



# Full wwPDB X-ray Structure Validation Report ⓘ

May 17, 2020 – 08:25 am BST

PDB ID : 3PXP  
Title : Crystal structure of a PAS and DNA binding domain containing protein (Caur\_2278) from CHLOROFLEXUS AURANTIACUS J-10-FL at 2.30 Å resolution  
Authors : Joint Center for Structural Genomics (JCSG)  
Deposited on : 2010-12-10  
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](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.

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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	:	2.11
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)	:	2.11

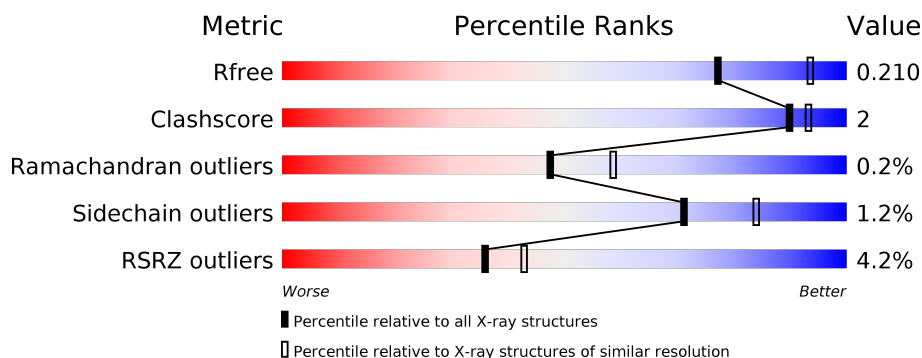
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 2.30 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 on 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	292	<div> <div>5%</div> <div> <div></div> <div>96%</div> <div></div> </div> <div></div> </div>
1	B	292	<div> <div>3%</div> <div> <div></div> <div>92%</div> <div>7%</div> </div> <div></div> </div>
1	C	292	<div> <div>4%</div> <div> <div></div> <div>95%</div> <div></div> </div> <div></div> </div>

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
4	EDO	B	312	-	-	-	X

## 2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 7917 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.

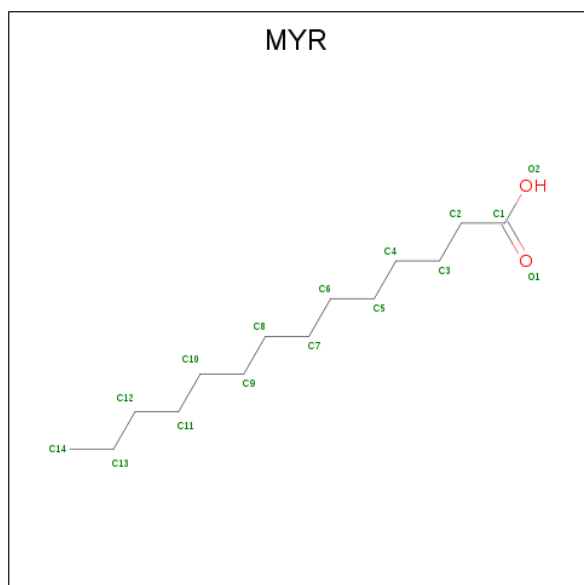
- Molecule 1 is a protein called Helix-turn-helix domain protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	292	Total	C	N	O	Se	0	7	0
			2423	1548	429	435	11			
1	B	289	Total	C	N	O	Se	0	5	0
			2384	1528	419	425	12			
1	C	289	Total	C	N	O	Se	0	7	0
			2406	1546	419	430	11			

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	GLY	-	leader sequence	UNP A9WGF5
B	0	GLY	-	leader sequence	UNP A9WGF5
C	0	GLY	-	leader sequence	UNP A9WGF5

- Molecule 2 is MYRISTIC ACID (three-letter code: MYR) (formula:  $C_{14}H_{28}O_2$ ).

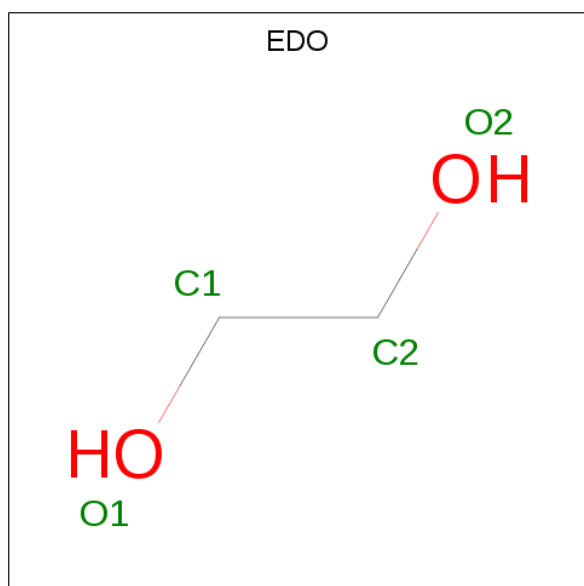


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			16	14	2		
2	B	1	Total	C	O	0	0
			16	14	2		
2	C	1	Total	C	O	0	0
			16	14	2		

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	1	Total	Cl	0	0
			1	1		
3	A	1	Total	Cl	0	0
			1	1		
3	C	3	Total	Cl	0	0
			3	3		

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	B	1	Total 4	C 2	O 2	0	0
4	B	1	Total 4	C 2	O 2	0	0
4	B	1	Total 4	C 2	O 2	0	0
4	C	1	Total 4	C 2	O 2	0	0
4	C	1	Total 4	C 2	O 2	0	0
4	C	1	Total 4	C 2	O 2	0	0

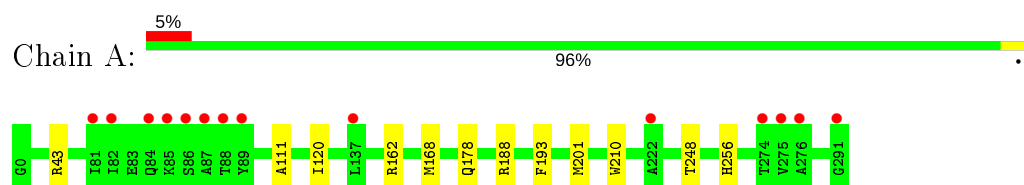
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	230	Total 231	O 231	0	1
5	B	194	Total 196	O 196	0	2
5	C	184	Total 184	O 184	0	0

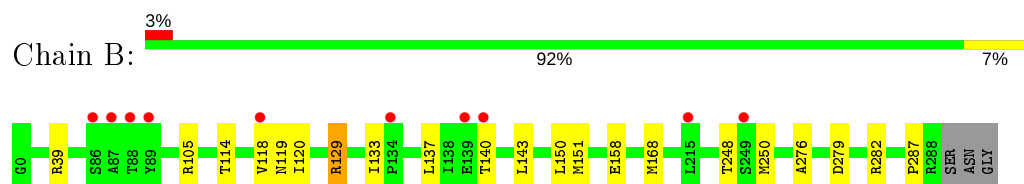
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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.

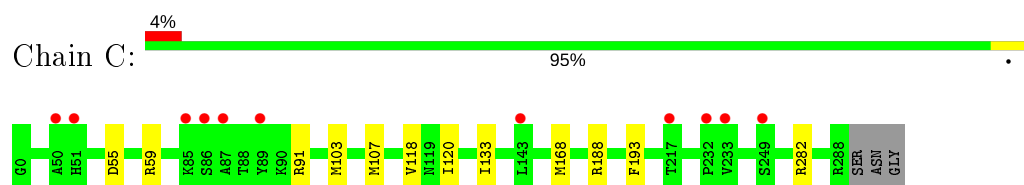
- Molecule 1: Helix-turn-helix domain protein



- Molecule 1: Helix-turn-helix domain protein



- Molecule 1: Helix-turn-helix domain protein



## 4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	228.81Å 83.57Å 54.52Å 90.00° 103.12° 90.00°	Depositor
Resolution (Å)	29.75 – 2.30 29.75 – 2.30	Depositor EDS
% Data completeness (in resolution range)	(Not available) (29.75-2.30) 99.4 (29.75-2.30)	Depositor EDS
$R_{merge}$	0.06	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.06 (at 2.31Å)	Xtriage
Refinement program	BUSTER-TNT BUSTER 2.8.0, BUSTER 2.8.0	Depositor
R, $R_{free}$	0.168 , 0.206 0.170 , 0.210	Depositor DCC
$R_{free}$ test set	2235 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	30.8	Xtriage
Anisotropy	0.155	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.32 , 52.4	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.024 for -h-2*k,l	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	7917	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.97% 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: MYR, EDO, CL

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	0.51	0/2489	0.60	0/3355
1	B	0.49	0/2443	0.59	0/3294
1	C	0.49	0/2471	0.58	0/3330
All	All	0.50	0/7403	0.59	0/9979

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	2423	0	2410	7	0
1	B	2384	0	2378	11	0
1	C	2406	0	2405	8	0
2	A	16	0	27	1	0
2	B	16	0	27	2	0
2	C	16	0	28	4	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	3	0	0	1	0
4	A	16	0	24	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	12	0	18	0	0
4	C	12	0	18	0	0
5	A	231	0	0	1	0
5	B	196	0	0	0	0
5	C	184	0	0	0	0
All	All	7917	0	7335	26	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 2.

All (26) 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:C:91:ARG:HD2	3:C:303:CL:CL	2.31	0.67
1:C:120:ILE:HD13	2:C:301:MYR:H72	1.79	0.65
1:C:133:ILE:HD12	2:C:301:MYR:H81	1.79	0.64
1:B:120:ILE:HD13	2:B:301:MYR:H71	1.80	0.63
1:B:133:ILE:HG13	2:B:301:MYR:H91	1.82	0.62
1:B:150:LEU:HD22	1:B:151:MSE:HE2	1.86	0.57
1:A:162:ARG:H	4:A:313:EDO:H21	1.70	0.57
1:A:201:MSE:HE1	1:A:210:TRP:CD1	2.41	0.56
1:B:150:LEU:HD22	1:B:151:MSE:CE	2.38	0.53
1:C:103:MSE:HG2	1:C:107:MSE:HE3	1.91	0.52
1:A:120:ILE:HD13	2:A:301:MYR:H72	1.93	0.50
1:C:133:ILE:CD1	2:C:301:MYR:H81	2.42	0.48
1:B:105:ARG:NH1	1:B:279:ASP:OD1	2.48	0.47
1:B:250:MSE:HB3	1:B:287:PRO:HB3	1.97	0.46
1:C:120:ILE:HD13	2:C:301:MYR:H92	1.99	0.45
1:B:140:THR:O	1:B:143[B]:LEU:HG	2.17	0.44
1:A:178:GLN:HG2	5:A:592:HOH:O	2.18	0.43
1:A:188:ARG:HD2	1:A:193:PHE:CE2	2.53	0.42
1:B:114:THR:HA	1:B:119:ASN:O	2.20	0.42
1:B:137:LEU:HD11	1:B:158:GLU:HB3	2.01	0.42
1:B:129:ARG:HG3	1:B:276:ALA:HB2	2.01	0.41
1:B:150:LEU:CD2	1:B:151:MSE:HE2	2.50	0.41
1:C:188:ARG:HD2	1:C:193:PHE:CE2	2.56	0.41
1:A:111:ALA:HA	1:A:256:HIS:O	2.21	0.40
1:C:55:ASP:O	1:C:59:ARG:HG3	2.21	0.40

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	297/292 (102%)	290 (98%)	7 (2%)	0	100	100
1	B	292/292 (100%)	289 (99%)	2 (1%)	1 (0%)	41	50
1	C	294/292 (101%)	291 (99%)	2 (1%)	1 (0%)	41	50
All	All	883/876 (101%)	870 (98%)	11 (1%)	2 (0%)	47	58

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	118	VAL
1	C	118	VAL

### 5.3.2 Protein sidechains

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	258/244 (106%)	256 (99%)	2 (1%)	81	91
1	B	253/244 (104%)	248 (98%)	5 (2%)	55	72
1	C	256/244 (105%)	254 (99%)	2 (1%)	81	91
All	All	767/732 (105%)	758 (99%)	9 (1%)	71	84

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	168	MSE

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Mol	Chain	Res	Type
1	A	248	THR
1	B	39	ARG
1	B	129	ARG
1	B	168	MSE
1	B	248	THR
1	B	282	ARG
1	C	168	MSE
1	C	282	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 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 carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 18 ligands modelled in this entry, 5 are monoatomic - leaving 13 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	$\# Z  > 2$
4	EDO	A	307	-	3,3,3	0.43	0	2,2,2	0.47	0
4	EDO	A	311	-	3,3,3	0.48	0	2,2,2	0.26	0
4	EDO	B	308	-	3,3,3	0.51	0	2,2,2	0.18	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
4	EDO	B	316	-	3,3,3	0.55	0	2,2,2	0.25	0
4	EDO	C	314	-	3,3,3	0.45	0	2,2,2	0.22	0
2	MYR	A	301	-	12,15,15	0.48	0	11,15,15	0.69	0
4	EDO	B	312	-	3,3,3	0.53	0	2,2,2	0.15	0
2	MYR	C	301	-	12,15,15	0.62	0	11,15,15	0.69	0
4	EDO	A	313	-	3,3,3	0.53	0	2,2,2	0.16	0
4	EDO	A	310	-	3,3,3	0.60	0	2,2,2	0.06	0
2	MYR	B	301	-	12,15,15	0.37	0	11,15,15	0.74	0
4	EDO	C	315	-	3,3,3	0.43	0	2,2,2	0.35	0
4	EDO	C	309	-	3,3,3	0.29	0	2,2,2	0.70	0

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
4	EDO	A	307	-	-	0/1/1/1	-
4	EDO	A	311	-	-	0/1/1/1	-
4	EDO	B	308	-	-	1/1/1/1	-
4	EDO	B	316	-	-	0/1/1/1	-
4	EDO	C	314	-	-	0/1/1/1	-
2	MYR	A	301	-	-	6/11/13/13	-
4	EDO	B	312	-	-	0/1/1/1	-
2	MYR	C	301	-	-	5/11/13/13	-
4	EDO	A	313	-	-	1/1/1/1	-
4	EDO	A	310	-	-	1/1/1/1	-
2	MYR	B	301	-	-	7/11/13/13	-
4	EDO	C	315	-	-	1/1/1/1	-
4	EDO	C	309	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (23) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	301	MYR	C1-C2-C3-C4
2	A	301	MYR	C9-C10-C11-C12
2	A	301	MYR	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
2	B	301	MYR	C2-C3-C4-C5
2	B	301	MYR	C4-C5-C6-C7
2	C	301	MYR	C6-C7-C8-C9
4	A	313	EDO	O1-C1-C2-O2
2	B	301	MYR	C3-C4-C5-C6
2	A	301	MYR	C3-C4-C5-C6
2	A	301	MYR	C2-C3-C4-C5
2	C	301	MYR	C2-C3-C4-C5
2	C	301	MYR	C7-C8-C9-C10
4	B	308	EDO	O1-C1-C2-O2
2	B	301	MYR	C10-C11-C12-C13
2	B	301	MYR	C9-C10-C11-C12
2	B	301	MYR	C6-C7-C8-C9
4	C	315	EDO	O1-C1-C2-O2
2	C	301	MYR	C3-C4-C5-C6
2	A	301	MYR	C5-C6-C7-C8
2	B	301	MYR	C11-C10-C9-C8
4	A	310	EDO	O1-C1-C2-O2
4	C	309	EDO	O1-C1-C2-O2
2	C	301	MYR	C10-C11-C12-C13

There are no ring outliers.

4 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	301	MYR	1	0
2	C	301	MYR	4	0
4	A	313	EDO	1	0
2	B	301	MYR	2	0

## 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, 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	281/292 (96%)	-0.03	14 (4%) 28 35	17, 31, 64, 102	0
1	B	278/292 (95%)	-0.10	10 (3%) 42 49	22, 36, 64, 80	0
1	C	278/292 (95%)	-0.09	11 (3%) 38 45	20, 36, 67, 102	0
All	All	837/876 (95%)	-0.07	35 (4%) 36 43	17, 34, 66, 102	0

All (35) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	276	ALA	10.2
1	C	86	SER	5.4
1	A	275	VAL	5.1
1	A	84	GLN	5.0
1	A	86	SER	4.9
1	A	87	ALA	4.4
1	A	85	LYS	4.0
1	B	89	TYR	3.6
1	A	274	THR	3.5
1	C	51	HIS	3.5
1	B	139	GLU	3.3
1	A	88	THR	3.1
1	A	222	ALA	2.9
1	B	87	ALA	2.8
1	C	217	THR	2.8
1	C	87	ALA	2.7
1	A	82	ILE	2.7
1	A	89	TYR	2.5
1	B	86	SER	2.5
1	C	85	LYS	2.4
1	A	137	LEU	2.3
1	B	249	SER	2.3
1	C	89	TYR	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	291	GLY	2.2
1	B	118	VAL	2.2
1	C	232	PRO	2.2
1	C	50	ALA	2.2
1	C	233	VAL	2.2
1	B	215	LEU	2.2
1	C	143	LEU	2.2
1	B	140	THR	2.1
1	B	88	THR	2.1
1	B	134	PRO	2.1
1	A	81	ILE	2.0
1	C	249	SER	2.0

## 6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

## 6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 6.4 Ligands ⓘ

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
4	EDO	B	312	4/4	0.65	0.44	62,63,63,67	0
4	EDO	C	315	4/4	0.80	0.28	71,71,72,77	0
3	CL	C	303	1/1	0.82	0.22	80,80,80,80	0
4	EDO	A	313	4/4	0.83	0.20	56,59,59,65	0
3	CL	C	305	1/1	0.84	0.32	86,86,86,86	0
2	MYR	B	301	16/16	0.87	0.27	43,45,48,48	0
2	MYR	A	301	16/16	0.89	0.30	37,39,43,44	0
4	EDO	B	316	4/4	0.89	0.22	46,47,50,55	0
2	MYR	C	301	16/16	0.91	0.33	40,42,45,45	0
4	EDO	A	307	4/4	0.92	0.20	47,49,49,53	0
4	EDO	B	308	4/4	0.93	0.26	47,48,48,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
4	EDO	C	314	4/4	0.93	0.15	48,49,51,53	0
4	EDO	C	309	4/4	0.93	0.23	45,48,50,52	0
3	CL	C	304	1/1	0.94	0.11	63,63,63,63	0
3	CL	B	306	1/1	0.94	0.09	49,49,49,49	0
4	EDO	A	310	4/4	0.95	0.12	38,39,41,42	0
4	EDO	A	311	4/4	0.96	0.12	32,38,41,44	0
3	CL	A	302	1/1	0.99	0.07	64,64,64,64	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.