Full wwPDB X-ray Structure Validation Report (i)

Jun 22, 2024 – 11:39 PM EDT

PDB ID	:	6N2G
Title	:	Crystal structure of Caenorhabditis elegans NAP1
Authors	:	Bhattacharyya, S.; DArcy, S.
Deposited on	:	2018-11-13
Resolution	:	3.00 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 (i) 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 (1)) were used in the production of this report:

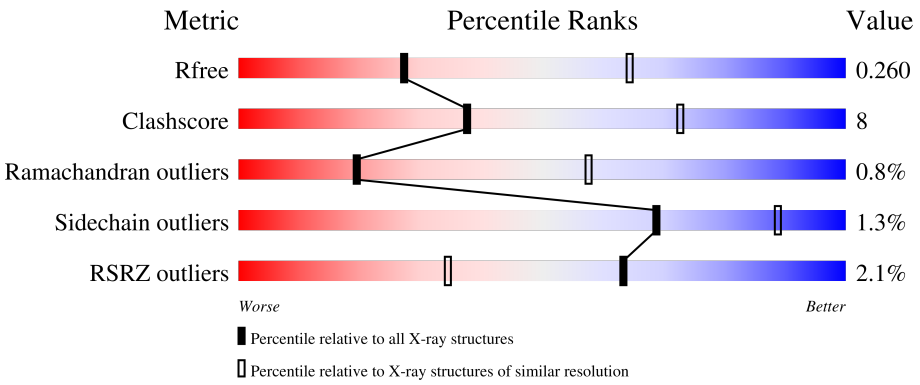
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.20.1
EDS	:	2.37.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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}	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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 <=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	316	2%, 74%, 16%, • 10%
1	B	316	3%, 66%, 20%, • 14%
1	C	316	2%, 70%, 18%, • 11%
1	D	316	%, 73%, 13%, 14%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 8866 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 Nucleosome Assembly Protein.

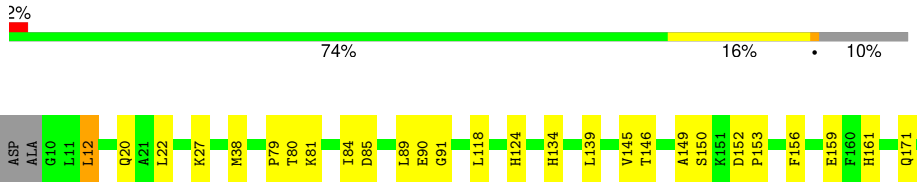
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	285	2268	1453	367	443	5	0	0	0
			Total	C	N	O	S			
1	B	273	2180	1401	355	420	4	0	0	0
			Total	C	N	O	S			
1	C	281	2241	1440	363	433	5	0	0	0
			Total	C	N	O	S			
1	D	273	2177	1400	355	418	4	0	0	0

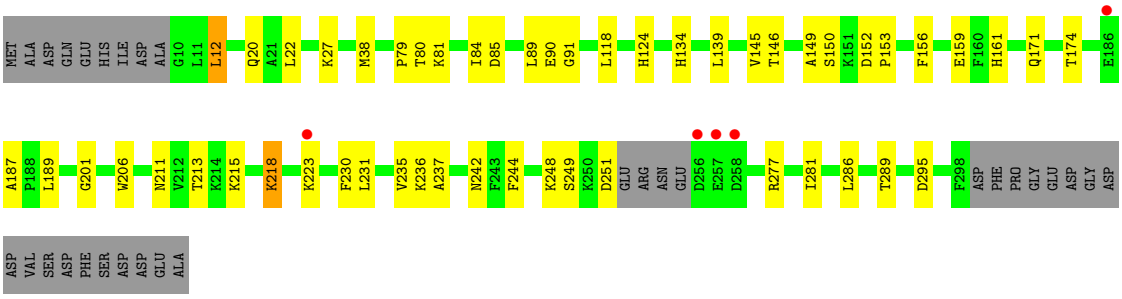
3 Residue-property plots (i)

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: Nucleosome Assembly Protein

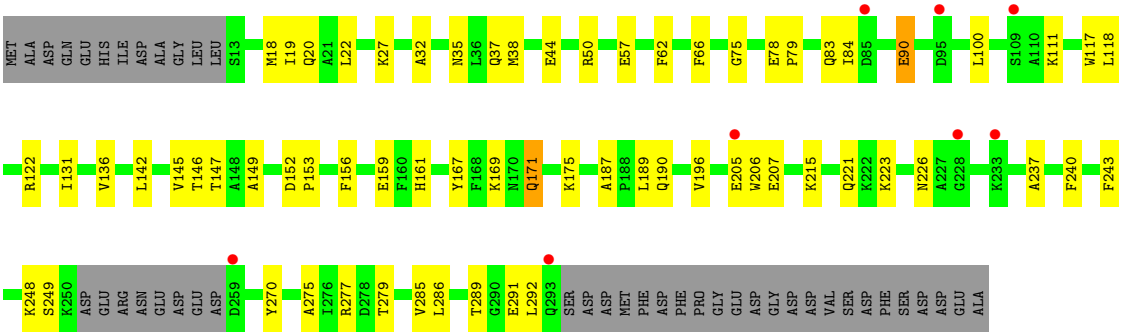
Chain A:





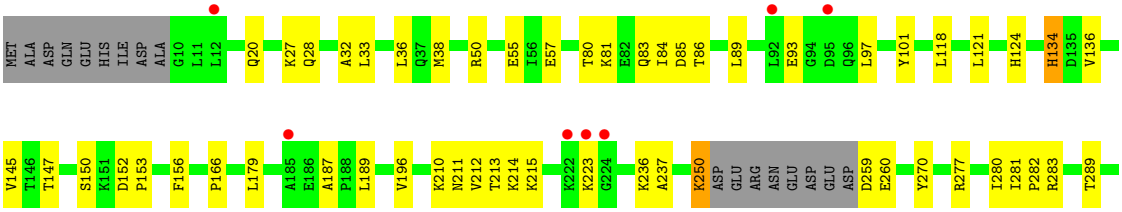
• Molecule 1: Nucleosome Assembly Protein

Chain B:



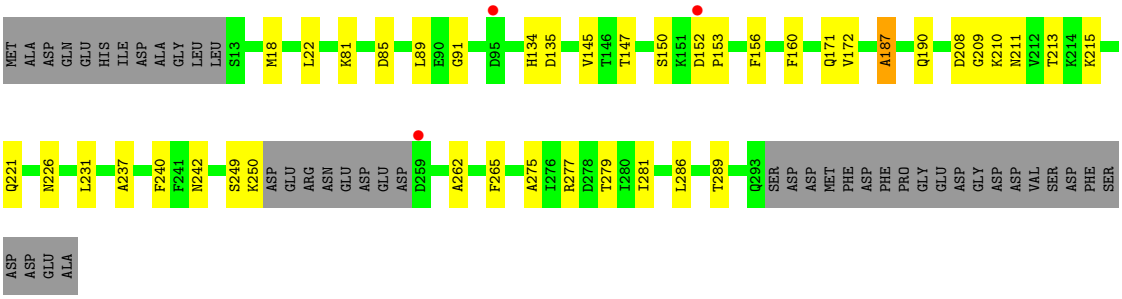
• Molecule 1: Nucleosome Assembly Protein

Chain C:



• Molecule 1: Nucleosome Assembly Protein

Chain D:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α, β, γ	125.60Å 154.87Å 92.55Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.80 – 3.00 19.80 – 3.00	Depositor EDS
% Data completeness (in resolution range)	88.6 (19.80-3.00) 89.7 (19.80-3.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.12	Depositor
$< I/\sigma(I) >$ [1]	1.74 (at 2.98Å)	Xtriage
Refinement program	PHENIX 1.11.1_2575	Depositor
R, R_{free}	0.241 , 0.255 0.247 , 0.260	Depositor DCC
R_{free} test set	2015 reflections (6.14%)	wwPDB-VP
Wilson B-factor (Å^2)	58.3	Xtriage
Anisotropy	0.357	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.31 , 28.6	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.91	EDS
Total number of atoms	8866	wwPDB-VP
Average B, all atoms (Å^2)	56.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 40.14 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 2.8608e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ 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	0.27	0/2315	0.45	0/3126
1	B	0.27	0/2226	0.47	0/3006
1	C	0.29	0/2288	0.47	0/3089
1	D	0.27	0/2223	0.48	0/3002
All	All	0.28	0/9052	0.47	0/12223

There are no bond length outliers.

There are no bond angle outliers.

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	2268	0	2225	32	0
1	B	2180	0	2162	55	0
1	C	2241	0	2218	47	0
1	D	2177	0	2160	24	0
All	All	8866	0	8765	135	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 8.

All (135) 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:D:18:MET:O	1:D:22:LEU:HD13	1.72	0.90
1:B:18:MET:O	1:B:22:LEU:HD13	1.76	0.85
1:B:152:ASP:OD1	1:B:153:PRO:CD	2.25	0.84
1:B:152:ASP:OD1	1:B:153:PRO:HD2	1.82	0.80
1:B:152:ASP:CG	1:B:153:PRO:HD3	2.05	0.77
1:A:215:LYS:HB2	1:A:237:ALA:HB2	1.67	0.76
1:D:215:LYS:HB2	1:D:237:ALA:HB2	1.68	0.76
1:A:150:SER:OG	1:C:250:LYS:NZ	2.22	0.72
1:B:50:ARG:NH1	1:C:57:GLU:OE2	2.23	0.71
1:D:81:LYS:NZ	1:D:85:ASP:OD1	2.24	0.69
1:D:213:THR:OG1	1:D:242:ASN:OD1	2.10	0.68
1:A:124:HIS:NE2	1:A:295:ASP:OD1	2.25	0.67
1:C:215:LYS:HB2	1:C:237:ALA:HB2	1.76	0.67
1:C:213:THR:HB	1:C:236:LYS:HE3	1.76	0.67
1:B:35:ASN:HB2	1:C:86:THR:HG21	1.78	0.65
1:B:152:ASP:OD1	1:B:153:PRO:HD3	1.95	0.65
1:B:75:GLY:O	1:B:111:LYS:NZ	2.30	0.64
1:D:147:THR:OG1	1:D:277:ARG:NH1	2.30	0.64
1:C:93:GLU:HB3	1:C:97:LEU:HB2	1.79	0.63
1:A:146:THR:HG22	1:A:159:GLU:HB2	1.80	0.62
1:A:159:GLU:HG2	1:A:174:THR:HG23	1.81	0.62
1:C:211:ASN:OD1	1:C:213:THR:OG1	2.16	0.61
1:C:156:PHE:CD1	1:C:277:ARG:HD2	2.35	0.61
1:A:20:GLN:O	1:A:27:LYS:NZ	2.31	0.61
1:B:79:PRO:HB3	1:C:32:ALA:HB2	1.82	0.60
1:D:211:ASN:OD1	1:D:213:THR:HG22	2.01	0.60
1:B:83:GLN:HB3	1:C:32:ALA:HA	1.82	0.60
1:B:285:VAL:HG21	1:C:33:LEU:HB3	1.83	0.60
1:B:146:THR:HG22	1:B:159:GLU:HB2	1.84	0.59
1:C:55:GLU:OE1	1:C:277:ARG:NH1	2.32	0.59
1:B:44:GLU:OE1	1:C:283:ARG:NH2	2.32	0.57
1:A:211:ASN:OD1	1:A:213:THR:HG22	2.04	0.57
1:C:145:VAL:HG12	1:C:281:ILE:HD11	1.85	0.57
1:B:90:GLU:N	1:B:291:GLU:OE2	2.38	0.56
1:B:84:ILE:HD12	1:C:28:GLN:HB3	1.87	0.56
1:B:248:LYS:HD2	1:B:249:SER:H	1.70	0.56
1:B:122:ARG:HH11	1:B:131:ILE:HG13	1.69	0.56
1:D:208:ASP:O	1:D:210:LYS:N	2.38	0.56
1:B:275:ALA:O	1:B:279:THR:OG1	2.17	0.55
1:B:147:THR:HG21	1:B:277:ARG:HG3	1.87	0.55
1:B:286:LEU:HA	1:B:289:THR:HG22	1.89	0.55
1:B:75:GLY:O	1:D:171:GLN:NE2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:80:THR:O	1:A:84:ILE:HG12	2.07	0.54
1:C:150:SER:OG	1:C:153:PRO:HD2	2.07	0.54
1:B:156:PHE:CD1	1:B:277:ARG:HD2	2.43	0.54
1:B:190:GLN:OE1	1:B:190:GLN:N	2.41	0.54
1:B:38:MET:HG3	1:B:189:LEU:HD21	1.90	0.53
1:B:57:GLU:OE2	1:C:50:ARG:NH2	2.40	0.53
1:B:190:GLN:HA	1:C:298:PHE:CE2	2.44	0.53
1:B:215:LYS:HB2	1:B:237:ALA:HB2	1.91	0.53
1:A:213:THR:OG1	1:A:242:ASN:OD1	2.26	0.52
1:C:97:LEU:HD21	1:C:101:TYR:CE2	2.44	0.52
1:A:81:LYS:NZ	1:A:85:ASP:OD2	2.40	0.52
1:A:215:LYS:N	1:A:235:VAL:O	2.42	0.52
1:D:275:ALA:O	1:D:279:THR:OG1	2.24	0.52
1:B:152:ASP:CG	1:B:153:PRO:CD	2.72	0.52
1:C:121:LEU:HD23	1:C:280:ILE:HD13	1.93	0.51
1:A:145:VAL:HG12	1:A:281:ILE:HD11	1.93	0.51
1:C:166:PRO:O	1:C:210:LYS:HD2	2.11	0.51
1:A:156:PHE:CD1	1:A:277:ARG:HD2	2.47	0.50
1:C:32:ALA:O	1:C:36:LEU:HD13	2.12	0.49
1:B:79:PRO:HB2	1:B:84:ILE:HD11	1.94	0.49
1:B:131:ILE:HG22	1:B:240:PHE:HB2	1.94	0.49
1:B:122:ARG:HA	1:B:131:ILE:HD11	1.95	0.49
1:D:187:ALA:HB1	1:D:190:GLN:HG3	1.95	0.48
1:B:19:ILE:HA	1:B:22:LEU:HD22	1.94	0.48
1:B:100:LEU:O	1:C:27:LYS:HE3	2.14	0.48
1:B:286:LEU:HB3	1:B:292:LEU:HG	1.96	0.48
1:C:147:THR:HG21	1:C:277:ARG:HG3	1.95	0.48
1:B:117:TRP:CZ3	1:B:145:VAL:HG22	2.48	0.48
1:A:248:LYS:NZ	1:A:251:ASP:HB2	2.29	0.47
1:B:175:LYS:HG2	1:B:243:PHE:CE2	2.49	0.47
1:B:78:GLU:HG3	1:B:79:PRO:HD2	1.96	0.47
1:D:135:ASP:OD2	1:D:240:PHE:N	2.37	0.47
1:A:206:TRP:CE3	1:A:211:ASN:HA	2.49	0.47
1:D:262:ALA:HA	1:D:265:PHE:HD2	1.78	0.47
1:A:152:ASP:HB3	1:A:153:PRO:HD3	1.97	0.47
1:D:286:LEU:HA	1:D:289:THR:HG22	1.97	0.47
1:C:124:HIS:NE2	1:C:295:ASP:OD1	2.40	0.47
1:B:62:PHE:HB3	1:B:66:PHE:CE2	2.50	0.46
1:A:161:HIS:ND1	1:C:152:ASP:OD1	2.49	0.46
1:D:152:ASP:HB3	1:D:153:PRO:HD3	1.97	0.46
1:D:145:VAL:HG12	1:D:281:ILE:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:32:ALA:HA	1:C:83:GLN:HB3	1.98	0.45
1:B:100:LEU:HD11	1:C:20:GLN:HA	1.97	0.45
1:C:38:MET:HG3	1:C:189:LEU:HD21	1.98	0.45
1:C:80:THR:O	1:C:84:ILE:HG12	2.16	0.45
1:D:160:PHE:O	1:D:172:VAL:HA	2.17	0.45
1:A:230:PHE:H	1:D:226:ASN:HD21	1.65	0.45
1:D:156:PHE:CD1	1:D:277:ARG:HD2	2.52	0.45
1:A:79:PRO:HB2	1:A:84:ILE:HD11	1.99	0.45
1:A:286:LEU:HA	1:A:289:THR:HG22	1.98	0.45
1:D:221:GLN:HG3	1:D:231:LEU:HD23	1.99	0.45
1:B:37:GLN:NE2	1:C:282:PRO:O	2.42	0.45
1:C:214:LYS:HD3	1:C:236:LYS:HD2	1.98	0.45
1:D:18:MET:O	1:D:22:LEU:CD1	2.54	0.45
1:A:235:VAL:HG22	1:A:236:LYS:H	1.80	0.44
1:C:20:GLN:O	1:C:27:LYS:NZ	2.47	0.44
1:A:38:MET:HG3	1:A:189:LEU:HD21	2.00	0.43
1:B:20:GLN:O	1:B:27:LYS:NZ	2.48	0.43
1:C:152:ASP:HB3	1:C:153:PRO:HD3	2.00	0.43
1:A:248:LYS:HD2	1:A:249:SER:H	1.83	0.43
1:C:259:ASP:OD1	1:C:260:GLU:N	2.46	0.43
1:B:90:GLU:HB2	1:C:189:LEU:HD12	2.00	0.43
1:B:118:LEU:HD21	1:B:136:VAL:HG13	2.00	0.42
1:A:12:LEU:HD23	1:A:12:LEU:H	1.83	0.42
1:B:142:LEU:HD12	1:B:161:HIS:O	2.19	0.42
1:A:218:LYS:HA	1:A:231:LEU:O	2.20	0.42
1:C:89:LEU:HD23	1:C:89:LEU:HA	1.84	0.42
1:C:134:HIS:CE1	1:C:212:VAL:HG13	2.54	0.42
1:D:249:SER:O	1:D:250:LYS:HB2	2.18	0.42
1:B:149:ALA:HA	1:B:156:PHE:HA	2.02	0.42
1:B:19:ILE:HD11	1:C:289:THR:HA	2.01	0.42
1:C:81:LYS:NZ	1:C:85:ASP:OD1	2.52	0.42
1:C:292:LEU:HD21	1:C:298:PHE:CZ	2.54	0.42
1:C:179:LEU:HD23	1:C:196:VAL:HA	2.02	0.42
1:B:19:ILE:O	1:B:27:LYS:NZ	2.54	0.41
1:B:169:LYS:HB2	1:B:205:GLU:HB2	2.02	0.41
1:D:89:LEU:HD23	1:D:89:LEU:HA	1.80	0.41
1:B:196:VAL:HG11	1:B:270:TYR:CG	2.55	0.41
1:A:22:LEU:HD23	1:A:22:LEU:HA	1.93	0.41
1:A:223:LYS:HD2	1:A:223:LYS:HA	1.91	0.41
1:A:89:LEU:C	1:A:91:GLY:H	2.22	0.41
1:A:149:ALA:HA	1:A:156:PHE:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:150:SER:OG	1:D:153:PRO:HD2	2.21	0.41
1:B:167:TYR:HB3	1:B:206:TRP:HZ3	1.85	0.41
1:B:221:GLN:HB2	1:B:226:ASN:O	2.21	0.41
1:C:179:LEU:HD21	1:C:270:TYR:CE1	2.56	0.41
1:A:201:GLY:HA3	1:A:244:PHE:O	2.20	0.40
1:A:152:ASP:HB2	1:C:250:LYS:HD3	2.03	0.40
1:A:118:LEU:HD13	1:A:139:LEU:HB2	2.03	0.40
1:B:285:VAL:HG22	1:C:33:LEU:HD13	2.04	0.40
1:C:118:LEU:HD21	1:C:136:VAL:HG13	2.04	0.40
1:B:90:GLU:HG3	1:C:189:LEU:HG	2.02	0.40
1:B:171:GLN:NE2	1:D:150:SER:HA	2.37	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 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 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	281/316 (89%)	273 (97%)	6 (2%)	2 (1%)	22 60
1	B	269/316 (85%)	262 (97%)	4 (2%)	3 (1%)	14 50
1	C	277/316 (88%)	270 (98%)	6 (2%)	1 (0%)	34 72
1	D	269/316 (85%)	261 (97%)	5 (2%)	3 (1%)	14 50
All	All	1096/1264 (87%)	1066 (97%)	21 (2%)	9 (1%)	19 57

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	187	ALA
1	D	209	GLY
1	D	91	GLY
1	A	90	GLU

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Mol	Chain	Res	Type
1	B	90	GLU
1	D	187	ALA
1	B	207	GLU
1	A	187	ALA
1	B	187	ALA

5.3.2 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 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	242/270 (90%)	238 (98%)	4 (2%)	60	85
1	B	233/270 (86%)	231 (99%)	2 (1%)	78	92
1	C	240/270 (89%)	235 (98%)	5 (2%)	53	82
1	D	232/270 (86%)	231 (100%)	1 (0%)	91	97
All	All	947/1080 (88%)	935 (99%)	12 (1%)	69	89

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	12	LEU
1	A	134	HIS
1	A	171	GLN
1	A	218	LYS
1	B	171	GLN
1	B	223	LYS
1	C	134	HIS
1	C	223	LYS
1	C	250	LYS
1	C	294	SER
1	C	295	ASP
1	D	134	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	171	GLN
1	D	96	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 monosaccharides 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	285/316 (90%)	-0.23	5 (1%)	68	40	30, 49, 85, 109	0
1	B	273/316 (86%)	0.00	8 (2%)	51	23	36, 65, 100, 115	0
1	C	281/316 (88%)	-0.25	7 (2%)	57	29	28, 45, 87, 100	0
1	D	273/316 (86%)	-0.26	3 (1%)	80	56	35, 53, 83, 103	0
All	All	1112/1264 (87%)	-0.19	23 (2%)	63	34	28, 53, 91, 115	0

All (23) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	256	ASP	4.7
1	A	257	GLU	3.8
1	B	95	ASP	3.6
1	C	223	LYS	3.4
1	A	223	LYS	3.2
1	C	92	LEU	3.1
1	A	186	GLU	2.9
1	A	258	ASP	2.9
1	B	293	GLN	2.6
1	C	12	LEU	2.5
1	B	205	GLU	2.5
1	B	85	ASP	2.4
1	C	224	GLY	2.3
1	D	95	ASP	2.3
1	B	228	GLY	2.2
1	C	185	ALA	2.3
1	D	259	ASP	2.2
1	B	233	LYS	2.2
1	B	259	ASP	2.1
1	D	152	ASP	2.1
1	C	222	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
1	C	95	ASP	2.1
1	B	109	SER	2.0

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 monosaccharides 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.