



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 31, 2016 – 08:12 PM GMT

PDB ID : 1JBY
Title : CRYSTAL STRUCTURE ANALYSIS OF A DUAL-WAVELENGTH EMISSION GREEN FLUORESCENT PROTEIN VARIANT AT LOW PH
Authors : Hanson, G.T.; McAnaney, T.B.; Park, E.S.; Rendell, M.E.P.; Yarbrough, D.K.; Chu, S.; Xi, L.; Boxer, S.G.; Montrose, M.H.; Remington, S.J.
Deposited on : 2001-06-07
Resolution : 1.80 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

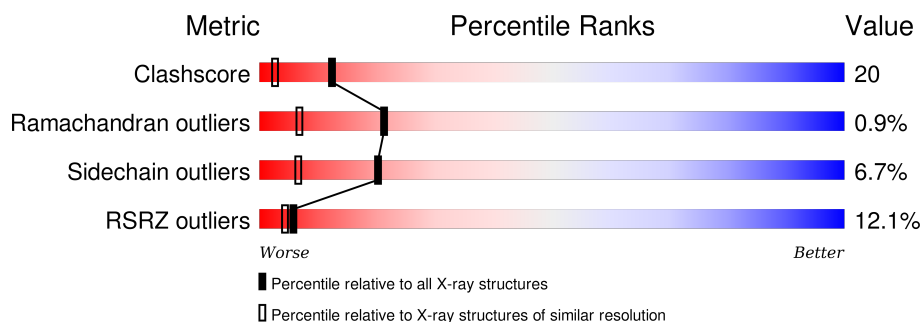
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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))
Clashscore	102246	5383 (1.80-1.80)
Ramachandran outliers	100387	5320 (1.80-1.80)
Sidechain outliers	100360	5319 (1.80-1.80)
RSRZ outliers	91569	4547 (1.80-1.80)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	236	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 1857 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 GREEN FLUORESCENT PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	224	Total	C	N	O	S	0	0	0
			1743	1114	288	334	7			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	66	CRO	SER	CHROMOPHORE	UNP P42212
A	66	CRO	TYR	CHROMOPHORE	UNP P42212
A	66	CRO	GLY	CHROMOPHORE	UNP P42212
A	80	ARG	GLN	ENGINEERED	UNP P42212
A	148	GLY	HIS	ENGINEERED	UNP P42212
A	203	CYS	THR	ENGINEERED	UNP P42212

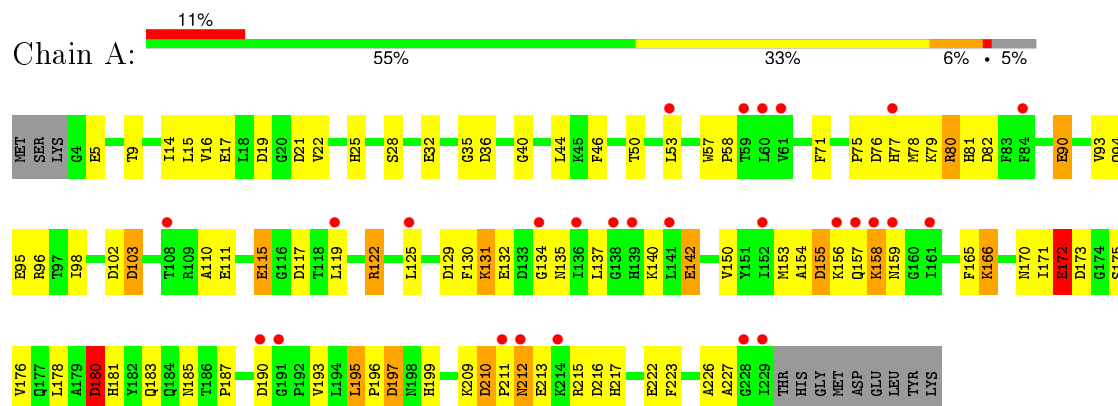
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	114	Total	O	0	0
			114	114		

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: GREEN FLUORESCENT PROTEIN



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	50.95Å 62.24Å 67.20Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.50 – 1.80 19.48 – 1.80	Depositor EDS
% Data completeness (in resolution range)	(Not available) (19.50-1.80) 92.5 (19.48-1.80)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.20 (at 1.80Å)	Xtriage
Refinement program	TNT	Depositor
R, R_{free}	0.194 , (Not available) 0.188 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	23.9	Xtriage
Anisotropy	0.954	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 85.1	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Outliers	0 of 18853 reflections	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	1857	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.57% 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, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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	0.97	10/1761 (0.6%)	1.30	27/2387 (1.1%)

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	132	GLU	CD-OE2	7.47	1.33	1.25
1	A	172	GLU	CD-OE2	6.25	1.32	1.25
1	A	111	GLU	CD-OE2	6.15	1.32	1.25
1	A	142	GLU	CD-OE2	6.01	1.32	1.25
1	A	90	GLU	CD-OE2	5.51	1.31	1.25
1	A	5	GLU	CD-OE2	5.47	1.31	1.25
1	A	95	GLU	CD-OE2	5.34	1.31	1.25
1	A	32	GLU	CD-OE2	5.07	1.31	1.25
1	A	222	GLU	CD-OE1	-5.04	1.20	1.25
1	A	115	GLU	CD-OE2	5.03	1.31	1.25

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	216	ASP	CB-CG-OD2	-8.51	110.64	118.30
1	A	82	ASP	CB-CG-OD2	-7.73	111.34	118.30
1	A	21	ASP	CB-CG-OD1	7.54	125.09	118.30
1	A	173	ASP	CB-CG-OD1	7.02	124.62	118.30
1	A	21	ASP	CB-CG-OD2	-6.87	112.11	118.30
1	A	155	ASP	CB-CG-OD2	-6.69	112.28	118.30
1	A	117	ASP	CB-CG-OD2	-6.56	112.40	118.30
1	A	173	ASP	CB-CG-OD2	-6.50	112.45	118.30
1	A	197	ASP	CB-CG-OD1	6.49	124.14	118.30
1	A	19	ASP	CB-CG-OD2	-6.41	112.53	118.30
1	A	197	ASP	CB-CG-OD2	-6.28	112.65	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	117	ASP	CB-CG-OD1	6.19	123.87	118.30
1	A	190	ASP	CB-CG-OD2	-6.06	112.85	118.30
1	A	129	ASP	CB-CG-OD2	-5.99	112.91	118.30
1	A	216	ASP	CB-CG-OD1	5.97	123.67	118.30
1	A	36	ASP	CB-CG-OD2	-5.96	112.94	118.30
1	A	76	ASP	CB-CG-OD2	-5.78	113.10	118.30
1	A	180	ASP	CB-CG-OD2	-5.78	113.10	118.30
1	A	122	ARG	NE-CZ-NH1	5.76	123.18	120.30
1	A	19	ASP	CB-CG-OD1	5.75	123.47	118.30
1	A	82	ASP	CB-CG-OD1	5.60	123.34	118.30
1	A	103	ASP	CB-CG-OD2	-5.55	113.31	118.30
1	A	129	ASP	CB-CG-OD1	5.50	123.25	118.30
1	A	102	ASP	CB-CG-OD2	-5.45	113.39	118.30
1	A	190	ASP	CB-CG-OD1	5.37	123.13	118.30
1	A	80	ARG	NE-CZ-NH1	5.26	122.93	120.30
1	A	103	ASP	CB-CG-OD1	5.13	122.92	118.30

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	1743	0	1629	66	0
2	A	114	0	0	3	0
All	All	1857	0	1629	66	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 20.

All (66) 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:166:LYS:HG2	1:A:178:LEU:HD11	1.28	1.11
1:A:75:PRO:HG2	1:A:78:MET:HE2	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:212:ASN:N	1:A:212:ASN:ND2	2.30	0.79
1:A:212:ASN:HD22	1:A:212:ASN:N	1.83	0.75
1:A:15:LEU:HD11	1:A:17:GLU:OE2	1.87	0.74
1:A:78:MET:HE3	1:A:226:ALA:O	1.89	0.73
1:A:75:PRO:HB2	1:A:77:HIS:CE1	2.23	0.73
1:A:166:LYS:HG3	1:A:180:ASP:OD1	1.91	0.70
1:A:212:ASN:HD22	1:A:212:ASN:H	1.38	0.70
1:A:140:LYS:O	1:A:172:GLU:HG3	1.91	0.70
1:A:94:GLN:HB2	1:A:185:ASN:ND2	2.07	0.69
1:A:75:PRO:HG2	1:A:78:MET:CE	2.22	0.67
1:A:210:ASP:OD1	1:A:213:GLU:HB2	1.96	0.65
1:A:171:ILE:HD12	1:A:176:VAL:N	2.13	0.63
1:A:211:PRO:HG2	1:A:212:ASN:HD21	1.63	0.63
1:A:156:LYS:O	1:A:158:LYS:N	2.29	0.60
1:A:94:GLN:HB2	1:A:185:ASN:HD21	1.68	0.57
1:A:166:LYS:HE3	1:A:180:ASP:OD1	2.04	0.56
1:A:187:PRO:HG3	1:A:193:VAL:HG11	1.88	0.55
1:A:90:GLU:CD	1:A:90:GLU:H	2.11	0.54
1:A:211:PRO:HG2	1:A:212:ASN:ND2	2.24	0.52
1:A:96:ARG:HG2	1:A:183:GLN:HB2	1.91	0.52
1:A:154:ALA:HB2	1:A:196:PRO:O	2.08	0.52
1:A:78:MET:HE1	1:A:227:ALA:HA	1.91	0.52
1:A:40:GLY:O	1:A:223:PHE:HA	2.10	0.51
1:A:125:LEU:C	1:A:125:LEU:HD23	2.31	0.51
1:A:80:ARG:HB3	2:A:380:HOH:O	2.11	0.51
1:A:158:LYS:O	1:A:159:ASN:C	2.48	0.49
1:A:78:MET:O	1:A:79:LYS:C	2.47	0.49
1:A:135:ASN:HA	1:A:140:LYS:HD2	1.95	0.49
1:A:35:GLY:HA3	1:A:71:PHE:CD1	2.47	0.49
1:A:171:ILE:HD12	1:A:175:SER:HB3	1.95	0.49
1:A:210:ASP:OD2	1:A:211:PRO:HD2	2.12	0.48
1:A:142:GLU:OE1	1:A:170:ASN:HB3	2.12	0.48
1:A:22:VAL:O	1:A:25:HIS:HB2	2.12	0.48
1:A:134:GLY:HA3	2:A:321:HOH:O	2.13	0.48
1:A:35:GLY:HA3	1:A:71:PHE:CE1	2.48	0.48
1:A:171:ILE:HD12	1:A:175:SER:C	2.34	0.47
1:A:46:PHE:O	1:A:217:HIS:HB2	2.15	0.47
1:A:57:TRP:CZ2	1:A:217:HIS:HA	2.50	0.47
1:A:14:ILE:HG22	1:A:15:LEU:N	2.30	0.46
1:A:210:ASP:HA	1:A:211:PRO:HD3	1.70	0.46
1:A:75:PRO:HB2	1:A:77:HIS:ND1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:213:GLU:OE2	1:A:215:ARG:HB2	2.16	0.46
1:A:115:GLU:OE2	1:A:122:ARG:NH2	2.49	0.46
1:A:110:ALA:HA	1:A:122:ARG:O	2.16	0.45
1:A:78:MET:CE	1:A:227:ALA:HA	2.47	0.45
1:A:103:ASP:OD1	1:A:130:PHE:HA	2.17	0.44
1:A:81:HIS:CE1	1:A:197:ASP:HB2	2.53	0.44
1:A:75:PRO:HA	2:A:312:HOH:O	2.18	0.43
1:A:193:VAL:HG23	1:A:195:LEU:HD23	1.99	0.43
1:A:211:PRO:HD2	1:A:212:ASN:HD22	1.83	0.43
1:A:211:PRO:CG	1:A:212:ASN:ND2	2.81	0.43
1:A:119:LEU:C	1:A:119:LEU:HD13	2.39	0.42
1:A:75:PRO:CB	1:A:77:HIS:CE1	2.99	0.42
1:A:199:HIS:HB2	1:A:227:ALA:O	2.19	0.42
1:A:57:TRP:N	1:A:58:PRO:CD	2.83	0.42
1:A:53:LEU:HD22	1:A:57:TRP:CD2	2.55	0.42
1:A:131:LYS:O	1:A:137:LEU:HB2	2.20	0.42
1:A:15:LEU:HD12	1:A:16:VAL:N	2.35	0.41
1:A:172:GLU:H	1:A:172:GLU:HG3	1.52	0.41
1:A:150:VAL:HG22	1:A:165:PHE:CG	2.55	0.41
1:A:94:GLN:CB	1:A:185:ASN:ND2	2.79	0.41
1:A:98:ILE:HD13	1:A:181:HIS:NE2	2.34	0.41
1:A:93:VAL:HG12	1:A:94:GLN:N	2.35	0.41
1:A:28:SER:HB2	1:A:50:THR:HG23	2.03	0.41

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	219/236 (93%)	207 (94%)	10 (5%)	2 (1%)	21 7

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	158	LYS
1	A	157	GLN

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	179/205 (87%)	167 (93%)	12 (7%)	20 6

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

Mol	Chain	Res	Type
1	A	9	THR
1	A	44	LEU
1	A	131	LYS
1	A	153	MET
1	A	155	ASP
1	A	166	LYS
1	A	172	GLU
1	A	180	ASP
1	A	195	LEU
1	A	209	LYS
1	A	210	ASP
1	A	212	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	149	ASN
1	A	164	ASN
1	A	170	ASN
1	A	212	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue is modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	CRO	A	66	1	23,23,24	2.26	10 (43%)	29,32,34	1.84	9 (31%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CRO	A	66	1	-	0/12/31/32	0/2/2/2

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	66	CRO	CA3-N3	-4.32	1.40	1.47
1	A	66	CRO	OH-CZ	-4.01	1.27	1.37
1	A	66	CRO	CG2-CB2	-3.70	1.39	1.46
1	A	66	CRO	CA1-C1	-2.79	1.47	1.51
1	A	66	CRO	CD2-CE2	-2.29	1.34	1.38
1	A	66	CRO	CD1-CG2	2.20	1.43	1.39
1	A	66	CRO	CE2-CZ	2.44	1.43	1.38
1	A	66	CRO	CA2-C2	2.54	1.51	1.48
1	A	66	CRO	CE1-CZ	2.96	1.44	1.38
1	A	66	CRO	CB2-CA2	4.20	1.38	1.35

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	66	CRO	CE2-CZ-CE1	-3.73	114.47	119.79
1	A	66	CRO	CD2-CG2-CD1	-2.11	114.42	117.64
1	A	66	CRO	CD1-CE1-CZ	2.10	122.30	119.87
1	A	66	CRO	CE2-CD2-CG2	2.11	123.92	121.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	66	CRO	CD2-CE2-CZ	2.13	122.33	119.87
1	A	66	CRO	C3-CA3-N3	2.14	117.70	113.00
1	A	66	CRO	CG2-CB2-CA2	2.92	134.00	130.22
1	A	66	CRO	N3-C1-N2	3.87	114.54	111.56
1	A	66	CRO	O2-C2-CA2	4.49	133.37	130.95

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no carbohydrates 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

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, 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	223/236 (94%)	0.84	27 (12%) 6 4	24, 38, 60, 95	0

All (27) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	190	ASP	4.8
1	A	211	PRO	4.8
1	A	229	ILE	4.1
1	A	212	ASN	3.9
1	A	77	HIS	3.3
1	A	60	LEU	3.2
1	A	136	ILE	3.1
1	A	191	GLY	3.1
1	A	156	LYS	2.8
1	A	228	GLY	2.7
1	A	59	THR	2.6
1	A	139	HIS	2.6
1	A	53	LEU	2.5
1	A	108	THR	2.5
1	A	61	VAL	2.5
1	A	84	PHE	2.4
1	A	134	GLY	2.4
1	A	138	GLY	2.4
1	A	157	GLN	2.4
1	A	159	ASN	2.3
1	A	161	ILE	2.3
1	A	125	LEU	2.3
1	A	152	ILE	2.2
1	A	141	LEU	2.2
1	A	158	LYS	2.2
1	A	119	LEU	2.1
1	A	214	LYS	2.1

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
1	CRO	A	66	22/23	0.90	0.13	-	23,29,33,52	0

6.3 Carbohydrates [i](#)

There are no carbohydrates 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.