



# Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 05:34 AM UTC

PDB ID : 7EC6 / pdb\_00007ec6  
Title : Crystal structure of SdgB (complexed with peptides)  
Authors : Kim, D.-G.; Baek, I.; Lee, Y.; Kim, H.S.  
Deposited on : 2021-03-11  
Resolution : 1.90 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>.

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

MolProbity : 4-5-2 with Phenix2.0  
Xtrriage (Phenix) : 2.0  
EDS : 3.0  
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)  
CCP4 : 9.0.010 (Gargrove)  
Density-Fitness : 1.0.12  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.49

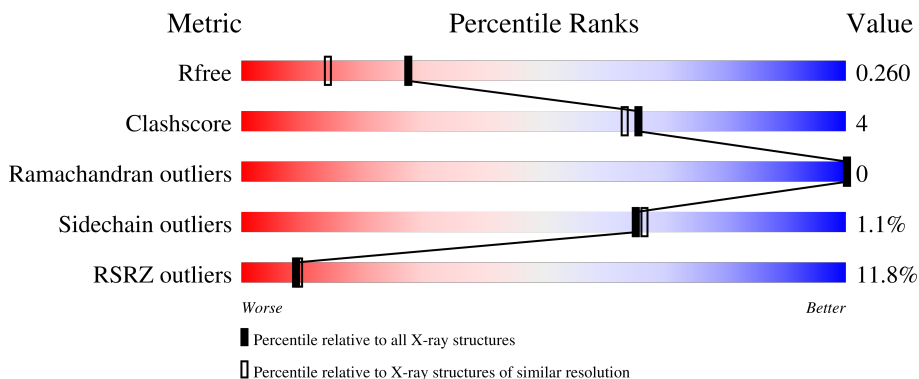
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.90 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))
$R_{free}$	180053	7789 (1.90-1.90)
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (1.90-1.90)

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	505	 8% 87% 10% .
1	C	505	 15% 86% 11% ..
2	D	3	 33% 67%

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 8432 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 Glycosyl transferase, group 1 family protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	494	Total	C	N	O	S	0	0	0
			4118	2661	686	760	11			
1	C	490	Total	C	N	O	S	0	0	0
			4090	2645	679	755	11			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	SER	-	expression tag	UNP A0A0H2XGN0
A	497	LEU	-	expression tag	UNP A0A0H2XGN0
A	498	GLU	-	expression tag	UNP A0A0H2XGN0
A	499	HIS	-	expression tag	UNP A0A0H2XGN0
A	500	HIS	-	expression tag	UNP A0A0H2XGN0
A	501	HIS	-	expression tag	UNP A0A0H2XGN0
A	502	HIS	-	expression tag	UNP A0A0H2XGN0
A	503	HIS	-	expression tag	UNP A0A0H2XGN0
A	504	HIS	-	expression tag	UNP A0A0H2XGN0
C	0	SER	-	expression tag	UNP A0A0H2XGN0
C	497	LEU	-	expression tag	UNP A0A0H2XGN0
C	498	GLU	-	expression tag	UNP A0A0H2XGN0
C	499	HIS	-	expression tag	UNP A0A0H2XGN0
C	500	HIS	-	expression tag	UNP A0A0H2XGN0
C	501	HIS	-	expression tag	UNP A0A0H2XGN0
C	502	HIS	-	expression tag	UNP A0A0H2XGN0
C	503	HIS	-	expression tag	UNP A0A0H2XGN0
C	504	HIS	-	expression tag	UNP A0A0H2XGN0

- Molecule 2 is a protein called ASP-SER-ASP.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	D	3	Total	C	N	O	0	0	0
			23	11	3	9			

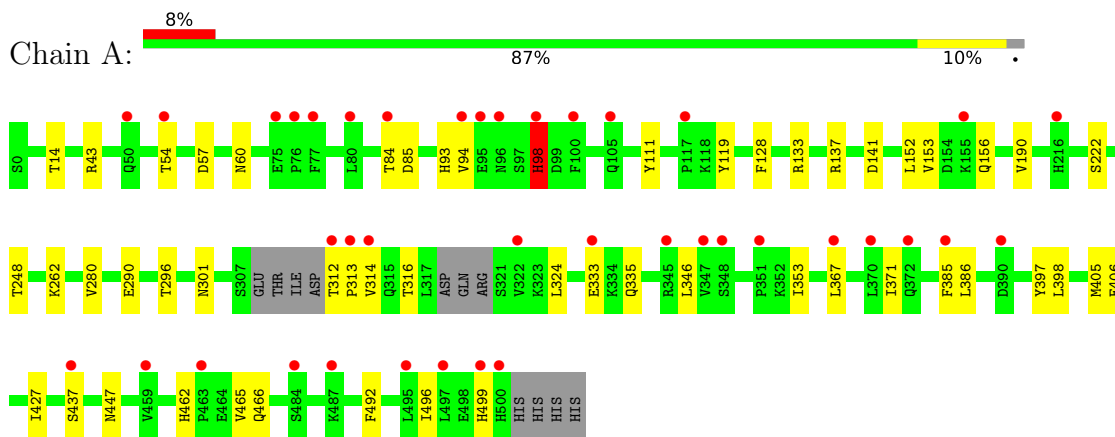
- Molecule 3 is water.

<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>		<b>ZeroOcc</b>	<b>AltConf</b>
3	A	149	Total 149	O 149	0	0
3	C	52	Total 52	O 52	0	0

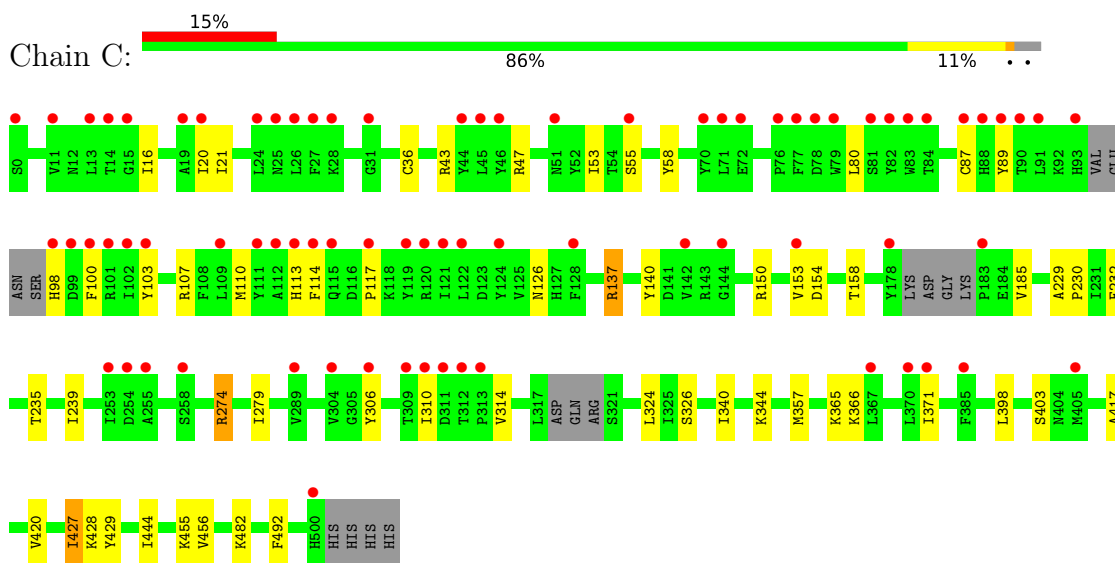
### 3 Residue-property plots [i](#)

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: Glycosyl transferase, group 1 family protein



- Molecule 1: Glycosyl transferase, group 1 family protein



- Molecule 2: ASP-SER-ASP



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	43.15Å 206.17Å 66.40Å 90.00° 105.32° 90.00°	Depositor
Resolution (Å)	29.04 – 1.90 29.04 – 1.90	Depositor EDS
% Data completeness (in resolution range)	99.2 (29.04-1.90) 99.2 (29.04-1.90)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.70 (at 1.91Å)	Xtrriage
Refinement program	REFMAC 5.8.0267	Depositor
R, $R_{free}$	0.229 , 0.261 (Not available) , 0.260	Depositor DCC
$R_{free}$ test set	4391 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	30.3	Xtrriage
Anisotropy	0.194	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.37 , 35.3	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	8432	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	40.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.55% 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](#)

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	1.08	3/4223 (0.1%)	1.29	6/5712 (0.1%)
1	C	1.09	3/4194 (0.1%)	1.33	1/5673 (0.0%)
2	D	2.45	2/22 (9.1%)	3.28	2/27 (7.4%)
All	All	1.09	8/8439 (0.1%)	1.32	9/11412 (0.1%)

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	2	SER	C-N	7.52	1.43	1.33
2	D	1	ASP	C-N	7.34	1.45	1.33
1	C	21	ILE	C-O	6.46	1.31	1.24
1	A	14	THR	C-O	5.95	1.32	1.23
1	C	456	VAL	C-O	5.65	1.30	1.24
1	A	190	VAL	C-O	5.59	1.29	1.24
1	A	222	SER	C-O	5.42	1.30	1.23
1	C	420	VAL	N-CA	5.21	1.50	1.46

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	3	ASP	CA-CB-CG	-12.68	99.92	112.60
1	C	154	ASP	CB-CA-C	-6.40	109.18	116.54
1	A	290	GLU	CB-CA-C	-6.19	100.91	110.81
1	A	296	THR	CA-CB-OG1	-5.86	100.81	109.60
1	A	316	THR	CB-CA-C	5.66	121.14	111.68
2	D	1	ASP	CA-CB-CG	5.57	118.17	112.60
1	A	98	HIS	N-CA-C	-5.25	103.73	111.81
1	A	60	ASN	CA-C-N	5.06	127.02	120.44
1	A	60	ASN	C-N-CA	5.06	127.02	120.44

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts

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	4118	0	4029	30	0
1	C	4090	0	3998	33	0
2	D	23	0	15	3	0
3	A	149	0	0	0	0
3	C	52	0	0	2	0
All	All	8432	0	8042	62	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 4.

All (62) 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:333:GLU:HG2	1:A:405:MET:HE3	1.65	0.78
1:C:126:ASN:ND2	1:C:137:ARG:HD2	2.00	0.75
1:C:326:SER:HB3	1:C:357:MET:HG2	1.81	0.62
1:A:248:THR:O	1:A:262:LYS:HE2	2.00	0.62
1:C:310:ILE:HD11	1:C:417:ALA:HB1	1.82	0.62
1:A:54:THR:HG22	1:A:57:ASP:CG	2.25	0.61
1:A:156:GLN:HG2	1:A:156:GLN:O	2.02	0.60
1:C:126:ASN:HD21	1:C:137:ARG:HD2	1.65	0.60
1:C:239:ILE:O	1:C:274:ARG:NH2	2.22	0.58
1:C:20:ILE:HG22	1:C:36:CYS:SG	2.43	0.57
1:A:152:LEU:HD13	1:A:156:GLN:HG3	1.85	0.56
1:C:103:TYR:HA	1:C:107:ARG:O	2.07	0.54
1:A:385:PHE:O	1:A:386:LEU:HD12	2.07	0.54
1:C:428:LYS:HB3	1:C:429:TYR:CD1	2.43	0.54
1:A:346:LEU:HD23	1:A:353:ILE:CD1	2.39	0.53
1:C:150:ARG:HD3	1:C:158:THR:OG1	2.09	0.53
1:C:80:LEU:HD21	1:C:100:PHE:CE2	2.45	0.51
1:C:126:ASN:ND2	1:C:137:ARG:CD	2.73	0.51
1:C:55:SER:HA	1:C:58:TYR:CE1	2.46	0.51
1:A:98:HIS:HA	1:A:119:TYR:HE1	1.75	0.50
1:A:406:GLU:HG2	1:A:427:ILE:HD11	1.93	0.50
1:A:397:TYR:CZ	1:A:466:GLN:HG3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:312:THR:HB	1:A:313:PRO:HD2	1.93	0.49
1:A:54:THR:HG22	1:A:57:ASP:OD2	2.12	0.49
1:C:98:HIS:NE2	1:C:117:PRO:HB3	2.28	0.49
1:C:444:ILE:HD11	1:C:455:LYS:HG3	1.95	0.48
1:C:113:HIS:CE1	1:C:114:PHE:O	2.67	0.48
1:A:137:ARG:NH2	2:D:3:ASP:HB2	2.29	0.47
1:A:406:GLU:CG	1:A:427:ILE:HD11	2.44	0.47
1:C:403:SER:O	1:C:427:ILE:HD13	2.15	0.47
1:A:156:GLN:O	1:A:156:GLN:CG	2.64	0.46
1:A:93:HIS:CE1	1:A:94:VAL:O	2.68	0.46
1:C:428:LYS:HA	1:C:429:TYR:HA	1.78	0.45
1:A:128:PHE:HA	1:A:133:ARG:O	2.17	0.45
1:C:16:ILE:HG13	3:C:602:HOH:O	2.16	0.45
1:A:397:TYR:CE1	1:A:466:GLN:HG3	2.52	0.45
1:C:36:CYS:O	1:C:58:TYR:HA	2.17	0.44
1:A:153:VAL:HG11	1:C:153:VAL:HG11	1.99	0.44
1:A:280:VAL:O	1:A:301:ASN:HA	2.16	0.44
1:A:335:GLN:HE22	1:A:447:ASN:HD21	1.66	0.43
1:C:43:ARG:NH1	1:C:140:TYR:O	2.49	0.43
1:A:111:TYR:CZ	2:D:2:SER:HB3	2.54	0.43
1:C:185:VAL:HG21	3:C:640:HOH:O	2.17	0.42
1:C:324:LEU:HD22	1:C:398:LEU:HG	2.01	0.42
1:A:462:HIS:O	1:A:465:VAL:N	2.50	0.42
1:C:306:TYR:CZ	1:C:482:LYS:HE3	2.55	0.42
1:C:110:MET:HA	1:C:126:ASN:O	2.20	0.42
1:A:137:ARG:NH2	2:D:3:ASP:CB	2.82	0.42
1:C:279:ILE:HD11	1:C:492:PHE:CE2	2.55	0.42
1:A:84:THR:HG22	1:A:85:ASP:OD1	2.20	0.42
1:C:229:ALA:HB3	1:C:230:PRO:HD3	2.01	0.42
1:C:306:TYR:CE2	1:C:482:LYS:HD2	2.55	0.42
1:A:346:LEU:HD12	1:A:346:LEU:HA	1.94	0.41
1:C:365:LYS:HG3	1:C:366:LYS:N	2.36	0.41
1:C:340:ILE:HD13	1:C:371:ILE:HG13	2.03	0.41
1:A:43:ARG:HB2	1:A:141:ASP:HA	2.03	0.41
1:C:344:LYS:HE3	1:C:344:LYS:HB3	1.85	0.41
1:A:324:LEU:HD22	1:A:398:LEU:HB3	2.03	0.41
1:A:367:LEU:O	1:A:371:ILE:HG13	2.21	0.41
1:A:492:PHE:CZ	1:A:496:ILE:HG13	2.56	0.40
1:C:232:PHE:O	1:C:235:THR:OG1	2.36	0.40
1:C:87:CYS:HB3	1:C:89:TYR:CZ	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	A	488/505 (97%)	475 (97%)	13 (3%)	0	100	100
1	C	482/505 (95%)	461 (96%)	21 (4%)	0	100	100
2	D	1/3 (33%)	1 (100%)	0	0	100	100
All	All	971/1013 (96%)	937 (96%)	34 (4%)	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	455/466 (98%)	451 (99%)	4 (1%)	70	73
1	C	452/466 (97%)	446 (99%)	6 (1%)	61	61
2	D	3/3 (100%)	3 (100%)	0	100	100
All	All	910/935 (97%)	900 (99%)	10 (1%)	65	67

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	98	HIS
1	A	314	VAL
1	A	437	SER
1	A	499	HIS
1	C	47	ARG

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Mol	Chain	Res	Type
1	C	53	ILE
1	C	137	ARG
1	C	274	ARG
1	C	314	VAL
1	C	427	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (18) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	12	ASN
1	A	35	GLN
1	A	98	HIS
1	A	131	GLN
1	A	156	GLN
1	A	157	GLN
1	A	186	GLN
1	A	215	GLN
1	A	368	ASN
1	A	388	ASN
1	A	447	ASN
1	A	462	HIS
1	C	126	ASN
1	C	127	HIS
1	C	186	GLN
1	C	215	GLN
1	C	335	GLN
1	C	379	HIS

### 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 oligosaccharides 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

### 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	494/505 (97%)	0.59	39 (7%) 18 20	21, 34, 60, 82	0
1	C	490/505 (97%)	1.01	77 (15%) 5 5	23, 41, 67, 94	0
2	D	3/3 (100%)	1.08	0 100 100	46, 46, 48, 56	0
All	All	987/1013 (97%)	0.80	116 (11%) 9 9	21, 38, 65, 94	0

All (116) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	94	VAL	4.7
1	C	93	HIS	4.4
1	C	119	TYR	4.4
1	C	90	THR	4.4
1	C	310	ILE	4.2
1	A	312	THR	4.2
1	C	100	PHE	4.2
1	C	255	ALA	4.1
1	C	111	TYR	3.8
1	C	15	GLY	3.8
1	C	114	PHE	3.7
1	C	28	LYS	3.6
1	C	370	LEU	3.6
1	C	124	TYR	3.5
1	C	121	ILE	3.5
1	C	82	TYR	3.5
1	C	102	ILE	3.5
1	C	71	LEU	3.4
1	C	79	TRP	3.4
1	C	144	GLY	3.4
1	C	76	PRO	3.3
1	C	112	ALA	3.3
1	C	122	LEU	3.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	A	333	GLU	3.2
1	C	14	THR	3.2
1	C	13	LEU	3.2
1	A	77	PHE	3.2
1	C	113	HIS	3.2
1	C	26	LEU	3.1
1	A	313	PRO	3.1
1	C	83	TRP	3.0
1	C	84	THR	3.0
1	A	76	PRO	3.0
1	A	385	PHE	3.0
1	C	20	ILE	3.0
1	C	25	ASN	3.0
1	A	84	THR	3.0
1	C	24	LEU	2.9
1	C	91	LEU	2.9
1	C	142	VAL	2.9
1	C	405	MET	2.9
1	C	183	PRO	2.9
1	C	309	THR	2.9
1	A	117	PRO	2.9
1	A	155	LYS	2.8
1	C	77	PHE	2.8
1	C	55	SER	2.8
1	C	31	GLY	2.7
1	A	351	PRO	2.7
1	C	99	ASP	2.7
1	C	117	PRO	2.7
1	C	44	TYR	2.7
1	C	178	TYR	2.6
1	C	98	HIS	2.6
1	A	314	VAL	2.6
1	C	312	THR	2.6
1	C	311	ASP	2.6
1	C	87	CYS	2.6
1	C	103	TYR	2.5
1	A	95	GLU	2.5
1	C	19	ALA	2.5
1	C	11	VAL	2.5
1	A	390	ASP	2.5
1	C	70	TYR	2.5
1	C	27	PHE	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	A	216	HIS	2.5
1	C	371	ILE	2.5
1	A	459	VAL	2.5
1	C	78	ASP	2.5
1	C	313	PRO	2.4
1	C	120	ARG	2.4
1	A	500	HIS	2.4
1	A	100	PHE	2.4
1	C	153	VAL	2.4
1	C	51	ASN	2.4
1	C	258	SER	2.4
1	A	75	GLU	2.4
1	C	500	HIS	2.4
1	A	50	GLN	2.3
1	A	495	LEU	2.3
1	A	463	PRO	2.3
1	C	253	ILE	2.3
1	A	497	LEU	2.3
1	C	0	SER	2.2
1	A	347	VAL	2.2
1	A	96	ASN	2.2
1	C	88	HIS	2.2
1	C	81	SER	2.2
1	C	385	PHE	2.2
1	A	372	GLN	2.2
1	A	367	LEU	2.2
1	C	45	LEU	2.2
1	C	109	LEU	2.2
1	A	345	ARG	2.2
1	A	487	LYS	2.2
1	C	72	GLU	2.1
1	C	306	TYR	2.1
1	A	54	THR	2.1
1	A	484	SER	2.1
1	A	370	LEU	2.1
1	C	115	GLN	2.1
1	C	46	TYR	2.1
1	C	89	TYR	2.1
1	A	499	HIS	2.1
1	A	80	LEU	2.1
1	C	128	PHE	2.1
1	C	101	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	98	HIS	2.1
1	C	289	VAL	2.1
1	C	367	LEU	2.1
1	A	348	SER	2.0
1	C	254	ASP	2.0
1	A	437	SER	2.0
1	A	105	GLN	2.0
1	A	322	VAL	2.0
1	C	304	VAL	2.0

## 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 oligosaccharides 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.