VAL:O	1:A:120:ARG:CB	0.42	2.68	1	2
2:B:33:PRO:HB3	2:B:37:LYS:HZ1	0.42	1.74	3	2
2:B:46:VAL:O	2:B:50:ALA:N	0.42	2.46	8	1
1:A:35:ARG:HA	1:A:101:TRP:HE1	0.42	1.75	1	1
1:A:38:VAL:HG23	1:A:101:TRP:CD2	0.42	2.50	1	1
1:A:93:VAL:O	1:A:93:VAL:HG13	0.42	2.15	1	1
1:A:24:ILE:CD1	1:A:81:ALA:HB1	0.42	2.45	6	1
1:A:29:ILE:O	1:A:33:ALA:HB2	0.42	2.14	8	1
1:A:71:ILE:C	2:B:38:ARG:NH2	0.42	2.77	2	1
1:A:91:LYS:O	1:A:110:GLY:O	0.42	2.38	4	1
1:A:49:ILE:CG2	2:B:24:LEU:HD23	0.42	2.45	5	1
1:A:122:LYS:HB3	2:B:49:LYS:O	0.42	2.15	5	1
2:B:22:PHE:O	2:B:26:GLU:OE2	0.42	2.38	5	1
2:B:38:ARG:HG3	2:B:39:TYR:N	0.42	2.30	7	1
1:A:108:ILE:CD1	1:A:113:LEU:CD2	0.42	2.98	8	1
1:A:74:THR:O	1:A:91:LYS:NZ	0.42	2.42	9	1
1:A:99:GLU:C	1:A:99:GLU:OE1	0.42	2.63	1	1
2:B:61:ARG:O	2:B:61:ARG:HG2	0.42	2.14	2	1
2:B:33:PRO:CB	2:B:37:LYS:NZ	0.42	2.83	8	1
1:A:28:TRP:NE1	2:B:27:ARG:NH1	0.42	2.66	9	1
2:B:11:LYS:O	2:B:14:ALA:HB3	0.41	2.15	7	2
1:A:118:GLU:HB3	2:B:45:LEU:HD13	0.41	1.90	4	1
1:A:36:GLY:N	2:B:20:ILE:HD11	0.41	2.30	6	1
1:A:50:GLY:O	1:A:69:TYR:CZ	0.41	2.73	2	1
1:A:53:VAL:HG12	1:A:80:ILE:CG2	0.41	2.45	6	2
1:A:39:ASN:HD22	1:A:41:LYS:CE	0.41	2.28	7	1
2:B:38:ARG:C	2:B:38:ARG:HD3	0.41	2.34	7	1
2:B:44:LEU:O	2:B:48:GLN:CD	0.41	2.63	7	1
1:A:32:GLY:O	2:B:27:ARG:CZ	0.41	2.69	2	1
1:A:72:ASP:OD2	1:A:77:MET:HE3	0.41	2.14	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:25:ALA:O	2:B:29:PHE:CB	0.41	2.68	10	1
1:A:52:LYS:CE	1:A:67:GLU:OE2	0.41	2.68	4	1
1:A:53:VAL:CG1	1:A:70:VAL:HG22	0.41	2.46	6	2
1:A:45:TRP:CE3	1:A:120:ARG:CG	0.41	3.03	9	2
1:A:37:ARG:NE	1:A:42:ASN:ND2	0.41	2.67	10	1
1:A:79:VAL:HG13	1:A:87:TRP:O	0.41	2.16	10	1
1:A:35:ARG:C	1:A:101:TRP:HE1	0.41	2.23	1	1
2:B:29:PHE:CD1	2:B:71:VAL:CG2	0.41	3.04	7	1
1:A:122:LYS:HB3	2:B:49:LYS:HB3	0.41	1.92	1	1
1:A:101:TRP:HE3	1:A:101:TRP:N	0.41	2.14	9	2
1:A:37:ARG:CZ	1:A:37:ARG:CB	0.41	2.98	2	1
1:A:45:TRP:CB	2:B:13:ILE:HD13	0.41	2.46	2	1
2:B:33:PRO:HB3	2:B:37:LYS:NZ	0.41	2.31	8	1
1:A:70:VAL:HA	1:A:80:ILE:HA	0.41	1.93	10	1
1:A:23:ILE:CD1	2:B:32:SER:CB	0.41	2.99	3	1
1:A:102:ASP:O	1:A:102:ASP:CG	0.41	2.63	3	1
1:A:46:HIS:CA	2:B:17:ARG:HD2	0.41	2.46	6	1
2:B:20:ILE:HG22	2:B:21:LEU:N	0.41	2.31	7	2
1:A:45:TRP:CD2	1:A:120:ARG:CG	0.41	3.04	10	1
1:A:38:VAL:HG13	1:A:51:LEU:HD11	0.41	1.93	1	1
1:A:38:VAL:O	1:A:100:THR:HG22	0.41	2.16	2	1
1:A:47:GLU:OE2	2:B:20:ILE:HD13	0.41	2.14	2	1
1:A:100:THR:O	1:A:102:ASP:N	0.41	2.53	2	1
1:A:45:TRP:CE3	1:A:120:ARG:NE	0.41	2.88	3	1
2:B:65:LYS:CD	2:B:65:LYS:N	0.41	2.83	3	1
1:A:36:GLY:HA3	2:B:17:ARG:HH21	0.41	1.75	6	1
1:A:39:ASN:O	1:A:42:ASN:CA	0.41	2.69	6	1
1:A:118:GLU:O	1:A:122:LYS:CG	0.41	2.69	6	1
2:B:11:LYS:HG2	2:B:12:ARG:CD	0.41	2.45	6	1
1:A:49:ILE:O	2:B:24:LEU:HD21	0.41	2.15	3	1
2:B:38:ARG:HD2	2:B:38:ARG:C	0.41	2.41	4	1
1:A:47:GLU:OE2	1:A:49:ILE:CG1	0.41	2.69	6	1
2:B:36:ALA:O	2:B:40:VAL:CG2	0.41	2.68	6	1
2:B:21:LEU:CD2	2:B:39:TYR:HB3	0.41	2.39	7	1
1:A:82:GLY:CA	1:A:87:TRP:CZ3	0.40	3.04	6	2
1:A:59:THR:O	1:A:59:THR:CG2	0.40	2.60	2	1
1:A:21:GLN:CD	1:A:21:GLN:N	0.40	2.78	3	1
1:A:28:TRP:C	1:A:30:PHE:N	0.40	2.77	4	1
1:A:73:GLU:OE1	2:B:42:LEU:CD1	0.40	2.65	6	1
1:A:74:THR:C	1:A:76:ASN:N	0.40	2.79	6	1
2:B:33:PRO:C	2:B:37:LYS:NZ	0.40	2.79	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:55:VAL:HG21	1:A:89:VAL:HG21	0.40	1.92	9	1
1:A:47:GLU:OE1	2:B:17:ARG:HG3	0.40	2.17	10	1
1:A:73:GLU:HG3	1:A:91:LYS:NZ	0.40	2.31	10	1
2:B:34:GLU:O	2:B:38:ARG:N	0.40	2.52	1	1
2:B:63:CYS:SG	2:B:65:LYS:N	0.40	2.89	1	1
1:A:99:GLU:O	1:A:99:GLU:OE1	0.40	2.38	9	1
1:A:91:LYS:HD2	1:A:91:LYS:N	0.40	2.32	6	1
1:A:74:THR:HA	2:B:38:ARG:HH21	0.40	1.76	8	1
2:B:35:LEU:CD2	2:B:38:ARG:NH2	0.40	2.84	10	1
1:A:35:ARG:NH1	2:B:20:ILE:CD1	0.40	2.85	1	1
1:A:80:ILE:CB	1:A:87:TRP:HB2	0.40	2.46	1	1
2:B:20:ILE:N	2:B:20:ILE:CD1	0.40	2.84	4	1
1:A:46:HIS:CE1	2:B:17:ARG:CD	0.40	3.04	5	1
1:A:41:LYS:HA	1:A:45:TRP:NE1	0.40	2.32	6	1
1:A:26:ARG:HG3	2:B:31:TYR:CZ	0.40	2.51	8	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	104/127 (82%)	79±3 (76±3%)	20±2 (19±2%)	6±1 (6±1%)	2	21
2	B	64/123 (52%)	56±1 (88±1%)	6±1 (9±1%)	2±1 (3±1%)	6	40
All	All	1680/2500 (67%)	1350 (80%)	254 (15%)	76 (5%)	3	27

All 18 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	26	ARG	10
1	A	27	THR	10
1	A	49	ILE	10
2	B	67	HIS	10
1	A	61	PRO	7
1	A	114	VAL	4

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Mol	Chain	Res	Type	Models (Total)
2	B	58	TRP	4
1	A	21	GLN	3
1	A	36	GLY	3
2	B	68	ALA	3
1	A	33	ALA	2
1	A	91	LYS	2
1	A	119	MET	2
1	A	83	GLU	2
1	A	110	GLY	1
2	B	52	VAL	1
1	A	101	TRP	1
1	A	90	PRO	1

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	91/112 (81%)	62±2 (68±2%)	29±2 (32±2%)	1	14
2	B	57/111 (51%)	41±3 (72±5%)	16±3 (28±5%)	1	20
All	All	1480/2230 (66%)	1034 (70%)	446 (30%)	1	16

All 95 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	24	ILE	10
1	A	26	ARG	10
1	A	43	ILE	10
1	A	44	VAL	10
1	A	45	TRP	10
1	A	46	HIS	10
1	A	47	GLU	10
1	A	54	ARG	10
1	A	80	ILE	10
1	A	101	TRP	10
1	A	108	ILE	10
1	A	113	LEU	10

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Mol	Chain	Res	Type	Models (Total)
1	A	121	LEU	10
2	B	21	LEU	10
2	B	61	ARG	10
2	B	70	LEU	10
1	A	100	THR	9
2	B	18	ILE	9
1	A	70	VAL	8
1	A	93	VAL	8
1	A	104	THR	8
2	B	24	LEU	8
2	B	28	VAL	8
2	B	37	LYS	8
1	A	51	LEU	7
1	A	91	LYS	7
2	B	92	CYS	7
1	A	64	VAL	6
2	B	13	ILE	6
2	B	52	VAL	6
1	A	89	VAL	6
1	A	122	LYS	6
2	B	65	LYS	6
1	A	69	TYR	5
1	A	77	MET	5
1	A	94	CYS	5
2	B	9	GLU	5
2	B	69	PHE	5
1	A	74	THR	5
2	B	40	VAL	5
2	B	49	LYS	5
2	B	11	LYS	5
1	A	66	ILE	5
1	A	39	ASN	4
1	A	59	THR	4
2	B	16	GLU	4
1	A	73	GLU	4
1	A	35	ARG	4
1	A	118	GLU	4
1	A	49	ILE	4
2	B	67	HIS	4
2	B	26	GLU	4
1	A	111	GLU	3
2	B	10	LYS	3

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Mol	Chain	Res	Type	Models (Total)
2	B	47	GLN	3
1	A	60	HIS	3
1	A	105	LYS	3
2	B	12	ARG	3
2	B	20	ILE	3
2	B	45	LEU	3
1	A	92	ASP	3
2	B	41	GLU	3
1	A	67	GLU	3
2	B	38	ARG	3
1	A	31	ARG	2
1	A	52	LYS	2
1	A	57	ASN	2
1	A	99	GLU	2
2	B	44	LEU	2
1	A	23	ILE	2
1	A	41	LYS	2
2	B	32	SER	2
2	B	17	ARG	2
1	A	48	LEU	2
1	A	75	ARG	1
2	B	51	LYS	1
1	A	76	ASN	1
2	B	39	TYR	1
2	B	63	CYS	1
2	B	66	CYS	1
1	A	84	ASN	1
1	A	22	GLU	1
1	A	42	ASN	1
2	B	71	VAL	1
1	A	88	LYS	1
1	A	19	SER	1
2	B	34	GLU	1
1	A	78	LEU	1
1	A	95	ILE	1
1	A	120	ARG	1
2	B	15	LYS	1
1	A	21	GLN	1
1	A	58	SER	1
1	A	72	ASP	1
1	A	98	PHE	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

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

No chemical shift data were provided