



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 19, 2026 – 08:26 PM UTC

PDB ID : 2Q40 / pdb_00002q40
Title : Ensemble refinement of the protein crystal structure of gene product from Arabidopsis thaliana At2g17340
Authors : Levin, E.J.; Kondrashov, D.A.; Wesenberg, G.E.; Phillips Jr., G.N.; Center for Eukaryotic Structural Genomics (CESG)
Deposited on : 2007-05-31
Resolution : 1.70 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

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	:	4-5-2 with Phenix2.0
Xtriage (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

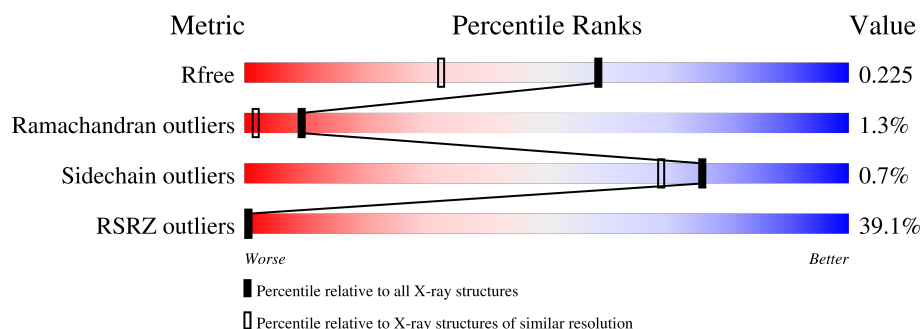
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.70 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	5551 (1.70-1.70)
Ramachandran outliers	187476	5846 (1.70-1.70)
Sidechain outliers	187428	5846 (1.70-1.70)
RSRZ outliers	180081	5554 (1.70-1.70)

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	1-A	367	37% 92% 7%
1	10-A	367	92% 7%
1	11-A	367	92% 7%
1	12-A	367	91% 7%
1	13-A	367	91% 7%
1	14-A	367	90% 7%
1	15-A	367	92% 7%

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Mol	Chain	Length	Quality of chain
1	16-A	367	 93% • 7%
1	2-A	367	 92% • 7%
1	3-A	367	 92% • 7%
1	4-A	367	 92% • 7%
1	5-A	367	 92% • 7%
1	6-A	367	 92% • 7%
1	7-A	367	 92% • 7%
1	8-A	367	 92% • 7%
1	9-A	367	 92% • 7%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 48880 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 Protein At2g17340.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	2-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	3-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	4-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	5-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	6-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	7-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	8-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	9-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	10-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	11-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	12-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	13-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	14-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	15-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			
1	16-A	343	Total	C	N	O	S	0	0	0
			2696	1723	456	506	11			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	SER	-	expression tag	UNP Q949P3

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	1-A	2	Total Mg 2 2	0	0
2	2-A	2	Total Mg 2 2	0	0
2	3-A	2	Total Mg 2 2	0	0
2	4-A	2	Total Mg 2 2	0	0
2	5-A	2	Total Mg 2 2	0	0
2	6-A	2	Total Mg 2 2	0	0
2	7-A	2	Total Mg 2 2	0	0
2	8-A	2	Total Mg 2 2	0	0
2	9-A	2	Total Mg 2 2	0	0
2	10-A	2	Total Mg 2 2	0	0
2	11-A	2	Total Mg 2 2	0	0
2	12-A	2	Total Mg 2 2	0	0
2	13-A	2	Total Mg 2 2	0	0
2	14-A	2	Total Mg 2 2	0	0
2	15-A	2	Total Mg 2 2	0	0
2	16-A	2	Total Mg 2 2	0	0

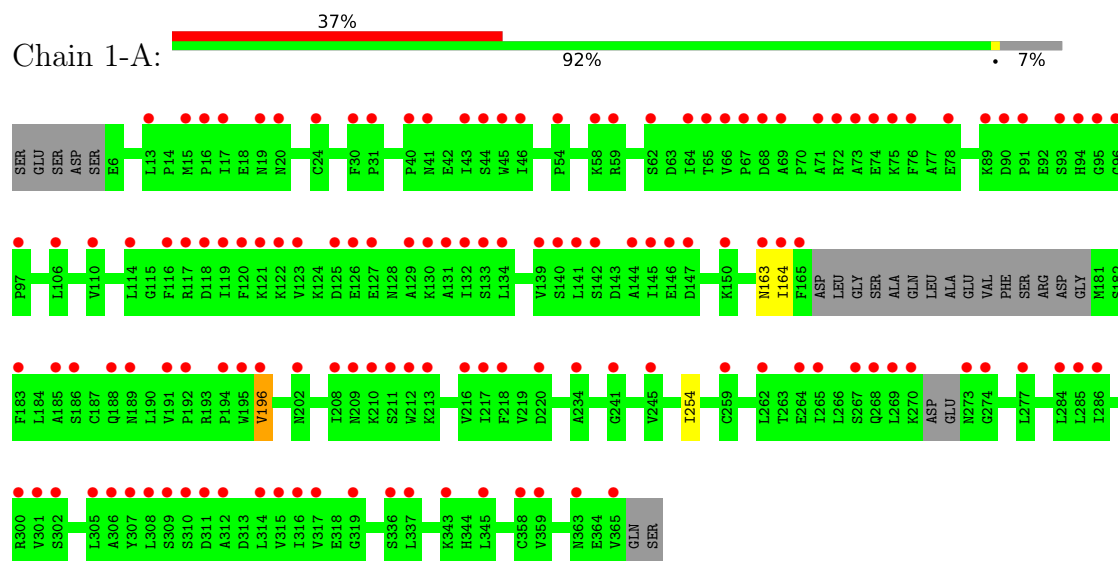
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	1-A	357	Total 357	O 357	0	0
3	2-A	357	Total 357	O 357	0	0
3	3-A	357	Total 357	O 357	0	0
3	4-A	357	Total 357	O 357	0	0
3	5-A	357	Total 357	O 357	0	0
3	6-A	357	Total 357	O 357	0	0
3	7-A	357	Total 357	O 357	0	0
3	8-A	357	Total 357	O 357	0	0
3	9-A	357	Total 357	O 357	0	0
3	10-A	357	Total 357	O 357	0	0
3	11-A	357	Total 357	O 357	0	0
3	12-A	357	Total 357	O 357	0	0
3	13-A	357	Total 357	O 357	0	0
3	14-A	357	Total 357	O 357	0	0
3	15-A	357	Total 357	O 357	0	0
3	16-A	357	Total 357	O 357	0	0

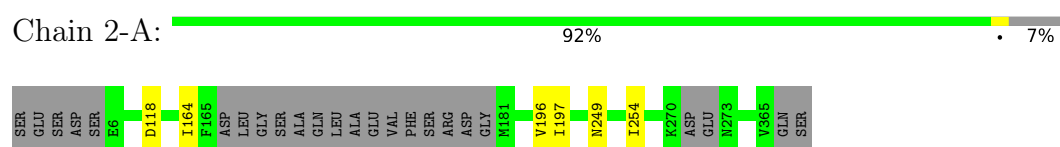
3 Residue-property plots [i](#)

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.

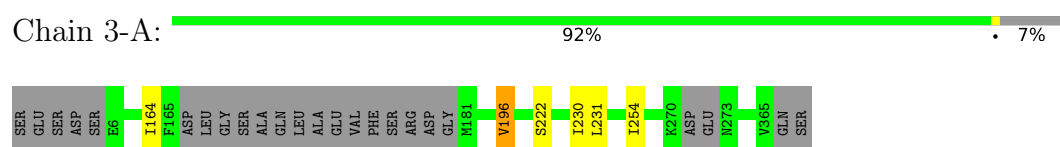
• Molecule 1: Protein At2g17340



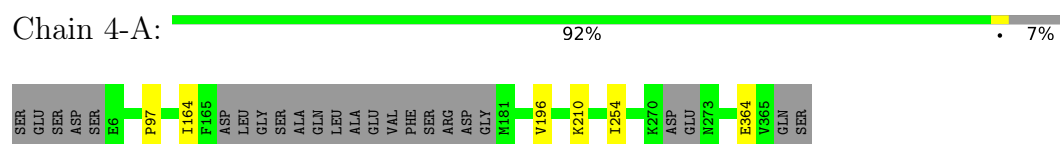
• Molecule 1: Protein At2g17340



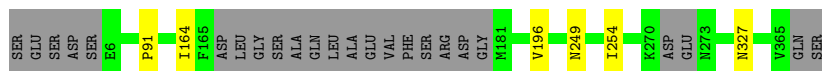
• Molecule 1: Protein At2g17340



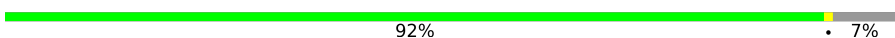
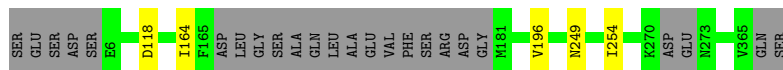
• Molecule 1: Protein At2g17340



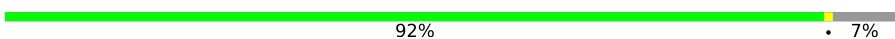
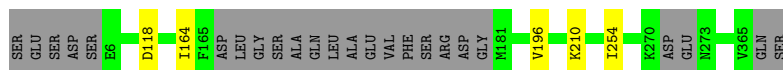
• Molecule 1: Protein At2g17340

Chain 5-A:  92% • 7%

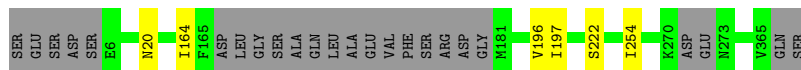
• Molecule 1: Protein At2g17340

Chain 6-A:  92% • 7%

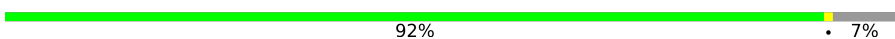
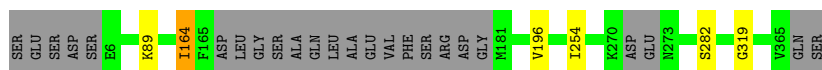
• Molecule 1: Protein At2g17340

Chain 7-A:  92% • 7%

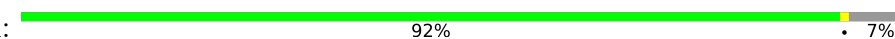
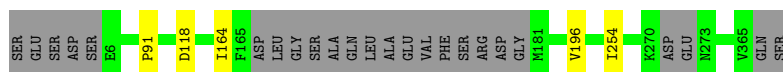
• Molecule 1: Protein At2g17340

Chain 8-A:  92% • 7%

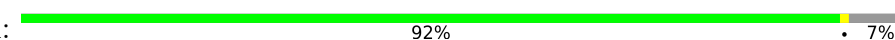
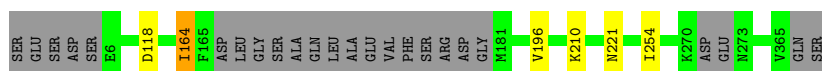
• Molecule 1: Protein At2g17340

Chain 9-A:  92% • 7%

• Molecule 1: Protein At2g17340

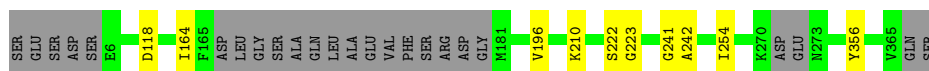
Chain 10-A:  92% • 7%

• Molecule 1: Protein At2g17340

Chain 11-A:  92% • 7%

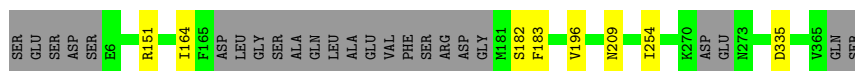
• Molecule 1: Protein At2g17340

Chain 12-A:  91% 7%



• Molecule 1: Protein At2g17340

Chain 13-A:  91% 7%



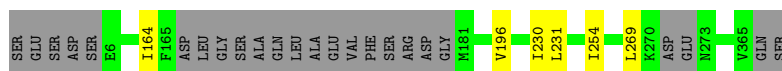
• Molecule 1: Protein At2g17340

Chain 14-A:  90% 7%



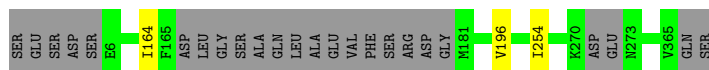
• Molecule 1: Protein At2g17340

Chain 15-A:  92% 7%



• Molecule 1: Protein At2g17340

Chain 16-A:  93% 7%



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	40.17Å 43.28Å 52.64Å 74.57° 74.60° 84.04°	Depositor
Resolution (Å)	34.91 – 1.70 34.91 – 1.70	Depositor EDS
% Data completeness (in resolution range)	97.0 (34.91-1.70) 97.1 (34.91-1.70)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.39 (at 1.70Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.165 , 0.221 0.167 , 0.225	Depositor DCC
R_{free} test set	1773 reflections (4.85%)	wwPDB-VP
Wilson B-factor (Å ²)	22.9	Xtriage
Anisotropy	0.100	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.02 , 60.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	48880	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.75% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MG

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	1-A	0.19	0/2747	0.34	0/3717
1	2-A	0.19	0/2747	0.34	0/3717
1	3-A	0.19	0/2747	0.34	0/3717
1	4-A	0.19	0/2747	0.34	0/3717
1	5-A	0.19	0/2747	0.34	0/3717
1	6-A	0.19	0/2747	0.34	0/3717
1	7-A	0.19	0/2747	0.34	0/3717
1	8-A	0.19	0/2747	0.34	0/3717
1	9-A	0.19	0/2747	0.34	0/3717
1	10-A	0.19	0/2747	0.34	0/3717
1	11-A	0.19	0/2747	0.34	0/3717
1	12-A	0.19	0/2747	0.34	0/3717
1	13-A	0.19	0/2747	0.34	0/3717
1	14-A	0.19	0/2747	0.34	0/3717
1	15-A	0.19	0/2747	0.34	0/3717
1	16-A	0.19	0/2747	0.34	0/3717
All	All	0.19	0/43952	0.34	0/59472

There are no bond length outliers.

There are no bond angle outliers.

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	1-A	2696	0	2720	0	0
1	2-A	2696	0	2720	0	0
1	3-A	2696	0	2720	0	0
1	4-A	2696	0	2720	0	0
1	5-A	2696	0	2720	0	0
1	6-A	2696	0	2720	0	0
1	7-A	2696	0	2720	0	0
1	8-A	2696	0	2720	0	0
1	9-A	2696	0	2720	0	0
1	10-A	2696	0	2720	0	0
1	11-A	2696	0	2720	0	0
1	12-A	2696	0	2720	0	0
1	13-A	2696	0	2720	0	0
1	14-A	2696	0	2720	0	0
1	15-A	2696	0	2720	0	0
1	16-A	2696	0	2720	0	0
2	1-A	2	0	0	0	0
2	2-A	2	0	0	0	0
2	3-A	2	0	0	0	0
2	4-A	2	0	0	0	0
2	5-A	2	0	0	0	0
2	6-A	2	0	0	0	0
2	7-A	2	0	0	0	0
2	8-A	2	0	0	0	0
2	9-A	2	0	0	0	0
2	10-A	2	0	0	0	0
2	11-A	2	0	0	0	0
2	12-A	2	0	0	0	0
2	13-A	2	0	0	0	0
2	14-A	2	0	0	0	0
2	15-A	2	0	0	0	0
2	16-A	2	0	0	0	0
3	1-A	357	0	0	0	0
3	2-A	357	0	0	0	0
3	3-A	357	0	0	0	0
3	4-A	357	0	0	0	0
3	5-A	357	0	0	0	0
3	6-A	357	0	0	0	0
3	7-A	357	0	0	0	0
3	8-A	357	0	0	0	0
3	9-A	357	0	0	0	0
3	10-A	357	0	0	0	0
3	11-A	357	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	12-A	357	0	0	0	0
3	13-A	357	0	0	0	0
3	14-A	357	0	0	0	0
3	15-A	357	0	0	0	0
3	16-A	357	0	0	0	0
All	All	48880	0	43520	0	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). Clashscore could not be calculated for this entry.

There are no clashes within the asymmetric unit.

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	1-A	337/367 (92%)	317 (94%)	17 (5%)	3 (1%)	14	4
1	2-A	337/367 (92%)	310 (92%)	23 (7%)	4 (1%)	10	2
1	3-A	337/367 (92%)	314 (93%)	18 (5%)	5 (2%)	8	1
1	4-A	337/367 (92%)	310 (92%)	23 (7%)	4 (1%)	10	2
1	5-A	337/367 (92%)	315 (94%)	18 (5%)	4 (1%)	10	2
1	6-A	337/367 (92%)	317 (94%)	17 (5%)	3 (1%)	14	4
1	7-A	337/367 (92%)	316 (94%)	18 (5%)	3 (1%)	14	4
1	8-A	337/367 (92%)	310 (92%)	23 (7%)	4 (1%)	10	2
1	9-A	337/367 (92%)	308 (91%)	24 (7%)	5 (2%)	8	1
1	10-A	337/367 (92%)	315 (94%)	19 (6%)	3 (1%)	14	4
1	11-A	337/367 (92%)	311 (92%)	21 (6%)	5 (2%)	8	1
1	12-A	337/367 (92%)	308 (91%)	21 (6%)	8 (2%)	4	1
1	13-A	337/367 (92%)	302 (90%)	29 (9%)	6 (2%)	6	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	14-A	337/367 (92%)	300 (89%)	27 (8%)	10 (3%)	3	0
1	15-A	337/367 (92%)	307 (91%)	26 (8%)	4 (1%)	10	2
1	16-A	337/367 (92%)	309 (92%)	27 (8%)	1 (0%)	36	22
All	All	5392/5872 (92%)	4969 (92%)	351 (6%)	72 (1%)	9	2

5 of 72 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	4-A	210	LYS
1	4-A	364	GLU
1	6-A	118	ASP
1	8-A	20	ASN
1	9-A	89	LYS

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	1-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	2-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	3-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	4-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	5-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	6-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	7-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	8-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	9-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	10-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	11-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	12-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	13-A	297/317 (94%)	295 (99%)	2 (1%)	76	69

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	14-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	15-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
1	16-A	297/317 (94%)	295 (99%)	2 (1%)	76	69
All	All	4752/5072 (94%)	4720 (99%)	32 (1%)	76	69

5 of 32 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	15-A	164	ILE
1	15-A	196	VAL
1	7-A	164	ILE
1	6-A	196	VAL
1	16-A	164	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 90 such sidechains are listed below:

Mol	Chain	Res	Type
1	11-A	188	GLN
1	13-A	344	HIS
1	11-A	268	GLN
1	12-A	275	GLN
1	14-A	209	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 32 ligands modelled in this entry, 32 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

There are no such residues in this entry.

5.8 Polymer linkage issues

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	1-A	343/367 (93%)	1.97	134 (39%) 1 0	0, 1, 2, 3	343 (100%)
1	2-A	0/367	-	-	-	-
1	3-A	0/367	-	-	-	-
1	4-A	0/367	-	-	-	-
1	5-A	0/367	-	-	-	-
1	6-A	0/367	-	-	-	-
1	7-A	0/367	-	-	-	-
1	8-A	0/367	-	-	-	-
1	9-A	0/367	-	-	-	-
1	10-A	0/367	-	-	-	-
1	11-A	0/367	-	-	-	-
1	12-A	0/367	-	-	-	-
1	13-A	0/367	-	-	-	-
1	14-A	0/367	-	-	-	-
1	15-A	0/367	-	-	-	-
1	16-A	0/367	-	-	-	-
All	All	343/5872 (5%)	1.97	134 (39%) 1 0	0, 1, 2, 3	343 (100%)

The worst 5 of 134 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	1-A	163	ASN	7.9
1	1-A	120	PHE	7.3
1	1-A	317	VAL	6.4
1	1-A	165	PHE	6.4
1	1-A	129	ALA	6.0

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 ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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($\text{\AA}^2$)	Q<0.9
2	MG	1-A	401	1/1	0.91	0.10	43,43,43,43	1
2	MG	2-A	400	1/1	-	-	16,16,16,16	1
2	MG	3-A	400	1/1	-	-	10,10,10,10	1
2	MG	4-A	400	1/1	-	-	19,19,19,19	1
2	MG	5-A	400	1/1	-	-	16,16,16,16	1
2	MG	6-A	400	1/1	-	-	16,16,16,16	1
2	MG	7-A	400	1/1	-	-	18,18,18,18	1
2	MG	8-A	400	1/1	-	-	11,11,11,11	1
2	MG	9-A	400	1/1	-	-	12,12,12,12	1
2	MG	10-A	400	1/1	-	-	18,18,18,18	1
2	MG	11-A	400	1/1	-	-	11,11,11,11	1
2	MG	12-A	400	1/1	-	-	10,10,10,10	1
2	MG	13-A	400	1/1	-	-	10,10,10,10	1
2	MG	14-A	400	1/1	-	-	6,6,6,6	1
2	MG	15-A	400	1/1	-	-	7,7,7,7	1
2	MG	16-A	400	1/1	-	-	7,7,7,7	1
2	MG	1-A	400	1/1	0.92	0.07	10,10,10,10	1
2	MG	2-A	401	1/1	-	-	43,43,43,43	1
2	MG	3-A	401	1/1	-	-	43,43,43,43	1
2	MG	4-A	401	1/1	-	-	43,43,43,43	1
2	MG	5-A	401	1/1	-	-	43,43,43,43	1
2	MG	6-A	401	1/1	-	-	43,43,43,43	1
2	MG	7-A	401	1/1	-	-	43,43,43,43	1
2	MG	8-A	401	1/1	-	-	43,43,43,43	1
2	MG	9-A	401	1/1	-	-	43,43,43,43	1
2	MG	10-A	401	1/1	-	-	43,43,43,43	1
2	MG	11-A	401	1/1	-	-	43,43,43,43	1
2	MG	12-A	401	1/1	-	-	43,43,43,43	1
2	MG	13-A	401	1/1	-	-	42,42,42,42	1
2	MG	14-A	401	1/1	-	-	42,42,42,42	1
2	MG	15-A	401	1/1	-	-	42,42,42,42	1
2	MG	16-A	401	1/1	-	-	42,42,42,42	1

6.5 Other polymers [i](#)

There are no such residues in this entry.