



# wwPDB X-ray Structure Validation Summary Report ⓘ

Sep 19, 2023 – 12:32 AM EDT

PDB ID : 5CZX  
Title : Crystal structure of Notch3 NRR in complex with 20358 Fab  
Authors : Hu, T.; Fryer, C.; Chopra, R.; Clark, K.  
Deposited on : 2015-08-01  
Resolution : 2.10 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

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<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>.

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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 : 2.35.1  
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) : 2.35.1

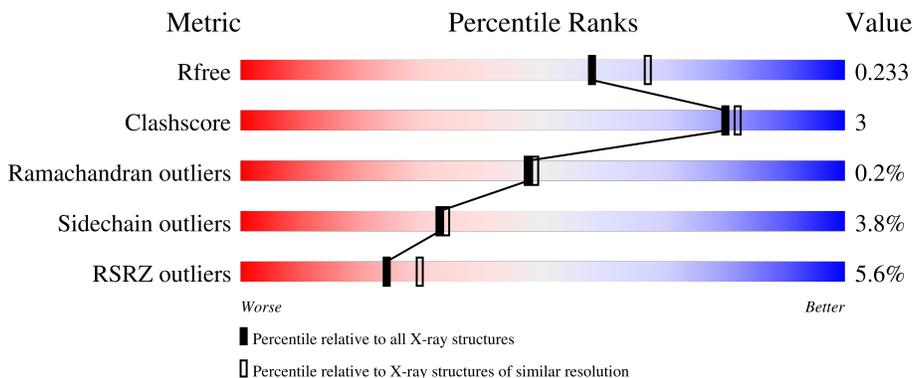
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.10 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	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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	271	 11% 79% 5% 16%
1	B	271	 11% 73% 10% 16%
2	C	226	 % 88% 6% 5%
2	H	226	 % 88% 6% 5%
3	D	214	 3% 88% 12%

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Mol	Chain	Length	Quality of chain
3	L	214	 89% 9%

## 2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 10929 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 Neurogenic locus notch homolog protein 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	227	1752	1076	320	334	22	0	0	0
1	B	227	1752	1076	320	334	22	0	0	0

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1641	GLY	-	expression tag	UNP Q9UM47
A	1642	SER	-	expression tag	UNP Q9UM47
A	1643	HIS	-	expression tag	UNP Q9UM47
A	1644	HIS	-	expression tag	UNP Q9UM47
A	1645	HIS	-	expression tag	UNP Q9UM47
A	1646	HIS	-	expression tag	UNP Q9UM47
A	1647	HIS	-	expression tag	UNP Q9UM47
A	1648	HIS	-	expression tag	UNP Q9UM47
B	1641	GLY	-	expression tag	UNP Q9UM47
B	1642	SER	-	expression tag	UNP Q9UM47
B	1643	HIS	-	expression tag	UNP Q9UM47
B	1644	HIS	-	expression tag	UNP Q9UM47
B	1645	HIS	-	expression tag	UNP Q9UM47
B	1646	HIS	-	expression tag	UNP Q9UM47
B	1647	HIS	-	expression tag	UNP Q9UM47
B	1648	HIS	-	expression tag	UNP Q9UM47

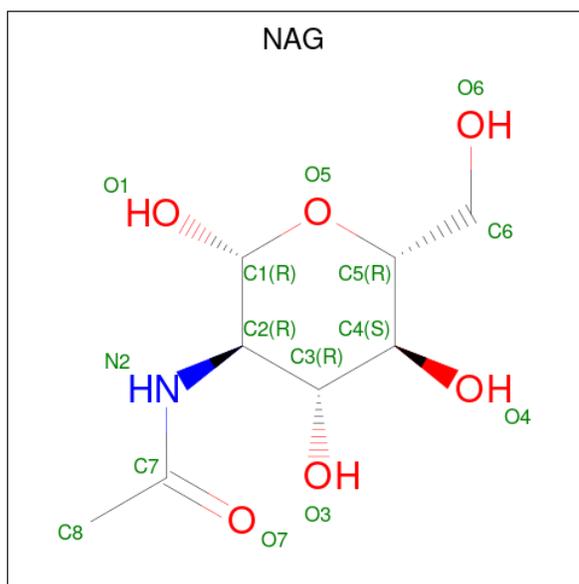
- Molecule 2 is a protein called 20358 Fab heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	C	214	1610	1018	269	316	7	0	0	0
2	H	215	1614	1020	270	317	7	0	0	0

- Molecule 3 is a protein called 20358 Fab light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	D	213	Total	C	N	O	S	0	0	0
			1637	1025	273	334	5			
3	L	213	Total	C	N	O	S	0	0	0
			1637	1025	273	334	5			

- Molecule 4 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula:  $C_8H_{15}NO_6$ ).

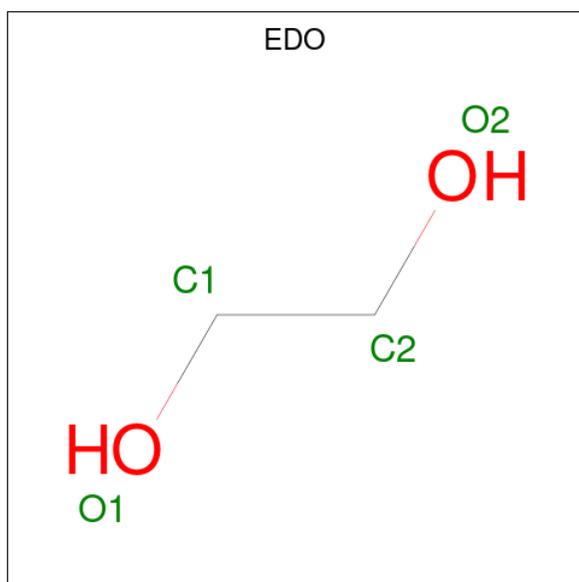


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
4	A	1	Total	C	N	O	0	0
			14	8	1	5		
4	B	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 5 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Ca		
5	A	3	Total	Ca	0	0
			3	3		
5	B	3	Total	Ca	0	0
			3	3		

- Molecule 6 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $C_2H_6O_2$ ).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total C O 4 2 2	0	0
6	A	1	Total C O 4 2 2	0	0
6	A	1	Total C O 4 2 2	0	0
6	B	1	Total C O 4 2 2	0	0
6	B	1	Total C O 4 2 2	0	0
6	C	1	Total C O 4 2 2	0	0
6	D	1	Total C O 4 2 2	0	0
6	D	1	Total C O 4 2 2	0	0
6	H	1	Total C O 4 2 2	0	0
6	L	1	Total C O 4 2 2	0	0

- Molecule 7 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	C	1	Total Cl 1 1	0	0
7	H	1	Total Cl 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	L	1	Total	Cl	0	0
			1	1		

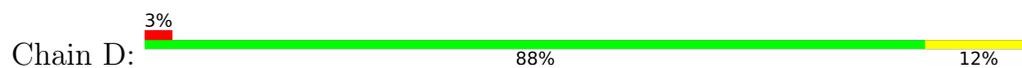
- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	114	Total	O	0	0
			114	114		
8	B	121	Total	O	0	0
			121	121		
8	C	153	Total	O	0	0
			153	153		
8	D	154	Total	O	0	0
			154	154		
8	H	144	Total	O	0	0
			144	144		
8	L	164	Total	O	0	0
			164	164		





- Molecule 3: 20358 Fab light chain



- Molecule 3: 20358 Fab light chain



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	88.34Å 123.86Å 150.57Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.99 – 2.10 29.57 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.2 (29.99-2.10) 99.1 (29.57-2.10)	Depositor EDS
$R_{merge}$	0.08	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.62 (at 2.10Å)	Xtrriage
Refinement program	BUSTER 2.11.2	Depositor
R, $R_{free}$	0.190 , 0.226 0.196 , 0.233	Depositor DCC
$R_{free}$ test set	4809 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	28.2	Xtrriage
Anisotropy	0.515	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.33 , 55.0	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	10929	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	37.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 22.02 % 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 6.2160e-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  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  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: CA, CL, EDO, NAG

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	0.49	0/1790	0.70	0/2427
1	B	0.50	0/1790	0.70	0/2427
2	C	0.51	0/1650	0.68	1/2249 (0.0%)
2	H	0.53	0/1654	0.69	1/2254 (0.0%)
3	D	0.50	0/1672	0.69	0/2270
3	L	0.53	0/1672	0.72	0/2270
All	All	0.51	0/10228	0.70	2/13897 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	103	THR	CB-CA-C	-6.52	94.00	111.60
2	C	103	THR	CB-CA-C	-5.50	96.74	111.60

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	1752	0	1625	5	0
1	B	1752	0	1625	15	0
2	C	1610	0	1569	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	H	1614	0	1572	7	0
3	D	1637	0	1592	14	0
3	L	1637	0	1592	12	0
4	A	14	0	13	1	0
4	B	14	0	13	0	0
5	A	3	0	0	0	0
5	B	3	0	0	0	0
6	A	12	0	18	0	0
6	B	8	0	12	0	0
6	C	4	0	6	0	0
6	D	8	0	12	1	0
6	H	4	0	6	0	0
6	L	4	0	6	0	0
7	C	1	0	0	0	0
7	H	1	0	0	0	0
7	L	1	0	0	0	0
8	A	114	0	0	0	0
8	B	121	0	0	1	0
8	C	153	0	0	1	0
8	D	154	0	0	0	0
8	H	144	0	0	0	0
8	L	164	0	0	0	0
All	All	10929	0	9661	54	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 3.

The worst 5 of 54 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:B:1599:HIS:HD2	8:B:1884:HOH:O	1.71	0.72
3:D:108:ARG:HD2	3:D:171:SER:HB2	1.74	0.69
3:D:108:ARG:NH1	3:D:109:THR:O	2.28	0.67
2:H:162:SER:H	2:H:203:ASN:HD21	1.43	0.67
2:C:162:SER:H	2:C:203:ASN:HD21	1.41	0.66

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	221/271 (82%)	211 (96%)	9 (4%)	1 (0%)	29	26
1	B	221/271 (82%)	208 (94%)	11 (5%)	2 (1%)	17	12
2	C	210/226 (93%)	209 (100%)	1 (0%)	0	100	100
2	H	211/226 (93%)	210 (100%)	1 (0%)	0	100	100
3	D	211/214 (99%)	205 (97%)	6 (3%)	0	100	100
3	L	211/214 (99%)	205 (97%)	6 (3%)	0	100	100
All	All	1285/1422 (90%)	1248 (97%)	34 (3%)	3 (0%)	47	49

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	1393	GLN
1	B	1431	LEU
1	A	1390	ALA

### 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	189/228 (83%)	183 (97%)	6 (3%)	39	41
1	B	189/228 (83%)	183 (97%)	6 (3%)	39	41
2	C	178/189 (94%)	171 (96%)	7 (4%)	32	33
2	H	178/189 (94%)	170 (96%)	8 (4%)	27	27

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	D	186/187 (100%)	180 (97%)	6 (3%)	39	41
3	L	186/187 (100%)	177 (95%)	9 (5%)	25	24
All	All	1106/1208 (92%)	1064 (96%)	42 (4%)	33	34

5 of 42 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	H	156	VAL
3	L	42	LYS
2	H	165	LEU
2	H	220	LYS
3	L	105	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 13 such sidechains are listed below:

Mol	Chain	Res	Type
2	C	203	ASN
3	D	137	ASN
3	L	199	GLN
2	H	203	ASN
3	L	137	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](#)

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

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

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

Of 21 ligands modelled in this entry, 9 are monoatomic - leaving 12 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	NAG	B	1701	1	14,14,15	0.26	0	17,19,21	0.66	1 (5%)
6	EDO	B	1705	-	3,3,3	0.58	0	2,2,2	0.29	0
6	EDO	L	302	-	3,3,3	0.63	0	2,2,2	0.43	0
6	EDO	C	302	-	3,3,3	0.72	0	2,2,2	0.17	0
6	EDO	D	301	-	3,3,3	0.48	0	2,2,2	0.19	0
6	EDO	A	1705	-	3,3,3	0.40	0	2,2,2	0.43	0
6	EDO	H	302	-	3,3,3	0.60	0	2,2,2	0.23	0
6	EDO	A	1707	-	3,3,3	0.64	0	2,2,2	0.14	0
6	EDO	D	302	-	3,3,3	0.72	0	2,2,2	0.27	0
6	EDO	B	1706	-	3,3,3	0.50	0	2,2,2	0.50	0
4	NAG	A	1701	1	14,14,15	0.38	0	17,19,21	1.53	2 (11%)
6	EDO	A	1706	-	3,3,3	0.57	0	2,2,2	0.38	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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	NAG	B	1701	1	-	0/6/23/26	0/1/1/1
6	EDO	B	1705	-	-	0/1/1/1	-
6	EDO	L	302	-	-	0/1/1/1	-
6	EDO	C	302	-	-	0/1/1/1	-
6	EDO	D	301	-	-	0/1/1/1	-
6	EDO	A	1705	-	-	0/1/1/1	-
6	EDO	H	302	-	-	0/1/1/1	-
6	EDO	A	1707	-	-	1/1/1/1	-
6	EDO	D	302	-	-	0/1/1/1	-
6	EDO	B	1706	-	-	0/1/1/1	-
4	NAG	A	1701	1	-	0/6/23/26	0/1/1/1
6	EDO	A	1706	-	-	0/1/1/1	-

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	1701	NAG	C1-O5-C5	4.85	118.76	112.19
4	A	1701	NAG	O5-C1-C2	3.66	117.06	111.29
4	B	1701	NAG	C1-O5-C5	2.22	115.20	112.19

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	A	1707	EDO	O1-C1-C2-O2

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	D	301	EDO	1	0
4	A	1701	NAG	1	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<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	227/271 (83%)	0.86	30 (13%) 3 4	20, 43, 89, 123	0
1	B	227/271 (83%)	0.67	31 (13%) 3 4	19, 38, 85, 119	0
2	C	214/226 (94%)	-0.11	3 (1%) 75 78	18, 29, 54, 96	0
2	H	215/226 (95%)	-0.07	2 (0%) 84 86	19, 29, 53, 81	0
3	D	213/214 (99%)	0.09	6 (2%) 53 59	19, 32, 59, 97	0
3	L	213/214 (99%)	-0.23	1 (0%) 91 92	17, 27, 48, 64	0
All	All	1309/1422 (92%)	0.21	73 (5%) 24 29	17, 32, 68, 123	0

The worst 5 of 73 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1390	ALA	17.8
1	B	1389	ARG	12.9
1	A	1387	CYS	9.6
1	B	1390	ALA	8.7
1	A	1389	ARG	8.2

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

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

### 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
4	NAG	B	1701	14/15	0.71	0.26	78,88,92,93	0
4	NAG	A	1701	14/15	0.78	0.27	61,66,70,72	0
7	CL	L	301	1/1	0.85	0.14	58,58,58,58	0
6	EDO	H	302	4/4	0.87	0.10	51,52,52,53	0
5	CA	A	1702	1/1	0.90	0.13	71,71,71,71	0
5	CA	B	1702	1/1	0.92	0.04	71,71,71,71	0
6	EDO	D	301	4/4	0.93	0.17	37,41,44,46	0
6	EDO	D	302	4/4	0.94	0.16	27,28,31,32	0
6	EDO	C	302	4/4	0.94	0.17	33,35,37,40	0
6	EDO	A	1707	4/4	0.94	0.14	29,32,34,39	0
6	EDO	B	1705	4/4	0.96	0.19	29,33,37,40	0
6	EDO	A	1705	4/4	0.96	0.22	29,30,30,35	0
7	CL	C	301	1/1	0.96	0.19	42,42,42,42	0
7	CL	H	301	1/1	0.96	0.24	35,35,35,35	0
5	CA	B	1703	1/1	0.96	0.05	42,42,42,42	0
6	EDO	B	1706	4/4	0.97	0.21	27,29,33,35	0
6	EDO	A	1706	4/4	0.97	0.10	27,27,29,29	0
6	EDO	L	302	4/4	0.98	0.08	23,23,25,28	0
5	CA	A	1704	1/1	0.99	0.04	24,24,24,24	0
5	CA	A	1703	1/1	0.99	0.04	36,36,36,36	0
5	CA	B	1704	1/1	1.00	0.07	20,20,20,20	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.