



Full wwPDB NMR Structure Validation Report ⓘ

Mar 26, 2026 – 12:13 AM UTC

PDB ID : 2MFN / pdb_00002mfn
Title : SOLUTION NMR STRUCTURE OF LINKED CELL ATTACHMENT MODULES OF MOUSE FIBRONECTIN CONTAINING THE RGD AND SYNERGY REGIONS, 10 STRUCTURES
Authors : Copie, V.; Tomita, Y.; Akiyama, S.K.; Aota, S.; Yamada, K.M.; Venable, R.M.; Pastor, R.W.; Krueger, S.; Torchia, D.A.
Deposited on : 1998-02-11

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

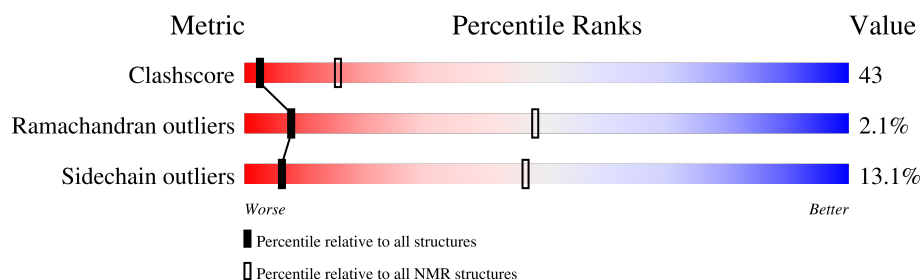
1 Overall quality at a glance

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	184	37% 45% 6% 12%

2 Ensemble composition and analysis

This entry contains 10 models. The atoms present in the NMR models are not consistent. Some calculations may have failed as a result. All residues are included in the validation scores. Model 1 is the overall representative, medoid model (most similar to other models).

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:2-A:38, A:46-A:91 (83)	0.41	1
2	A:94-A:128, A:135-A:166, A:174-A:184 (78)	0.53	2

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

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 2769 atoms, of which 1372 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called FIBRONECTIN.

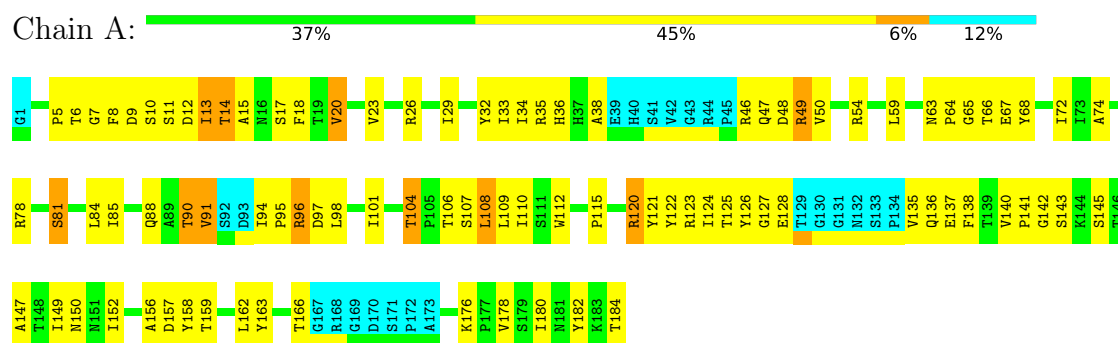
Mol	Chain	Residues	Atoms					Trace
1	A	184	Total	C	H	N	O	0
			2769	875	1372	244	278	

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: FIBRONECTIN

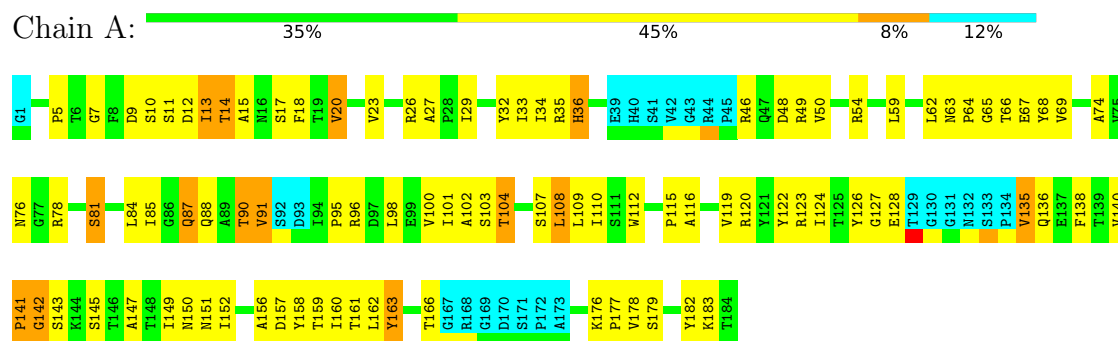


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

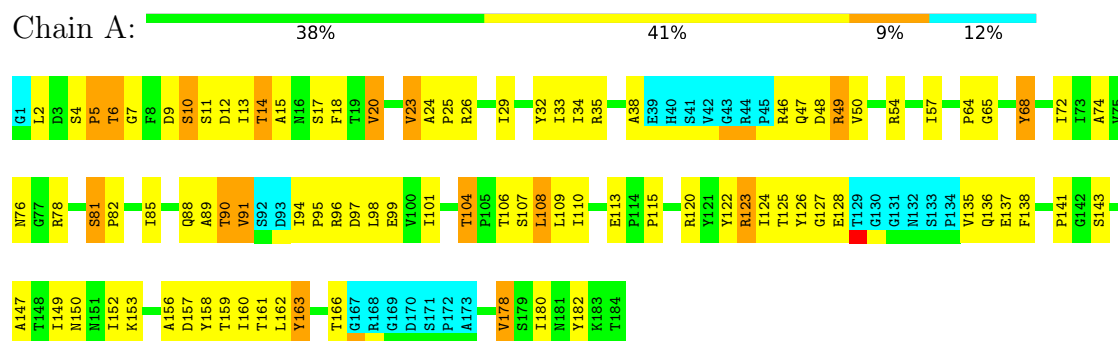
4.2.1 Score per residue for model 1 (medoid)

• Molecule 1: FIBRONECTIN



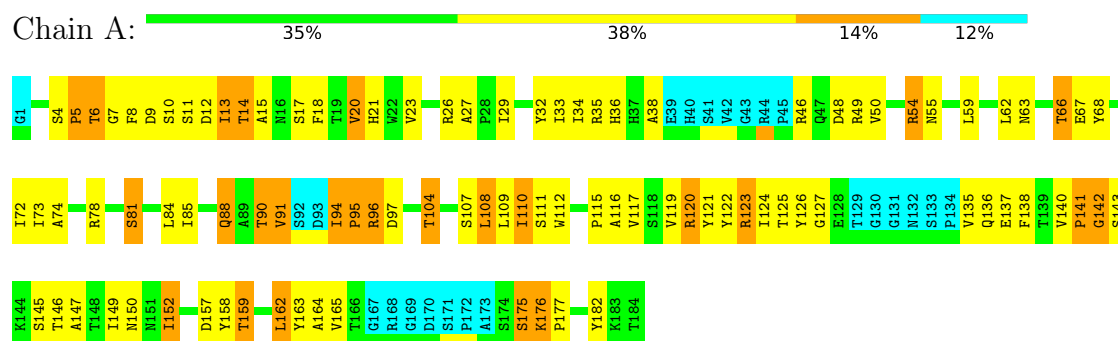
4.2.2 Score per residue for model 2

• Molecule 1: FIBRONECTIN



4.2.3 Score per residue for model 3

• Molecule 1: FIBRONECTIN



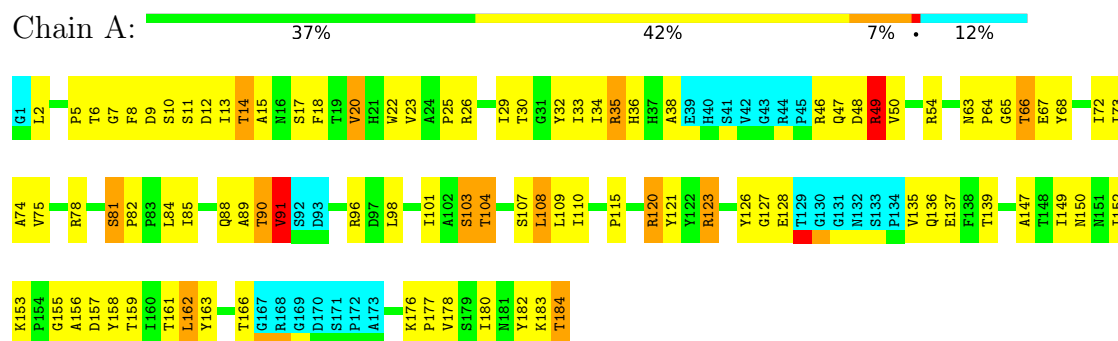
4.2.4 Score per residue for model 4

• Molecule 1: FIBRONECTIN



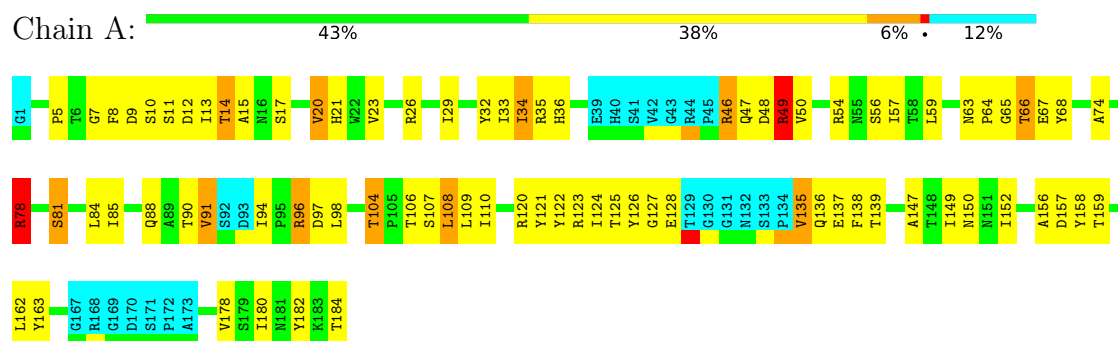
4.2.5 Score per residue for model 5

• Molecule 1: FIBRONECTIN



4.2.6 Score per residue for model 6

• Molecule 1: FIBRONECTIN



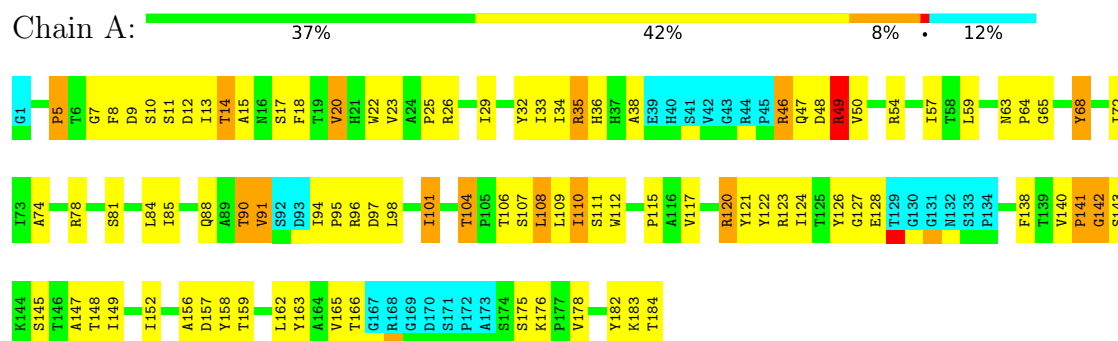
4.2.7 Score per residue for model 7

• Molecule 1: FIBRONECTIN



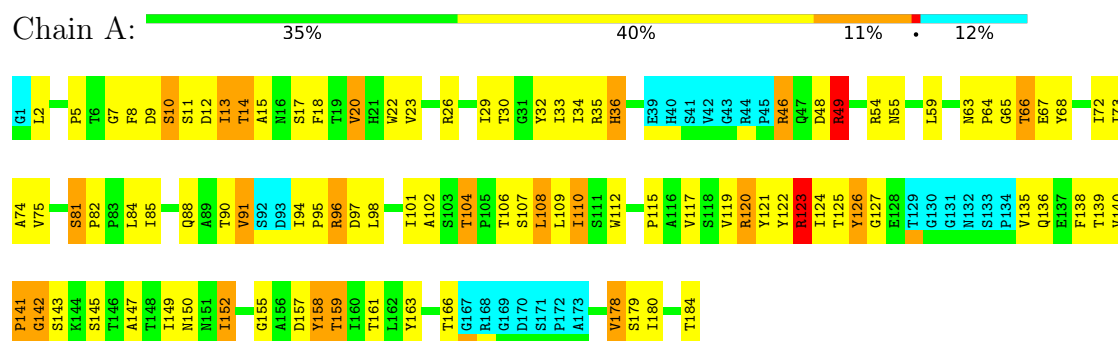
4.2.8 Score per residue for model 8

• Molecule 1: FIBRONECTIN



4.2.9 Score per residue for model 9

• Molecule 1: FIBRONECTIN



4.2.10 Score per residue for model 10

• Molecule 1: FIBRONECTIN



5 Refinement protocol and experimental data overview

The models were refined using the following method: *TORSION-ANGLE MOLECULAR DYNAMICS*.

Of the 40 calculated structures, 10 were deposited, based on the following criterion: *NO NOE VIOLATIONS GREATER THAN 0.5 Å, NO DIHEDRAL ANGLE RESTRAINT VIOLATIONS > 5, RMSD FOR BOND DEVIATIONS FROM IDEALITY < 0.05 Å, RMSD FOR ANGLE DEVIATIONS FROM IDEALITY < 5 AND RMSD FOR IMPROPER ANGLES DEVIATIONS FROM IDEALITY < 5.*

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

Software name	Classification	Version
X-PLOR	refinement	3.8
X-PLOR	structure solution	

No chemical shift data was provided.

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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	1.42±0.00	0±0/1276 (0.0± 0.0%)	1.33±0.01	1±0/1753 (0.1± 0.0%)
All	All	1.42	1/12760 (0.0%)	1.33	10/17530 (0.1%)

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

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	7.8±0.7
All	All	0	78

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	126	TYR	C-N	-5.79	1.30	1.33	9	1

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	7	GLY	N-CA-C	-6.45	105.00	114.61	5	10

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	46	ARG	Sidechain	10
1	A	54	ARG	Sidechain	10
1	A	26	ARG	Sidechain	9

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Mol	Chain	Res	Type	Group	Models (Total)
1	A	78	ARG	Sidechain	9
1	A	35	ARG	Sidechain	8
1	A	96	ARG	Sidechain	8
1	A	123	ARG	Sidechain	8
1	A	49	ARG	Sidechain	8
1	A	120	ARG	Sidechain	8

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	1244	1240	1240	106±11
All	All	12440	12400	12400	1061

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 43.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:2:LEU:HD22	1:A:2:LEU:H	0.99	1.11	10	1
1:A:107:SER:O	1:A:108:LEU:HD23	0.97	1.60	2	10
1:A:162:LEU:HD12	1:A:163:TYR:N	0.96	1.75	5	6
1:A:2:LEU:N	1:A:2:LEU:HD13	0.95	1.75	10	1
1:A:5:PRO:O	1:A:84:LEU:HD22	0.90	1.67	5	8
1:A:152:ILE:HG23	1:A:158:TYR:CE2	0.82	2.10	1	2
1:A:2:LEU:HD22	1:A:2:LEU:N	0.81	1.91	10	1
1:A:161:THR:HG23	1:A:178:VAL:O	0.80	1.77	9	1
1:A:18:PHE:CD1	1:A:88:GLN:NE2	0.80	2.50	3	2
1:A:162:LEU:C	1:A:162:LEU:HD12	0.79	2.01	7	3
1:A:162:LEU:HD12	1:A:162:LEU:C	0.79	2.02	4	4
1:A:94:ILE:HD12	1:A:176:LYS:O	0.79	1.76	3	1
1:A:107:SER:C	1:A:108:LEU:HD23	0.78	2.04	6	10
1:A:104:THR:HG1	1:A:107:SER:C	0.78	1.86	7	8
1:A:38:ALA:HB2	1:A:68:TYR:CE1	0.78	2.12	3	2
1:A:2:LEU:H	1:A:2:LEU:CD2	0.76	1.93	10	1
1:A:127:GLY:O	1:A:158:TYR:CD2	0.74	2.40	9	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:29:ILE:CD1	1:A:32:TYR:CE1	0.74	2.70	6	6
1:A:126:TYR:OH	1:A:150:ASN:N	0.73	2.21	3	9
1:A:18:PHE:CE1	1:A:20:VAL:HG22	0.73	2.18	2	6
1:A:33:ILE:C	1:A:34:ILE:HD13	0.73	2.08	6	8
1:A:18:PHE:CD1	1:A:88:GLN:OE1	0.73	2.42	2	1
1:A:152:ILE:HG23	1:A:158:TYR:CZ	0.72	2.20	1	2
1:A:126:TYR:CZ	1:A:149:ILE:HG23	0.72	2.20	8	10
1:A:109:LEU:HD13	1:A:110:ILE:N	0.72	2.00	1	1
1:A:148:THR:HG22	1:A:149:ILE:N	0.70	2.00	8	1
1:A:141:PRO:O	1:A:143:SER:N	0.70	2.24	9	6
1:A:14:THR:N	1:A:17:SER:O	0.70	2.25	8	10
1:A:127:GLY:O	1:A:158:TYR:CG	0.70	2.44	1	10
1:A:20:VAL:C	1:A:21:HIS:CD2	0.70	2.70	3	1
1:A:36:HIS:CE1	1:A:48:ASP:OD2	0.70	2.45	6	1
1:A:112:TRP:CD2	1:A:145:SER:O	0.69	2.45	10	6
1:A:72:ILE:C	1:A:73:ILE:HD12	0.69	2.11	9	2
1:A:47:GLN:CD	1:A:47:GLN:N	0.69	2.50	10	1
1:A:109:LEU:HD13	1:A:109:LEU:C	0.69	2.13	1	1
1:A:120:ARG:NH1	1:A:166:THR:O	0.69	2.26	4	1
1:A:34:ILE:HD13	1:A:34:ILE:N	0.69	2.03	6	3
1:A:101:ILE:HD11	1:A:109:LEU:CD2	0.69	2.18	10	3
1:A:157:ASP:OD2	1:A:183:LYS:NZ	0.69	2.26	8	1
1:A:18:PHE:CZ	1:A:88:GLN:OE1	0.69	2.46	4	3
1:A:157:ASP:OD1	1:A:158:TYR:N	0.68	2.26	8	9
1:A:108:LEU:HD22	1:A:182:TYR:CZ	0.68	2.23	3	6
1:A:18:PHE:CZ	1:A:88:GLN:CD	0.68	2.72	3	1
1:A:29:ILE:CD1	1:A:32:TYR:CZ	0.68	2.77	3	10
1:A:65:GLY:N	1:A:91:VAL:O	0.68	2.26	4	8
1:A:18:PHE:CD2	1:A:68:TYR:OH	0.68	2.46	2	2
1:A:123:ARG:NE	1:A:137:GLU:OE2	0.68	2.26	5	2
1:A:49:ARG:N	1:A:49:ARG:HE	0.68	1.86	10	2
1:A:50:VAL:CG1	1:A:57:ILE:HD12	0.68	2.19	8	3
1:A:108:LEU:HD22	1:A:182:TYR:CE1	0.68	2.23	3	1
1:A:63:ASN:N	1:A:68:TYR:OH	0.67	2.24	3	6
1:A:74:ALA:HB3	1:A:81:SER:OG	0.67	1.87	1	2
1:A:18:PHE:CD2	1:A:88:GLN:CD	0.67	2.73	4	1
1:A:98:LEU:O	1:A:180:ILE:HG21	0.67	1.89	7	5
1:A:18:PHE:CE2	1:A:68:TYR:OH	0.67	2.45	8	2
1:A:88:GLN:NE2	1:A:89:ALA:C	0.67	2.53	7	2
1:A:33:ILE:HG23	1:A:49:ARG:HE	0.66	1.48	8	1
1:A:155:GLY:N	1:A:184:THR:OG1	0.66	2.28	10	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:33:ILE:HG23	1:A:49:ARG:HG3	0.66	1.67	6	5
1:A:74:ALA:HB3	1:A:81:SER:HB2	0.66	1.67	8	4
1:A:106:THR:C	1:A:152:ILE:HG22	0.66	2.16	4	7
1:A:112:TRP:CE2	1:A:145:SER:O	0.66	2.48	10	5
1:A:121:TYR:CE2	1:A:139:THR:HG22	0.66	2.25	9	4
1:A:104:THR:OG1	1:A:107:SER:N	0.66	2.29	6	1
1:A:29:ILE:HD11	1:A:32:TYR:CZ	0.66	2.26	5	6
1:A:14:THR:CA	1:A:17:SER:O	0.65	2.44	9	10
1:A:13:ILE:CD1	1:A:88:GLN:HE21	0.65	2.04	9	2
1:A:108:LEU:HD12	1:A:160:ILE:HD11	0.65	1.69	7	5
1:A:140:VAL:O	1:A:142:GLY:N	0.65	2.30	3	5
1:A:18:PHE:CE1	1:A:88:GLN:CD	0.65	2.75	3	2
1:A:94:ILE:CD1	1:A:176:LYS:O	0.64	2.44	3	1
1:A:164:ALA:HB3	1:A:175:SER:OG	0.64	1.92	3	1
1:A:18:PHE:CE2	1:A:88:GLN:OE1	0.64	2.50	3	3
1:A:10:SER:CB	1:A:88:GLN:CD	0.64	2.71	6	2
1:A:122:TYR:N	1:A:122:TYR:CD1	0.64	2.66	3	8
1:A:59:LEU:HB3	1:A:62:LEU:HD11	0.64	1.69	7	4
1:A:182:TYR:CE1	1:A:183:LYS:O	0.64	2.50	1	3
1:A:163:TYR:CD1	1:A:163:TYR:N	0.63	2.66	2	5
1:A:10:SER:CB	1:A:88:GLN:HE21	0.63	2.06	2	1
1:A:14:THR:CB	1:A:17:SER:O	0.63	2.47	9	10
1:A:107:SER:CB	1:A:149:ILE:O	0.63	2.47	8	7
1:A:35:ARG:HH12	1:A:47:GLN:NE2	0.63	1.91	5	2
1:A:126:TYR:CZ	1:A:149:ILE:CG2	0.63	2.82	9	10
1:A:34:ILE:O	1:A:48:ASP:O	0.63	2.16	5	10
1:A:148:THR:CG2	1:A:149:ILE:N	0.63	2.62	8	1
1:A:10:SER:CB	1:A:88:GLN:OE1	0.62	2.47	1	2
1:A:110:ILE:HD11	1:A:147:ALA:HB3	0.62	1.71	3	8
1:A:2:LEU:N	1:A:2:LEU:CD2	0.62	2.58	10	1
1:A:119:VAL:HG11	1:A:122:TYR:CZ	0.62	2.30	10	4
1:A:14:THR:OG1	1:A:17:SER:O	0.62	2.17	4	10
1:A:124:ILE:HD12	1:A:138:PHE:CZ	0.62	2.29	4	9
1:A:49:ARG:N	1:A:49:ARG:NE	0.62	2.47	10	2
1:A:68:TYR:OH	1:A:90:THR:HG23	0.62	1.95	2	2
1:A:69:VAL:HG22	1:A:87:GLN:HE22	0.62	1.54	1	1
1:A:155:GLY:N	1:A:184:THR:O	0.61	2.33	5	1
1:A:126:TYR:OH	1:A:150:ASN:O	0.61	2.18	2	9
1:A:104:THR:CB	1:A:107:SER:HG	0.61	2.07	10	6
1:A:123:ARG:CD	1:A:137:GLU:OE2	0.61	2.48	5	1
1:A:106:THR:O	1:A:152:ILE:HG22	0.61	1.95	4	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:13:ILE:HG22	1:A:91:VAL:HG23	0.61	1.73	9	5
1:A:2:LEU:N	1:A:2:LEU:CD1	0.61	2.47	10	1
1:A:18:PHE:CG	1:A:88:GLN:NE2	0.61	2.68	3	1
1:A:36:HIS:NE2	1:A:46:ARG:CB	0.61	2.63	8	1
1:A:100:VAL:CG1	1:A:102:ALA:O	0.61	2.49	1	3
1:A:162:LEU:C	1:A:162:LEU:CD1	0.60	2.70	5	5
1:A:125:THR:HG22	1:A:137:GLU:HG2	0.60	1.73	6	2
1:A:67:GLU:OE2	1:A:87:GLN:NE2	0.60	2.34	7	1
1:A:66:THR:N	1:A:90:THR:OG1	0.60	2.34	3	1
1:A:74:ALA:HB3	1:A:81:SER:HB3	0.60	1.74	4	4
1:A:121:TYR:CE1	1:A:139:THR:HG22	0.60	2.31	7	1
1:A:9:ASP:OD1	1:A:10:SER:N	0.60	2.34	8	9
1:A:10:SER:OG	1:A:88:GLN:OE1	0.60	2.18	1	4
1:A:15:ALA:HB1	1:A:64:PRO:HB3	0.60	1.73	1	9
1:A:104:THR:OG1	1:A:107:SER:O	0.60	2.17	9	10
1:A:69:VAL:HG22	1:A:87:GLN:NE2	0.60	2.12	1	1
1:A:110:ILE:CD1	1:A:147:ALA:HB3	0.60	2.27	3	6
1:A:34:ILE:HG23	1:A:72:ILE:CD1	0.59	2.26	8	6
1:A:94:ILE:HG21	1:A:178:VAL:HG23	0.59	1.72	9	2
1:A:123:ARG:NH2	1:A:163:TYR:CG	0.59	2.71	2	1
1:A:88:GLN:CD	1:A:88:GLN:C	0.59	2.70	5	3
1:A:141:PRO:O	1:A:142:GLY:C	0.59	2.44	8	5
1:A:18:PHE:CE2	1:A:20:VAL:HG22	0.59	2.33	1	2
1:A:18:PHE:CE1	1:A:88:GLN:OE1	0.59	2.56	4	2
1:A:98:LEU:C	1:A:98:LEU:HD23	0.59	2.22	9	2
1:A:91:VAL:HG11	1:A:116:ALA:HB2	0.58	1.75	7	2
1:A:141:PRO:C	1:A:143:SER:N	0.58	2.61	9	7
1:A:15:ALA:H	1:A:116:ALA:HB1	0.58	1.59	3	1
1:A:68:TYR:N	1:A:68:TYR:CD1	0.58	2.70	2	2
1:A:101:ILE:HD11	1:A:109:LEU:HD21	0.58	1.76	7	2
1:A:104:THR:HG1	1:A:107:SER:H	0.58	1.41	6	1
1:A:18:PHE:CE1	1:A:88:GLN:NE2	0.58	2.72	2	2
1:A:123:ARG:HE	1:A:137:GLU:CD	0.58	2.06	3	1
1:A:14:THR:O	1:A:17:SER:O	0.57	2.22	9	7
1:A:76:ASN:O	1:A:76:ASN:CG	0.57	2.47	1	2
1:A:33:ILE:HG23	1:A:49:ARG:NE	0.57	2.13	8	2
1:A:17:SER:OG	1:A:59:LEU:O	0.57	2.21	4	3
1:A:88:GLN:NE2	1:A:89:ALA:O	0.57	2.37	7	2
1:A:33:ILE:HG23	1:A:49:ARG:HD2	0.57	1.76	4	2
1:A:90:THR:O	1:A:91:VAL:O	0.57	2.22	3	3
1:A:109:LEU:C	1:A:109:LEU:CD1	0.57	2.77	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:29:ILE:CD1	1:A:32:TYR:OH	0.57	2.53	3	3
1:A:49:ARG:HE	1:A:49:ARG:H	0.57	1.41	10	1
1:A:33:ILE:HD12	1:A:49:ARG:NH1	0.57	2.13	4	1
1:A:32:TYR:C	1:A:33:ILE:HD12	0.57	2.24	3	1
1:A:35:ARG:NH1	1:A:47:GLN:NE2	0.56	2.53	5	2
1:A:47:GLN:CD	1:A:47:GLN:H	0.56	2.08	10	1
1:A:98:LEU:C	1:A:98:LEU:CD2	0.56	2.78	9	2
1:A:36:HIS:CD2	1:A:36:HIS:C	0.56	2.83	10	3
1:A:126:TYR:CE1	1:A:149:ILE:HG23	0.56	2.35	8	1
1:A:102:ALA:HB3	1:A:109:LEU:HB2	0.56	1.76	1	1
1:A:5:PRO:O	1:A:6:THR:HG23	0.56	2.01	4	1
1:A:155:GLY:H	1:A:184:THR:C	0.56	2.08	5	1
1:A:14:THR:C	1:A:17:SER:O	0.56	2.49	9	7
1:A:2:LEU:O	1:A:81:SER:OG	0.56	2.23	9	2
1:A:96:ARG:CG	1:A:97:ASP:N	0.56	2.70	3	5
1:A:109:LEU:HD23	1:A:110:ILE:N	0.55	2.16	2	5
1:A:104:THR:OG1	1:A:107:SER:C	0.55	2.50	8	7
1:A:109:LEU:HD23	1:A:109:LEU:C	0.55	2.27	6	5
1:A:36:HIS:CE1	1:A:68:TYR:CD1	0.55	2.95	4	2
1:A:15:ALA:HB3	1:A:117:VAL:CG1	0.55	2.32	9	3
1:A:11:SER:O	1:A:12:ASP:C	0.54	2.49	3	10
1:A:34:ILE:N	1:A:48:ASP:O	0.54	2.39	9	10
1:A:126:TYR:N	1:A:136:GLN:O	0.54	2.36	2	4
1:A:88:GLN:OE1	1:A:89:ALA:O	0.54	2.26	5	1
1:A:4:SER:OG	1:A:81:SER:OG	0.54	2.25	4	1
1:A:156:ALA:O	1:A:184:THR:OG1	0.54	2.25	7	2
1:A:94:ILE:HG23	1:A:95:PRO:HD2	0.54	1.78	3	1
1:A:125:THR:HG22	1:A:137:GLU:HB3	0.53	1.81	2	1
1:A:49:ARG:N	1:A:49:ARG:CD	0.53	2.71	8	4
1:A:98:LEU:HD22	1:A:162:LEU:CD2	0.53	2.33	8	1
1:A:156:ALA:H	1:A:184:THR:HG1	0.53	1.44	8	1
1:A:94:ILE:HD11	1:A:176:LYS:HB2	0.53	1.80	7	2
1:A:126:TYR:CE2	1:A:150:ASN:O	0.53	2.62	7	9
1:A:73:ILE:HD12	1:A:73:ILE:N	0.53	2.18	10	2
1:A:163:TYR:N	1:A:163:TYR:CD1	0.53	2.76	5	3
1:A:156:ALA:N	1:A:184:THR:O	0.53	2.41	5	1
1:A:78:ARG:H	1:A:78:ARG:CD	0.53	2.16	6	1
1:A:155:GLY:CA	1:A:184:THR:O	0.53	2.57	5	1
1:A:30:THR:OG1	1:A:75:VAL:O	0.52	2.25	5	2
1:A:4:SER:O	1:A:6:THR:N	0.52	2.42	2	3
1:A:104:THR:OG1	1:A:107:SER:OG	0.52	2.25	8	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:121:TYR:CE1	1:A:165:VAL:HG21	0.52	2.40	4	1
1:A:121:TYR:OH	1:A:123:ARG:NH2	0.52	2.41	5	1
1:A:36:HIS:CE1	1:A:46:ARG:CB	0.52	2.92	8	2
1:A:36:HIS:ND1	1:A:36:HIS:C	0.52	2.67	5	1
1:A:20:VAL:C	1:A:21:HIS:CG	0.52	2.88	3	1
1:A:155:GLY:N	1:A:184:THR:C	0.52	2.68	5	1
1:A:34:ILE:HD11	1:A:50:VAL:HG22	0.52	1.81	8	9
1:A:123:ARG:NH2	1:A:163:TYR:CD1	0.52	2.78	2	1
1:A:156:ALA:O	1:A:184:THR:HG23	0.52	2.05	8	2
1:A:18:PHE:CG	1:A:88:GLN:OE1	0.51	2.63	2	1
1:A:184:THR:OG1	1:A:184:THR:OXT	0.51	2.27	7	1
1:A:27:ALA:O	1:A:29:ILE:HG23	0.51	2.05	7	5
1:A:8:PHE:CZ	1:A:20:VAL:CG1	0.51	2.94	3	3
1:A:6:THR:C	1:A:8:PHE:N	0.51	2.64	4	2
1:A:110:ILE:HD13	1:A:149:ILE:HD11	0.51	1.82	1	2
1:A:2:LEU:C	1:A:81:SER:OG	0.51	2.53	2	1
1:A:34:ILE:HG23	1:A:72:ILE:HD13	0.51	1.81	3	1
1:A:111:SER:HA	1:A:146:THR:HG22	0.51	1.81	3	1
1:A:72:ILE:N	1:A:84:LEU:O	0.51	2.35	5	1
1:A:161:THR:HG23	1:A:178:VAL:C	0.51	2.31	9	1
1:A:73:ILE:N	1:A:73:ILE:CD1	0.51	2.73	10	1
1:A:140:VAL:C	1:A:142:GLY:H	0.51	2.13	8	2
1:A:119:VAL:HG11	1:A:122:TYR:CE2	0.51	2.40	3	3
1:A:124:ILE:HD11	1:A:140:VAL:HG21	0.51	1.82	4	1
1:A:152:ILE:CG1	1:A:158:TYR:CE2	0.51	2.94	9	8
1:A:18:PHE:C	1:A:18:PHE:CD1	0.51	2.88	9	1
1:A:88:GLN:OE1	1:A:89:ALA:C	0.50	2.54	5	1
1:A:74:ALA:HB3	1:A:81:SER:CB	0.50	2.37	5	7
1:A:98:LEU:HD22	1:A:180:ILE:HD13	0.50	1.84	2	2
1:A:10:SER:OG	1:A:88:GLN:CD	0.50	2.55	1	1
1:A:73:ILE:HG22	1:A:74:ALA:N	0.50	2.21	3	2
1:A:38:ALA:HB2	1:A:68:TYR:CD1	0.50	2.41	3	1
1:A:5:PRO:O	1:A:84:LEU:CD2	0.50	2.58	9	2
1:A:127:GLY:N	1:A:159:THR:O	0.50	2.45	10	6
1:A:73:ILE:CG2	1:A:74:ALA:N	0.50	2.75	3	2
1:A:4:SER:OG	1:A:82:PRO:O	0.50	2.28	4	1
1:A:156:ALA:N	1:A:184:THR:OG1	0.50	2.34	6	1
1:A:94:ILE:O	1:A:96:ARG:N	0.50	2.45	10	1
1:A:28:PRO:O	1:A:76:ASN:OD1	0.49	2.30	10	1
1:A:74:ALA:CB	1:A:81:SER:OG	0.49	2.59	1	1
1:A:18:PHE:CE2	1:A:88:GLN:CD	0.49	2.91	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:150:ASN:O	1:A:151:ASN:CB	0.49	2.60	1	1
1:A:21:HIS:CD2	1:A:21:HIS:N	0.49	2.80	3	1
1:A:127:GLY:HA3	1:A:159:THR:O	0.49	2.08	5	10
1:A:10:SER:CB	1:A:88:GLN:NE2	0.49	2.75	2	1
1:A:47:GLN:O	1:A:48:ASP:OD1	0.49	2.31	6	1
1:A:14:THR:OG1	1:A:17:SER:C	0.48	2.56	9	2
1:A:123:ARG:NE	1:A:137:GLU:OE1	0.48	2.46	2	1
1:A:108:LEU:HD11	1:A:152:ILE:CD1	0.48	2.38	3	2
1:A:5:PRO:O	1:A:6:THR:CG2	0.48	2.61	4	1
1:A:112:TRP:CZ2	1:A:145:SER:C	0.48	2.91	10	1
1:A:88:GLN:HG2	1:A:89:ALA:N	0.48	2.23	2	1
1:A:59:LEU:CB	1:A:62:LEU:HD11	0.48	2.38	7	3
1:A:96:ARG:O	1:A:97:ASP:CB	0.48	2.61	3	3
1:A:123:ARG:NH2	1:A:125:THR:CG2	0.48	2.76	3	1
1:A:14:THR:HG1	1:A:17:SER:C	0.48	2.11	8	2
1:A:175:SER:O	1:A:176:LYS:C	0.48	2.56	3	2
1:A:55:ASN:OD1	1:A:55:ASN:C	0.48	2.57	9	3
1:A:120:ARG:HD3	1:A:165:VAL:HG12	0.48	1.85	7	1
1:A:22:TRP:CZ2	1:A:50:VAL:HG21	0.48	2.44	5	2
1:A:126:TYR:CZ	1:A:149:ILE:HG22	0.48	2.42	7	6
1:A:95:PRO:HG2	1:A:162:LEU:HD21	0.48	1.85	10	2
1:A:48:ASP:C	1:A:49:ARG:CD	0.48	2.87	7	4
1:A:127:GLY:HA3	1:A:159:THR:H	0.48	1.69	5	1
1:A:29:ILE:HD13	1:A:32:TYR:CE1	0.47	2.42	5	3
1:A:110:ILE:CD1	1:A:124:ILE:HD13	0.47	2.39	7	2
1:A:184:THR:OG1	1:A:184:THR:O	0.47	2.32	9	1
1:A:102:ALA:HB3	1:A:109:LEU:CB	0.47	2.38	1	2
1:A:5:PRO:CD	1:A:74:ALA:HB2	0.47	2.39	8	2
1:A:126:TYR:CZ	1:A:150:ASN:O	0.47	2.67	2	6
1:A:36:HIS:CE1	1:A:46:ARG:HB2	0.47	2.44	8	2
1:A:110:ILE:CG1	1:A:147:ALA:O	0.47	2.63	8	7
1:A:18:PHE:CD1	1:A:88:GLN:CD	0.47	2.92	7	3
1:A:34:ILE:O	1:A:48:ASP:N	0.47	2.46	4	6
1:A:4:SER:OG	1:A:82:PRO:CD	0.47	2.62	4	1
1:A:121:TYR:CZ	1:A:165:VAL:HG21	0.47	2.44	4	1
1:A:103:SER:CB	1:A:182:TYR:OH	0.47	2.63	5	1
1:A:28:PRO:O	1:A:76:ASN:CG	0.47	2.58	10	1
1:A:95:PRO:O	1:A:96:ARG:C	0.47	2.56	10	1
1:A:120:ARG:CG	1:A:166:THR:O	0.47	2.63	1	1
1:A:96:ARG:HG2	1:A:97:ASP:N	0.47	2.25	10	6
1:A:107:SER:C	1:A:108:LEU:CD2	0.47	2.85	6	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:152:ILE:HG13	1:A:158:TYR:CE2	0.47	2.45	4	5
1:A:66:THR:CG2	1:A:67:GLU:N	0.47	2.75	10	6
1:A:98:LEU:HD13	1:A:162:LEU:HD23	0.47	1.85	4	2
1:A:48:ASP:OD2	1:A:59:LEU:CD2	0.47	2.63	6	2
1:A:34:ILE:N	1:A:34:ILE:HD13	0.46	2.25	7	2
1:A:15:ALA:H	1:A:116:ALA:CB	0.46	2.23	3	1
1:A:95:PRO:CG	1:A:162:LEU:HD21	0.46	2.40	10	1
1:A:33:ILE:HG23	1:A:49:ARG:NH1	0.46	2.25	3	1
1:A:95:PRO:O	1:A:96:ARG:O	0.46	2.33	10	1
1:A:29:ILE:HD11	1:A:32:TYR:OH	0.46	2.10	4	2
1:A:10:SER:HB2	1:A:88:GLN:NE2	0.46	2.26	2	1
1:A:126:TYR:HH	1:A:150:ASN:N	0.46	2.08	10	2
1:A:36:HIS:CD2	1:A:59:LEU:HD22	0.46	2.46	7	3
1:A:141:PRO:C	1:A:143:SER:H	0.46	2.18	7	6
1:A:161:THR:HG22	1:A:163:TYR:CE1	0.46	2.46	5	1
1:A:124:ILE:HD12	1:A:138:PHE:CE1	0.46	2.46	4	2
1:A:35:ARG:NH1	1:A:47:GLN:HE21	0.46	2.07	5	1
1:A:90:THR:O	1:A:91:VAL:C	0.46	2.58	5	4
1:A:94:ILE:HD13	1:A:176:LYS:O	0.46	2.11	4	1
1:A:18:PHE:CE2	1:A:88:GLN:CG	0.46	2.99	4	1
1:A:14:THR:OG1	1:A:17:SER:OG	0.46	2.31	5	2
1:A:104:THR:HG1	1:A:107:SER:N	0.46	2.03	6	1
1:A:49:ARG:CD	1:A:49:ARG:N	0.45	2.77	2	3
1:A:124:ILE:HB	1:A:138:PHE:CE1	0.45	2.46	9	1
1:A:124:ILE:HD12	1:A:138:PHE:CE2	0.45	2.47	9	2
1:A:153:LYS:O	1:A:184:THR:OG1	0.45	2.30	5	1
1:A:123:ARG:NE	1:A:163:TYR:HB2	0.45	2.27	7	1
1:A:108:LEU:HD22	1:A:182:TYR:OH	0.45	2.11	8	1
1:A:48:ASP:OD2	1:A:59:LEU:HD21	0.45	2.12	6	1
1:A:36:HIS:NE2	1:A:46:ARG:HB2	0.45	2.26	8	1
1:A:14:THR:CB	1:A:17:SER:OG	0.45	2.65	9	1
1:A:49:ARG:N	1:A:49:ARG:HD3	0.45	2.26	5	3
1:A:29:ILE:HD12	1:A:32:TYR:CE1	0.45	2.45	10	4
1:A:148:THR:CG2	1:A:149:ILE:H	0.45	2.24	8	1
1:A:110:ILE:CD1	1:A:149:ILE:HD11	0.45	2.41	1	1
1:A:81:SER:CB	1:A:82:PRO:CD	0.45	2.94	2	1
1:A:67:GLU:O	1:A:67:GLU:CG	0.45	2.65	1	1
1:A:18:PHE:CD2	1:A:88:GLN:OE1	0.45	2.69	7	2
1:A:112:TRP:CE3	1:A:145:SER:O	0.45	2.70	1	1
1:A:120:ARG:CG	1:A:165:VAL:O	0.45	2.65	7	1
1:A:101:ILE:CG2	1:A:111:SER:OG	0.45	2.65	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:119:VAL:CB	1:A:122:TYR:CZ	0.45	3.00	9	1
1:A:36:HIS:NE2	1:A:68:TYR:CD1	0.44	2.85	5	1
1:A:98:LEU:CD1	1:A:162:LEU:HD23	0.44	2.42	2	1
1:A:123:ARG:N	1:A:163:TYR:O	0.44	2.50	3	1
1:A:126:TYR:HB2	1:A:136:GLN:H	0.44	1.73	5	6
1:A:36:HIS:NE2	1:A:46:ARG:HB3	0.44	2.26	8	1
1:A:35:ARG:NH2	1:A:49:ARG:HE	0.44	2.10	5	1
1:A:65:GLY:CA	1:A:91:VAL:O	0.44	2.66	4	4
1:A:158:TYR:N	1:A:182:TYR:O	0.44	2.48	6	5
1:A:182:TYR:C	1:A:182:TYR:CD1	0.44	2.95	1	1
1:A:125:THR:OG1	1:A:161:THR:O	0.44	2.36	2	1
1:A:163:TYR:CD2	1:A:177:PRO:HB3	0.44	2.48	5	4
1:A:137:GLU:H	1:A:137:GLU:CD	0.44	2.19	10	1
1:A:161:THR:OG1	1:A:179:SER:CB	0.44	2.65	9	2
1:A:153:LYS:N	1:A:158:TYR:OH	0.44	2.41	2	1
1:A:103:SER:OG	1:A:182:TYR:OH	0.44	2.28	1	1
1:A:15:ALA:CB	1:A:117:VAL:CG1	0.44	2.96	3	1
1:A:124:ILE:HB	1:A:138:PHE:CE2	0.44	2.48	8	2
1:A:121:TYR:CD1	1:A:121:TYR:C	0.44	2.95	7	1
1:A:152:ILE:HG12	1:A:158:TYR:CE2	0.44	2.48	8	1
1:A:23:VAL:CG1	1:A:24:ALA:N	0.44	2.81	10	2
1:A:34:ILE:HG21	1:A:57:ILE:HG21	0.44	1.90	4	2
1:A:182:TYR:CE1	1:A:184:THR:HG22	0.44	2.48	4	1
1:A:10:SER:HG	1:A:88:GLN:CD	0.44	2.19	9	2
1:A:123:ARG:NE	1:A:137:GLU:CD	0.43	2.75	3	1
1:A:122:TYR:CD1	1:A:122:TYR:N	0.43	2.85	4	1
1:A:34:ILE:CB	1:A:48:ASP:O	0.43	2.67	4	3
1:A:2:LEU:O	1:A:82:PRO:CD	0.43	2.66	5	1
1:A:8:PHE:CZ	1:A:20:VAL:HG12	0.43	2.48	9	1
1:A:34:ILE:HG13	1:A:50:VAL:HG13	0.43	1.90	8	1
1:A:72:ILE:O	1:A:73:ILE:HD12	0.43	2.13	9	1
1:A:25:PRO:HG2	1:A:29:ILE:HG21	0.43	1.89	2	2
1:A:152:ILE:HG12	1:A:158:TYR:CZ	0.43	2.49	6	4
1:A:122:TYR:O	1:A:140:VAL:N	0.43	2.52	7	1
1:A:33:ILE:N	1:A:33:ILE:CD1	0.43	2.82	3	1
1:A:127:GLY:CA	1:A:159:THR:O	0.43	2.67	5	2
1:A:94:ILE:HD11	1:A:176:LYS:CB	0.43	2.44	8	1
1:A:123:ARG:O	1:A:163:TYR:N	0.43	2.51	9	1
1:A:9:ASP:OD1	1:A:9:ASP:C	0.43	2.60	8	3
1:A:33:ILE:HG23	1:A:49:ARG:CZ	0.43	2.44	3	1
1:A:107:SER:CB	1:A:150:ASN:HD22	0.43	2.27	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:140:VAL:C	1:A:142:GLY:N	0.43	2.76	8	2
1:A:124:ILE:HB	1:A:138:PHE:CZ	0.42	2.49	10	6
1:A:2:LEU:HD11	1:A:79:GLU:OE1	0.42	2.14	10	1
1:A:18:PHE:CD2	1:A:88:GLN:HG3	0.42	2.48	4	1
1:A:101:ILE:CG1	1:A:109:LEU:HD23	0.42	2.44	10	2
1:A:22:TRP:CD1	1:A:22:TRP:C	0.42	2.97	9	1
1:A:163:TYR:CE2	1:A:177:PRO:HG3	0.42	2.50	10	4
1:A:13:ILE:HD11	1:A:88:GLN:HE21	0.42	1.73	9	1
1:A:125:THR:CG2	1:A:163:TYR:CE1	0.42	3.03	9	1
1:A:5:PRO:HD3	1:A:74:ALA:HB2	0.42	1.91	4	2
1:A:18:PHE:HE1	1:A:20:VAL:HG22	0.42	1.68	2	1
1:A:88:GLN:O	1:A:88:GLN:NE2	0.42	2.53	5	1
1:A:36:HIS:CD2	1:A:46:ARG:HB2	0.42	2.50	8	2
1:A:126:TYR:CE2	1:A:149:ILE:HG22	0.42	2.50	4	2
1:A:176:LYS:N	1:A:176:LYS:HD3	0.42	2.30	4	1
1:A:78:ARG:CD	1:A:78:ARG:N	0.42	2.83	6	1
1:A:34:ILE:HD11	1:A:50:VAL:CG2	0.42	2.44	10	4
1:A:13:ILE:HD11	1:A:88:GLN:NE2	0.42	2.30	1	1
1:A:18:PHE:CD2	1:A:88:GLN:CG	0.42	3.03	4	1
1:A:101:ILE:CD1	1:A:109:LEU:CD2	0.42	2.95	10	2
1:A:157:ASP:OD1	1:A:157:ASP:C	0.42	2.62	10	1
1:A:123:ARG:NH2	1:A:125:THR:HG22	0.41	2.30	3	1
1:A:18:PHE:CD1	1:A:18:PHE:C	0.41	2.98	5	3
1:A:121:TYR:CE1	1:A:165:VAL:HB	0.41	2.50	3	2
1:A:97:ASP:OD1	1:A:99:GLU:OE2	0.41	2.38	2	1
1:A:18:PHE:CE1	1:A:88:GLN:HG2	0.41	2.50	3	1
1:A:36:HIS:CG	1:A:59:LEU:HD22	0.41	2.50	9	1
1:A:47:GLN:NE2	1:A:49:ARG:HH12	0.41	2.12	2	1
1:A:107:SER:HB2	1:A:149:ILE:O	0.41	2.16	6	2
1:A:10:SER:HB3	1:A:88:GLN:HE21	0.41	1.72	2	1
1:A:6:THR:O	1:A:7:GLY:C	0.41	2.62	4	1
1:A:98:LEU:HD11	1:A:162:LEU:HD23	0.41	1.93	2	1
1:A:13:ILE:HD13	1:A:88:GLN:NE2	0.41	2.30	4	1
1:A:108:LEU:CD1	1:A:160:ILE:HD11	0.41	2.44	7	1
1:A:112:TRP:CZ3	1:A:146:THR:HA	0.41	2.51	7	1
1:A:97:ASP:O	1:A:111:SER:O	0.41	2.39	10	1
1:A:98:LEU:HD13	1:A:162:LEU:CD2	0.40	2.46	1	1
1:A:112:TRP:CE2	1:A:145:SER:C	0.40	2.98	10	1
1:A:67:GLU:N	1:A:67:GLU:CD	0.40	2.79	3	1
1:A:88:GLN:C	1:A:88:GLN:NE2	0.40	2.79	5	1
1:A:18:PHE:CD1	1:A:88:GLN:HG3	0.40	2.51	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:21:HIS:ND1	1:A:56:SER:HB3	0.40	2.31	6	1
1:A:81:SER:CB	1:A:82:PRO:HD2	0.40	2.47	9	1
1:A:144:LYS:HG2	1:A:145:SER:N	0.40	2.30	10	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	160/184 (87%)	151±2 (94±1%)	6±2 (4±1%)	3±2 (2±1%)	8	48
All	All	1600/1840 (87%)	1509 (94%)	57 (4%)	34 (2%)	8	48

All 8 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	115	PRO	7
1	A	91	VAL	6
1	A	95	PRO	5
1	A	141	PRO	5
1	A	142	GLY	5
1	A	5	PRO	4
1	A	25	PRO	1
1	A	96	ARG	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	142/158 (90%)	123±2 (87±1%)	19±2 (13±1%)	6	46

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	1420/1580 (90%)	1234 (87%)	186 (13%)	6 46

All 44 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	13	ILE	10
1	A	14	THR	10
1	A	20	VAL	10
1	A	23	VAL	10
1	A	85	ILE	10
1	A	90	THR	10
1	A	104	THR	10
1	A	108	LEU	10
1	A	81	SER	9
1	A	66	THR	8
1	A	135	VAL	8
1	A	178	VAL	8
1	A	49	ARG	6
1	A	36	HIS	5
1	A	101	ILE	5
1	A	176	LYS	5
1	A	91	VAL	5
1	A	6	THR	4
1	A	162	LEU	4
1	A	163	TYR	3
1	A	94	ILE	3
1	A	110	ILE	3
1	A	159	THR	3
1	A	10	SER	2
1	A	68	TYR	2
1	A	120	ARG	2
1	A	152	ILE	2
1	A	103	SER	2
1	A	34	ILE	2
1	A	87	GLN	1
1	A	113	GLU	1
1	A	54	ARG	1
1	A	88	GLN	1
1	A	175	SER	1
1	A	73	ILE	1
1	A	184	THR	1

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Mol	Chain	Res	Type	Models (Total)
1	A	78	ARG	1
1	A	125	THR	1
1	A	63	ASN	1
1	A	123	ARG	1
1	A	158	TYR	1
1	A	2	LEU	1
1	A	33	ILE	1
1	A	47	GLN	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](#)

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

No chemical shift data were provided