

# Full wwPDB X-ray Structure Validation Report (i)

Jan 8, 2024 – 01:44 am GMT

PDB ID : 5LXI

Title: GABARAP-L1 ATG4B LIR Complex

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Deposited on : 2016-09-21

Resolution : 1.44 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 : 1.8.4, 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)

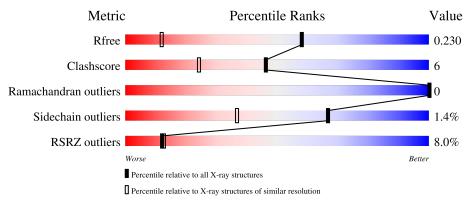
Validation Pipeline (wwPDB-VP) : 2.36

# 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 1.44 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
$R_{free}$	130704	2021 (1.46-1.42)
Clashscore	141614	2086 (1.46-1.42)
Ramachandran outliers	138981	2047 (1.46-1.42)
Sidechain outliers	138945	2047 (1.46-1.42)
RSRZ outliers	127900	1993 (1.46-1.42)

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	В	123	10%		11%	6%	
1	D	123	80%		15%	5%	
2	С	10	70%		30%		
2	Е	10	50%	30%	20%	_	



# 2 Entry composition (i)

There are 8 unique types of molecules in this entry. The entry contains 2290 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 Gamma-aminobutyric acid receptor-associated protein-like 1.

$\mathbf{Mol}$	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	D	117	Total 997	C 650	N 169	O 177	S 1	0	5	0
1	В	116	Total 994	C 651	N 162	O 180	S 1	0	6	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	-5	GLY	-	expression tag	UNP Q9H0R8
D	-4	PRO	-	expression tag	UNP Q9H0R8
D	-3	THR	-	expression tag	UNP Q9H0R8
D	-2	MET	-	expression tag	UNP Q9H0R8
D	-1	GLY	-	expression tag	UNP Q9H0R8
D	0	SER	-	expression tag	UNP Q9H0R8
В	-5	GLY	-	expression tag	UNP Q9H0R8
В	-4	PRO	-	expression tag	UNP Q9H0R8
В	-3	THR	-	expression tag	UNP Q9H0R8
В	-2	MET	-	expression tag	UNP Q9H0R8
В	-1	GLY	_	expression tag	UNP Q9H0R8
В	0	SER	_	expression tag	UNP Q9H0R8

• Molecule 2 is a protein called Cysteine protease ATG4B.

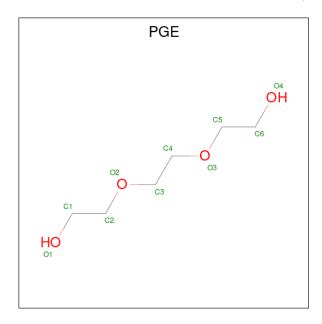
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
9	С	10	Total	С	N	О	Р	0	1	0
	10	92	56	10	25	1	U	1	U	
9	Ŀ	0	Total	С	N	О	Р	0	0	0
	2 E	8	69	43	8	17	1			U

• Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	D	1	Total Mg 1 1	0	0
3	В	2	Total Mg 2 2	0	0

 $\bullet$  Molecule 4 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula:  $\mathrm{C_6H_{14}O_4}).$ 



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	D	1	Total C O 10 6 4	0	1
4	D	1	Total C O 10 6 4	0	1

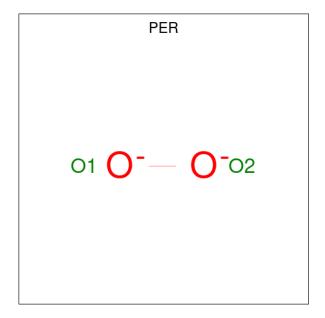
 $\bullet$  Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $\mathrm{C_2H_6O_2}).$ 





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

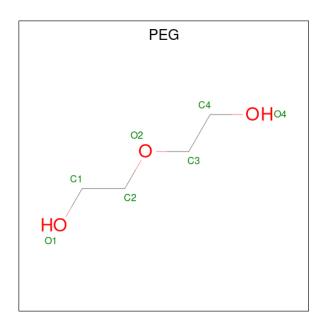
 $\bullet$  Molecule 6 is PEROXIDE ION (three-letter code: PER) (formula:  $\mathcal{O}_2).$ 



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	D	1	Total O 2 2	0	0
6	D	1	Total O 2 2	0	0

• Molecule 7 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula:  $C_4H_{10}O_3$ ).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	В	1	Total 7	C 4	O 3	0	0

#### • Molecule 8 is water.

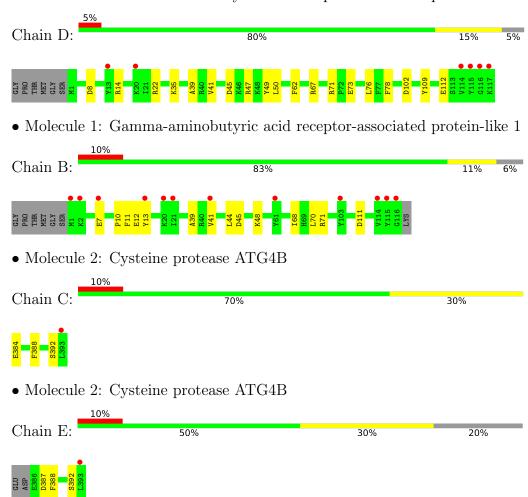
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	D	53	Total O 53 53	0	0
8	В	38	Total O 38 38	0	0
8	С	6	Total O 6 6	0	0
8	E	3	Total O 3 3	0	0



# 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: Gamma-aminobutyric acid receptor-associated protein-like 1





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	124.89Å 72.38Å 30.62Å	Donositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 99.21° 90.00°	Depositor
Resolution (Å)	31.21 - 1.44	Depositor
rtesolution (A)	35.73 - 1.44	EDS
% Data completeness	95.0 (31.21-1.44)	Depositor
(in resolution range)	95.0 (35.73-1.44)	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.04	Depositor
$< I/\sigma(I) > 1$	1.51 (at 1.44Å)	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
D D.	0.197 , 0.230	Depositor
$R, R_{free}$	0.197 , 0.230	DCC
$R_{free}$ test set	2267 reflections (4.91%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	15.6	Xtriage
Anisotropy	0.439	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.37, 48.5	EDS
L-test for twinning <sup>2</sup>	$ < L >=0.50, < L^2>=0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	2290	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 9.93% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;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.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

# 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: PER, SEP, EDO, MG, PGE, PEG

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		
IVIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	В	0.54	0/1042	0.68	0/1413	
1	D	0.59	0/1041	0.74	0/1407	
2	С	0.61	0/84	0.81	0/109	
2	Е	0.58	0/58	0.69	0/74	
All	All	0.57	0/2225	0.72	0/3003	

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	В	994	0	954	12	0
1	D	997	0	975	18	0
2	С	92	0	75	1	0
2	Е	69	0	58	2	0
3	В	2	0	0	0	0
3	D	1	0	0	0	0
4	D	20	0	28	2	0
5	D	4	0	6	1	0
6	D	4	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	В	7	0	10	1	0
8	В	38	0	0	1	0
8	С	6	0	0	0	0
8	D	53	0	0	2	0
8	Е	3	0	0	0	0
All	All	2290	0	2106	27	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 6.

All (27) 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:D:67[B]:ARG:NH2	8:D:301:HOH:O	2.16	0.78
1:D:78:PHE:HB2	4:D:202[B]:PGE:H62	1.81	0.62
7:B:203:PEG:O4	8:B:301:HOH:O	2.14	0.62
1:D:8:ASP:HB3	1:B:11:PHE:HE2	1.65	0.61
1:B:10:PRO:HD2	1:B:13:TYR:HB2	1.87	0.56
1:D:14[A]:ARG:NH1	1:D:102:ASP:OD2	2.40	0.55
1:D:39:ALA:HB1	1:D:41:VAL:HG23	1.87	0.55
1:D:49:TYR:OH	1:D:67[B]:ARG:NH2	2.42	0.52
1:D:8:ASP:HB3	1:B:11:PHE:CE2	2.44	0.52
1:D:112:GLU:OE1	8:D:302:HOH:O	2.19	0.51
1:D:45:ASP:OD1	1:B:13:TYR:OH	2.29	0.50
1:D:50:LEU:HG	2:C:388:PHE:CD1	2.45	0.50
1:B:44:LEU:HD13	1:B:68:ILE:HG23	1.95	0.48
1:D:73[B]:GLU:H	1:D:73[B]:GLU:CD	2.19	0.45
1:B:68:ILE:HG13	1:B:70:LEU:HG	1.98	0.45
1:D:62:PHE:HB2	5:D:204:EDO:H22	1.98	0.45
1:B:39:ALA:HB1	1:B:41:VAL:HG22	1.98	0.44
1:D:78:PHE:H	4:D:202[B]:PGE:C6	2.30	0.44
1:D:47:ARG:CZ	1:B:12:GLU:HG3	2.48	0.43
1:B:45:ASP:OD1	1:B:45:ASP:N	2.51	0.43
1:D:22:ARG:HA	1:D:22:ARG:HD2	1.80	0.42
1:D:71:ARG:NH1	1:D:73[A]:GLU:OE2	2.52	0.42
1:B:41:VAL:HG13	1:B:111:ASP:HB3	2.01	0.42
1:B:48[A]:LYS:NZ	2:E:387:ASP:O	2.51	0.42
1:D:35:LYS:HG2	1:D:39:ALA:HB3	2.02	0.41
1:B:48[A]:LYS:HG2	2:E:388:PHE:CD2	2.55	0.41
1:D:76:LEU:HD11	1:D:109:TYR:CD1	2.56	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	В	120/123~(98%)	116 (97%)	4 (3%)	0	100	100	
1	D	120/123 (98%)	117 (98%)	3 (2%)	0	100	100	
2	С	8/10 (80%)	8 (100%)	0	0	100	100	
2	E	5/10 (50%)	5 (100%)	0	0	100	100	
All	All	253/266~(95%)	246 (97%)	7 (3%)	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	В	$104/112 \ (93\%)$	102 (98%)	2 (2%)	57	22	
1	D	$105/112 \; (94\%)$	105 (100%)	0	100	100	
2	C	9/9 (100%)	8 (89%)	1 (11%)	6	0	
2	E	6/9 (67%)	6 (100%)	0	100	100	
All	All	$224/242 \ (93\%)$	221 (99%)	3 (1%)	67	39	

All (3) residues with a non-rotameric sidechain are listed below:



Mol	Chain	Res	Type
1	В	7	GLU
1	В	71	ARG
2	С	384	GLU

Sometimes 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)

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	Mol Type Chain Res	Chain	Pos	Link	Bond lengths			Bond angles		
MIOI		nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2	
2	SEP	Е	392	2	8,9,10	1.67	1 (12%)	8,12,14	1.12	1 (12%)
2	SEP	С	392	3,2	8,9,10	1.63	1 (12%)	8,12,14	1.92	2 (25%)

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.

$\mathbf{Mol}$	Type	Chain	$\operatorname{Res}$	Link	Chirals	Torsions	Rings
2	SEP	Ε	392	2	-	0/5/8/10	-
2	SEP	С	392	3,2	-	0/5/8/10	-

#### All (2) bond length outliers are listed below:

N	Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	$Ideal(\AA)$
	2	Ε	392	SEP	P-O1P	3.65	1.62	1.50
	2	С	392	SEP	P-O1P	3.54	1.62	1.50



All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	С	392	SEP	P-OG-CB	-3.77	107.92	118.30
2	С	392	SEP	OG-CB-CA	3.11	111.17	108.14
2	Е	392	SEP	OG-P-O1P	2.12	112.43	106.47

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 monosaccharides in this entry.

#### 5.6 Ligand geometry (i)

Of 9 ligands modelled in this entry, 3 are monoatomic - leaving 6 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	Mol Type Chain		Res	Link	Bond lengths				Bond angles		
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2	
7	PEG	В	203	-	6,6,6	0.32	0	5,5,5	0.70	0	
4	PGE	D	203[A]	-	9,9,9	0.30	0	8,8,8	0.38	0	
5	EDO	D	204	-	3,3,3	0.50	0	2,2,2	0.16	0	
6	PER	D	205	-	0,1,1	-	-	-			
6	PER	D	206	-	0,1,1	-	-	-			
4	PGE	D	202[B]	-	9,9,9	0.25	0	8,8,8	0.61	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	PGE	D	202[B]	-	-	3/7/7/7	-
5	EDO	D	204	-	-	1/1/1/1	-
4	PGE	D	203[A]	-	-	2/7/7/7	-
7	PEG	В	203	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	D	204	EDO	O1-C1-C2-O2
4	D	202[B]	PGE	O3-C5-C6-O4
4	D	202[B]	PGE	C6-C5-O3-C4
7	В	203	PEG	O1-C1-C2-O2
4	D	202[B]	PGE	C4-C3-O2-C2
7	В	203	PEG	C4-C3-O2-C2
4	D	203[A]	PGE	C4-C3-O2-C2
4	D	203[A]	PGE	O3-C5-C6-O4

There are no ring outliers.

3 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	В	203	PEG	1	0
5	D	204	EDO	1	0
4	D	202[B]	PGE	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 (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,  $95^{th}$  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 $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	В	116/123 (94%)	0.50	12 (10%) 6 6	16, 29, 56, 69	0
1	D	117/123~(95%)	0.33	6 (5%) 28 28	14, 24, 50, 60	0
2	С	9/10 (90%)	0.06	1 (11%) 5 5	19, 27, 43, 47	0
2	E	7/10 (70%)	1.11	1 (14%) 2 2	28, 39, 43, 53	0
All	All	249/266 (93%)	0.42	20 (8%) 12 13	14, 27, 54, 69	0

All (20) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	13	TYR	6.6
1	В	115	TYR	6.6
1	D	116	GLY	4.7
1	D	115	TYR	4.5
1	В	1	MET	4.1
2	Е	393	LEU	3.8
1	D	114	VAL	3.1
1	В	114	VAL	3.1
1	D	117	LYS	2.7
1	D	13	TYR	2.7
1	В	116	GLY	2.5
2	С	393	LEU	2.4
1	В	2	LYS	2.4
1	В	20	LYS	2.4
1	В	61[A]	TYR	2.4
1	D	20	LYS	2.3
1	В	103	TYR	2.2
1	В	41	VAL	2.2
1	В	21	ILE	2.1
1	В	7	GLU	2.0



#### 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,  $95^{th}$  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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
2	SEP	С	392	10/11	0.95	0.10	23,29,40,42	0
2	SEP	Е	392	10/11	0.95	0.09	32,39,45,47	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,  $95^{th}$  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	$\operatorname{B-factors}(\mathring{\mathbf{A}}^2)$	Q<0.9
7	PEG	В	203	7/7	0.65	0.19	59,61,63,65	0
5	EDO	D	204	4/4	0.89	0.16	34,35,37,39	0
4	PGE	D	202[B]	10/10	0.89	0.11	21,32,34,35	10
4	PGE	D	203[A]	10/10	0.92	0.11	25,31,34,35	10
3	MG	В	201	1/1	0.96	0.19	38,38,38,38	0
6	PER	D	205	2/2	0.98	0.12	12,12,12,16	0
6	PER	D	206	2/2	0.98	0.10	12,12,12,12	0
3	MG	В	202	1/1	0.98	0.16	35,35,35,35	0
3	MG	D	201	1/1	0.99	0.07	27,27,27,27	0

## 6.5 Other polymers (i)

There are no such residues in this entry.

