



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 6, 2024 – 04:40 AM EDT

PDB ID : 3NAP
Title : Structure of Triatoma Virus (TrV)
Authors : Squires, G.; Pous, J.
Deposited on : 2010-06-02
Resolution : 2.50 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 ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
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

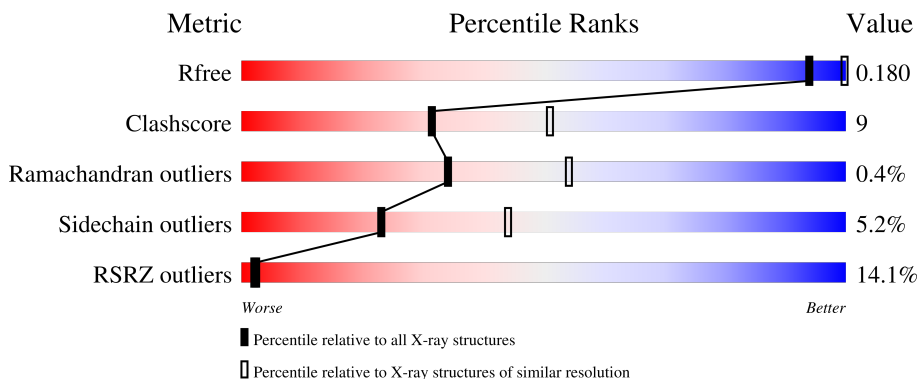
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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.

Mol	Chain	Length	Quality of chain
1	A	271	 11% 77% 18% . .
2	B	255	 17% 76% 18% . .
3	C	285	 13% 80% 14% . .

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 6749 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 Capsid protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	264	2047	1311	336	392	8	0	0	0

- Molecule 2 is a protein called Capsid protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	247	1953	1254	325	369	5	0	0	0

- Molecule 3 is a protein called Capsid protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	C	276	2196	1421	356	415	4	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	54	MET	VAL	conflict	UNP Q9QEY5

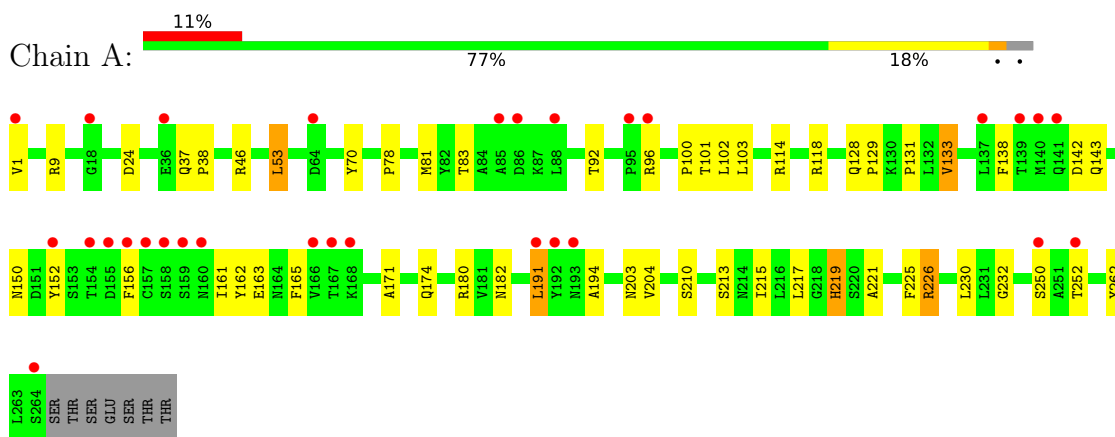
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	156	Total 156	O 156	0	0
4	B	180	Total 180	O 180	0	0
4	C	217	Total 217	O 217	0	0

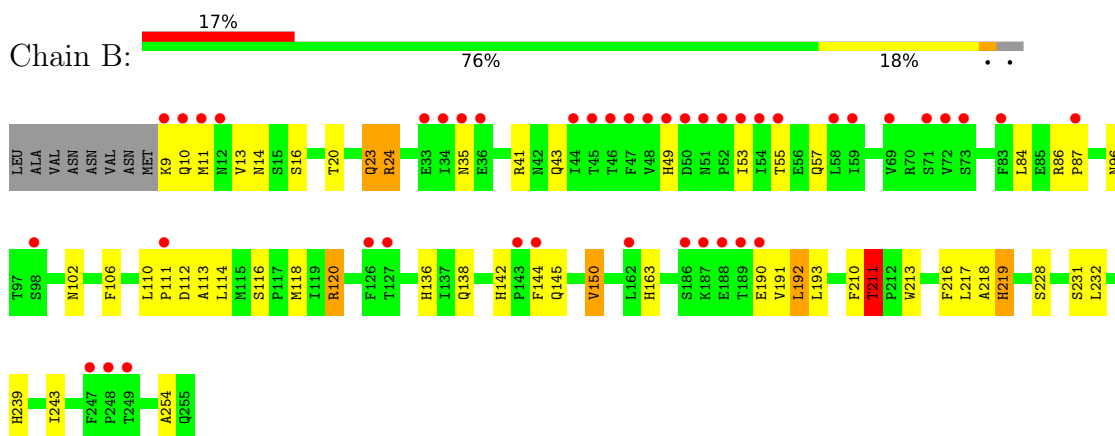
3 Residue-property plots [i](#)

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.

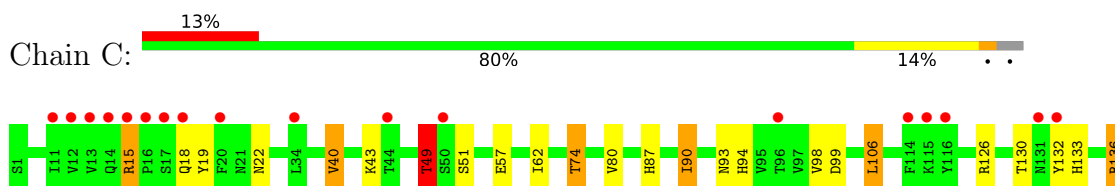
- Molecule 1: Capsid protein

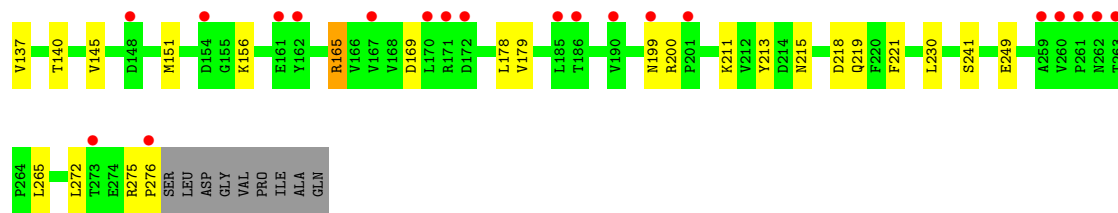


- Molecule 2: Capsid protein



- Molecule 3: Capsid protein





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	343.66Å 360.46Å 341.25Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 – 2.50 37.95 – 2.50	Depositor EDS
% Data completeness (in resolution range)	92.2 (30.00-2.50) 92.3 (37.95-2.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.18 (at 2.51Å)	Xtrriage
Refinement program	CNS	Depositor
R, R_{free}	0.171 , 0.173 0.180 , 0.180	Depositor DCC
R_{free} test set	13283 reflections (1.00%)	wwPDB-VP
Wilson B-factor (Å ²)	21.9	Xtrriage
Anisotropy	0.088	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.69 , 58.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	0.012 for l,-k,h	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	6749	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.35% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical 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	0.59	0/2098	0.80	1/2856 (0.0%)
2	B	0.62	0/2002	0.88	7/2729 (0.3%)
3	C	0.57	0/2259	0.83	1/3095 (0.0%)
All	All	0.59	0/6359	0.84	9/8680 (0.1%)

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	A	0	2
3	C	0	1
All	All	0	3

There are no bond length outliers.

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	133	VAL	CB-CA-C	-8.13	95.94	111.40
2	B	150	VAL	CB-CA-C	-6.73	98.61	111.40
2	B	211	THR	N-CA-C	6.52	128.61	111.00
2	B	210	PHE	CA-C-N	-6.49	102.93	117.20
2	B	210	PHE	C-N-CA	6.15	137.07	121.70
3	C	49	THR	CB-CA-C	-5.97	95.48	111.60
2	B	24	ARG	NE-CZ-NH2	-5.77	117.41	120.30
2	B	120	ARG	NE-CZ-NH2	-5.62	117.49	120.30
2	B	192	LEU	CA-CB-CG	5.57	128.12	115.30

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	162	TYR	Sidechain
1	A	70	TYR	Sidechain
3	C	132	TYR	Sidechain

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	2047	0	2010	43	0
2	B	1953	0	1933	37	0
3	C	2196	0	2165	40	0
4	A	156	0	0	5	0
4	B	180	0	0	3	0
4	C	217	0	0	7	0
All	All	6749	0	6108	111	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 9.

All (111) 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:163:GLU:HG2	1:A:171:ALA:HA	1.45	0.99
2:B:138:GLN:HG2	2:B:190:GLU:HG3	1.43	0.97
3:C:215:ASN:HB3	4:C:546:HOH:O	1.75	0.86
1:A:118:ARG:HE	1:A:174:GLN:HE21	1.22	0.83
3:C:130:THR:H	3:C:133:HIS:HD2	1.31	0.77
2:B:110:LEU:HD11	2:B:216:PHE:CE1	2.20	0.77
1:A:92:THR:HG23	4:A:310:HOH:O	1.86	0.76
2:B:111:PRO:HD3	2:B:213:TRP:CZ3	2.22	0.74
1:A:46:ARG:NH2	1:A:46:ARG:HG2	2.03	0.73
1:A:96:ARG:HD3	4:A:645:HOH:O	1.89	0.71
1:A:191:LEU:HD12	1:A:191:LEU:N	2.06	0.71
1:A:9:ARG:HD3	4:A:290:HOH:O	1.91	0.71
3:C:94:HIS:HD2	3:C:99:ASP:OD1	1.76	0.69
1:A:101:THR:OG1	1:A:219:HIS:HE1	1.77	0.67
2:B:110:LEU:HD11	2:B:216:PHE:HE1	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:118:ARG:HH21	1:A:174:GLN:HE22	1.42	0.67
3:C:133:HIS:HE1	3:C:241:SER:O	1.80	0.65
3:C:130:THR:H	3:C:133:HIS:CD2	2.17	0.62
1:A:138:PHE:HE2	1:A:143:GLN:HG3	1.65	0.61
1:A:180:ARG:HE	1:A:203:ASN:HD21	1.47	0.61
3:C:15:ARG:HD3	3:C:18:GLN:OE1	2.01	0.61
3:C:140:THR:HG22	3:C:165:ARG:HB2	1.82	0.61
2:B:23:GLN:NE2	2:B:23:GLN:HA	2.15	0.60
2:B:102:ASN:OD1	2:B:219:HIS:HD2	1.85	0.60
1:A:46:ARG:HG2	1:A:46:ARG:HH21	1.65	0.60
3:C:80:VAL:HG21	3:C:151:MET:HG2	1.83	0.60
2:B:163:HIS:ND1	4:B:556:HOH:O	2.27	0.59
3:C:49:THR:HG22	3:C:51:SER:H	1.68	0.59
1:A:138:PHE:CE2	1:A:143:GLN:HG3	2.38	0.58
1:A:219:HIS:HD2	4:A:356:HOH:O	1.86	0.58
2:B:23:GLN:HA	2:B:23:GLN:HE21	1.67	0.58
3:C:19:TYR:HA	3:C:22:ASN:HD22	1.68	0.57
1:A:191:LEU:HD12	1:A:191:LEU:H	1.70	0.56
3:C:49:THR:HG21	3:C:51:SER:HB2	1.87	0.55
2:B:120:ARG:NH2	2:B:254:ALA:O	2.38	0.55
1:A:114:ARG:NH2	3:C:40:VAL:HG13	2.21	0.55
1:A:118:ARG:HH21	1:A:174:GLN:NE2	2.05	0.55
2:B:49:HIS:CD2	2:B:53:ILE:HG21	2.42	0.55
1:A:128:GLN:HB3	1:A:129:PRO:HD3	1.88	0.55
2:B:14:ASN:HB2	2:B:41:ARG:HG2	1.88	0.55
2:B:110:LEU:HD11	2:B:216:PHE:CD1	2.42	0.54
1:A:118:ARG:HE	1:A:174:GLN:NE2	1.99	0.53
1:A:53:LEU:HD22	1:A:102:LEU:HD13	1.89	0.53
2:B:23:GLN:HE21	2:B:23:GLN:CA	2.21	0.53
1:A:78:PRO:HD3	1:A:100:PRO:HD3	1.92	0.52
2:B:84:LEU:HB2	2:B:243:ILE:HD13	1.92	0.52
3:C:49:THR:CG2	3:C:51:SER:H	2.23	0.52
3:C:57:GLU:O	3:C:57:GLU:HG3	2.10	0.52
1:A:37:GLN:HB3	1:A:38:PRO:HD3	1.93	0.51
1:A:81:MET:HE1	3:C:276:PRO:HD2	1.91	0.51
2:B:111:PRO:O	2:B:113:ALA:N	2.43	0.51
1:A:78:PRO:CD	1:A:100:PRO:HD3	2.40	0.50
3:C:19:TYR:HA	3:C:22:ASN:ND2	2.27	0.50
1:A:180:ARG:HE	1:A:203:ASN:ND2	2.10	0.49
1:A:81:MET:HE2	3:C:275:ARG:HA	1.95	0.49
2:B:142:HIS:H	2:B:145:GLN:NE2	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:142:HIS:H	2:B:145:GLN:HE21	1.62	0.48
1:A:92:THR:HG21	3:C:275:ARG:HE	1.79	0.47
2:B:13:VAL:HG11	2:B:16:SER:HB2	1.95	0.47
3:C:275:ARG:NH1	4:C:619:HOH:O	2.47	0.47
1:A:250:SER:O	1:A:252:THR:HG23	2.14	0.47
2:B:20:THR:HA	2:B:35:ASN:O	2.15	0.47
1:A:96:ARG:HH11	1:A:96:ARG:HG3	1.79	0.47
3:C:98:VAL:HG12	3:C:98:VAL:O	2.14	0.47
1:A:191:LEU:N	1:A:191:LEU:CD1	2.74	0.46
1:A:150:ASN:HD21	1:A:152:TYR:HB2	1.80	0.46
2:B:86:ARG:HH11	2:B:118:MET:CE	2.28	0.46
1:A:225:PHE:O	1:A:226:ARG:HG2	2.16	0.46
1:A:226:ARG:HD3	4:A:391:HOH:O	2.15	0.46
1:A:133:VAL:HG13	1:A:210:SER:HB3	1.98	0.46
1:A:24:ASP:HA	3:C:179:VAL:HB	1.97	0.45
2:B:96:ASN:HB3	2:B:231:SER:HB3	1.96	0.45
3:C:87:HIS:HD2	4:C:293:HOH:O	1.98	0.45
3:C:74:THR:CG2	4:C:550:HOH:O	2.64	0.45
2:B:114:LEU:N	2:B:114:LEU:HD12	2.33	0.44
1:A:221:ALA:HB1	1:A:225:PHE:HB3	1.99	0.44
2:B:10:GLN:H	2:B:10:GLN:CD	2.21	0.44
3:C:219:GLN:NE2	3:C:219:GLN:H	2.15	0.44
1:A:133:VAL:HG22	1:A:165:PHE:CE1	2.53	0.44
2:B:116:SER:O	2:B:120:ARG:HG3	2.18	0.44
3:C:93:ASN:ND2	4:C:348:HOH:O	2.51	0.44
3:C:74:THR:HG22	4:C:550:HOH:O	2.18	0.43
3:C:94:HIS:CD2	3:C:99:ASP:OD1	2.65	0.43
2:B:142:HIS:HD2	2:B:144:PHE:H	1.67	0.43
3:C:126:ARG:HH11	3:C:249:GLU:CD	2.22	0.43
1:A:161:ILE:C	1:A:161:ILE:HD12	2.39	0.43
2:B:14:ASN:ND2	2:B:43:GLN:H	2.17	0.43
2:B:150:VAL:O	2:B:218:ALA:HA	2.19	0.43
2:B:41:ARG:NH2	4:B:314:HOH:O	2.51	0.42
3:C:178:LEU:HD12	3:C:178:LEU:O	2.18	0.42
1:A:182:ASN:ND2	3:C:43:LYS:HE2	2.35	0.42
2:B:23:GLN:NE2	2:B:23:GLN:CA	2.80	0.42
1:A:215:ILE:HD12	1:A:217:LEU:HD21	2.01	0.42
1:A:230:LEU:HD23	3:C:62:ILE:HG13	2.01	0.42
3:C:178:LEU:HD12	3:C:178:LEU:C	2.40	0.41
2:B:35:ASN:ND2	4:B:337:HOH:O	2.49	0.41
1:A:83:THR:HB	3:C:275:ARG:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:136:HIS:ND1	2:B:190:GLU:OE1	2.44	0.41
2:B:145:GLN:HE22	2:B:232:LEU:HD21	1.85	0.41
3:C:136:ARG:HG3	3:C:169:ASP:HA	2.03	0.41
2:B:87:PRO:HA	2:B:239:HIS:HB3	2.03	0.41
3:C:230:LEU:HA	3:C:230:LEU:HD23	1.86	0.41
2:B:10:GLN:CD	2:B:10:GLN:N	2.75	0.41
2:B:106:PHE:CD1	2:B:106:PHE:C	2.94	0.41
3:C:90:ILE:HA	3:C:90:ILE:HD12	1.68	0.40
3:C:211:LYS:HD3	4:C:590:HOH:O	2.19	0.40
2:B:9:LYS:C	2:B:11:MET:H	2.24	0.40
2:B:11:MET:HE2	2:B:55:THR:HB	2.04	0.40
3:C:199:ASN:O	3:C:200:ARG:C	2.60	0.40
1:A:232:GLY:HA2	3:C:106:LEU:HG	2.02	0.40
3:C:213:TYR:CZ	3:C:218:ASP:HB2	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	262/271 (97%)	251 (96%)	10 (4%)	1 (0%)	34	54
2	B	245/255 (96%)	235 (96%)	8 (3%)	2 (1%)	19	35
3	C	274/285 (96%)	267 (97%)	7 (3%)	0	100	100
All	All	781/811 (96%)	753 (96%)	25 (3%)	3 (0%)	34	54

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	112	ASP
1	A	194	ALA
2	B	211	THR

5.3.2 Protein sidechains

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	224/231 (97%)	212 (95%)	12 (5%)	22	42
2	B	224/231 (97%)	214 (96%)	10 (4%)	27	51
3	C	251/258 (97%)	237 (94%)	14 (6%)	21	40
All	All	699/720 (97%)	663 (95%)	36 (5%)	23	44

All (36) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	VAL
1	A	53	LEU
1	A	103	LEU
1	A	131	PRO
1	A	142	ASP
1	A	156	PHE
1	A	191	LEU
1	A	204	VAL
1	A	213	SER
1	A	219	HIS
1	A	226	ARG
1	A	262	TYR
2	B	23	GLN
2	B	24	ARG
2	B	57	GLN
2	B	191	VAL
2	B	192	LEU
2	B	193	LEU
2	B	211	THR
2	B	217	LEU
2	B	219	HIS
2	B	228	SER
3	C	15	ARG
3	C	40	VAL
3	C	49	THR
3	C	74	THR

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Mol	Chain	Res	Type
3	C	90	ILE
3	C	106	LEU
3	C	136	ARG
3	C	137	VAL
3	C	145	VAL
3	C	156	LYS
3	C	165	ARG
3	C	221	PHE
3	C	265	LEU
3	C	272	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (22) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	40	GLN
1	A	141	GLN
1	A	150	ASN
1	A	174	GLN
1	A	203	ASN
1	A	219	HIS
2	B	14	ASN
2	B	23	GLN
2	B	30	GLN
2	B	35	ASN
2	B	49	HIS
2	B	138	GLN
2	B	142	HIS
2	B	145	GLN
2	B	203	GLN
2	B	219	HIS
3	C	22	ASN
3	C	28	GLN
3	C	87	HIS
3	C	94	HIS
3	C	133	HIS
3	C	219	GLN

5.3.3 RNA

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, 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	264/271 (97%)	0.31	30 (11%) 5 4	12, 19, 52, 104	0
2	B	247/255 (96%)	0.66	43 (17%) 1 1	10, 18, 41, 100	0
3	C	276/285 (96%)	0.37	38 (13%) 2 2	10, 17, 38, 61	0
All	All	787/811 (97%)	0.44	111 (14%) 2 2	10, 18, 46, 104	0

All (111) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	192	TYR	9.9
1	A	156	PHE	9.2
1	A	157	CYS	8.2
1	A	154	THR	6.4
2	B	48	VAL	6.1
1	A	155	ASP	5.8
1	A	158	SER	5.7
1	A	193	ASN	5.5
2	B	54	ILE	5.3
2	B	51	ASN	5.2
3	C	13	VAL	5.2
2	B	50	ASP	5.1
1	A	152	TYR	5.0
2	B	72	VAL	4.9
3	C	132	TYR	4.9
3	C	172	ASP	4.8
2	B	47	PHE	4.8
3	C	260	VAL	4.6
2	B	11	MET	4.6
2	B	189	THR	4.5
2	B	44	ILE	4.4
2	B	45	THR	4.4
3	C	12	VAL	4.4

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Mol	Chain	Res	Type	RSRZ
1	A	140	MET	4.4
2	B	247	PHE	4.3
1	A	167	THR	4.2
2	B	33	GLU	4.2
2	B	71	SER	4.2
3	C	14	GLN	4.1
2	B	10	GLN	4.1
2	B	52	PRO	4.0
2	B	53	ILE	3.9
3	C	15	ARG	3.9
3	C	116	TYR	3.7
2	B	58	LEU	3.7
2	B	46	THR	3.6
2	B	12	ASN	3.6
3	C	16	PRO	3.5
3	C	261	PRO	3.4
3	C	17	SER	3.4
1	A	141	GLN	3.4
3	C	263	THR	3.4
3	C	115	LYS	3.3
1	A	264	SER	3.3
3	C	186	THR	3.3
3	C	131	ASN	3.2
3	C	185	LEU	3.2
2	B	143	PRO	3.2
2	B	49	HIS	3.1
1	A	168	LYS	3.1
2	B	249	THR	3.1
3	C	262	ASN	3.1
3	C	276	PRO	3.0
3	C	171	ARG	3.0
1	A	252	THR	3.0
2	B	35	ASN	3.0
2	B	69	VAL	2.9
2	B	144	PHE	2.9
3	C	201	PRO	2.9
3	C	11	ILE	2.8
1	A	139	THR	2.7
1	A	85	ALA	2.7
1	A	191	LEU	2.6
3	C	161	GLU	2.6
3	C	20	PHE	2.6

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Mol	Chain	Res	Type	RSRZ
3	C	199	ASN	2.6
1	A	137	LEU	2.6
3	C	44	THR	2.5
2	B	248	PRO	2.5
3	C	148	ASP	2.5
1	A	36	GLU	2.5
3	C	162	TYR	2.4
3	C	34	LEU	2.4
2	B	34	ILE	2.4
2	B	73	SER	2.4
3	C	273	THR	2.4
1	A	166	VAL	2.4
3	C	114	PHE	2.4
3	C	50	SER	2.4
2	B	188	GLU	2.4
2	B	9	LYS	2.3
2	B	187	LYS	2.3
2	B	186	SER	2.3
3	C	259	ALA	2.3
3	C	170	LEU	2.3
1	A	250	SER	2.3
2	B	59	ILE	2.3
2	B	83	PHE	2.2
3	C	96	THR	2.2
1	A	1	VAL	2.2
3	C	167	VAL	2.2
1	A	18	GLY	2.2
1	A	64	ASP	2.2
1	A	86	ASP	2.2
1	A	88	LEU	2.2
2	B	190	GLU	2.2
2	B	127	THR	2.2
2	B	55	THR	2.1
1	A	159	SER	2.1
3	C	18	GLN	2.1
2	B	36	GLU	2.1
1	A	160	ASN	2.1
2	B	87	PRO	2.1
2	B	126	PHE	2.1
1	A	96	ARG	2.1
1	A	95	PRO	2.1
3	C	190	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
2	B	162	LEU	2.1
2	B	111	PRO	2.0
2	B	98	SER	2.0
3	C	154	ASP	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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.