Full wwPDB X-ray Structure Validation Report (i)

Nov 5, 2023 – 11:19 AM EST

PDB ID	:	6DD9
Title	:	Structure of mouse SYCP3, P1 form
Authors	:	Rosenberg, S.C.; Munoz, I.C.; Uson, I.; Corbett, K.D.
Deposited on	:	2018-05-09
Resolution	:	2.30 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:

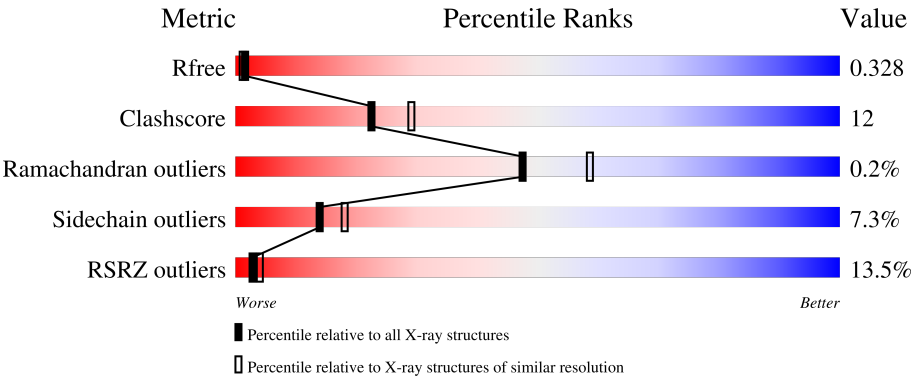
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 2.30 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	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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	144	8% 59% 28% • 11%
1	B	144	9% 60% 26% • 12%
1	C	144	12% 65% 19% • 13%
1	D	144	15% 60% 22% • 16%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 4119 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 Synaptonemal complex protein 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	128	Total	C	N	O	Se	0	0	0
			1059	662	185	206	6			
1	B	127	Total	C	N	O	Se	0	0	0
			1052	660	184	203	5			
1	D	121	Total	C	N	O	Se	0	0	0
			972	607	173	188	4			
1	C	125	Total	C	N	O	Se	0	0	0
			1026	649	179	192	6			

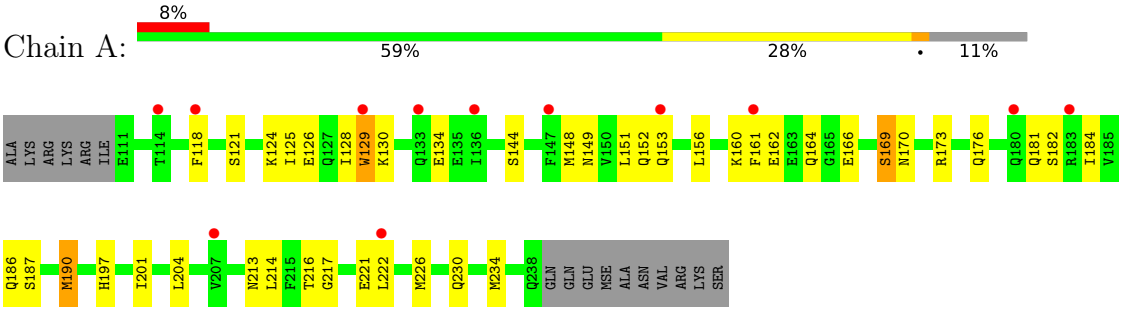
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	4	Total	O	0	0
			4	4		
2	D	4	Total	O	0	0
			4	4		
2	C	2	Total	O	0	0
			2	2		

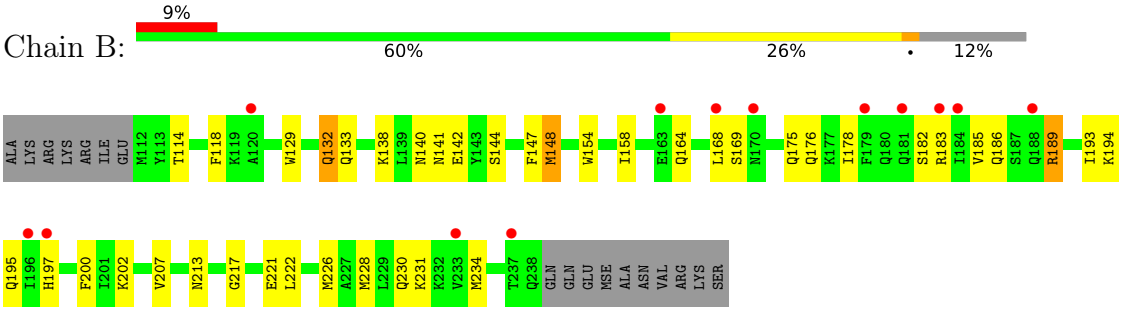
3 Residue-property plots

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.

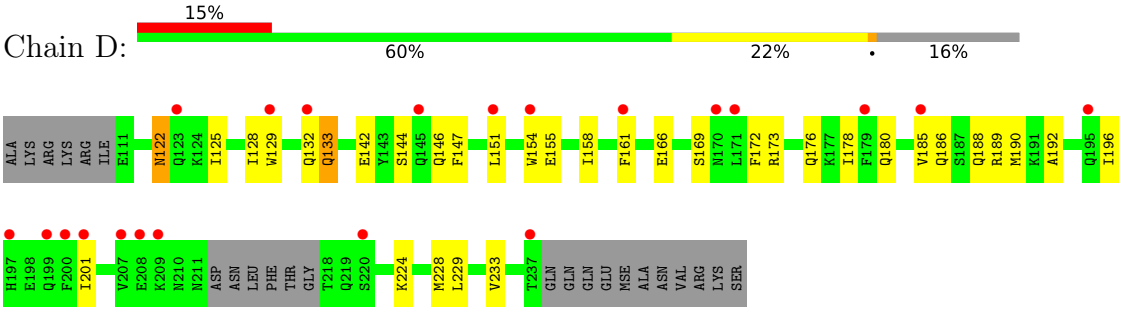
• Molecule 1: Synaptonemal complex protein 3



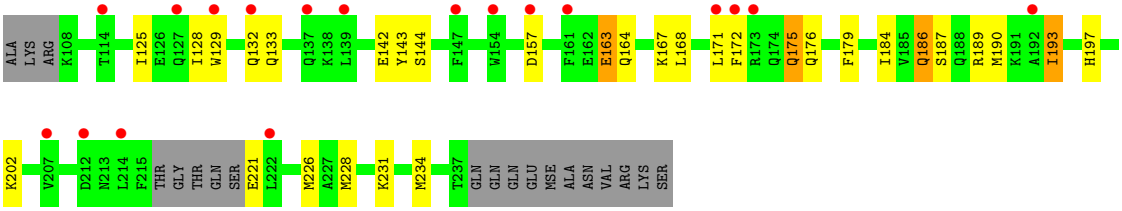
• Molecule 1: Synaptonemal complex protein 3



• Molecule 1: Synaptonemal complex protein 3



• Molecule 1: Synaptonemal complex protein 3


ALA
LYS
ARG
K108
T114
I125
E126
Q127
I128
W129
Q132
Q133
Q137
K138
L139
E142
Y143
S144
F147
W154
D157
F161
E162
E163
Q164
K167
L168
L171
F172
R173
Q174
Q175
Q176
F179
I184
V185
Q186
S187
Q188
R189
M190
K191
A192
I193
H197
K202
V207
D212
N213
L214
F215
THR
GLY
THR
GLN
SER
E221
L222
M226
A227
M228
K231
M234
T237
GLN
GLN
GLN
GLU
MSE
ALA
ASN
VAL
ARG
LYS
SER

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α, β, γ	45.87Å 52.27Å 75.59Å 95.17° 103.70° 110.54°	Depositor
Resolution (Å)	72.10 – 2.30 72.10 – 2.30	Depositor EDS
% Data completeness (in resolution range)	91.5 (72.10-2.30) 94.0 (72.10-2.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.82 (at 2.29Å)	Xtriage
Refinement program	PHENIX (1.13_2998: ???)	Depositor
R, R_{free}	0.287 , 0.331 0.283 , 0.328	Depositor DCC
R_{free} test set	1307 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å^2)	50.2	Xtriage
Anisotropy	0.532	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.31 , 54.1	EDS
L-test for twinning[2]	$< \|L\| > = 0.52$, $< L^2 > = 0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	4119	wwPDB-VP
Average B, all atoms (Å^2)	76.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.64% of the height of the origin peak. No significant pseudotranslation is detected.*

[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

5.1 Standard geometry

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	0.46	0/1064	0.55	0/1408
1	B	0.41	0/1059	0.50	0/1404
1	C	0.45	0/1030	0.50	0/1360
1	D	0.44	0/975	0.51	0/1292
All	All	0.44	0/4128	0.52	0/5464

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

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	1059	0	1040	34	0
1	B	1052	0	1029	44	0
1	C	1026	0	1010	33	0
1	D	972	0	919	40	0
2	A	4	0	0	0	0
2	C	2	0	0	1	0
2	D	4	0	0	0	0
All	All	4119	0	3998	94	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 12.

All (94) 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:176:GLN:NE2	1:B:169:SER:OG	2.17	0.77
1:B:186:GLN:HE22	1:D:186:GLN:HG2	1.52	0.75
1:B:168:LEU:HB2	1:C:175:GLN:HE22	1.51	0.73
1:D:151:LEU:HG	1:C:190:MSE:HE2	1.70	0.73
1:A:164:GLN:HB3	1:D:178:ILE:HD13	1.72	0.70
1:B:132:GLN:HE21	1:B:133:GLN:HE21	1.43	0.67
1:B:164:GLN:HB2	1:C:179:PHE:HD1	1.60	0.66
1:B:175:GLN:HG3	1:C:168:LEU:HD13	1.78	0.66
1:A:197:HIS:HD2	1:B:148:MSE:HE2	1.62	0.65
1:A:124:LYS:HE2	1:A:128:ILE:HD11	1.77	0.64
1:B:185:VAL:HG11	1:C:157:ASP:OD2	1.97	0.63
1:B:132:GLN:NE2	1:B:133:GLN:HE21	1.96	0.63
1:B:186:GLN:NE2	1:D:186:GLN:HG2	2.14	0.63
1:D:144:SER:HA	1:C:197:HIS:CE1	2.35	0.62
1:D:155:GLU:HB2	1:C:190:MSE:HE1	1.81	0.62
1:B:197:HIS:HD2	1:C:143:TYR:OH	1.83	0.61
1:D:122:ASN:HD21	1:C:226:MSE:HG3	1.65	0.61
1:B:168:LEU:HB2	1:C:175:GLN:NE2	2.16	0.60
1:A:153:GLN:OE1	1:D:189:ARG:NH1	2.35	0.60
1:D:201:ILE:HD11	1:C:144:SER:HB2	1.83	0.59
1:D:166:GLU:O	1:D:169:SER:OG	2.22	0.57
1:D:169:SER:HB2	1:C:176:GLN:HE22	1.68	0.57
1:A:151:LEU:HD13	1:B:194:LYS:HG3	1.85	0.57
1:A:161:PHE:CE2	1:D:185:VAL:HG11	2.40	0.56
1:A:130:LYS:O	1:A:134:GLU:HG3	2.06	0.56
1:D:169:SER:CB	1:C:176:GLN:HE22	2.19	0.55
1:A:221:GLU:HB3	1:D:128:ILE:HD13	1.89	0.55
1:B:133:GLN:NE2	1:D:132:GLN:HE22	2.05	0.54
1:B:158:ILE:HG12	1:C:186:GLN:OE1	2.08	0.54
1:D:185:VAL:HA	1:D:188:GLN:HG2	1.90	0.54
1:A:162:GLU:HB2	1:B:183:ARG:NE	2.23	0.54
1:A:204:LEU:HD13	1:B:140:ASN:ND2	2.23	0.53
1:A:148:MSE:HE2	1:B:197:HIS:ND1	2.23	0.53
1:B:129:TRP:HD1	1:D:129:TRP:CD1	2.26	0.52
1:C:132:GLN:HE21	1:C:133:GLN:HG2	1.74	0.52
1:A:125:ILE:HD12	1:B:226:MSE:HE2	1.92	0.52
1:A:222:LEU:CD2	1:D:125:ILE:HG23	2.42	0.50
1:B:132:GLN:NE2	1:D:133:GLN:OE1	2.43	0.50
1:B:221:GLU:HB3	1:C:128:ILE:HD13	1.93	0.50
1:A:197:HIS:CD2	1:B:148:MSE:HE2	2.46	0.49
1:D:224:LYS:O	1:D:228:MSE:HG2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:170:ASN:HA	1:A:173:ARG:HG2	1.94	0.49
1:A:118:PHE:CE1	1:D:229:LEU:HD21	2.48	0.48
1:A:162:GLU:HB2	1:B:183:ARG:HE	1.78	0.48
1:D:188:GLN:HG3	1:D:189:ARG:N	2.29	0.48
1:C:202:LYS:HE3	2:C:301:HOH:O	2.12	0.48
1:B:154:TRP:CD1	1:B:158:ILE:HG13	2.49	0.47
1:A:201:ILE:HD11	1:B:144:SER:HB2	1.95	0.47
1:B:147:PHE:CE1	1:D:147:PHE:HE1	2.33	0.47
1:A:121:SER:O	1:A:125:ILE:HG13	2.16	0.46
1:A:161:PHE:HE2	1:D:185:VAL:HG11	1.81	0.46
1:D:142:GLU:O	1:D:146:GLN:HG3	2.15	0.46
1:C:167:LYS:O	1:C:171:LEU:HG	2.16	0.46
1:A:222:LEU:HD21	1:D:125:ILE:HG23	1.97	0.45
1:D:176:GLN:O	1:D:180:GLN:HG3	2.16	0.45
1:A:149:ASN:O	1:A:152:GLN:HG2	2.16	0.45
1:B:178:ILE:HD12	1:C:168:LEU:HD11	1.99	0.45
1:B:230:GLN:O	1:B:234:MSE:HG3	2.16	0.45
1:B:202:LYS:HB2	1:B:202:LYS:HE2	1.71	0.45
1:B:213:ASN:HB3	1:B:217:GLY:N	2.32	0.45
1:A:169:SER:HB2	1:B:176:GLN:OE1	2.17	0.44
1:A:182:SER:O	1:A:186:GLN:HG2	2.17	0.44
1:B:129:TRP:HD1	1:D:129:TRP:HD1	1.65	0.44
1:B:138:LYS:HE2	1:B:142:GLU:OE1	2.18	0.44
1:C:167:LYS:H	1:C:167:LYS:HG2	1.59	0.44
1:D:173:ARG:HA	1:D:176:GLN:HG2	1.99	0.44
1:B:222:LEU:HD12	1:C:125:ILE:HG12	2.00	0.44
1:B:133:GLN:HE22	1:D:133:GLN:HE22	1.64	0.44
1:D:169:SER:HB2	1:C:176:GLN:NE2	2.31	0.44
1:D:172:PHE:CZ	1:C:172:PHE:HB2	2.53	0.43
1:A:129:TRP:CZ2	1:C:129:TRP:HB2	2.54	0.43
1:C:163:GLU:HG3	1:C:164:GLN:N	2.33	0.43
1:A:230:GLN:HE21	1:B:118:PHE:HB2	1.83	0.43
1:A:234:MSE:SE	1:B:114:THR:HG21	2.69	0.43
1:D:201:ILE:HD11	1:C:144:SER:CB	2.48	0.43
1:B:189:ARG:HD2	1:B:189:ARG:HA	1.89	0.42
1:C:163:GLU:O	1:C:167:LYS:HG2	2.18	0.42
1:A:124:LYS:O	1:A:128:ILE:HG12	2.20	0.42
1:A:190:MSE:SE	1:D:154:TRP:HH2	2.52	0.42
1:A:213:ASN:HD22	1:A:216:THR:H	1.66	0.42
1:D:144:SER:HA	1:C:197:HIS:HE1	1.81	0.42
1:D:172:PHE:CE2	1:C:172:PHE:CG	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:133:GLN:CD	1:D:132:GLN:HE22	2.23	0.42
1:B:200:PHE:HB2	1:C:143:TYR:CD1	2.55	0.41
1:B:129:TRP:CD1	1:D:129:TRP:HD1	2.39	0.41
1:B:175:GLN:CG	1:C:168:LEU:HD13	2.50	0.41
1:A:156:LEU:HB3	1:A:160:LYS:HE2	2.02	0.41
1:D:133:GLN:HA	1:D:133:GLN:NE2	2.36	0.41
1:A:222:LEU:O	1:A:226:MSE:HG2	2.20	0.40
1:B:228:MSE:O	1:B:231:LYS:HG2	2.20	0.40
1:A:181:GLN:HA	1:A:184:ILE:HG22	2.03	0.40
1:C:189:ARG:O	1:C:193:ILE:HG23	2.21	0.40
1:D:192:ALA:O	1:D:196:ILE:HG13	2.20	0.40
1:C:231:LYS:HE3	1:C:231:LYS:HB2	1.88	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	126/144 (88%)	125 (99%)	0	1 (1%)	19 23
1	B	125/144 (87%)	124 (99%)	1 (1%)	0	100 100
1	C	121/144 (84%)	120 (99%)	1 (1%)	0	100 100
1	D	117/144 (81%)	116 (99%)	1 (1%)	0	100 100
All	All	489/576 (85%)	485 (99%)	3 (1%)	1 (0%)	47 58

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	217	GLY

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	116/128 (91%)	108 (93%)	8 (7%)	15 20
1	B	114/128 (89%)	106 (93%)	8 (7%)	15 19
1	C	108/128 (84%)	98 (91%)	10 (9%)	9 10
1	D	100/128 (78%)	94 (94%)	6 (6%)	19 26
All	All	438/512 (86%)	406 (93%)	32 (7%)	14 18

All (32) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	126	GLU
1	A	129	TRP
1	A	144	SER
1	A	166	GLU
1	A	169	SER
1	A	187	SER
1	A	190	MSE
1	A	214	LEU
1	B	132	GLN
1	B	141	ASN
1	B	148	MSE
1	B	182	SER
1	B	189	ARG
1	B	193	ILE
1	B	195	GLN
1	B	207	VAL
1	D	122	ASN
1	D	133	GLN
1	D	158	ILE
1	D	161	PHE
1	D	190	MSE
1	D	233	VAL
1	C	142	GLU
1	C	163	GLU

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Mol	Chain	Res	Type
1	C	175	GLN
1	C	184	ILE
1	C	186	GLN
1	C	187	SER
1	C	193	ILE
1	C	221	GLU
1	C	228	MSE
1	C	234	MSE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (33) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	127	GLN
1	A	176	GLN
1	A	213	ASN
1	A	230	GLN
1	B	123	GLN
1	B	132	GLN
1	B	133	GLN
1	B	137	GLN
1	B	175	GLN
1	B	180	GLN
1	B	186	GLN
1	B	195	GLN
1	B	197	HIS
1	B	211	ASN
1	D	122	ASN
1	D	133	GLN
1	D	145	GLN
1	D	146	GLN
1	D	152	GLN
1	D	153	GLN
1	D	159	GLN
1	D	164	GLN
1	D	174	GLN
1	D	175	GLN
1	D	176	GLN
1	D	181	GLN
1	C	123	GLN
1	C	132	GLN
1	C	133	GLN
1	C	145	GLN

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Mol	Chain	Res	Type
1	C	146	GLN
1	C	159	GLN
1	C	176	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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, 95^{th} 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	121/144 (84%)	0.97	12 (9%)	7	10	44, 74, 94, 110	0
1	B	120/144 (83%)	1.03	13 (10%)	5	8	50, 73, 98, 128	0
1	C	118/144 (81%)	1.10	18 (15%)	2	3	45, 80, 103, 127	0
1	D	114/144 (79%)	1.24	21 (18%)	1	1	41, 75, 105, 123	0
All	All	473/576 (82%)	1.08	64 (13%)	3	4	41, 75, 101, 128	0

All (64) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	237	THR	7.7
1	C	161	PHE	5.2
1	B	233	VAL	4.9
1	D	129	TRP	4.4
1	C	222	LEU	4.4
1	A	183	ARG	4.2
1	D	179	PHE	3.9
1	C	129	TRP	3.9
1	C	212	ASP	3.8
1	A	129	TRP	3.6
1	A	114	THR	3.5
1	D	197	HIS	3.5
1	D	123	GLN	3.5
1	B	179	PHE	3.4
1	B	168	LEU	3.4
1	D	170	ASN	3.2
1	D	220	SER	3.1
1	B	181	GLN	3.1
1	D	237	THR	3.0
1	D	208	GLU	2.9
1	D	209	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	180	GLN	2.8
1	D	154	TRP	2.8
1	A	207	VAL	2.8
1	A	136	ILE	2.8
1	A	161	PHE	2.7
1	B	188	GLN	2.7
1	C	147	PHE	2.7
1	C	171	LEU	2.6
1	B	184	ILE	2.6
1	C	154	TRP	2.6
1	C	214	LEU	2.5
1	B	163	GLU	2.5
1	C	132	GLN	2.5
1	D	200	PHE	2.4
1	B	196	ILE	2.4
1	B	183	ARG	2.4
1	A	133	GLN	2.4
1	D	207	VAL	2.4
1	D	195	GLN	2.3
1	C	207	VAL	2.3
1	A	222	LEU	2.3
1	C	157	ASP	2.3
1	C	114	THR	2.2
1	D	151	LEU	2.2
1	C	139	LEU	2.2
1	A	153	GLN	2.2
1	A	147	PHE	2.2
1	B	170	ASN	2.2
1	C	137	GLN	2.2
1	B	120	ALA	2.2
1	C	173	ARG	2.1
1	C	172	PHE	2.1
1	C	192	ALA	2.1
1	C	127	GLN	2.1
1	A	118	PHE	2.1
1	D	161	PHE	2.1
1	D	132	GLN	2.1
1	D	201	ILE	2.1
1	D	145	GLN	2.1
1	B	197	HIS	2.0
1	D	171	LEU	2.0
1	D	185	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
1	D	199	GLN	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.