



Full wwPDB X-ray Structure Validation Report i

Jun 18, 2024 – 12:14 PM EDT

PDB ID : 4NVR
Title : 2.22 Angstrom Resolution Crystal Structure of a Putative Acyltransferase from Salmonella enterica
Authors : Minasov, G.; Wawrzak, Z.; Skarina, T.; Gordon, E.; Stam, J.; Kwon, K.; Savchenko, A.; Anderson, W.F.; Center for Structural Genomics of Infectious Diseases (CSGID)
Deposited on : 2013-12-05
Resolution : 2.22 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 : 2022.3.0, CSD as543be (2022)
Xtriaage (Phenix) : 1.20.1
EDS : 2.37.1
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) : 2.37.1

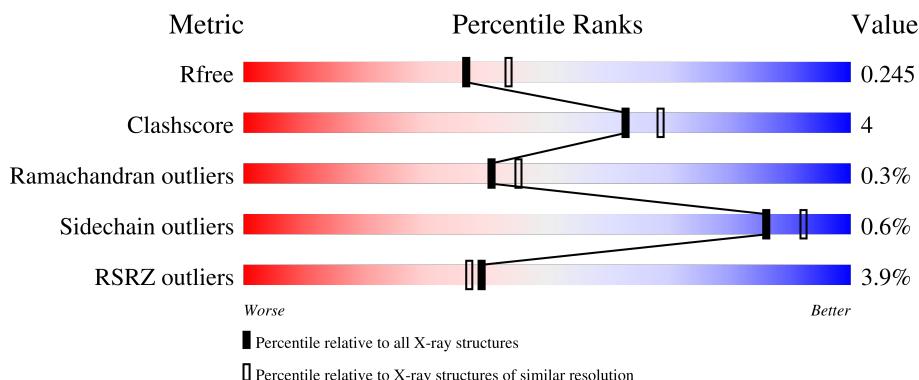
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

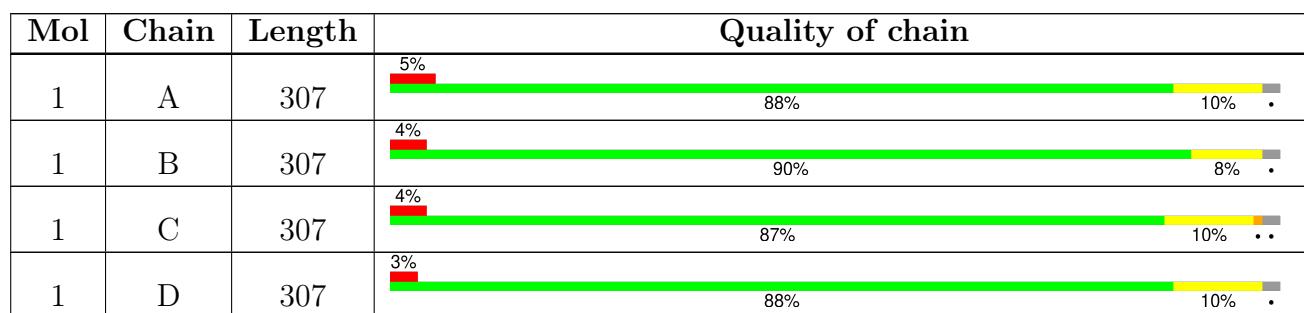
The reported resolution of this entry is 2.22 Å.

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	5912 (2.24-2.20)
Clashscore	141614	6646 (2.24-2.20)
Ramachandran outliers	138981	6543 (2.24-2.20)
Sidechain outliers	138945	6544 (2.24-2.20)
RSRZ outliers	127900	5797 (2.24-2.20)

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 ≥ 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.



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 10229 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 Putative acyltransferase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	302	Total	C 2458	N 1564	O 430	S 450	Se 8	0	10	0
1	B	302	Total	C 2386	N 1522	O 414	S 436	Se 8	0	2	0
1	C	301	Total	C 2401	N 1533	O 419	S 435	Se 8	0	4	0
1	D	301	Total	C 2367	N 1512	O 411	S 430	Se 8	0	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	SER	-	EXPRESSION TAG	UNP Q8ZRI7
A	-1	ASN	-	EXPRESSION TAG	UNP Q8ZRI7
A	0	ALA	-	EXPRESSION TAG	UNP Q8ZRI7
B	-2	SER	-	EXPRESSION TAG	UNP Q8ZRI7
B	-1	ASN	-	EXPRESSION TAG	UNP Q8ZRI7
B	0	ALA	-	EXPRESSION TAG	UNP Q8ZRI7
C	-2	SER	-	EXPRESSION TAG	UNP Q8ZRI7
C	-1	ASN	-	EXPRESSION TAG	UNP Q8ZRI7
C	0	ALA	-	EXPRESSION TAG	UNP Q8ZRI7
D	-2	SER	-	EXPRESSION TAG	UNP Q8ZRI7
D	-1	ASN	-	EXPRESSION TAG	UNP Q8ZRI7
D	0	ALA	-	EXPRESSION TAG	UNP Q8ZRI7

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

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

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	C	2	Total Ca 2 2	0	0
2	D	1	Total Ca 1 1	0	0

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

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

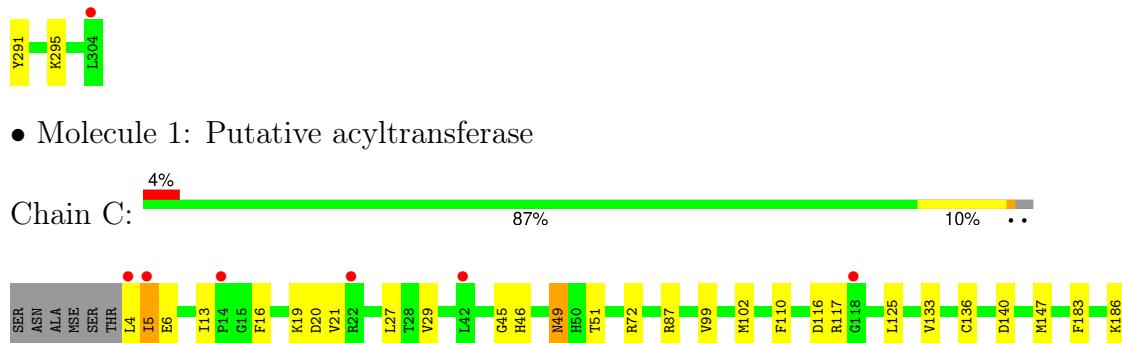
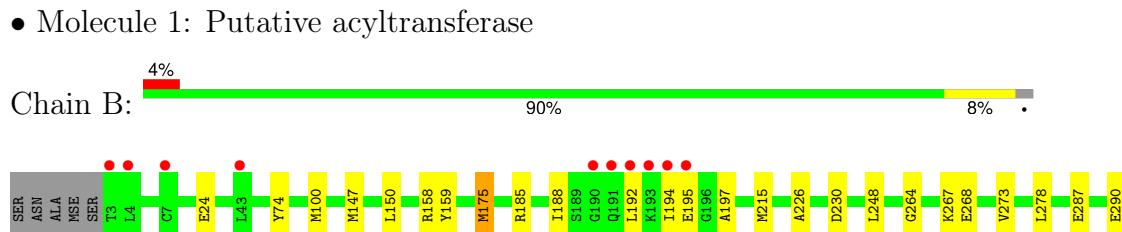
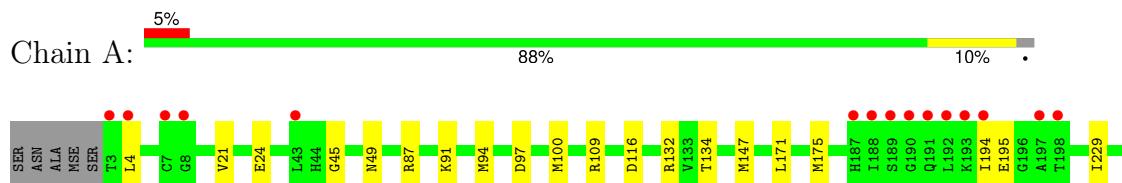
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	147	Total O 155 155	0	9
4	B	165	Total O 166 166	0	1
4	C	141	Total O 144 144	0	4
4	D	144	Total O 145 145	0	1

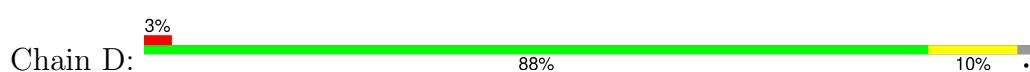
3 Residue-property plots

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: Putative acyltransferase



- Molecule 1: Putative acyltransferase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	47.93Å 71.38Å 90.33Å 113.03° 92.41° 90.09°	Depositor
Resolution (Å)	28.63 – 2.22 28.63 – 2.22	Depositor EDS
% Data completeness (in resolution range)	98.1 (28.63-2.22) 98.2 (28.63-2.22)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	0.12	Depositor
$< I/\sigma(I) >$ ¹	3.64 (at 2.22Å)	Xtriage
Refinement program	REFMAC 5.8.0046	Depositor
R , R_{free}	0.181 , 0.241 0.191 , 0.245	Depositor DCC
R_{free} test set	2697 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	22.5	Xtriage
Anisotropy	0.448	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 43.5	EDS
L-test for twinning ²	$< L > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	0.079 for h,-k,-l 0.017 for -h,k,-k-l 0.006 for -h,-k,k+l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	10229	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.64% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical 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.

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: CL, CA

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	0.59	0/2518	0.78	1/3414 (0.0%)
1	B	0.59	0/2446	0.78	3/3319 (0.1%)
1	C	0.57	0/2461	0.75	2/3335 (0.1%)
1	D	0.56	0/2427	0.74	0/3291
All	All	0.58	0/9852	0.76	6/13359 (0.0%)

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	B	268	GLU	OE1-CD-OE2	8.23	133.18	123.30
1	A	268	GLU	OE1-CD-OE2	7.57	132.39	123.30
1	B	185	ARG	NE-CZ-NH1	5.52	123.06	120.30
1	C	147	MSE	CA-CB-CG	-5.23	104.41	113.30
1	B	185	ARG	NE-CZ-NH2	-5.16	117.72	120.30
1	C	261	ASN	N-CA-C	-5.02	97.45	111.00

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	2458	0	2391	23	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	2386	0	2327	15	0
1	C	2401	0	2350	26	0
1	D	2367	0	2311	18	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	2	0	0	0	0
2	D	1	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	155	0	0	2	0
4	B	166	0	0	2	0
4	C	144	0	0	2	0
4	D	145	0	0	3	0
All	All	10229	0	9379	81	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 (81) 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:147:MSE:HE1	1:A:260:TYR:CE2	2.23	0.73
1:D:5:ILE:HG23	1:D:20:ASP:HB2	1.72	0.69
1:A:147:MSE:HA	1:A:147:MSE:HE2	1.74	0.69
1:C:4:LEU:HD22	1:C:21:VAL:HG22	1.77	0.67
1:D:64:HIS:NE2	4:D:556:HOH:O	2.28	0.67
1:A:24:GLU:HG2	1:A:100:MSE:HE2	1.77	0.67
1:C:4:LEU:CD2	1:C:21:VAL:HG22	2.27	0.65
1:D:133:VAL:HG11	1:D:136:CYS:SG	2.41	0.60
1:C:116:ASP:OD1	1:C:117:ARG:HG2	2.03	0.59
1:A:4:LEU:HD22	1:A:21:VAL:HG22	1.83	0.59
1:A:238:THR:HG23	4:A:631[B]:HOH:O	2.03	0.59
1:D:194:ILE:HG22	4:D:628:HOH:O	2.03	0.56
1:C:49:ASN:ND2	1:C:51:THR:H	2.04	0.55
1:C:5:ILE:HG23	1:C:20:ASP:HB2	1.88	0.55
1:A:147:MSE:HE1	1:A:260:TYR:CD2	2.42	0.55
1:A:109[A]:ARG:NH1	1:A:134:THR:HG22	2.22	0.55
1:A:45:GLY:HA3	1:A:116:ASP:HB3	1.88	0.54
1:C:45:GLY:HA3	1:C:116:ASP:HB3	1.88	0.54
1:A:175:MSE:HE1	1:C:183:PHE:CE1	2.43	0.53
1:D:74:TYR:CD2	1:D:215:MSE:HE3	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:251:GLY:HA3	1:D:281:GLY:O	2.10	0.50
1:C:27:LEU:CD2	1:C:29:VAL:HG13	2.41	0.50
1:B:147:MSE:HE1	1:B:159:TYR:CZ	2.47	0.50
1:A:94:MSE:O	1:A:97:ASP:HB2	2.11	0.49
1:D:102:MSE:HE2	1:D:110:PHE:CG	2.47	0.49
1:A:246:LEU:HD23	1:A:273[B]:VAL:HG12	1.94	0.49
1:C:102:MSE:HG3	1:C:110:PHE:CD2	2.48	0.48
1:C:99:VAL:HG13	1:C:125:LEU:HD11	1.95	0.48
1:C:211:GLN:NE2	4:C:524:HOH:O	2.46	0.47
1:B:290:GLU:HB2	4:B:645:HOH:O	2.14	0.47
1:C:186[B]:LYS:HD3	1:C:186[B]:LYS:HA	1.70	0.47
1:C:49:ASN:C	1:C:49:ASN:HD22	2.18	0.47
1:B:24:GLU:CG	1:B:100:MSE:HE2	2.46	0.46
1:B:264:GLY:HA2	1:B:267:LYS:HD3	1.97	0.46
1:A:4:LEU:HD23	1:A:21:VAL:HG13	1.97	0.46
1:C:6:GLU:OE2	1:C:19:LYS:NZ	2.48	0.46
1:C:140:ASP:OD2	1:C:282:HIS:ND1	2.38	0.46
1:A:278:LEU:HD22	1:A:291:TYR:CD1	2.51	0.46
1:A:273[A]:VAL:HG12	1:A:274:GLN:N	2.32	0.45
1:B:150:LEU:HB2	4:B:529:HOH:O	2.17	0.45
1:B:194:ILE:HD11	1:B:287:GLU:HB3	1.98	0.45
1:B:188:ILE:O	1:B:192:LEU:HB2	2.16	0.45
1:B:226:ALA:HA	1:B:230:ASP:HB2	1.99	0.45
1:C:27:LEU:HD13	1:C:72:ARG:NH2	2.32	0.45
1:C:226:ALA:HA	1:C:230:ASP:HB2	1.99	0.45
1:C:133:VAL:HG11	1:C:136:CYS:SG	2.57	0.45
1:B:192:LEU:HD21	1:B:197:ALA:HB3	1.99	0.44
1:A:24:GLU:CG	1:A:100:MSE:HE2	2.47	0.44
1:D:117:ARG:HD2	1:D:222:ASP:OD2	2.17	0.44
1:D:210:TYR:O	1:D:216:ILE:HD11	2.18	0.44
1:D:147:MSE:HG2	1:D:260:TYR:CZ	2.51	0.44
1:A:251:GLY:HA3	1:A:281:GLY:O	2.18	0.44
1:A:49:ASN:HB3	4:A:506:HOH:O	2.17	0.44
1:C:87:ARG:NH2	1:C:229:ILE:HD11	2.33	0.44
1:B:194:ILE:HG13	1:B:194:ILE:O	2.18	0.44
1:C:46:HIS:CE1	4:C:616:HOH:O	2.70	0.43
1:C:102:MSE:HG3	1:C:110:PHE:CE2	2.52	0.43
1:A:171:LEU:HD12	1:A:171:LEU:O	2.17	0.43
1:D:45:GLY:HA3	1:D:116:ASP:HB3	1.99	0.43
1:D:117:ARG:CD	1:D:222:ASP:OD2	2.66	0.43
1:B:24:GLU:HG2	1:B:100:MSE:HE2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:175:MSE:HE1	4:D:599:HOH:O	2.18	0.43
1:B:248:LEU:CD2	1:B:273:VAL:HG13	2.48	0.43
1:C:116:ASP:OD1	1:C:117:ARG:N	2.49	0.42
1:D:226:ALA:HA	1:D:230:ASP:OD2	2.19	0.42
1:A:171:LEU:HD12	1:A:171:LEU:C	2.40	0.42
1:D:116:ASP:OD1	1:D:117:ARG:HG2	2.19	0.42
1:B:278:LEU:HD22	1:B:291:TYR:CD1	2.55	0.42
1:C:87:ARG:CZ	1:C:229:ILE:HD11	2.49	0.42
1:B:74:TYR:CD2	1:B:215:MSE:HE3	2.55	0.42
1:C:13:ILE:HG22	1:C:16:PHE:CD1	2.55	0.42
1:C:49:ASN:ND2	1:C:49:ASN:C	2.74	0.41
1:D:263:VAL:HG12	1:D:267:LYS:HE2	2.01	0.41
1:A:253:LEU:HD22	1:A:253:LEU:N	2.35	0.41
1:C:5:ILE:C	1:C:5:ILE:HD13	2.41	0.41
1:D:228:THR:OG1	1:D:229:ILE:N	2.53	0.41
1:D:115:HIS:HA	1:D:139:ILE:HB	2.04	0.40
1:A:4:LEU:CD2	1:A:21:VAL:HG13	2.51	0.40
1:A:109[A]:ARG:HA	1:A:132:ARG:O	2.22	0.40
1:D:99:VAL:HG21	1:D:129:TYR:CG	2.57	0.40
1:A:87:ARG:NH2	1:A:229:ILE:HD11	2.37	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	310/307 (101%)	300 (97%)	8 (3%)	2 (1%)	25 25
1	B	302/307 (98%)	291 (96%)	10 (3%)	1 (0%)	41 45
1	C	303/307 (99%)	295 (97%)	8 (3%)	0	100 100
1	D	299/307 (97%)	292 (98%)	6 (2%)	1 (0%)	41 45
All	All	1214/1228 (99%)	1178 (97%)	32 (3%)	4 (0%)	41 45

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	194	ILE
1	A	195	GLU
1	B	195	GLU
1	D	108	SER

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	262/249 (105%)	261 (100%)	1 (0%)	91 95
1	B	254/249 (102%)	251 (99%)	3 (1%)	71 82
1	C	255/249 (102%)	253 (99%)	2 (1%)	81 89
1	D	251/249 (101%)	251 (100%)	0	100 100
All	All	1022/996 (103%)	1016 (99%)	6 (1%)	86 92

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	91	LYS
1	B	158	ARG
1	B	175	MSE
1	B	295	LYS
1	C	5	ILE
1	C	49	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	46	HIS
1	A	187	HIS
1	B	63	ASN
1	B	187	HIS
1	C	46	HIS

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Mol	Chain	Res	Type
1	C	187	HIS
1	C	211	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 [\(i\)](#)

Of 7 ligands modelled in this entry, 7 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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, 95th 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 ²)	Q<0.9
1	A	296/307 (96%)	0.10	16 (5%) 25 24	15, 25, 56, 96	0
1	B	296/307 (96%)	0.07	11 (3%) 41 39	14, 25, 48, 97	0
1	C	295/307 (96%)	0.15	11 (3%) 41 39	15, 28, 47, 58	0
1	D	295/307 (96%)	0.07	8 (2%) 54 52	15, 27, 48, 76	0
All	All	1182/1228 (96%)	0.10	46 (3%) 39 37	14, 26, 49, 97	0

All (46) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	194	ILE	9.1
1	D	4	LEU	6.4
1	A	194	ILE	6.3
1	C	4	LEU	5.8
1	C	301	HIS	4.3
1	A	187	HIS	4.0
1	A	193	LYS	4.0
1	B	3	THR	3.9
1	B	192	LEU	3.7
1	B	193	LYS	3.6
1	D	301	HIS	3.6
1	A	191	GLN	3.5
1	A	3	THR	3.4
1	C	5	ILE	3.2
1	A	304	LEU	3.2
1	B	191	GLN	3.0
1	D	5	ILE	3.0
1	A	4	LEU	3.0
1	C	302	SER	2.9
1	B	4	LEU	2.9
1	A	188	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
1	B	304	LEU	2.8
1	C	14	PRO	2.8
1	A	8	GLY	2.7
1	C	291	TYR	2.7
1	A	192	LEU	2.6
1	A	7	CYS	2.6
1	A	190	GLY	2.6
1	C	118	GLY	2.5
1	D	243	ARG	2.5
1	A	198	THR	2.5
1	B	7	CYS	2.5
1	B	195	GLU	2.4
1	A	197	ALA	2.4
1	B	190	GLY	2.4
1	D	8	GLY	2.4
1	A	189	SER	2.4
1	B	43	LEU	2.3
1	D	22	ARG	2.2
1	C	42	LEU	2.2
1	D	24	GLU	2.1
1	A	43	LEU	2.1
1	D	7	CYS	2.1
1	C	239	SER	2.1
1	C	22	ARG	2.0
1	C	304	LEU	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 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, 95th 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 ²)	Q<0.9
2	CA	D	401	1/1	0.84	0.28	57,57,57,57	0
2	CA	C	401	1/1	0.93	0.31	51,51,51,51	0
2	CA	C	402	1/1	0.95	0.32	52,52,52,52	0
2	CA	A	401	1/1	0.97	0.09	28,28,28,28	0
2	CA	B	401	1/1	0.98	0.11	28,28,28,28	0
3	CL	A	402	1/1	0.98	0.21	30,30,30,30	0
3	CL	B	402	1/1	0.98	0.20	30,30,30,30	0

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.