



# Full wwPDB X-ray Structure Validation Report ⓘ

Jul 25, 2023 – 12:33 PM JST

PDB ID : 7YM7  
Title : Crystal structure of the Salmonella effector SseK1 F187A mutant  
Authors : Kim, U.J.; Park, J.B.; Yoo, Y.; Cho, H.S.  
Deposited on : 2022-07-27  
Resolution : 2.20 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 : 4.02b-467  
Xtrriage (Phenix) : 1.13  
EDS : 2.34  
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) : 2.34

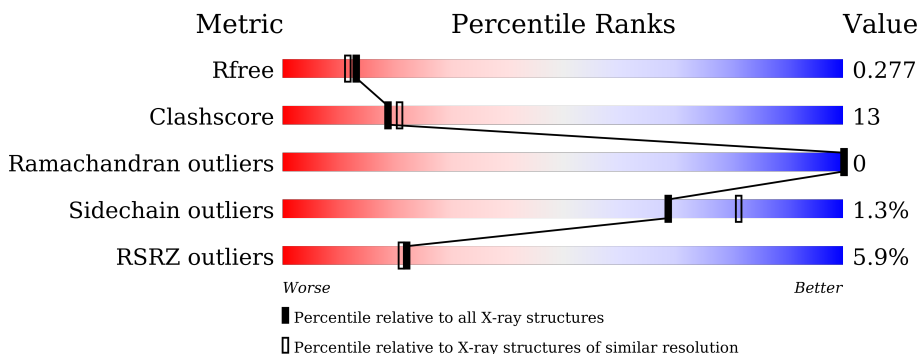
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

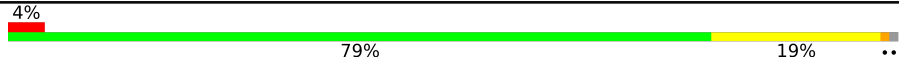

The reported resolution of this entry is 2.20 Å.

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	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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	304	 4% 79% 19% ..
1	B	304	 8% 64% 32% .

## 2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 4803 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 Type III secretion system effector arginine glycosyltransferase SseK1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	300	2433	1547	403	469	14	0	0	0
1	B	292	2366	1512	386	453	15	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	187	ALA	PHE	engineered mutation	UNP A0A735ZBM9
B	187	ALA	PHE	engineered mutation	UNP A0A735ZBM9

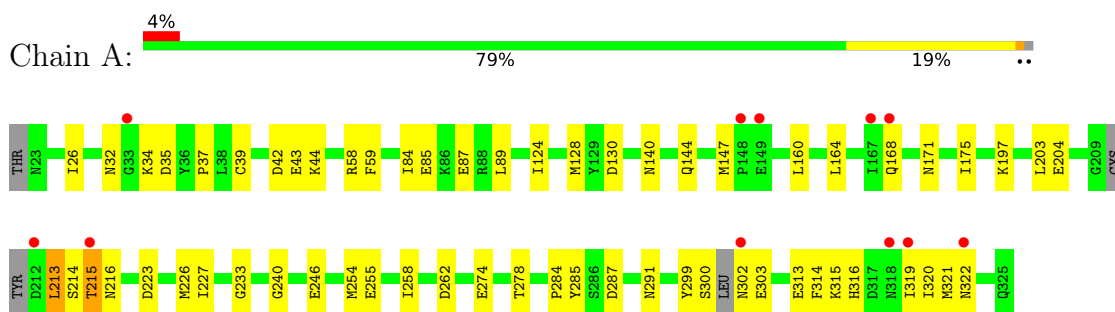
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	3	Total 3	O 3	0	0
2	B	1	Total 1	O 1	0	0

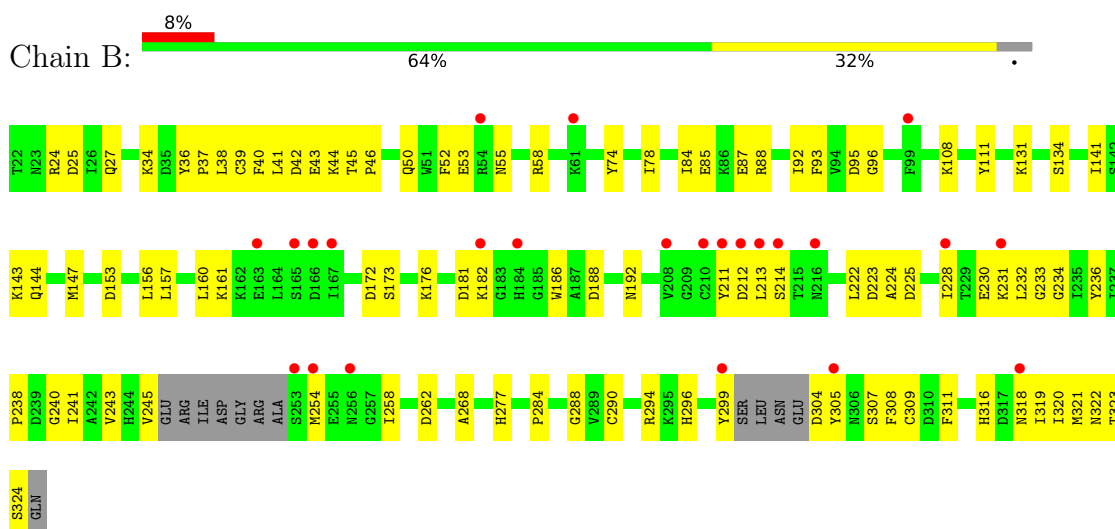
### 3 Residue-property plots

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: Type III secretion system effector arginine glycosyltransferase SseK1



- Molecule 1: Type III secretion system effector arginine glycosyltransferase SseK1



## 4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	177.38Å 47.76Å 81.78Å 90.00° 97.93° 90.00°	Depositor
Resolution (Å)	46.09 – 2.20 55.83 – 2.20	Depositor EDS
% Data completeness (in resolution range)	98.7 (46.09-2.20) 98.8 (55.83-2.20)	Depositor EDS
$R_{merge}$	0.06	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.09 (at 2.20Å)	Xtrriage
Refinement program	REFMAC v1.0	Depositor
R, $R_{free}$	0.242 , 0.267 0.252 , 0.277	Depositor DCC
$R_{free}$ test set	1709 reflections (4.96%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	49.5	Xtrriage
Anisotropy	0.059	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 45.1	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	0.94	EDS
Total number of atoms	4803	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	62.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.80% 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	0.63	0/2483	0.75	0/3342
1	B	0.62	0/2417	0.71	0/3256
All	All	0.63	0/4900	0.73	0/6598

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.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	316	HIS	Peptide

### 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	2433	0	2352	57	0
1	B	2366	0	2287	68	0
2	A	3	0	0	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	1	0	0	0	0
All	All	4803	0	4639	124	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 13.

All (124) 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:243:VAL:HG21	1:B:254:MET:HG3	1.67	0.76
1:A:197:LYS:HE3	1:A:204:GLU:OE1	1.85	0.76
1:A:226:MET:HB3	1:A:319:ILE:CG2	2.19	0.72
1:B:228:ILE:CD1	1:B:232:LEU:HD11	2.20	0.71
1:B:322:ASN:OD1	1:B:323:THR:HG23	1.91	0.70
1:A:44:LYS:NZ	1:A:87:GLU:HG2	2.08	0.68
1:B:34:LYS:HD2	1:B:36:TYR:CZ	2.30	0.67
1:A:26:ILE:HD11	1:A:37:PRO:HB3	1.78	0.66
1:A:300:SER:C	1:A:302:ASN:HB3	2.17	0.65
1:B:228:ILE:HD12	1:B:232:LEU:HD11	1.78	0.65
1:A:274:GLU:O	1:A:278:THR:HG22	1.96	0.64
1:B:322:ASN:OD1	1:B:323:THR:N	2.25	0.64
1:B:230:GLU:HB2	1:B:318:ASN:ND2	2.14	0.63
1:B:55:ASN:O	1:B:58:ARG:HG2	1.98	0.63
1:A:144:GLN:HA	1:A:147:MET:CE	2.28	0.63
1:A:303:GLU:HA	1:A:303:GLU:OE1	1.98	0.63
1:B:232:LEU:HD21	1:B:319:ILE:HD11	1.79	0.62
1:B:320:ILE:CG2	1:B:324:SER:HA	2.29	0.62
1:A:144:GLN:HA	1:A:147:MET:HE3	1.81	0.62
1:A:314:PHE:CE1	1:A:316:HIS:HB3	2.35	0.61
1:A:213:LEU:HB3	1:A:216:ASN:H	1.65	0.61
1:A:39:CYS:SG	1:A:240:GLY:HA2	2.41	0.61
1:A:130:ASP:CG	1:A:175:ILE:HD12	2.23	0.59
1:A:314:PHE:HE1	1:A:316:HIS:HB3	1.68	0.59
1:A:144:GLN:O	1:A:147:MET:N	2.27	0.58
1:B:53:GLU:CD	1:B:58:ARG:HH21	2.06	0.58
1:A:26:ILE:HD11	1:A:37:PRO:CB	2.34	0.58
1:A:226:MET:HB3	1:A:319:ILE:HG22	1.84	0.58
1:B:27:GLN:HE21	1:B:27:GLN:HA	1.69	0.58
1:B:240:GLY:HA2	1:B:262:ASP:HB2	1.86	0.57
1:A:240:GLY:CA	1:A:262:ASP:HB2	2.35	0.57
1:A:313:GLU:HG2	1:A:315:LYS:HD3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:40:PHE:CZ	1:B:234:GLY:HA3	2.40	0.56
1:B:141:ILE:HG23	1:B:157:LEU:HD11	1.86	0.56
1:B:134:SER:HB3	1:B:172:ASP:OD2	2.05	0.56
1:B:299:TYR:HH	1:B:304:ASP:N	2.04	0.56
1:A:42:ASP:OD1	1:A:44:LYS:N	2.32	0.56
1:A:44:LYS:HZ3	1:A:87:GLU:HG2	1.69	0.56
1:A:226:MET:HE2	1:A:258:ILE:HD11	1.88	0.55
1:A:287:ASP:HA	1:A:291:ASN:HB2	1.89	0.55
1:B:245:VAL:HG11	1:B:309:CYS:HB3	1.87	0.55
1:B:52:PHE:HB3	1:B:186:TRP:CZ3	2.41	0.55
1:B:240:GLY:CA	1:B:262:ASP:HB2	2.37	0.55
1:B:27:GLN:HA	1:B:27:GLN:NE2	2.23	0.54
1:A:89:LEU:HG	2:A:401:HOH:O	2.07	0.53
1:B:157:LEU:HG	1:B:161:LYS:HE3	1.91	0.52
1:A:240:GLY:HA3	1:A:262:ASP:HB2	1.90	0.52
1:B:38:LEU:HG	1:B:236:TYR:HB3	1.92	0.52
1:B:304:ASP:O	1:B:305:TYR:C	2.47	0.51
1:B:232:LEU:CD2	1:B:319:ILE:HD11	2.41	0.51
1:B:308:PHE:O	1:B:311:PHE:HB3	2.10	0.51
1:B:44:LYS:HD2	1:B:212:ASP:OD1	2.10	0.51
1:B:238:PRO:HD2	1:B:241:ILE:O	2.11	0.50
1:A:213:LEU:HD12	1:A:214:SER:H	1.75	0.50
1:B:173:SER:HB3	1:B:176:LYS:HB2	1.94	0.49
1:B:143:LYS:O	1:B:147:MET:HG3	2.13	0.49
1:A:213:LEU:HB3	1:A:216:ASN:N	2.27	0.48
1:A:227:ILE:HD11	1:A:322:ASN:CG	2.33	0.48
1:B:84:ILE:O	1:B:231:LYS:HE2	2.12	0.48
1:A:314:PHE:HD1	1:A:316:HIS:HD2	1.59	0.48
1:B:41:LEU:O	1:B:234:GLY:HA2	2.13	0.48
1:A:168:GLN:HB2	1:A:171:ASN:HB2	1.95	0.47
1:B:320:ILE:HG21	1:B:324:SER:HA	1.96	0.47
1:B:39:CYS:SG	1:B:262:ASP:CG	2.93	0.47
1:B:43:GLU:HB3	1:B:233:GLY:HA2	1.96	0.47
1:B:228:ILE:HD11	1:B:232:LEU:HD11	1.95	0.47
1:A:164:LEU:HD23	1:A:164:LEU:O	2.14	0.47
1:A:140:ASN:HB3	1:A:160:LEU:HD11	1.97	0.46
1:B:39:CYS:O	1:B:236:TYR:HA	2.16	0.46
1:B:50:GLN:HA	1:B:93:PHE:O	2.16	0.46
1:B:144:GLN:HE21	1:B:153:ASP:H	1.63	0.46
1:A:130:ASP:CB	1:A:175:ILE:HD12	2.46	0.46
1:A:299:TYR:C	1:A:299:TYR:CD1	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:53:GLU:OE1	1:B:58:ARG:NH2	2.42	0.46
1:B:37:PRO:O	1:B:238:PRO:O	2.34	0.46
1:B:85:GLU:OE2	1:B:232:LEU:HD12	2.16	0.46
1:B:188:ASP:O	1:B:192:ASN:ND2	2.46	0.46
1:B:290:CYS:O	1:B:294:ARG:HD3	2.16	0.46
1:A:226:MET:CE	1:A:258:ILE:HD11	2.46	0.45
1:A:284:PRO:HG2	1:B:111:TYR:OH	2.17	0.45
1:B:268:ALA:HA	1:B:296:HIS:HB2	1.98	0.45
1:A:254:MET:O	1:A:285:TYR:OH	2.34	0.45
1:B:24:ARG:HG2	1:B:25:ASP:N	2.32	0.45
1:B:43:GLU:CB	1:B:233:GLY:HA2	2.47	0.45
1:B:95:ASP:OD1	1:B:96:GLY:N	2.46	0.45
1:A:320:ILE:HG22	1:A:321:MET:H	1.81	0.45
1:B:74:TYR:HB3	1:B:224:ALA:HB1	1.99	0.45
1:B:304:ASP:O	1:B:307:SER:N	2.51	0.44
1:A:89:LEU:CB	2:A:401:HOH:O	2.66	0.44
1:A:213:LEU:HD13	1:A:213:LEU:HA	1.79	0.43
1:A:316:HIS:CE1	1:A:319:ILE:HB	2.53	0.43
1:A:213:LEU:HB2	1:A:216:ASN:HB2	2.01	0.43
1:A:124:ILE:CG2	1:A:197:LYS:HE2	2.48	0.43
1:B:46:PRO:HD3	1:B:214:SER:OG	2.19	0.43
1:B:181:ASP:OD1	1:B:182:LYS:N	2.52	0.43
1:A:246:GLU:HB2	1:A:255:GLU:HG3	2.01	0.42
1:B:320:ILE:CG2	1:B:324:SER:CA	2.97	0.42
1:A:227:ILE:HD11	1:A:322:ASN:ND2	2.34	0.42
1:A:43:GLU:OE2	1:A:233:GLY:HA2	2.20	0.42
1:A:320:ILE:HG22	1:A:321:MET:N	2.34	0.42
1:A:58:ARG:HD3	1:A:59:PHE:CE2	2.55	0.42
1:A:89:LEU:HB2	2:A:401:HOH:O	2.19	0.42
1:B:40:PHE:CE1	1:B:234:GLY:HA3	2.55	0.42
1:B:52:PHE:HB3	1:B:186:TRP:CH2	2.55	0.42
1:B:108:LYS:O	1:B:108:LYS:HD3	2.20	0.41
1:B:284:PRO:O	1:B:288:GLY:HA3	2.20	0.41
1:A:39:CYS:SG	1:A:240:GLY:CA	3.07	0.41
1:B:85:GLU:HA	1:B:231:LYS:NZ	2.34	0.41
1:A:34:LYS:HG3	1:A:35:ASP:O	2.19	0.41
1:B:78:ILE:HG21	1:B:92:ILE:HD11	2.02	0.41
1:A:39:CYS:SG	1:A:262:ASP:CG	2.98	0.41
1:A:203:LEU:HD12	1:A:203:LEU:HA	1.90	0.41
1:B:211:TYR:CG	1:B:213:LEU:HD23	2.56	0.41
1:A:32:ASN:HD22	1:A:32:ASN:HA	1.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:287:ASP:OD1	1:A:291:ASN:ND2	2.48	0.40
1:B:156:LEU:O	1:B:160:LEU:HD13	2.21	0.40
1:B:42:ASP:OD1	1:B:42:ASP:C	2.59	0.40
1:B:39:CYS:HG	1:B:262:ASP:CG	2.24	0.40
1:B:44:LYS:HD3	1:B:87:GLU:HG2	2.04	0.40
1:B:45:THR:HB	1:B:88:ARG:HH21	1.86	0.40
1:B:222:LEU:HD23	1:B:258:ILE:HG12	2.02	0.40
1:A:84:ILE:HG22	1:A:85:GLU:HG2	2.03	0.40
1:A:213:LEU:HG	1:A:215:THR:HG23	2.03	0.40
1:B:131:LYS:NZ	1:B:277:HIS:O	2.36	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	294/304 (97%)	280 (95%)	14 (5%)	0	100	100
1	B	286/304 (94%)	275 (96%)	11 (4%)	0	100	100
All	All	580/608 (95%)	555 (96%)	25 (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	266/270 (98%)	262 (98%)	4 (2%)	65	78
1	B	259/270 (96%)	256 (99%)	3 (1%)	71	83
All	All	525/540 (97%)	518 (99%)	7 (1%)	69	81

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	128	MET
1	A	213	LEU
1	A	215	THR
1	A	223	ASP
1	B	223	ASP
1	B	225	ASP
1	B	321	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	32	ASN
1	A	62	ASN
1	A	122	ASN
1	A	168	GLN
1	A	216	ASN
1	B	27	GLN
1	B	72	ASN
1	B	144	GLN
1	B	200	GLN

### 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](#)

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	300/304 (98%)	0.35	11 (3%) 41 39	30, 51, 93, 115	0
1	B	292/304 (96%)	0.58	24 (8%) 11 10	47, 66, 97, 144	0
All	All	592/608 (97%)	0.46	35 (5%) 22 21	30, 60, 95, 144	0

All (35) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	305	TYR	13.5
1	A	148	PRO	7.9
1	B	182	LYS	5.8
1	B	254	MET	5.2
1	B	184	HIS	4.7
1	B	212	ASP	4.6
1	A	212	ASP	4.6
1	B	318	ASN	4.5
1	B	213	LEU	4.2
1	B	210	CYS	3.9
1	B	216	ASN	3.8
1	A	215	THR	3.7
1	B	208	VAL	3.7
1	A	322	ASN	3.6
1	B	167	ILE	3.4
1	B	214	SER	3.2
1	A	319	ILE	3.2
1	B	299	TYR	3.1
1	B	256	ASN	2.9
1	A	302	ASN	2.8
1	A	149	GLU	2.7
1	B	253	SER	2.7
1	A	318	ASN	2.6
1	B	163	GLU	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	211	TYR	2.5
1	B	231	LYS	2.5
1	B	54	ARG	2.4
1	A	167	ILE	2.3
1	B	99	PHE	2.3
1	B	166	ASP	2.3
1	A	168	GLN	2.3
1	B	165	SER	2.3
1	A	33	GLY	2.2
1	B	228	ILE	2.1
1	B	61	LYS	2.1

## 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](#)

There are no ligands in this entry.

## 6.5 Other polymers [i](#)

There are no such residues in this entry.