



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 08:47 AM UTC

PDB ID : 3KRN / pdb_00003krn
Title : Crystal Structure of C. elegans cell-death-related nuclease 5(CRN-5)
Authors : Yang, C.-C.; Wang, Y.-T.; Hsiao, Y.-Y.; Doudeva, L.G.; Chow, S.Y.; Yuan, H.S.
Deposited on : 2009-11-19
Resolution : 3.92 Å(reported)

This is a Full wwPDB X-ray 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/XrayValidationReportHelp>

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
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

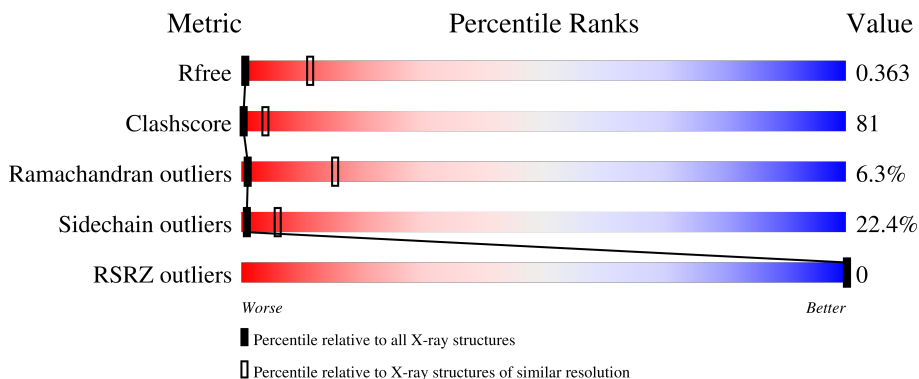
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.92 Å.

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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1033 (4.10-3.74)
Clashscore	190562	1070 (4.10-3.74)
Ramachandran outliers	187476	1017 (4.10-3.74)
Sidechain outliers	187428	1010 (4.10-3.74)
RSRZ outliers	180081	1033 (4.10-3.74)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. 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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	222	
1	B	222	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2575 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Protein C14A4.5, confirmed by transcript evidence.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	183	Total	C	N	O	S	0	0	0
			1374	864	235	261	14			
1	B	160	Total	C	N	O	S	0	0	0
			1201	758	205	225	13			

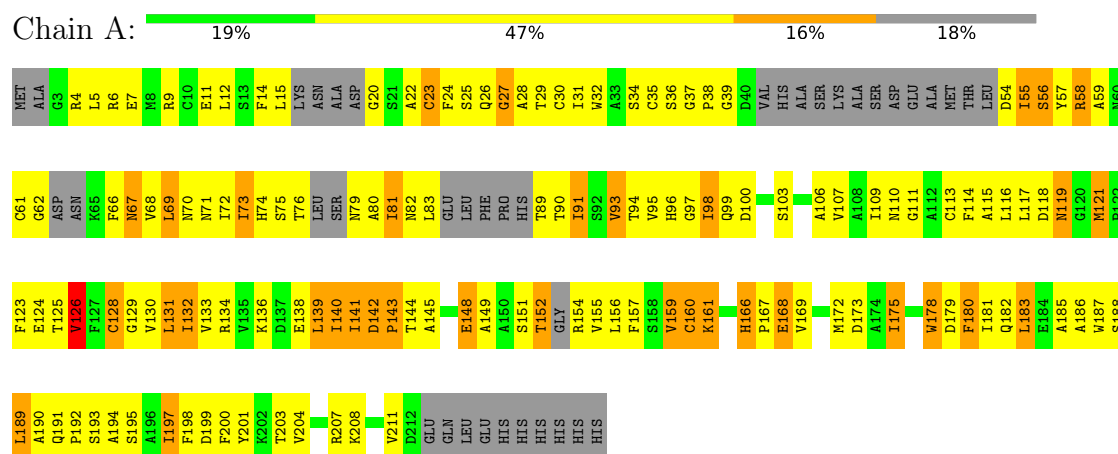
There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	215	LEU	-	expression tag	UNP Q17952
A	216	GLU	-	expression tag	UNP Q17952
A	217	HIS	-	expression tag	UNP Q17952
A	218	HIS	-	expression tag	UNP Q17952
A	219	HIS	-	expression tag	UNP Q17952
A	220	HIS	-	expression tag	UNP Q17952
A	221	HIS	-	expression tag	UNP Q17952
A	222	HIS	-	expression tag	UNP Q17952
B	215	LEU	-	expression tag	UNP Q17952
B	216	GLU	-	expression tag	UNP Q17952
B	217	HIS	-	expression tag	UNP Q17952
B	218	HIS	-	expression tag	UNP Q17952
B	219	HIS	-	expression tag	UNP Q17952
B	220	HIS	-	expression tag	UNP Q17952
B	221	HIS	-	expression tag	UNP Q17952
B	222	HIS	-	expression tag	UNP Q17952

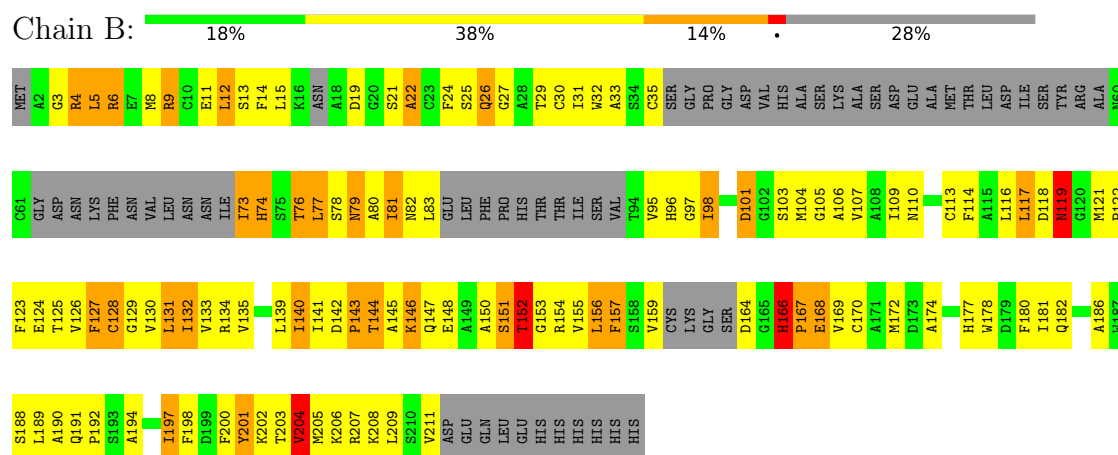
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-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. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Protein C14A4.5, confirmed by transcript evidence



- Molecule 1: Protein C14A4.5, confirmed by transcript evidence



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	61.95Å 44.84Å 65.51Å 90.00° 100.65° 90.00°	Depositor
Resolution (Å)	26.50 – 3.92 26.50 – 3.92	Depositor EDS
% Data completeness (in resolution range)	97.2 (26.50-3.92) 85.2 (26.50-3.92)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	11.39 (at 3.87Å)	Xtriage
Refinement program	PHENIX (phenix.refine)	Depositor
R, R_{free}	0.306 , 0.356 0.303 , 0.363	Depositor DCC
R_{free} test set	228 reflections (6.86%)	wwPDB-VP
Wilson B-factor (Å ²)	66.2	Xtriage
Anisotropy	0.360	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.46 , 901.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	2575	wwPDB-VP
Average B, all atoms (Å ²)	87.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 13.78% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 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 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	0.39	0/1394	0.80	2/1878 (0.1%)
1	B	0.35	0/1219	0.85	3/1642 (0.2%)
All	All	0.37	0/2613	0.82	5/3520 (0.1%)

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	142	ASP	CA-C-N	5.84	127.14	119.84
1	A	142	ASP	C-N-CA	5.84	127.14	119.84
1	B	168	GLU	N-CA-C	5.70	118.68	109.79
1	B	145	ALA	N-CA-C	-5.63	106.25	113.01
1	B	204	VAL	CB-CA-C	-5.42	104.77	111.70

There are no chirality outliers.

There are no planarity outliers.

5.2 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 the 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 within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1374	0	1341	217	0
1	B	1201	0	1176	200	0
All	All	2575	0	2517	410	0

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 81.

All (410) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:83:LEU:HD11	1:A:121:MET:CG	1.34	1.52
1:A:83:LEU:CD1	1:A:121:MET:HG3	1.73	1.18
1:A:83:LEU:CD1	1:A:121:MET:CG	2.22	1.16
1:A:83:LEU:HD12	1:A:121:MET:HE2	1.27	1.16
1:A:128:CYS:HB2	1:A:129:GLY:CA	1.78	1.13
1:A:128:CYS:CB	1:A:129:GLY:HA2	1.78	1.12
1:A:83:LEU:HD11	1:A:121:MET:HG2	1.15	1.10
1:B:19:ASP:HB3	1:B:119:ASN:HD21	1.09	1.08
1:A:83:LEU:HD11	1:A:121:MET:HG3	1.24	1.06
1:A:83:LEU:CD1	1:A:121:MET:CE	2.36	1.03
1:A:189:LEU:H	1:A:189:LEU:HD22	1.20	1.00
1:A:83:LEU:HD12	1:A:121:MET:CE	1.90	1.00
1:B:207:ARG:O	1:B:211:VAL:HG23	1.65	0.96
1:A:82:ASN:N	1:A:83:LEU:HA	1.81	0.95
1:A:82:ASN:ND2	1:A:89:THR:HB	1.80	0.95
1:A:81:ILE:HG12	1:A:81:ILE:O	1.63	0.94
1:B:77:LEU:HD13	1:B:78:SER:N	1.85	0.92
1:A:82:ASN:HD22	1:A:89:THR:HB	1.31	0.91
1:A:83:LEU:CD1	1:A:121:MET:HE2	1.98	0.89
1:B:205:MET:SD	1:B:209:LEU:HD11	2.12	0.89
1:A:82:ASN:HD22	1:A:89:THR:CB	1.87	0.88
1:A:30:CYS:HB3	1:A:99:GLN:HB3	1.57	0.87
1:B:205:MET:SD	1:B:209:LEU:CD1	2.63	0.87
1:A:183:LEU:HG	1:B:180:PHE:HE2	1.40	0.85
1:B:131:LEU:HB2	1:B:156:LEU:HD12	1.60	0.84
1:B:128:CYS:CB	1:B:129:GLY:HA2	2.09	0.83
1:B:104:MET:HG2	1:B:154:ARG:HH22	1.42	0.83
1:B:19:ASP:HB3	1:B:119:ASN:ND2	1.93	0.83
1:A:183:LEU:HG	1:B:180:PHE:CE2	2.13	0.82
1:A:83:LEU:HD13	1:A:121:MET:HG3	1.62	0.82
1:A:178:TRP:HB3	1:A:182:GLN:HB2	1.60	0.82
1:A:144:THR:HG22	1:A:145:ALA:H	1.45	0.80
1:B:77:LEU:HD13	1:B:77:LEU:C	2.08	0.78
1:A:132:ILE:HG13	1:A:139:LEU:HD11	1.66	0.77
1:A:81:ILE:O	1:A:81:ILE:CG1	2.30	0.77
1:A:159:VAL:HB	1:A:169:VAL:HA	1.66	0.77
1:B:166:HIS:HB2	1:B:167:PRO:HD3	1.66	0.77
1:A:189:LEU:HD22	1:A:189:LEU:N	1.98	0.76
1:A:191:GLN:HB3	1:A:192:PRO:HD3	1.68	0.76
1:B:9:ARG:HH11	1:B:9:ARG:CG	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:79:ASN:HB3	1:B:125:THR:HG22	1.67	0.75
1:B:132:ILE:HG23	1:B:155:VAL:HG13	1.67	0.75
1:B:6:ARG:HB2	1:B:142:ASP:CG	2.12	0.75
1:B:154:ARG:HD3	1:B:156:LEU:HD11	1.68	0.75
1:A:168:GLU:OE2	1:B:177:HIS:HB3	1.87	0.75
1:A:132:ILE:HD11	1:A:139:LEU:HD21	1.70	0.74
1:B:135:VAL:HG22	1:B:150:ALA:HA	1.70	0.74
1:B:144:THR:HB	1:B:146:LYS:HG2	1.67	0.74
1:A:208:LYS:HA	1:A:211:VAL:HG22	1.67	0.74
1:A:106:ALA:H	1:A:131:LEU:HD23	1.52	0.74
1:A:83:LEU:HD11	1:A:121:MET:SD	2.28	0.73
1:A:189:LEU:O	1:A:192:PRO:HD2	1.87	0.73
1:B:4:ARG:HE	1:B:4:ARG:N	1.85	0.73
1:A:58:ARG:HA	1:A:59:ALA:HB2	1.70	0.72
1:B:159:VAL:HG12	1:B:169:VAL:HG13	1.71	0.72
1:A:80:ALA:HB1	1:A:83:LEU:C	2.15	0.72
1:B:29:THR:HG22	1:B:101:ASP:H	1.53	0.72
1:B:5:LEU:HD13	1:B:5:LEU:H	1.53	0.72
1:A:37:GLY:O	1:A:91:ILE:HD11	1.90	0.71
1:B:103:SER:HA	1:B:143:PRO:HG2	1.73	0.71
1:A:70:ASN:O	1:A:73:ILE:HG23	1.91	0.70
1:A:126:VAL:HG23	1:A:161:LYS:HE2	1.73	0.70
1:B:9:ARG:HH11	1:B:9:ARG:HG3	1.57	0.70
1:A:199:ASP:O	1:A:203:THR:HG23	1.91	0.70
1:B:31:ILE:HB	1:B:97:GLY:HA2	1.72	0.70
1:A:128:CYS:HB2	1:A:129:GLY:HA2	0.85	0.69
1:A:83:LEU:CD1	1:A:121:MET:HE3	2.20	0.69
1:A:23:CYS:HB2	1:A:32:TRP:HA	1.74	0.68
1:B:4:ARG:HE	1:B:4:ARG:H	1.40	0.68
1:A:83:LEU:CD1	1:A:121:MET:HG2	2.08	0.68
1:B:147:GLN:O	1:B:150:ALA:HB2	1.93	0.68
1:B:166:HIS:CB	1:B:167:PRO:HD3	2.23	0.68
1:B:204:VAL:HA	1:B:207:ARG:HH21	1.58	0.68
1:B:79:ASN:C	1:B:79:ASN:HD22	2.02	0.68
1:A:188:SER:O	1:A:192:PRO:HD3	1.94	0.68
1:B:207:ARG:O	1:B:211:VAL:CG2	2.42	0.67
1:B:140:ILE:HD11	1:B:142:ASP:O	1.93	0.67
1:B:24:PHE:CZ	1:B:26:GLN:HG2	2.29	0.67
1:A:69:LEU:HD13	1:A:69:LEU:O	1.95	0.67
1:A:80:ALA:CB	1:A:83:LEU:C	2.67	0.67
1:A:193:SER:O	1:A:197:ILE:HG22	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:172:MET:HG2	1:B:174:ALA:HB3	1.78	0.66
1:B:188:SER:O	1:B:189:LEU:HG	1.96	0.66
1:A:31:ILE:HD11	1:A:111:GLY:HA3	1.78	0.66
1:B:157:PHE:HZ	1:B:186:ALA:HB1	1.61	0.66
1:A:14:PHE:CZ	1:A:23:CYS:HB3	2.31	0.65
1:A:140:ILE:HD11	1:A:143:PRO:HA	1.77	0.65
1:A:79:ASN:HA	1:A:80:ALA:HB2	1.77	0.65
1:B:31:ILE:HA	1:B:98:ILE:HG23	1.78	0.65
1:B:33:ALA:HB2	1:B:95:VAL:HG13	1.77	0.65
1:B:156:LEU:H	1:B:156:LEU:HD22	1.61	0.65
1:B:178:TRP:HE3	1:B:182:GLN:HG3	1.62	0.65
1:B:198:PHE:O	1:B:201:TYR:HB2	1.97	0.65
1:B:134:ARG:HA	1:B:139:LEU:HD23	1.79	0.64
1:A:96:HIS:NE2	1:A:98:ILE:HG23	2.11	0.64
1:A:4:ARG:HA	1:A:141:ILE:HG13	1.79	0.64
1:A:14:PHE:CE2	1:A:23:CYS:HB3	2.33	0.64
1:A:82:ASN:N	1:A:83:LEU:CA	2.59	0.64
1:B:81:ILE:HG22	1:B:82:ASN:HB3	1.80	0.64
1:A:103:SER:HA	1:A:131:LEU:HD21	1.80	0.63
1:A:9:ARG:HB3	1:A:25:SER:HB3	1.81	0.63
1:A:189:LEU:H	1:A:189:LEU:CD2	2.00	0.63
1:A:89:THR:O	1:A:91:ILE:HD13	1.98	0.63
1:A:161:LYS:CD	1:A:161:LYS:H	2.11	0.63
1:B:128:CYS:SG	1:B:194:ALA:HB1	2.39	0.63
1:A:179:ASP:CG	1:A:180:PHE:H	2.07	0.62
1:A:189:LEU:C	1:A:191:GLN:H	2.07	0.62
1:B:166:HIS:HB2	1:B:167:PRO:CD	2.30	0.62
1:A:24:PHE:HB2	1:A:111:GLY:HA3	1.80	0.62
1:A:178:TRP:N	1:A:178:TRP:CD1	2.67	0.61
1:A:185:ALA:O	1:A:189:LEU:CD2	2.48	0.61
1:B:14:PHE:H	1:B:15:LEU:HD12	1.66	0.61
1:B:114:PHE:CZ	1:B:204:VAL:HG21	2.36	0.61
1:B:191:GLN:HG3	1:B:192:PRO:HD3	1.83	0.61
1:A:6:ARG:HD2	1:A:26:GLN:O	2.00	0.61
1:B:6:ARG:HG2	1:B:27:GLY:HA3	1.81	0.61
1:A:55:ILE:O	1:A:55:ILE:HG12	1.99	0.61
1:B:189:LEU:C	1:B:192:PRO:HD2	2.26	0.61
1:A:81:ILE:C	1:A:83:LEU:HA	2.25	0.60
1:B:21:SER:O	1:B:22:ALA:HB2	2.01	0.60
1:B:123:PHE:O	1:B:126:VAL:HG13	2.01	0.60
1:A:11:GLU:O	1:A:12:LEU:HD23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:188:SER:OG	1:A:189:LEU:HD22	2.02	0.60
1:A:131:LEU:HD12	1:A:131:LEU:O	2.02	0.60
1:B:155:VAL:C	1:B:156:LEU:HD13	2.27	0.59
1:A:189:LEU:O	1:A:191:GLN:N	2.35	0.59
1:A:61:CYS:SG	1:A:100:ASP:HB2	2.42	0.59
1:B:77:LEU:C	1:B:77:LEU:CD1	2.76	0.59
1:A:14:PHE:O	1:A:15:LEU:C	2.45	0.58
1:A:180:PHE:HE1	1:B:180:PHE:O	1.85	0.58
1:B:103:SER:HB3	1:B:106:ALA:HB3	1.86	0.58
1:A:57:TYR:HB3	1:A:58:ARG:CZ	2.34	0.58
1:B:117:LEU:HD11	1:B:205:MET:HG2	1.84	0.58
1:B:178:TRP:CE3	1:B:182:GLN:HG3	2.38	0.58
1:A:126:VAL:HG23	1:A:161:LYS:CE	2.33	0.58
1:A:148:GLU:CD	1:A:154:ARG:HH12	2.12	0.58
1:B:123:PHE:CZ	1:B:126:VAL:HG11	2.39	0.58
1:B:128:CYS:HB3	1:B:129:GLY:HA2	1.84	0.58
1:B:164:ASP:HA	1:B:166:HIS:CE1	2.39	0.58
1:B:157:PHE:CZ	1:B:186:ALA:HB1	2.39	0.58
1:B:73:ILE:HD12	1:B:74:HIS:ND1	2.19	0.57
1:B:6:ARG:HB2	1:B:142:ASP:OD1	2.03	0.57
1:B:128:CYS:HB2	1:B:129:GLY:HA2	1.85	0.57
1:B:103:SER:CB	1:B:106:ALA:HB3	2.35	0.57
1:A:144:THR:HG22	1:A:145:ALA:N	2.16	0.57
1:B:157:PHE:HB2	1:B:159:VAL:HG13	1.86	0.57
1:A:125:THR:HA	1:A:160:CYS:SG	2.45	0.57
1:B:24:PHE:CE2	1:B:110:ASN:HB2	2.40	0.57
1:B:73:ILE:HD12	1:B:74:HIS:H	1.69	0.57
1:A:25:SER:HA	1:A:30:CYS:HA	1.87	0.56
1:A:178:TRP:HE3	1:A:182:GLN:O	1.88	0.56
1:B:12:LEU:CD1	1:B:13:SER:H	2.18	0.56
1:A:123:PHE:C	1:A:123:PHE:CD2	2.83	0.56
1:B:156:LEU:HD22	1:B:156:LEU:N	2.20	0.56
1:A:195:SER:HA	1:A:198:PHE:CD1	2.41	0.56
1:B:12:LEU:CB	1:B:208:LYS:HE2	2.36	0.56
1:A:181:ILE:HG13	1:A:182:GLN:N	2.20	0.56
1:B:132:ILE:HG13	1:B:139:LEU:HD11	1.88	0.56
1:A:197:ILE:CG1	1:A:201:TYR:HE1	2.19	0.56
1:A:57:TYR:HB2	1:A:69:LEU:HD12	1.88	0.55
1:A:166:HIS:ND1	1:A:166:HIS:N	2.54	0.55
1:A:204:VAL:O	1:A:207:ARG:HB2	2.06	0.55
1:B:191:GLN:O	1:B:194:ALA:HB3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:114:PHE:HE2	1:B:204:VAL:HG11	1.72	0.55
1:A:139:LEU:HD13	1:A:140:ILE:N	2.22	0.55
1:B:104:MET:HG2	1:B:154:ARG:NH2	2.16	0.55
1:B:157:PHE:HZ	1:B:186:ALA:CB	2.20	0.55
1:A:139:LEU:HD22	1:A:140:ILE:H	1.71	0.54
1:B:124:GLU:HG3	1:B:125:THR:HG23	1.87	0.54
1:A:24:PHE:HB2	1:A:111:GLY:CA	2.37	0.54
1:A:29:THR:HB	1:A:107:VAL:HG21	1.88	0.54
1:B:202:LYS:O	1:B:206:LYS:HB2	2.07	0.54
1:B:12:LEU:HB2	1:B:208:LYS:HE2	1.89	0.54
1:A:109:ILE:HG23	1:A:129:GLY:H	1.73	0.54
1:B:29:THR:OG1	1:B:107:VAL:HG21	2.07	0.54
1:A:132:ILE:CG1	1:A:139:LEU:HD11	2.37	0.54
1:A:187:TRP:HB2	1:B:180:PHE:CZ	2.42	0.54
1:A:96:HIS:CE1	1:A:98:ILE:HG23	2.43	0.54
1:B:19:ASP:CB	1:B:119:ASN:HD21	2.00	0.54
1:B:148:GLU:C	1:B:150:ALA:H	2.14	0.54
1:B:150:ALA:O	1:B:152:THR:N	2.41	0.54
1:A:23:CYS:SG	1:A:31:ILE:O	2.66	0.54
1:A:74:HIS:CG	1:A:109:ILE:HD12	2.43	0.54
1:A:181:ILE:HG13	1:A:182:GLN:HG2	1.90	0.54
1:B:127:PHE:CD2	1:B:127:PHE:N	2.76	0.53
1:B:25:SER:HA	1:B:30:CYS:HA	1.90	0.53
1:B:9:ARG:HH22	1:B:11:GLU:HG2	1.73	0.53
1:B:96:HIS:CD2	1:B:98:ILE:HG22	2.44	0.53
1:A:200:PHE:O	1:A:204:VAL:HG23	2.09	0.53
1:A:180:PHE:HZ	1:B:181:ILE:HA	1.73	0.53
1:A:4:ARG:O	1:A:142:ASP:HB3	2.09	0.53
1:A:132:ILE:HB	1:A:141:ILE:HG22	1.91	0.53
1:A:96:HIS:CG	1:A:97:GLY:N	2.77	0.53
1:A:194:ALA:O	1:A:197:ILE:HG23	2.09	0.53
1:A:189:LEU:C	1:A:191:GLN:N	2.65	0.52
1:B:131:LEU:HD13	1:B:156:LEU:HD12	1.91	0.52
1:A:159:VAL:HG21	1:A:167:PRO:HB2	1.92	0.52
1:A:36:SER:O	1:A:91:ILE:HG13	2.09	0.52
1:A:68:VAL:HG22	1:A:68:VAL:O	2.08	0.52
1:A:132:ILE:HA	1:A:141:ILE:O	2.08	0.52
1:B:80:ALA:HB1	1:B:81:ILE:HA	1.92	0.52
1:B:80:ALA:HB2	1:B:83:LEU:C	2.35	0.52
1:B:200:PHE:O	1:B:201:TYR:C	2.53	0.52
1:B:73:ILE:O	1:B:76:THR:HG22	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:9:ARG:CG	1:B:9:ARG:NH1	2.66	0.51
1:B:151:SER:C	1:B:152:THR:HG22	2.35	0.51
1:A:126:VAL:HG23	1:A:161:LYS:HZ3	1.76	0.51
1:B:114:PHE:CE2	1:B:204:VAL:HG21	2.46	0.51
1:B:139:LEU:HD22	1:B:140:ILE:N	2.25	0.51
1:A:82:ASN:ND2	1:A:89:THR:CB	2.56	0.51
1:A:116:LEU:HD23	1:A:116:LEU:H	1.75	0.51
1:A:117:LEU:HD13	1:A:117:LEU:O	2.11	0.51
1:A:154:ARG:N	1:A:178:TRP:CZ2	2.79	0.51
1:B:12:LEU:HD13	1:B:13:SER:H	1.75	0.51
1:B:132:ILE:HG12	1:B:139:LEU:HD21	1.92	0.51
1:B:106:ALA:O	1:B:110:ASN:CG	2.54	0.51
1:B:128:CYS:CB	1:B:129:GLY:CA	2.86	0.51
1:A:31:ILE:HG23	1:A:107:VAL:HG12	1.92	0.51
1:B:131:LEU:C	1:B:131:LEU:HD12	2.36	0.51
1:A:67:ASN:ND2	1:A:70:ASN:H	2.09	0.50
1:B:167:PRO:HD2	1:B:168:GLU:H	1.75	0.50
1:A:20:GLY:HA2	1:A:118:ASP:CG	2.35	0.50
1:A:82:ASN:OD1	1:A:82:ASN:O	2.30	0.50
1:A:81:ILE:C	1:A:83:LEU:CA	2.84	0.50
1:B:150:ALA:C	1:B:151:SER:HG	2.20	0.50
1:B:201:TYR:O	1:B:204:VAL:HG23	2.12	0.50
1:B:157:PHE:HA	1:B:172:MET:HA	1.94	0.50
1:A:11:GLU:HB2	1:A:14:PHE:CZ	2.46	0.50
1:A:23:CYS:SG	1:A:23:CYS:O	2.70	0.50
1:A:74:HIS:CD2	1:A:75:SER:N	2.80	0.50
1:B:123:PHE:CE1	1:B:126:VAL:HG11	2.47	0.50
1:B:182:GLN:HA	1:B:182:GLN:HE21	1.75	0.50
1:A:22:ALA:HB3	1:A:115:ALA:HA	1.93	0.50
1:A:188:SER:O	1:A:189:LEU:C	2.54	0.50
1:A:113:CYS:SG	1:A:126:VAL:HG12	2.52	0.49
1:B:4:ARG:HD2	1:B:4:ARG:C	2.36	0.49
1:B:32:TRP:CE2	1:B:96:HIS:CD2	2.99	0.49
1:B:77:LEU:HD13	1:B:78:SER:CA	2.42	0.49
1:A:24:PHE:HE2	1:A:26:GLN:CG	2.25	0.49
1:A:143:PRO:HB2	1:A:148:GLU:HB2	1.94	0.49
1:A:161:LYS:HZ2	1:A:161:LYS:N	2.10	0.49
1:A:79:ASN:N	1:A:80:ALA:HA	2.26	0.49
1:A:114:PHE:HA	1:A:117:LEU:HB2	1.95	0.49
1:B:4:ARG:C	1:B:4:ARG:CD	2.86	0.49
1:A:195:SER:HA	1:A:198:PHE:HD1	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:205:MET:CG	1:B:209:LEU:HD11	2.42	0.48
1:A:128:CYS:SG	1:A:198:PHE:CE2	3.07	0.48
1:A:154:ARG:N	1:A:178:TRP:CH2	2.81	0.48
1:B:156:LEU:HD13	1:B:156:LEU:N	2.28	0.48
1:A:39:GLY:HA3	1:A:90:THR:O	2.12	0.48
1:B:30:CYS:O	1:B:98:ILE:HG12	2.13	0.48
1:A:26:GLN:NE2	1:A:110:ASN:HD22	2.12	0.48
1:A:55:ILE:O	1:A:55:ILE:CG1	2.61	0.48
1:A:58:ARG:HB3	1:A:71:ASN:HD21	1.79	0.48
1:A:106:ALA:H	1:A:131:LEU:CD2	2.23	0.48
1:B:113:CYS:SG	1:B:201:TYR:HE1	2.36	0.48
1:B:191:GLN:HA	1:B:194:ALA:HB3	1.96	0.48
1:A:119:ASN:ND2	1:A:121:MET:SD	2.87	0.48
1:A:197:ILE:HG12	1:A:201:TYR:HE1	1.79	0.47
1:B:128:CYS:HB2	1:B:159:VAL:HG23	1.96	0.47
1:A:69:LEU:C	1:A:69:LEU:HD22	2.39	0.47
1:B:73:ILE:O	1:B:76:THR:N	2.48	0.47
1:B:191:GLN:N	1:B:192:PRO:CD	2.77	0.47
1:A:71:ASN:O	1:A:74:HIS:CG	2.67	0.47
1:A:151:SER:O	1:A:152:THR:HG23	2.15	0.47
1:A:159:VAL:HG23	1:A:167:PRO:O	2.14	0.47
1:B:29:THR:CG2	1:B:101:ASP:H	2.26	0.47
1:A:157:PHE:HE2	1:A:186:ALA:HB1	1.80	0.47
1:B:27:GLY:C	1:B:29:THR:H	2.22	0.47
1:B:81:ILE:HD12	1:B:81:ILE:O	2.15	0.47
1:B:169:VAL:HG12	1:B:170:CYS:N	2.29	0.47
1:A:28:ALA:O	1:A:99:GLN:HG3	2.15	0.47
1:A:58:ARG:N	1:A:59:ALA:HA	2.30	0.47
1:A:159:VAL:HG23	1:A:168:GLU:O	2.15	0.47
1:B:134:ARG:HB3	1:B:153:GLY:H	1.80	0.47
1:B:125:THR:O	1:B:127:PHE:HD2	1.98	0.47
1:B:128:CYS:HB3	1:B:129:GLY:CA	2.45	0.47
1:B:194:ALA:O	1:B:197:ILE:HG23	2.14	0.47
1:B:83:LEU:C	1:B:83:LEU:HD23	2.40	0.46
1:B:4:ARG:N	1:B:4:ARG:NE	2.59	0.46
1:A:155:VAL:HG13	1:A:178:TRP:CH2	2.50	0.46
1:A:161:LYS:H	1:A:161:LYS:HZ2	1.63	0.46
1:B:101:ASP:O	1:B:144:THR:HA	2.15	0.46
1:A:161:LYS:HA	1:A:167:PRO:HA	1.97	0.46
1:B:21:SER:O	1:B:22:ALA:CB	2.63	0.46
1:B:119:ASN:C	1:B:121:MET:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:209:LEU:N	1:B:209:LEU:HD12	2.30	0.46
1:A:34:SER:HB3	1:A:94:THR:OG1	2.15	0.46
1:A:132:ILE:O	1:A:155:VAL:HG23	2.16	0.46
1:B:74:HIS:ND1	1:B:74:HIS:N	2.63	0.46
1:A:67:ASN:HD22	1:A:70:ASN:H	1.62	0.45
1:B:12:LEU:HG	1:B:208:LYS:HG3	1.97	0.45
1:B:208:LYS:HA	1:B:208:LYS:HD3	1.70	0.45
1:A:80:ALA:HB3	1:A:83:LEU:C	2.40	0.45
1:B:182:GLN:HA	1:B:182:GLN:NE2	2.32	0.45
1:B:188:SER:C	1:B:190:ALA:H	2.23	0.45
1:A:83:LEU:CD1	1:A:121:MET:SD	2.95	0.45
1:A:140:ILE:HD11	1:A:143:PRO:CA	2.44	0.45
1:B:9:ARG:O	1:B:26:GLN:HB3	2.16	0.45
1:B:13:SER:HB2	1:B:21:SER:HB2	1.97	0.45
1:A:106:ALA:HB2	1:A:131:LEU:HD23	1.97	0.45
1:A:106:ALA:N	1:A:131:LEU:HD23	2.26	0.45
1:B:8:MET:HA	1:B:26:GLN:HB2	1.99	0.45
1:B:118:ASP:HB2	1:B:205:MET:CE	2.46	0.45
1:B:131:LEU:HA	1:B:156:LEU:HA	1.99	0.45
1:A:66:PHE:CG	1:A:67:ASN:N	2.85	0.45
1:A:106:ALA:CB	1:A:131:LEU:HD23	2.46	0.45
1:A:179:ASP:O	1:A:183:LEU:HB2	2.16	0.45
1:A:194:ALA:HA	1:A:197:ILE:CG2	2.46	0.45
1:B:105:GLY:O	1:B:106:ALA:C	2.59	0.45
1:B:125:THR:O	1:B:127:PHE:CD2	2.69	0.45
1:B:205:MET:SD	1:B:209:LEU:HD12	2.53	0.45
1:B:205:MET:HG3	1:B:209:LEU:HD11	1.98	0.45
1:B:152:THR:HA	1:B:153:GLY:HA3	1.60	0.45
1:A:61:CYS:SG	1:A:62:GLY:N	2.90	0.45
1:A:132:ILE:HG23	1:A:155:VAL:HG23	1.99	0.45
1:B:134:ARG:HD2	1:B:182:GLN:OE1	2.17	0.45
1:A:24:PHE:HE2	1:A:26:GLN:HG2	1.82	0.44
1:A:55:ILE:O	1:A:56:SER:HB2	2.17	0.44
1:B:24:PHE:CE2	1:B:26:GLN:HG2	2.51	0.44
1:B:79:ASN:C	1:B:79:ASN:ND2	2.69	0.44
1:B:113:CYS:SG	1:B:201:TYR:CE1	3.11	0.44
1:A:54:ASP:C	1:A:56:SER:H	2.25	0.44
1:A:93:VAL:O	1:A:95:VAL:HG23	2.17	0.44
1:A:58:ARG:HB2	1:A:69:LEU:HD11	1.98	0.44
1:A:156:LEU:HD12	1:A:173:ASP:HB3	2.00	0.44
1:A:169:VAL:HG11	1:A:187:TRP:CD1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:113:CYS:HG	1:B:201:TYR:HE1	1.62	0.44
1:A:70:ASN:O	1:A:73:ILE:HD12	2.18	0.44
1:A:80:ALA:HB1	1:A:83:LEU:O	2.18	0.44
1:B:8:MET:HE2	1:B:24:PHE:CZ	2.53	0.44
1:B:95:VAL:HG12	1:B:96:HIS:N	2.32	0.44
1:B:189:LEU:C	1:B:189:LEU:HD12	2.43	0.44
1:A:71:ASN:OD1	1:A:71:ASN:C	2.61	0.44
1:B:14:PHE:H	1:B:15:LEU:CD1	2.31	0.44
1:A:116:LEU:H	1:A:116:LEU:CD2	2.31	0.43
1:B:105:GLY:O	1:B:109:ILE:N	2.51	0.43
1:A:161:LYS:HZ2	1:A:161:LYS:HG2	1.47	0.43
1:B:132:ILE:HD13	1:B:132:ILE:O	2.17	0.43
1:A:7:GLU:O	1:A:27:GLY:N	2.51	0.43
1:B:117:LEU:CD2	1:B:123:PHE:HD1	2.31	0.43
1:B:123:PHE:CE2	1:B:126:VAL:HG11	2.53	0.43
1:A:138:GLU:HB3	1:A:139:LEU:H	1.69	0.43
1:A:126:VAL:HG23	1:A:161:LYS:NZ	2.33	0.43
1:A:160:CYS:O	1:A:167:PRO:O	2.36	0.43
1:B:103:SER:CA	1:B:143:PRO:HG2	2.45	0.43
1:B:131:LEU:HB2	1:B:156:LEU:HB3	2.00	0.43
1:B:133:VAL:HA	1:B:154:ARG:H	1.84	0.43
1:A:203:THR:O	1:A:207:ARG:HG2	2.19	0.43
1:B:139:LEU:HD13	1:B:139:LEU:C	2.44	0.43
1:A:35:CYS:SG	1:A:36:SER:N	2.91	0.43
1:A:109:ILE:CG2	1:A:129:GLY:H	2.31	0.43
1:B:104:MET:CG	1:B:154:ARG:HH22	2.21	0.43
1:B:121:MET:HA	1:B:122:PRO:HD3	1.89	0.43
1:A:6:ARG:NH1	1:A:28:ALA:HB3	2.33	0.43
1:A:179:ASP:CG	1:A:180:PHE:N	2.76	0.43
1:A:91:ILE:HD12	1:A:91:ILE:HA	1.80	0.43
1:B:128:CYS:H	1:B:159:VAL:C	2.27	0.43
1:A:131:LEU:HA	1:A:156:LEU:HA	2.01	0.42
1:B:4:ARG:O	1:B:141:ILE:HB	2.18	0.42
1:B:105:GLY:CA	1:B:109:ILE:HD13	2.49	0.42
1:B:77:LEU:HD21	1:B:83:LEU:O	2.20	0.42
1:B:147:GLN:O	1:B:150:ALA:CB	2.66	0.42
1:A:36:SER:OG	1:A:91:ILE:HA	2.20	0.42
1:A:67:ASN:HD22	1:A:70:ASN:N	2.16	0.42
1:A:71:ASN:OD1	1:A:72:ILE:N	2.52	0.42
1:A:83:LEU:HD13	1:A:121:MET:HE3	1.98	0.42
1:A:161:LYS:H	1:A:161:LYS:HD3	1.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:177:HIS:O	1:B:178:TRP:CD1	2.73	0.42
1:A:6:ARG:NH2	1:A:143:PRO:O	2.53	0.42
1:A:149:ALA:C	1:A:151:SER:H	2.28	0.42
1:A:175:ILE:O	1:A:175:ILE:HG13	2.20	0.42
1:A:93:VAL:O	1:A:93:VAL:HG22	2.19	0.42
1:A:123:PHE:C	1:A:123:PHE:HD2	2.28	0.42
1:B:152:THR:HG23	1:B:178:TRP:NE1	2.35	0.42
1:A:11:GLU:HB2	1:A:14:PHE:CE2	2.55	0.42
1:A:136:LYS:HA	1:A:136:LYS:HD3	1.78	0.42
1:B:200:PHE:CD1	1:B:204:VAL:HG22	2.55	0.42
1:B:128:CYS:SG	1:B:194:ALA:CB	3.07	0.41
1:B:13:SER:HB2	1:B:21:SER:CB	2.50	0.41
1:A:57:TYR:O	1:A:69:LEU:HG	2.21	0.41
1:A:82:ASN:HD22	1:A:89:THR:CG2	2.32	0.41
1:B:117:LEU:HD21	1:B:123:PHE:HD1	1.85	0.41
1:A:7:GLU:HB3	1:A:27:GLY:HA2	2.02	0.41
1:B:200:PHE:O	1:B:203:THR:N	2.54	0.41
1:A:140:ILE:O	1:A:140:ILE:HD13	2.20	0.41
1:B:8:MET:SD	1:B:200:PHE:CD1	3.13	0.41
1:B:35:CYS:HB3	1:B:116:LEU:HD11	2.02	0.41
1:A:11:GLU:O	1:A:14:PHE:HE2	2.03	0.41
1:A:74:HIS:CD2	1:A:74:HIS:C	2.97	0.41
1:B:105:GLY:HA2	1:B:109:ILE:HD13	2.01	0.41
1:B:117:LEU:HD22	1:B:117:LEU:O	2.21	0.41
1:B:131:LEU:CD1	1:B:133:VAL:HG13	2.50	0.41
1:A:26:GLN:O	1:A:28:ALA:N	2.54	0.41
1:A:58:ARG:HD2	1:A:69:LEU:CD1	2.51	0.41
1:A:134:ARG:HB2	1:A:178:TRP:CZ3	2.56	0.41
1:B:159:VAL:HG12	1:B:169:VAL:HA	2.02	0.41
1:B:198:PHE:C	1:B:201:TYR:HB2	2.44	0.41
1:B:148:GLU:C	1:B:150:ALA:N	2.79	0.41
1:B:131:LEU:HD11	1:B:133:VAL:HG13	2.02	0.40
1:B:152:THR:CG2	1:B:178:TRP:CD1	3.03	0.40
1:B:191:GLN:HA	1:B:194:ALA:CB	2.50	0.40
1:A:57:TYR:HB2	1:A:69:LEU:CD1	2.49	0.40
1:A:111:GLY:C	1:A:113:CYS:N	2.78	0.40
1:A:181:ILE:HG13	1:A:182:GLN:H	1.84	0.40
1:B:77:LEU:CD2	1:B:83:LEU:O	2.70	0.40
1:B:110:ASN:OD1	1:B:128:CYS:O	2.39	0.40
1:B:128:CYS:SG	1:B:194:ALA:CA	3.09	0.40
1:A:93:VAL:O	1:A:93:VAL:HG13	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:81:ILE:CG2	1:B:82:ASN:HB3	2.49	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	169/222 (76%)	120 (71%)	38 (22%)	11 (6%)	1	15
1	B	148/222 (67%)	110 (74%)	29 (20%)	9 (6%)	1	15
All	All	317/444 (71%)	230 (73%)	67 (21%)	20 (6%)	1	15

All (20) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	143	PRO
1	B	167	PRO
1	A	27	GLY
1	A	67	ASN
1	A	93	VAL
1	A	124	GLU
1	A	126	VAL
1	B	22	ALA
1	B	151	SER
1	A	38	PRO
1	B	119	ASN
1	A	183	LEU
1	A	190	ALA
1	B	143	PRO
1	B	152	THR
1	B	166	HIS
1	A	168	GLU

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Mol	Chain	Res	Type
1	B	201	TYR
1	A	56	SER
1	B	3	GLY

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	149/182 (82%)	117 (78%)	32 (22%)	1	6
1	B	128/182 (70%)	98 (77%)	30 (23%)	1	5
All	All	277/364 (76%)	215 (78%)	62 (22%)	1	6

All (62) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	LEU
1	A	23	CYS
1	A	55	ILE
1	A	58	ARG
1	A	69	LEU
1	A	73	ILE
1	A	76	THR
1	A	81	ILE
1	A	91	ILE
1	A	98	ILE
1	A	119	ASN
1	A	121	MET
1	A	126	VAL
1	A	128	CYS
1	A	130	VAL
1	A	131	LEU
1	A	132	ILE
1	A	133	VAL
1	A	139	LEU
1	A	140	ILE

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Mol	Chain	Res	Type
1	A	141	ILE
1	A	148	GLU
1	A	152	THR
1	A	159	VAL
1	A	160	CYS
1	A	161	LYS
1	A	166	HIS
1	A	175	ILE
1	A	178	TRP
1	A	180	PHE
1	A	189	LEU
1	A	197	ILE
1	B	4	ARG
1	B	5	LEU
1	B	6	ARG
1	B	9	ARG
1	B	12	LEU
1	B	26	GLN
1	B	73	ILE
1	B	74	HIS
1	B	76	THR
1	B	77	LEU
1	B	79	ASN
1	B	81	ILE
1	B	98	ILE
1	B	101	ASP
1	B	117	LEU
1	B	119	ASN
1	B	127	PHE
1	B	128	CYS
1	B	130	VAL
1	B	131	LEU
1	B	132	ILE
1	B	140	ILE
1	B	144	THR
1	B	146	LYS
1	B	152	THR
1	B	156	LEU
1	B	157	PHE
1	B	166	HIS
1	B	197	ILE
1	B	204	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	26	GLN
1	A	74	HIS
1	A	82	ASN
1	A	119	ASN
1	B	26	GLN
1	B	79	ASN
1	B	119	ASN
1	B	166	HIS
1	B	177	HIS
1	B	191	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	183/222 (82%)	-0.85	0 100 100	19, 82, 164, 223	0
1	B	160/222 (72%)	-0.89	0 100 100	12, 83, 162, 265	0
All	All	343/444 (77%)	-0.87	0 100 100	12, 82, 162, 265	0

There are no RSRZ outliers to report.

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.