



# Full wwPDB X-ray Structure Validation Report ⓘ

Nov 21, 2023 – 06:40 AM JST

PDB ID : 7F3I  
Title : Crystal structure of human YBX2 CSD in complex with m5C RNA in space group P212121  
Authors : Zhang, Y.; Huang, Y.  
Deposited on : 2021-06-16  
Resolution : 2.25 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](mailto: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 : 4.02b-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

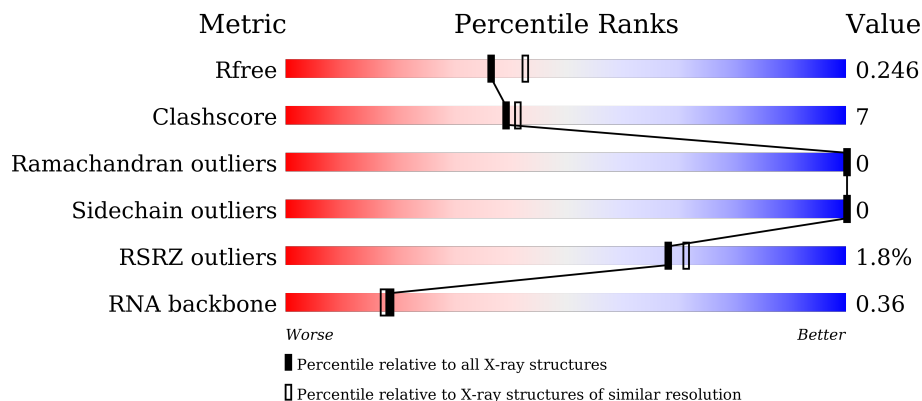
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.25 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	1377 (2.26-2.26)
Clashscore	141614	1487 (2.26-2.26)
Ramachandran outliers	138981	1449 (2.26-2.26)
Sidechain outliers	138945	1450 (2.26-2.26)
RSRZ outliers	127900	1356 (2.26-2.26)
RNA backbone	3102	1016 (2.66-1.86)

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  $\geq 3$ , 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	93	 87% 13%
1	C	93	 87% 10% 3%
1	E	93	 83% 15% 2%
2	B	5	 20% 40% 40%

Continued on next page...

*Continued from previous page...*

Mol	Chain	Length	Quality of chain
2	D	5	 40% 40% 20%

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 2482 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 Y-box-binding protein 2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
1	A	93	720	451	134	135	0	0	0
1	C	91	708	444	132	132	0	0	0
1	E	91	708	444	132	132	0	0	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	92	THR	ILE	engineered mutation	UNP Q9Y2T7
A	93	LYS	GLN	engineered mutation	UNP Q9Y2T7
C	92	THR	ILE	engineered mutation	UNP Q9Y2T7
C	93	LYS	GLN	engineered mutation	UNP Q9Y2T7
E	92	THR	ILE	engineered mutation	UNP Q9Y2T7
E	93	LYS	GLN	engineered mutation	UNP Q9Y2T7

- Molecule 2 is a RNA chain called RNA (5'-R(\*GP\*UP\*(5MC)P\*CP\*(5MC))-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	B	5	102	48	15	35	4	0	0	0
2	D	5	102	48	15	35	4	0	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	54	Total	O	0	0
			54	54		
3	B	4	Total	O	0	0
			4	4		

*Continued on next page...*

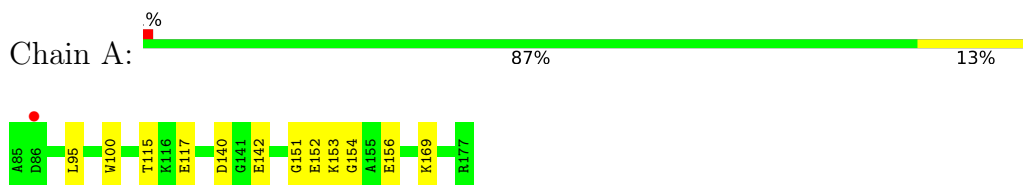
*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>		<b>ZeroOcc</b>	<b>AltConf</b>
3	C	31	Total 31	O 31	0	0
3	D	8	Total 8	O 8	0	0
3	E	45	Total 45	O 45	0	0

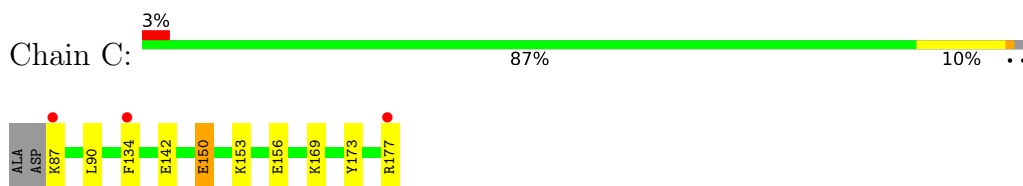
### 3 Residue-property plots [i](#)

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.

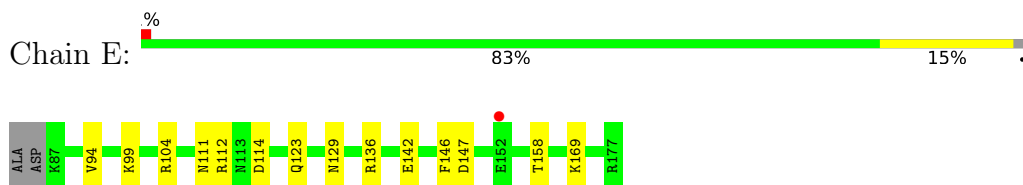
- Molecule 1: Y-box-binding protein 2



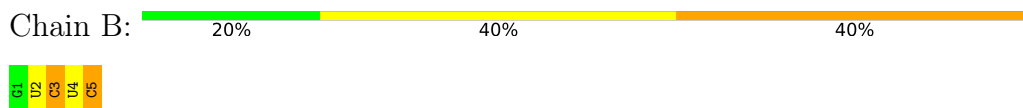
- Molecule 1: Y-box-binding protein 2



- Molecule 1: Y-box-binding protein 2



- Molecule 2: RNA (5'-R(\*GP\*UP\*(5MC)P\*CP\*(5MC))-3')



- Molecule 2: RNA (5'-R(\*GP\*UP\*(5MC)P\*CP\*(5MC))-3')



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	43.53Å 59.35Å 118.62Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.67 – 2.25 29.67 – 2.25	Depositor EDS
% Data completeness (in resolution range)	99.0 (29.67-2.25) 98.6 (29.67-2.25)	Depositor EDS
$R_{merge}$	0.12	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.71 (at 2.26Å)	Xtrriage
Refinement program	PHENIX 1.18.2_3874	Depositor
R, $R_{free}$	0.185 , 0.246 0.185 , 0.246	Depositor DCC
$R_{free}$ test set	1500 reflections (10.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	29.3	Xtrriage
Anisotropy	0.020	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.38 , 43.6	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.47$ , $\langle L^2 \rangle = 0.29$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	2482	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	31.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.20% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 5MC

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	0.47	0/734	0.69	1/992 (0.1%)
1	C	0.48	0/722	0.66	1/974 (0.1%)
1	E	0.51	0/722	0.68	0/974
2	B	0.82	0/66	1.40	0/101
2	D	0.77	0/66	1.78	3/101 (3.0%)
All	All	0.51	0/2310	0.77	5/3142 (0.2%)

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	4	U	O5'-P-OP1	-7.43	99.01	105.70
2	D	3	5MC	P-O3'-C3'	7.20	128.34	119.70
1	A	152	GLU	CA-CB-CG	5.73	126.02	113.40
2	D	3	5MC	OP2-P-O3'	5.31	116.88	105.20
1	C	150	GLU	CA-CB-CG	-5.19	101.98	113.40

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	720	0	715	8	0

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	708	0	706	9	0
1	E	708	0	704	16	0
2	B	102	0	59	3	0
2	D	102	0	58	4	0
3	A	54	0	0	2	0
3	B	4	0	0	2	0
3	C	31	0	0	2	0
3	D	8	0	0	1	0
3	E	45	0	0	3	0
All	All	2482	0	2242	34	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 7.

All (34) 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:E:123:GLN:NE2	3:E:201:HOH:O	1.82	1.13
1:E:136:ARG:NH1	3:E:202:HOH:O	1.86	1.07
1:E:112:ARG:HD2	1:E:114:ASP:OD1	1.79	0.83
1:A:156:GLU:OE2	3:A:201:HOH:O	2.06	0.74
2:D:1:G:O5'	3:D:101:HOH:O	2.05	0.70
2:B:4:U:OP1	3:B:101:HOH:O	2.10	0.70
1:C:153:LYS:NZ	2:D:2:U:OP2	2.21	0.68
1:C:87:LYS:NZ	3:C:202:HOH:O	2.20	0.64
1:C:150:GLU:OE1	3:C:201:HOH:O	2.15	0.63
1:E:142:GLU:OE2	1:E:169:LYS:N	2.25	0.59
1:E:129:ASN:ND2	1:E:136:ARG:HD2	2.20	0.57
1:E:147:ASP:HB2	1:E:158:THR:HG22	1.87	0.56
1:C:142:GLU:OE2	1:C:169:LYS:N	2.22	0.53
2:B:3:5MC:H3'	3:B:101:HOH:O	2.10	0.51
1:E:123:GLN:HG2	1:E:136:ARG:HB2	1.94	0.50
1:E:99:LYS:HD2	1:E:111:ASN:HB2	1.93	0.50
1:E:129:ASN:HD22	1:E:136:ARG:HH11	1.60	0.48
2:D:4:U:OP2	1:E:104:ARG:NH1	2.46	0.48
1:A:115:THR:OG1	1:A:117:GLU:HG2	2.14	0.48
1:C:156:GLU:OE1	2:D:1:G:N2	2.49	0.46
1:A:142:GLU:HG2	3:A:203:HOH:O	2.16	0.45
1:A:95:LEU:HD23	1:A:95:LEU:HA	1.66	0.44
1:E:129:ASN:HB3	3:E:232:HOH:O	2.18	0.43
1:E:114:ASP:OD1	1:E:114:ASP:N	2.40	0.42

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:151:GLY:N	1:A:154:GLY:O	2.51	0.42
1:A:153:LYS:HE3	2:B:2:U:OP2	2.20	0.42
1:C:134:PHE:HD1	1:C:177:ARG:HH21	1.68	0.41
1:E:147:ASP:HB2	1:E:158:THR:CG2	2.48	0.41
1:A:100:TRP:HA	1:A:140:ASP:OD1	2.20	0.41
1:A:142:GLU:OE2	1:A:169:LYS:N	2.35	0.41
1:C:173:TYR:HE1	1:E:123:GLN:OE1	2.03	0.41
1:C:90:LEU:HD11	1:C:150:GLU:HB2	2.02	0.41
1:C:173:TYR:CE1	1:E:123:GLN:OE1	2.74	0.41
1:E:94:VAL:HG22	1:E:146:PHE:O	2.21	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	91/93 (98%)	90 (99%)	1 (1%)	0	100	100
1	C	89/93 (96%)	89 (100%)	0	0	100	100
1	E	89/93 (96%)	89 (100%)	0	0	100	100
All	All	269/279 (96%)	268 (100%)	1 (0%)	0	100	100

There are no Ramachandran outliers to report.

### 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	76/76 (100%)	76 (100%)	0	100	100
1	C	75/76 (99%)	75 (100%)	0	100	100
1	E	75/76 (99%)	75 (100%)	0	100	100
All	All	226/228 (99%)	226 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	E	129	ASN

### 5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	B	4/5 (80%)	1 (25%)	0
2	D	4/5 (80%)	2 (50%)	1 (25%)
All	All	8/10 (80%)	3 (37%)	1 (12%)

All (3) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
2	B	5	5MC
2	D	4	U
2	D	5	5MC

All (1) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
2	D	3	5MC

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

4 non-standard protein/DNA/RNA residues are 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
2	5MC	B	5	2	18,22,23	2.82	6 (33%)	26,32,35	1.72	5 (19%)
2	5MC	D	5	2	18,22,23	2.57	5 (27%)	26,32,35	1.29	3 (11%)
2	5MC	D	3	2	18,22,23	2.89	6 (33%)	26,32,35	1.32	5 (19%)
2	5MC	B	3	2	18,22,23	2.62	5 (27%)	26,32,35	1.36	3 (11%)

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
2	5MC	B	5	2	-	1/7/25/26	0/2/2/2
2	5MC	D	5	2	-	2/7/25/26	0/2/2/2
2	5MC	D	3	2	-	2/7/25/26	0/2/2/2
2	5MC	B	3	2	-	0/7/25/26	0/2/2/2

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	5	5MC	C6-C5	8.71	1.48	1.34
2	D	3	5MC	C6-C5	8.37	1.48	1.34
2	B	3	5MC	C6-C5	8.27	1.48	1.34
2	D	5	5MC	C6-C5	7.63	1.47	1.34
2	D	3	5MC	C2-N3	5.63	1.47	1.36
2	D	5	5MC	C2-N3	4.99	1.46	1.36
2	B	5	5MC	C2-N3	4.92	1.46	1.36
2	D	3	5MC	C4-N3	4.35	1.41	1.34
2	B	5	5MC	C4-N3	4.33	1.41	1.34
2	B	3	5MC	C2-N3	4.30	1.45	1.36
2	D	5	5MC	C4-N3	4.14	1.41	1.34
2	B	3	5MC	C4-N3	3.79	1.40	1.34
2	D	3	5MC	C4-N4	3.02	1.41	1.34
2	B	5	5MC	C2-N1	3.00	1.46	1.40
2	D	3	5MC	C2-N1	2.93	1.46	1.40
2	B	5	5MC	C4-N4	2.89	1.41	1.34
2	B	3	5MC	C2-N1	2.77	1.46	1.40
2	D	5	5MC	C2-N1	2.70	1.45	1.40
2	D	3	5MC	C6-N1	2.58	1.42	1.38

*Continued on next page...*

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	3	5MC	C4-N4	2.47	1.40	1.34
2	D	5	5MC	C4-N4	2.32	1.40	1.34
2	B	5	5MC	C6-N1	2.14	1.41	1.38

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	5	5MC	C5-C6-N1	-5.52	117.66	123.34
2	B	3	5MC	C5-C6-N1	-5.29	117.89	123.34
2	D	5	5MC	C5-C6-N1	-4.14	119.08	123.34
2	D	3	5MC	C5-C6-N1	-2.69	120.57	123.34
2	B	5	5MC	C1'-N1-C6	2.50	125.30	121.12
2	B	5	5MC	C1'-N1-C2	-2.37	113.14	118.42
2	B	3	5MC	CM5-C5-C6	-2.35	119.72	122.85
2	D	3	5MC	O2-C2-N3	-2.34	118.52	122.33
2	D	3	5MC	C6-N1-C2	-2.31	117.67	120.87
2	B	5	5MC	O4'-C1'-N1	-2.31	103.09	108.36
2	D	3	5MC	CM5-C5-C6	-2.25	119.84	122.85
2	D	5	5MC	C1'-N1-C6	-2.24	117.39	121.12
2	B	3	5MC	O2-C2-N3	-2.24	118.70	122.33
2	B	5	5MC	CM5-C5-C6	-2.11	120.03	122.85
2	D	3	5MC	N1-C2-N3	2.02	122.49	118.81
2	D	5	5MC	CM5-C5-C6	-2.01	120.17	122.85

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	D	3	5MC	O4'-C4'-C5'-O5'
2	D	3	5MC	C3'-C4'-C5'-O5'
2	B	5	5MC	C3'-C4'-C5'-O5'
2	D	5	5MC	C2'-C1'-N1-C6
2	D	5	5MC	O4'-C1'-N1-C6

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	3	5MC	1	0

## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	93/93 (100%)	-0.32	1 (1%) 80 82	20, 25, 44, 63	0
1	C	91/93 (97%)	-0.01	3 (3%) 46 48	22, 30, 48, 56	0
1	E	91/93 (97%)	-0.25	1 (1%) 80 82	20, 27, 37, 57	0
2	B	3/5 (60%)	-0.28	0 100 100	34, 34, 49, 49	0
2	D	3/5 (60%)	-0.10	0 100 100	33, 33, 49, 51	0
All	All	281/289 (97%)	-0.19	5 (1%) 68 71	20, 28, 46, 63	0

All (5) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	134	PHE	4.3
1	A	86	ASP	3.0
1	C	87	LYS	2.9
1	E	152	GLU	2.9
1	C	177	ARG	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. The B-factors column lists the minimum, median, 95<sup>th</sup> 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	B-factors(Å <sup>2</sup> )	Q<0.9
2	5MC	B	5	21/22	0.81	0.15	28,36,46,50	0
2	5MC	D	3	21/22	0.86	0.18	31,41,57,59	0
2	5MC	D	5	21/22	0.88	0.23	25,35,46,50	0
2	5MC	B	3	21/22	0.95	0.12	25,34,50,52	0

### 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.