



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 18, 2023 – 12:13 PM JST

PDB ID : 8GRE
Title : F-box protein in complex with skp1(FL) and substrate
Authors : Nishio, K.; Nakatsukasa, K.; Kamura, T.; Mizushima, T.
Deposited on : 2022-09-01
Resolution : 2.30 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
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.32.2
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) : 2.32.2

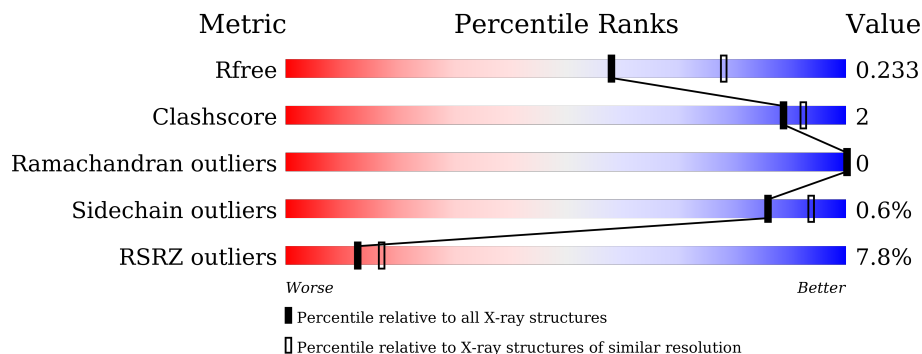
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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	460	<div style="display: flex; align-items: center;"> <div style="width: 6%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 89%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 6%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 5%; height: 10px; background-color: grey;"></div> </div> <p style="margin-left: 20px;">6% 89% 6% 5%</p>
1	B	460	<div style="display: flex; align-items: center;"> <div style="width: 5%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 90%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 6%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 5%; height: 10px; background-color: grey;"></div> </div> <p style="margin-left: 20px;">5% 90% 6% 5%</p>
2	C	369	<div style="display: flex; align-items: center;"> <div style="width: 0%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 87%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 5%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 8%; height: 10px; background-color: grey;"></div> </div> <p style="margin-left: 20px;">% 87% 5% 8%</p>
3	D	194	<div style="display: flex; align-items: center;"> <div style="width: 24%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 44%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 5%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 52%; height: 10px; background-color: grey;"></div> </div> <p style="margin-left: 20px;">24% 44% 5% 52%</p>

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 10749 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 Citrate synthase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	438	3460	2213	582	658	7	0	0	0
1	B	438	3460	2212	583	658	7	0	0	0

- Molecule 2 is a protein called F-box protein UCC1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	C	338	2785	1817	456	501	11	0	0	0

- Molecule 3 is a protein called E3 ubiquitin ligase complex SCF subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	D	94	776	489	134	150	3	0	0	0

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 6 3 3	0	0
4	A	1	Total C O 6 3 3	0	0
4	C	1	Total C O 6 3 3	0	0
4	C	1	Total C O 6 3 3	0	0

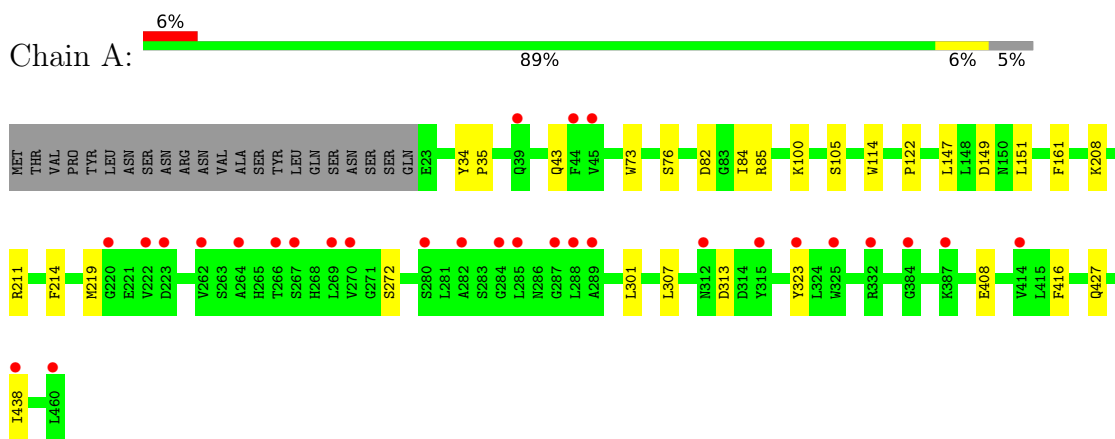
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	73	Total O 73 73	0	0
5	B	68	Total O 68 68	0	0
5	C	93	Total O 93 93	0	0
5	D	10	Total O 10 10	0	0

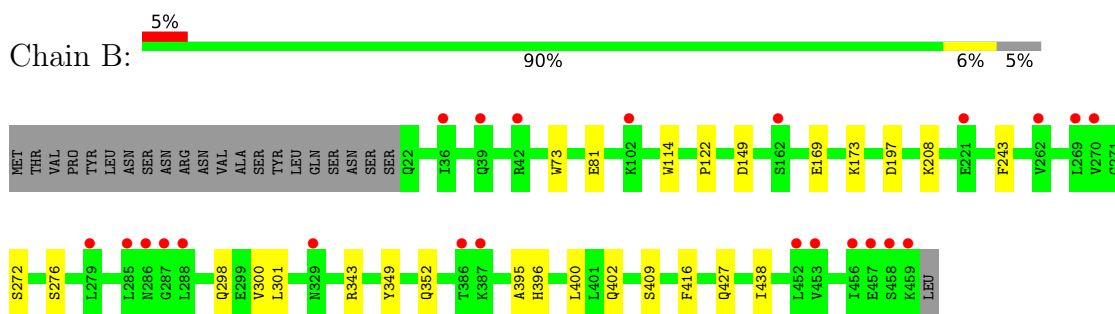
3 Residue-property plots [i](#)

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.

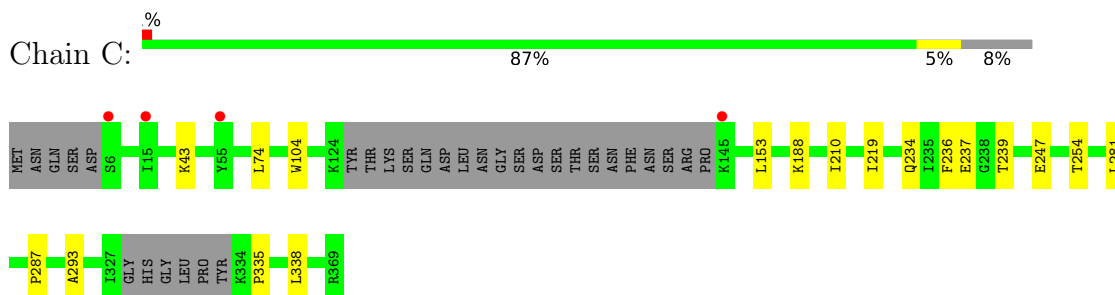
- Molecule 1: Citrate synthase



- Molecule 1: Citrate synthase



- Molecule 2: F-box protein UCC1



- Molecule 3: E3 ubiquitin ligase complex SCF subunit

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	77.59Å 150.94Å 160.29Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	37.71 – 2.30 43.61 – 2.30	Depositor EDS
% Data completeness (in resolution range)	98.8 (37.71-2.30) 92.6 (43.61-2.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.40 (at 2.29Å)	Xtrriage
Refinement program	PHENIX 1.18.2_3874	Depositor
R, R_{free}	0.206 , 0.232 0.206 , 0.233	Depositor DCC
R_{free} test set	1986 reflections (2.37%)	wwPDB-VP
Wilson B-factor (Å ²)	36.4	Xtrriage
Anisotropy	0.302	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 45.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	10749	wwPDB-VP
Average B, all atoms (Å ²)	51.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.88% 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](#)

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

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	0.24	0/3541	0.38	0/4795
1	B	0.24	0/3541	0.38	0/4796
2	C	0.24	0/2864	0.41	0/3896
3	D	0.23	0/790	0.34	0/1067
All	All	0.24	0/10736	0.39	0/14554

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 [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	3460	0	3434	13	0
1	B	3460	0	3431	12	0
2	C	2785	0	2773	9	0
3	D	776	0	754	5	0
4	A	12	0	16	0	0
4	C	12	0	16	0	0
5	A	73	0	0	0	0
5	B	68	0	0	0	0
5	C	93	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	D	10	0	0	0	0
All	All	10749	0	10424	39	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 2.

All (39) 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)
2:C:293:ALA:HB1	2:C:338:LEU:HD11	1.83	0.60
1:B:272:SER:HB2	1:B:438:ILE:HA	1.92	0.51
2:C:219:ILE:HG13	2:C:287:PRO:HA	1.93	0.51
1:A:211:ARG:HG3	1:A:219:MET:HG2	1.93	0.51
1:A:272:SER:HB2	1:A:438:ILE:HA	1.92	0.51
2:C:74:LEU:HD11	2:C:335:PRO:HG2	1.92	0.50
3:D:93:TRP:HH2	3:D:145:PRO:HB2	1.75	0.50
1:A:214:PHE:CD1	1:A:408:GLU:HG2	2.50	0.46
1:B:352:GLN:HB3	1:B:400:LEU:HD11	1.97	0.46
1:A:82:ASP:OD2	1:A:85:ARG:NH2	2.45	0.46
1:B:169:GLU:OE1	1:B:276:SER:OG	2.28	0.46
3:D:93:TRP:CH2	3:D:145:PRO:HB2	2.50	0.46
1:B:301:LEU:HD21	1:B:402:GLN:HE21	1.80	0.46
2:C:188:LYS:HB2	2:C:254:THR:HG22	1.98	0.46
1:B:73:TRP:CE3	1:B:427:GLN:HG2	2.52	0.45
3:D:120:ASP:HA	3:D:123:PHE:HB3	1.97	0.45
1:B:300:VAL:HG11	1:B:395:ALA:HA	1.99	0.45
1:B:81:GLU:OE1	1:B:343:ARG:NH1	2.50	0.45
1:B:149:ASP:OD1	1:B:208:LYS:HE3	2.17	0.44
2:C:153:LEU:HD23	2:C:247:GLU:HA	1.99	0.44
2:C:234:GLN:HA	2:C:237:GLU:HG3	1.99	0.44
1:A:76:SER:HB2	1:A:84:ILE:HD11	1.99	0.44
1:B:114:TRP:CD2	1:B:122:PRO:HB3	2.52	0.44
1:A:147:LEU:O	1:A:151:LEU:HG	2.17	0.44
1:A:307:LEU:HD13	1:A:323:TYR:CD1	2.54	0.43
3:D:121:ARG:O	3:D:125:LYS:HG3	2.19	0.43
2:C:210:ILE:HD11	2:C:281:LEU:HB3	2.01	0.42
2:C:43:LYS:HB2	2:C:104:TRP:CD1	2.55	0.42
1:B:173:LYS:NZ	1:B:197:ASP:OD2	2.51	0.42
2:C:236:PHE:O	2:C:239:THR:HG22	2.20	0.41
1:A:100:LYS:HD3	1:A:105:SER:HA	2.03	0.41
1:A:114:TRP:CD2	1:A:122:PRO:HB3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:301:LEU:HD12	1:A:301:LEU:HA	1.93	0.41
1:A:149:ASP:OD1	1:A:208:LYS:HE3	2.21	0.41
1:B:298:GLN:HG3	1:B:409:SER:HB2	2.03	0.41
3:D:88:GLN:O	3:D:92:GLU:HG3	2.21	0.41
1:B:349:TYR:CD2	1:B:396:HIS:HB2	2.56	0.40
1:A:34:TYR:CG	1:A:35:PRO:HD3	2.57	0.40
1:A:73:TRP:CZ3	1:A:427:GLN:HG2	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	436/460 (95%)	426 (98%)	10 (2%)	0	100	100
1	B	436/460 (95%)	428 (98%)	8 (2%)	0	100	100
2	C	332/369 (90%)	325 (98%)	7 (2%)	0	100	100
3	D	90/194 (46%)	87 (97%)	3 (3%)	0	100	100
All	All	1294/1483 (87%)	1266 (98%)	28 (2%)	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	375/396 (95%)	371 (99%)	4 (1%)	73	86
1	B	375/396 (95%)	373 (100%)	2 (0%)	88	95
2	C	309/337 (92%)	309 (100%)	0	100	100
3	D	83/179 (46%)	82 (99%)	1 (1%)	71	84
All	All	1142/1308 (87%)	1135 (99%)	7 (1%)	86	94

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

Mol	Chain	Res	Type
1	A	43	GLN
1	A	161	PHE
1	A	313	ASP
1	A	416	PHE
1	B	243	PHE
1	B	416	PHE
3	D	194	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	180	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](#)

4 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	GOL	A	502	-	5,5,5	0.91	0	5,5,5	1.00	0
4	GOL	C	402	-	5,5,5	0.89	0	5,5,5	1.02	0
4	GOL	A	501	-	5,5,5	0.90	0	5,5,5	1.02	0
4	GOL	C	401	-	5,5,5	0.89	0	5,5,5	0.99	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	GOL	A	502	-	-	0/4/4/4	-
4	GOL	C	402	-	-	0/4/4/4	-
4	GOL	A	501	-	-	2/4/4/4	-
4	GOL	C	401	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	501	GOL	O1-C1-C2-C3
4	C	401	GOL	O1-C1-C2-C3
4	A	501	GOL	O1-C1-C2-O2
4	C	401	GOL	O1-C1-C2-O2

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

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	438/460 (95%)	0.37	29 (6%) 18 23	25, 48, 72, 86	0
1	B	438/460 (95%)	0.31	23 (5%) 26 33	27, 50, 79, 96	0
2	C	338/369 (91%)	0.09	4 (1%) 79 83	26, 41, 71, 91	0
3	D	94/194 (48%)	2.61	46 (48%) 0 0	33, 88, 121, 129	0
All	All	1308/1483 (88%)	0.44	102 (7%) 13 17	25, 48, 83, 129	0

All (102) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	D	90	VAL	11.7
3	D	93	TRP	10.7
3	D	86	VAL	10.0
3	D	123	PHE	9.2
3	D	126	VAL	8.4
3	D	91	ILE	8.3
3	D	124	LEU	8.2
3	D	87	LEU	8.0
3	D	94	ALA	7.6
3	D	122	GLU	7.5
3	D	119	TRP	7.5
3	D	145	PRO	7.3
3	D	143	ILE	6.2
3	D	116	VAL	6.0
3	D	88	GLN	5.5
3	D	95	GLU	5.2
3	D	140	TYR	5.0
3	D	147	LEU	4.9
3	D	115	PRO	4.8
3	D	135	ILE	4.7
3	D	96	HIS	4.7

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Mol	Chain	Res	Type	RSRZ
3	D	131	LEU	4.5
3	D	144	LYS	4.4
3	D	149	ALA	4.4
1	B	453	VAL	4.3
3	D	120	ASP	4.3
1	B	102	LYS	4.1
3	D	134	ILE	4.1
1	B	456	ILE	4.1
1	A	222	VAL	4.0
3	D	130	MET	3.9
3	D	141	LEU	3.6
1	A	387	LYS	3.4
1	A	384	GLY	3.4
1	A	288	LEU	3.3
1	A	323	TYR	3.2
1	B	458	SER	3.2
2	C	6	SER	3.2
3	D	127	ASP	3.2
1	B	452	LEU	3.1
3	D	117	ASP	3.1
3	D	136	LEU	3.1
3	D	113	SER	3.0
1	A	287	GLY	3.0
1	B	387	LYS	3.0
1	A	315	TYR	2.9
2	C	145	LYS	2.9
1	A	45	VAL	2.8
3	D	132	TYR	2.8
1	A	285	LEU	2.8
3	D	114	ALA	2.8
3	D	146	LEU	2.7
1	A	44	PHE	2.6
3	D	139	ASN	2.6
1	A	332	ARG	2.6
1	A	325	TRP	2.6
3	D	125	LYS	2.6
1	B	269	LEU	2.5
3	D	142	ASN	2.5
1	B	386	THR	2.5
1	A	269	LEU	2.5
1	B	288	LEU	2.5
1	A	312	ASN	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	284	GLY	2.4
1	B	39	GLN	2.4
1	A	39	GLN	2.4
1	A	270	VAL	2.4
2	C	55	TYR	2.4
1	B	287	GLY	2.4
1	B	459	LYS	2.4
3	D	128	GLN	2.4
1	A	289	ALA	2.3
1	B	286	ASN	2.3
1	B	457	GLU	2.3
1	A	264	ALA	2.3
1	B	279	LEU	2.2
3	D	148	ASP	2.2
3	D	121	ARG	2.2
1	B	262	VAL	2.2
1	B	270	VAL	2.2
1	A	266	THR	2.2
1	B	285	LEU	2.2
1	B	221	GLU	2.1
1	A	438	ILE	2.1
1	B	36	ILE	2.1
1	B	42	ARG	2.1
1	B	329	ASN	2.1
1	A	280	SER	2.1
1	A	262	VAL	2.1
3	D	170	PHE	2.1
3	D	133	GLU	2.1
3	D	138	ALA	2.1
3	D	118	SER	2.1
3	D	137	ALA	2.0
1	A	267	SER	2.0
1	B	162	SER	2.0
1	A	414	VAL	2.0
2	C	15	ILE	2.0
1	A	282	ALA	2.0
1	A	460	LEU	2.0
1	A	220	GLY	2.0
1	A	223	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](#)

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
4	GOL	C	402	6/6	0.84	0.39	55,59,62,64	0
4	GOL	A	501	6/6	0.86	0.20	36,46,50,51	0
4	GOL	C	401	6/6	0.90	0.13	56,58,61,72	0
4	GOL	A	502	6/6	0.90	0.36	68,74,75,76	0

6.5 Other polymers [i](#)

There are no such residues in this entry.