



# Full wwPDB X-ray Structure Validation Report i

Jul 3, 2024 – 08:37 pm BST

PDB ID : 7PV5  
Title : RBD domain of D. melanogaster tRNA (uracil-5)-methyltransferase homolog A (TRMT2A)  
Authors : Witzenberger, M.; Janowski, R.; Niessing, D.  
Deposited on : 2021-10-01  
Resolution : 1.60 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 i symbol.

The types of validation reports are described at  
<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4.02b-467  
Mogul : 1.8.4, CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
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

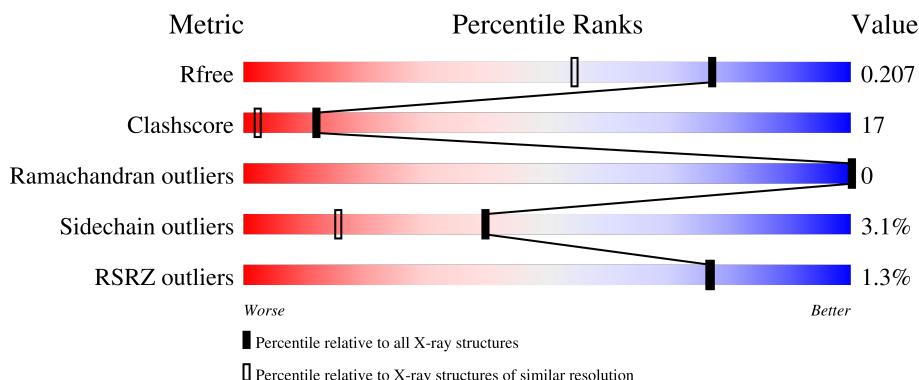
# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:

## X-RAY DIFFRACTION

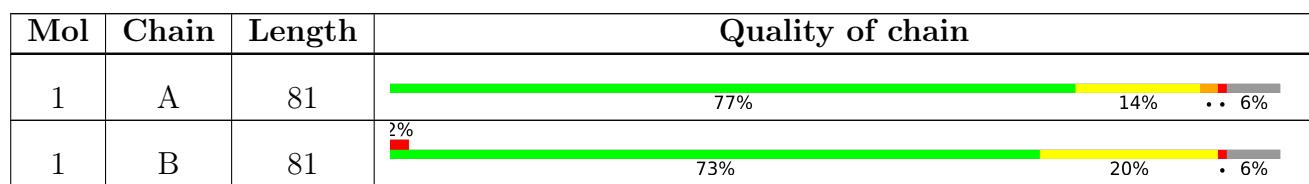
The reported resolution of this entry is 1.60 Å.

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	3398 (1.60-1.60)
Clashscore	141614	3665 (1.60-1.60)
Ramachandran outliers	138981	3564 (1.60-1.60)
Sidechain outliers	138945	3563 (1.60-1.60)
RSRZ outliers	127900	3321 (1.60-1.60)

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.



The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	CL	A	217	-	-	X	-
3	CL	A	219	-	-	X	-
3	CL	B	220	-	-	X	-
4	NA	B	226	-	-	-	X

## 2 Entry composition [\(i\)](#)

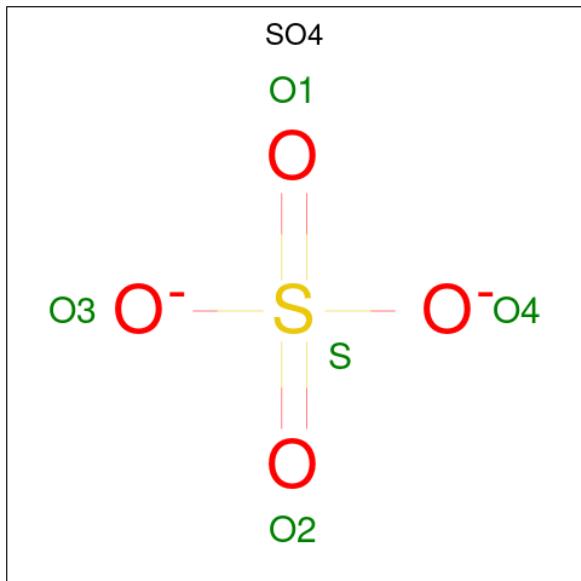
There are 5 unique types of molecules in this entry. The entry contains 1552 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 FI05218p.

Mol	Chain	Residues	Atoms							ZeroOcc	AltConf	Trace
1	A	76	Total	Au	C	Cl	N	O	S	0	5	1
			668	2	432	2	118	112	2			
1	B	76	Total	Au	C	Cl	N	O	S	0	5	0
			669	2	435	2	115	113	2			

- Molecule 2 is SULFATE ION (three-letter code: SO4) (formula: O<sub>4</sub>S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	O	S	0	0
			5	4	1		
2	B	1	Total	O	S	0	0
			5	4	1		

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	18	Total Cl 19 19	0	1
3	B	23	Total Cl 23 23	0	0

- Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	7	Total Na 7 7	0	0
4	B	9	Total Na 9 9	0	0

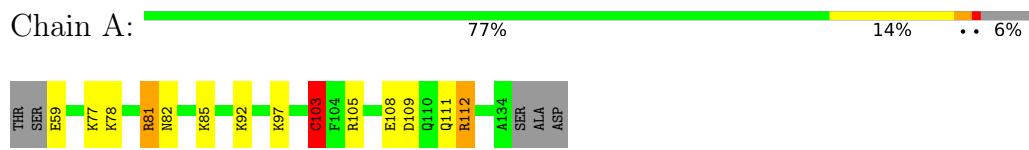
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	81	Total O 85 85	0	4
5	B	59	Total O 62 62	0	3

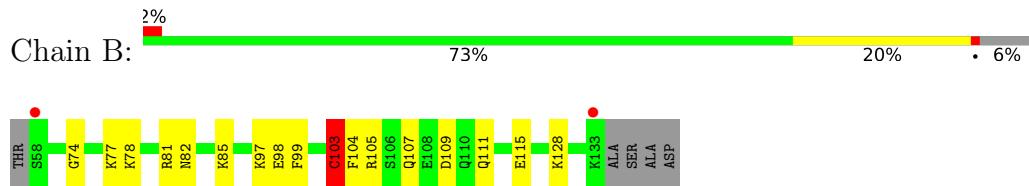
### 3 Residue-property plots [\(i\)](#)

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: FI05218p



- Molecule 1: FI05218p



## 4 Data and refinement statistics i

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	92.41Å    41.89Å    48.82Å 90.00°    110.80°    90.00°	Depositor
Resolution (Å)	45.64 – 1.60 45.64 – 1.60	Depositor EDS
% Data completeness (in resolution range)	99.9 (45.64-1.60) 99.9 (45.64-1.60)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) >$ <sup>1</sup>	3.36 (at 1.60Å)	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
$R$ , $R_{free}$	0.141 , 0.199 0.151 , 0.207	Depositor DCC
$R_{free}$ test set	1130 reflections (4.87%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	11.9	Xtriage
Anisotropy	1.025	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.38 , 59.9	EDS
L-test for twinning <sup>2</sup>	$<  L  > = 0.49$ , $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	1552	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	23.0	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 21.19 % 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 7.3962e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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

<sup>2</sup>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

Bond lengths and bond angles in the following residue types are not validated in this section: CL, 85L, SO4, NA

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).

<b>Mol</b>	<b>Chain</b>	<b>Bond lengths</b>		<b>Bond angles</b>	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.86	0/672	1.01	3/893 (0.3%)
1	B	0.84	0/676	0.88	0/897
All	All	0.85	0/1348	0.95	3/1790 (0.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

<b>Mol</b>	<b>Chain</b>	<b>#Chirality outliers</b>	<b>#Planarity outliers</b>
1	A	0	1
1	B	0	1
All	All	0	2

There are no bond length outliers.

All (3) bond angle outliers are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>	<b>Z</b>	<b>Observed(°)</b>	<b>Ideal(°)</b>
1	A	81[A]	ARG	NE-CZ-NH2	-5.19	117.70	120.30
1	A	81[B]	ARG	NE-CZ-NH2	-5.19	117.70	120.30
1	A	105	ARG	NE-CZ-NH1	5.03	122.82	120.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	A	103	85L	Mainchain
1	B	103	85L	Mainchain

## 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	668	0	687	27	0
1	B	669	0	693	24	0
2	A	5	0	0	0	0
2	B	5	0	0	1	0
3	A	19	0	0	10	0
3	B	23	0	0	7	0
4	A	7	0	0	0	0
4	B	9	0	0	0	0
5	A	85	0	0	5	0
5	B	62	0	0	7	0
All	All	1552	0	1380	48	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 17.

All (48) 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:108[A]:GLU:HG2	3:A:217:CL:CL	1.95	1.02
1:A:77:LYS:HD3	1:A:81[B]:ARG:NH1	1.81	0.94
1:A:112:ARG:NE	3:A:217:CL:CL	2.59	0.72
3:A:219:CL:CL	1:B:85[B]:LYS:NZ	2.61	0.68
1:A:78:LYS:HA	1:A:82[A]:ASN:HD22	1.60	0.66
1:B:74:GLY:O	1:B:78:LYS:HG3	1.94	0.66
1:A:77:LYS:CD	1:A:81[B]:ARG:NH1	2.58	0.66
1:B:77:LYS:HE2	3:B:216:CL:CL	2.34	0.65
1:B:103:85L:AU1	1:B:103:85L:SG	2.24	0.65
1:A:103:85L:AU1	1:A:103:85L:SG	2.26	0.64
1:A:112:ARG:CZ	3:A:217:CL:CL	2.82	0.64
1:A:103:85L:SG	1:A:103:85L:AU2	2.27	0.62
1:A:112:ARG:NH2	1:B:85[B]:LYS:HE3	2.15	0.62
3:B:220:CL:CL	5:B:346:HOH:O	2.52	0.61
3:B:205:CL:CL	3:B:219:CL:CL	2.93	0.60
1:A:111:GLN:NE2	5:A:301:HOH:O	2.23	0.60
1:A:112:ARG:CD	3:A:219:CL:CL	2.86	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:ASP:OD1	3:A:217:CL:CL	2.57	0.59
1:B:98[A]:GLU:OE2	1:B:99:PHE:HB3	2.01	0.59
1:A:112:ARG:HD3	3:A:219:CL:CL	2.40	0.58
1:A:77:LYS:NZ	5:A:302:HOH:O	2.37	0.57
1:B:105:ARG:NH1	5:B:304[A]:HOH:O	2.38	0.56
1:A:112:ARG:HH22	1:B:85[B]:LYS:HG2	1.71	0.56
1:A:112:ARG:HD2	3:A:219:CL:CL	2.43	0.55
1:B:128:LYS:NZ	5:B:303:HOH:O	2.35	0.55
1:A:77:LYS:HD3	1:A:81[B]:ARG:HH12	1.70	0.54
1:B:82:ASN:ND2	5:B:305:HOH:O	2.40	0.53
1:B:104:PHE:O	3:B:217:CL:CL	2.63	0.53
1:A:92:LYS:HG3	1:A:103:85L:CL1	2.47	0.51
1:A:112:ARG:NH2	1:B:82:ASN:O	2.44	0.51
1:A:82[B]:ASN:ND2	5:A:303:HOH:O	2.44	0.50
1:A:81[B]:ARG:O	1:A:85:LYS:HA	2.12	0.49
1:B:115[A]:GLU:CD	5:B:302:HOH:O	2.50	0.49
1:B:98[A]:GLU:HG2	1:B:98[A]:GLU:O	2.13	0.48
1:A:112:ARG:NH2	1:B:85[B]:LYS:HG2	2.29	0.48
1:A:78:LYS:NZ	5:A:304:HOH:O	2.47	0.47
1:A:112:ARG:HH22	1:B:85[A]:LYS:HG2	1.80	0.46
1:B:99:PHE:O	3:B:204:CL:CL	2.71	0.46
1:B:81:ARG:NH1	1:B:82:ASN:HD21	2.15	0.45
1:B:82:ASN:HB3	5:B:348:HOH:O	2.16	0.45
1:A:112:ARG:NH2	1:B:85[A]:LYS:CG	2.80	0.45
1:B:109:ASP:OD1	3:B:203:CL:CL	2.72	0.45
1:A:112:ARG:NH1	3:A:217:CL:CL	2.87	0.44
1:B:107:GLN:O	1:B:111[A]:GLN:HG2	2.16	0.44
3:A:204[B]:CL:CL	5:A:322:HOH:O	2.59	0.44
2:B:201:SO4:O1	3:B:220:CL:CL	2.73	0.43
1:A:112:ARG:NH2	1:B:85[B]:LYS:CG	2.82	0.43
1:B:105:ARG:HD3	5:B:345:HOH:O	2.20	0.41

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	78/81 (96%)	71 (91%)	7 (9%)	0	100 100
1	B	78/81 (96%)	74 (95%)	4 (5%)	0	100 100
All	All	156/162 (96%)	145 (93%)	11 (7%)	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	69/68 (102%)	66 (96%)	3 (4%)	29 9
1	B	70/68 (103%)	69 (99%)	1 (1%)	67 47
All	All	139/136 (102%)	135 (97%)	4 (3%)	40 18

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	59	GLU
1	A	97	LYS
1	A	112	ARG
1	B	97	LYS

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

Mol	Chain	Res	Type
1	A	110	GLN
1	B	82	ASN

### 5.3.3 RNA [\(i\)](#)

There are no RNA molecules in this entry.

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

2 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$
1	85L	A	103	1	7,9,10	2.69	1 (14%)	1,10,12	1.58	0
1	85L	B	103	1	7,9,10	3.39	1 (14%)	1,10,12	2.17	1 (100%)

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	85L	A	103	1	-	0/0/10/12	-
1	85L	B	103	1	-	0/0/10/12	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	103	85L	CB-SG	-8.64	1.63	1.83
1	A	103	85L	CB-SG	-7.00	1.67	1.83

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	103	85L	CA-CB-SG	2.17	120.21	111.46

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	103	85L	3	0
1	B	103	85L	1	0

## 5.5 Carbohydrates [\(i\)](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [\(i\)](#)

Of 60 ligands modelled in this entry, 58 are monoatomic - leaving 2 for Mogul analysis.

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	SO4	B	201	-	4,4,4	0.38	0	6,6,6	0.17	0
2	SO4	A	201	-	4,4,4	0.65	0	6,6,6	0.21	0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	201	SO4	1	0

## 5.7 Other polymers [\(i\)](#)

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 [\(i\)](#)

### 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	75/81 (92%)	0.07	0 [100] [100]	13, 18, 32, 60	1 (1%)
1	B	75/81 (92%)	0.17	2 (2%) 54 52	13, 18, 32, 61	0
All	All	150/162 (92%)	0.12	2 (1%) 77 77	13, 18, 32, 61	1 (0%)

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	133	LYS	2.9
1	B	58	SER	2.3

### 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
1	85L	A	103	10/11	1.00	0.07	13,17,23,40	0
1	85L	B	103	10/11	1.00	0.07	16,19,26,39	0

### 6.3 Carbohydrates [\(i\)](#)

There are no monosaccharides in this entry.

### 6.4 Ligands [\(i\)](#)

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
3	CL	A	217	1/1	0.36	0.32	34,34,34,34	0
4	NA	B	226	1/1	0.61	0.46	54,54,54,54	0
4	NA	A	220	1/1	0.75	0.13	43,43,43,43	0
3	CL	B	208	1/1	0.79	0.12	66,66,66,66	0
3	CL	B	218	1/1	0.81	0.18	55,55,55,55	0
3	CL	B	206	1/1	0.85	0.09	64,64,64,64	0
4	NA	B	231	1/1	0.85	0.14	49,49,49,49	0
3	CL	B	224	1/1	0.87	0.13	61,61,61,61	0
4	NA	B	232	1/1	0.87	0.11	49,49,49,49	0
3	CL	B	210	1/1	0.88	0.07	57,57,57,57	0
3	CL	B	216	1/1	0.88	0.17	35,35,35,35	0
4	NA	A	225	1/1	0.91	0.13	40,40,40,40	0
3	CL	A	219	1/1	0.91	0.08	48,48,48,48	0
4	NA	A	224	1/1	0.92	0.07	44,44,44,44	0
4	NA	A	223	1/1	0.92	0.08	50,50,50,50	0
4	NA	B	225	1/1	0.92	0.10	41,41,41,41	0
4	NA	B	229	1/1	0.93	0.08	51,51,51,51	0
3	CL	B	223	1/1	0.93	0.11	51,51,51,51	0
3	CL	A	207	1/1	0.93	0.15	58,58,58,58	0
4	NA	B	227	1/1	0.94	0.28	47,47,47,47	0
3	CL	B	222	1/1	0.94	0.08	51,51,51,51	0
3	CL	A	213	1/1	0.94	0.06	59,59,59,59	0
3	CL	A	205	1/1	0.94	0.09	49,49,49,49	0
3	CL	B	215	1/1	0.95	0.07	59,59,59,59	0
3	CL	A	204[A]	1/1	0.95	0.14	30,30,30,30	1
3	CL	B	217	1/1	0.95	0.17	42,42,42,42	0
4	NA	A	221	1/1	0.95	0.12	34,34,34,34	0
4	NA	B	228	1/1	0.95	0.10	58,58,58,58	0
4	NA	A	222	1/1	0.95	0.15	30,30,30,30	0
3	CL	A	204[B]	1/1	0.95	0.14	37,37,37,37	1
3	CL	A	210	1/1	0.95	0.13	44,44,44,44	0
3	CL	B	213	1/1	0.96	0.07	35,35,35,35	0
3	CL	B	214	1/1	0.96	0.12	61,61,61,61	0
4	NA	B	230	1/1	0.96	0.07	49,49,49,49	0
3	CL	B	207	1/1	0.96	0.10	50,50,50,50	0
3	CL	B	219	1/1	0.96	0.16	50,50,50,50	0
4	NA	B	233	1/1	0.96	0.12	54,54,54,54	0
3	CL	A	203	1/1	0.97	0.11	41,41,41,41	0
3	CL	B	221	1/1	0.97	0.07	45,45,45,45	0
3	CL	B	212	1/1	0.98	0.14	42,42,42,42	0
3	CL	A	211	1/1	0.98	0.13	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
3	CL	B	220	1/1	0.98	0.21	39,39,39,39	0
2	SO4	A	201	5/5	0.98	0.11	23,24,28,36	0
3	CL	A	214	1/1	0.98	0.05	45,45,45,45	0
3	CL	A	216	1/1	0.98	0.09	39,39,39,39	0
4	NA	A	226	1/1	0.98	0.09	43,43,43,43	0
2	SO4	B	201	5/5	0.98	0.11	25,28,31,31	0
3	CL	B	204	1/1	0.99	0.06	32,32,32,32	0
3	CL	B	205	1/1	0.99	0.14	44,44,44,44	0
3	CL	A	209	1/1	0.99	0.06	33,33,33,33	0
3	CL	A	218	1/1	0.99	0.09	43,43,43,43	0
3	CL	A	208	1/1	0.99	0.04	24,24,24,24	0
3	CL	B	209	1/1	0.99	0.06	23,23,23,23	0
3	CL	A	202	1/1	1.00	0.07	21,21,21,21	0
3	CL	A	215	1/1	1.00	0.06	21,21,21,21	0
3	CL	B	202	1/1	1.00	0.09	23,23,23,23	0
3	CL	B	203	1/1	1.00	0.12	24,24,24,24	0
3	CL	A	212	1/1	1.00	0.06	19,19,19,19	0
3	CL	B	211	1/1	1.00	0.08	15,15,15,15	0
3	CL	A	206	1/1	1.00	0.06	15,15,15,15	0

## 6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.