



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 13, 2024 – 09:11 AM EDT

PDB ID : 1QC6
Title : EVH1 domain from ENA/VASP-like protein in complex with ACTA peptide
Authors : Fedorov, A.A.; Fedorov, E.V.; Gertler, F.B.; Almo, S.C.
Deposited on : 1999-05-17
Resolution : 2.60 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)
Xtrriage (Phenix) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36.2

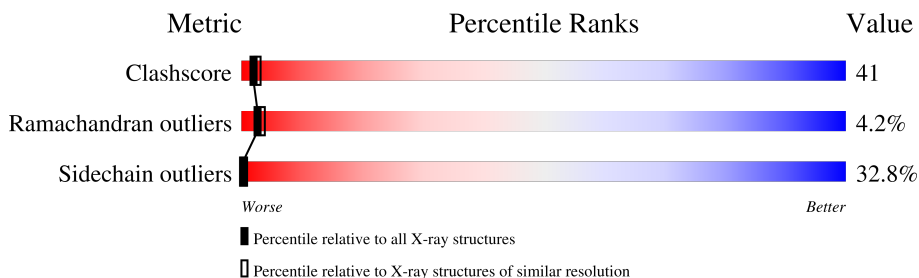
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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))
Clashscore	141614	3518 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)

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 $\leq 5\%$

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	130	33% (green), 32% (yellow), 18% (orange), 17% (grey), 1% (red)
1	B	130	32% (green), 32% (yellow), 17% (orange), 17% (grey), 1% (red)
2	C	11	9% (green), 18% (yellow), 36% (orange), 36% (grey)
2	D	11	45% (yellow), 55% (grey)

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 1843 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 EVH1 DOMAIN FROM ENA/VASP-LIKE PROTEIN.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	S	Se			
1	A	108	871	554	152	160	1	4	0	0	0
1	B	108	871	554	152	160	1	4	0	0	0

- Molecule 2 is a protein called PHE-GLU-PHE-PRO-PRO-PRO-PRO-THR-ASP-GLU-GLU.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	C	7	55	38	7	10	0	0	0
2	D	5	39	29	5	5	0	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
3	A	2	2	2	0	0
3	B	5	5	5	0	0

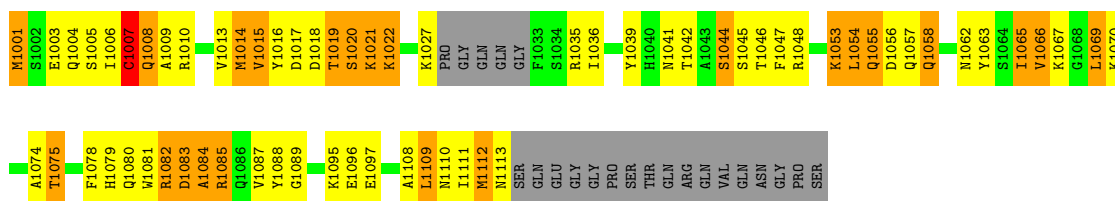
3 Residue-property plots [i](#)

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. 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. 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.

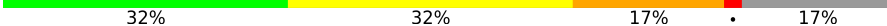
Note EDS was not executed.

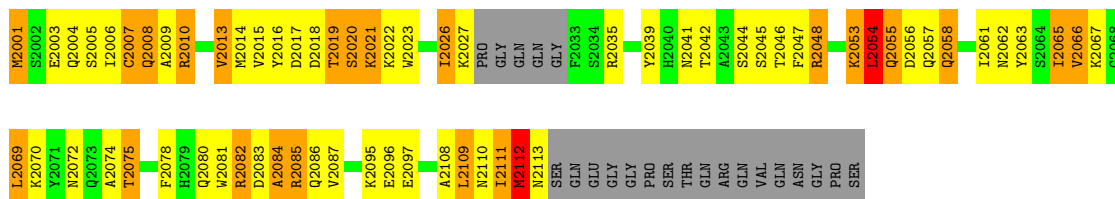
- Molecule 1: EVH1 DOMAIN FROM ENA/VASP-LIKE PROTEIN

Chain A: 



- Molecule 1: EVH1 DOMAIN FROM ENA/VASP-LIKE PROTEIN

Chain B: 




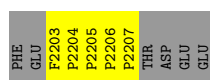
- Molecule 2: PHE-GLU-PHE-PRO-PRO-PRO-PRO-THR-ASP-GLU-GLU

Chain C: 



- Molecule 2: PHE-GLU-PHE-PRO-PRO-PRO-PRO-THR-ASP-GLU-GLU

Chain D: 



4 Data and refinement statistics

Xtrriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	44.88Å 68.26Å 82.22Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	8.00 – 2.60	Depositor
% Data completeness (in resolution range)	92.5 (8.00-2.60)	Depositor
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	X-PLOR 3.851	Depositor
R, R_{free}	0.215 , 0.298	Depositor
Estimated twinning fraction	No twinning to report.	Xtrriage
Total number of atoms	1843	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

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	0.61	0/885	0.70	2/1190 (0.2%)
1	B	0.60	1/885 (0.1%)	0.72	2/1190 (0.2%)
2	C	0.54	0/59	0.61	0/83
2	D	0.51	0/43	0.41	0/61
All	All	0.60	1/1872 (0.1%)	0.70	4/2524 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2112	MSE	CG-SE	-5.28	1.77	1.95

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2048	ARG	NE-CZ-NH1	-8.24	116.18	120.30
1	A	1048	ARG	NE-CZ-NH2	-7.07	116.77	120.30
1	B	2048	ARG	NE-CZ-NH2	6.77	123.69	120.30
1	A	1048	ARG	NE-CZ-NH1	6.59	123.60	120.30

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	871	0	863	73	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	871	0	863	75	0
2	C	55	0	49	14	0
2	D	39	0	36	11	0
3	A	2	0	0	0	0
3	B	5	0	0	0	0
All	All	1843	0	1811	149	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 41.

All (149) 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:2008:GLN:HE21	1:B:2035:ARG:HD2	1.05	1.12
1:A:1008:GLN:HE21	1:A:1035:ARG:HD2	0.99	1.09
1:A:1008:GLN:NE2	1:A:1035:ARG:HD2	1.77	0.99
1:A:1062:ASN:HD21	1:B:2062:ASN:HD21	1.16	0.92
1:B:2008:GLN:NE2	1:B:2035:ARG:HD2	1.86	0.90
1:A:1074:ALA:HB1	2:C:1206:PRO:HG3	1.58	0.83
1:A:1062:ASN:HD21	1:B:2062:ASN:ND2	1.83	0.77
1:B:2021:LYS:O	1:B:2021:LYS:HG2	1.84	0.76
1:A:1062:ASN:ND2	1:B:2062:ASN:HD21	1.84	0.76
1:B:2020:SER:O	1:B:2021:LYS:HD3	1.86	0.75
1:A:1017:ASP:OD1	1:A:1019:THR:HG23	1.86	0.75
1:A:1020:SER:O	1:A:1021:LYS:HD3	1.89	0.73
1:B:2017:ASP:OD1	1:B:2019:THR:HG23	1.91	0.70
1:B:2065:ILE:HG12	1:B:2065:ILE:O	1.92	0.69
1:A:1006:ILE:HD13	1:A:1047:PHE:HE2	1.58	0.69
1:A:1065:ILE:HG12	1:A:1065:ILE:O	1.92	0.69
1:A:1021:LYS:O	1:A:1021:LYS:HG2	1.91	0.69
1:B:2080:GLN:HG3	2:D:2203:PHE:CE2	2.27	0.68
2:C:1202:GLU:HG3	2:C:1203:PHE:N	2.07	0.68
1:B:2066:VAL:HG13	1:B:2067:LYS:N	2.07	0.67
1:B:2082:ARG:HH22	1:B:2085:ARG:N	1.93	0.66
1:A:1082:ARG:HH22	1:A:1085:ARG:N	1.93	0.65
1:A:1035:ARG:HH11	1:A:1054:LEU:CD2	2.11	0.63
1:B:2006:ILE:HD13	1:B:2047:PHE:HE2	1.63	0.62
2:C:1202:GLU:CG	2:C:1203:PHE:N	2.62	0.62
1:A:1066:VAL:HG13	1:A:1067:LYS:N	2.14	0.61
1:B:2047:PHE:HD1	1:B:2112:MSE:HE3	1.64	0.61
1:A:1006:ILE:O	1:A:1007:CYS:HB3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2053:LYS:HB2	1:B:2058:GLN:HG3	1.84	0.59
1:A:1003:GLU:HG3	1:A:1039:TYR:HB3	1.83	0.59
1:B:2075:THR:HG23	1:B:2078:PHE:HB3	1.85	0.58
1:B:2078:PHE:CD1	2:D:2206:PRO:HB3	2.39	0.58
1:B:2023:TRP:CZ2	2:D:2204:PRO:HG2	2.38	0.58
1:A:1005:SER:HB2	1:A:1039:TYR:CE2	2.38	0.58
1:A:1006:ILE:HD13	1:A:1047:PHE:CE2	2.39	0.58
1:B:2020:SER:O	1:B:2022:LYS:HG3	2.04	0.58
2:C:1202:GLU:OE1	2:C:1203:PHE:O	2.22	0.57
1:B:2006:ILE:O	1:B:2007:CYS:HB3	2.03	0.57
1:B:2035:ARG:HH11	1:B:2054:LEU:CD2	2.18	0.57
1:A:1019:THR:C	1:A:1021:LYS:H	2.07	0.57
1:A:1078:PHE:CD1	2:C:1206:PRO:HB3	2.41	0.56
1:B:2005:SER:HB2	1:B:2039:TYR:CE2	2.40	0.56
1:A:1016:TYR:CD2	2:C:1204:PRO:HG3	2.41	0.56
1:A:1047:PHE:HD1	1:A:1112:MSE:HE3	1.71	0.55
1:B:2109:LEU:O	1:B:2112:MSE:HB2	2.06	0.55
1:B:2070:LYS:O	1:B:2081:TRP:HA	2.07	0.54
1:A:1074:ALA:HB1	2:C:1206:PRO:CG	2.34	0.54
1:B:2019:THR:C	1:B:2021:LYS:H	2.11	0.54
1:B:2003:GLU:HG3	1:B:2039:TYR:HB3	1.89	0.53
1:B:2083:ASP:OD1	1:B:2085:ARG:NH1	2.41	0.53
1:A:1019:THR:C	1:A:1021:LYS:N	2.61	0.53
1:A:1053:LYS:HB2	1:A:1058:GLN:HG3	1.90	0.53
1:B:2080:GLN:HG3	2:D:2203:PHE:CD2	2.44	0.53
1:B:2053:LYS:O	1:B:2057:GLN:HA	2.09	0.52
1:B:2078:PHE:CE2	2:D:2207:PRO:HD2	2.44	0.52
1:A:1112:MSE:HA	1:A:1112:MSE:HE2	1.91	0.51
1:A:1070:LYS:O	1:A:1081:TRP:HA	2.11	0.51
1:B:2019:THR:C	1:B:2021:LYS:N	2.64	0.51
1:B:2053:LYS:O	1:B:2057:GLN:N	2.44	0.51
1:B:2057:GLN:N	1:B:2057:GLN:CD	2.65	0.51
1:B:2108:ALA:O	1:B:2112:MSE:HG2	2.10	0.51
1:B:2017:ASP:CG	1:B:2020:SER:HB3	2.32	0.50
1:A:1001:MSE:HE1	1:B:2085:ARG:HH22	1.76	0.50
1:A:1074:ALA:CB	2:C:1206:PRO:HG3	2.38	0.50
1:B:2009:ALA:HB1	1:B:2097:GLU:HB3	1.94	0.50
1:B:2048:ARG:NH2	1:B:2062:ASN:O	2.44	0.49
1:B:2072:ASN:HB2	2:D:2203:PHE:CE1	2.48	0.49
1:B:2053:LYS:C	1:B:2055:GLN:H	2.16	0.49
1:B:2078:PHE:CZ	2:D:2207:PRO:HD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2017:ASP:OD2	1:B:2020:SER:HB3	2.13	0.49
1:A:1053:LYS:O	1:A:1057:GLN:HA	2.11	0.49
1:B:2047:PHE:CD1	1:B:2112:MSE:HE3	2.47	0.49
1:B:2006:ILE:HD13	1:B:2047:PHE:CE2	2.45	0.49
1:B:2010:ARG:HD3	1:B:2035:ARG:NH1	2.27	0.49
1:A:1009:ALA:HB1	1:A:1097:GLU:HB3	1.93	0.48
1:B:2063:TYR:OH	1:B:2083:ASP:HB3	2.13	0.48
1:A:1085:ARG:HH22	1:B:2001:MSE:HE1	1.78	0.48
1:B:2023:TRP:NE1	2:D:2205:PRO:O	2.45	0.48
1:B:2065:ILE:CD1	1:B:2108:ALA:HB1	2.43	0.48
1:B:2111:ILE:O	1:B:2113:ASN:N	2.47	0.48
1:A:1020:SER:O	1:A:1022:LYS:HG3	2.14	0.47
1:B:2083:ASP:CG	1:B:2085:ARG:HD3	2.35	0.47
1:A:1047:PHE:CD1	1:A:1112:MSE:HE3	2.49	0.47
1:A:1063:TYR:OH	1:A:1083:ASP:HB3	2.14	0.47
1:A:1015:VAL:HG11	1:B:2001:MSE:SE	2.64	0.47
1:A:1017:ASP:OD2	1:A:1020:SER:HB3	2.14	0.47
1:A:1054:LEU:HD12	1:A:1054:LEU:H	1.78	0.47
1:A:1008:GLN:HE21	1:A:1035:ARG:HH21	1.62	0.47
1:B:2017:ASP:OD1	1:B:2017:ASP:C	2.53	0.47
1:B:2083:ASP:O	1:B:2084:ALA:HB2	2.14	0.47
1:A:1008:GLN:NE2	1:A:1035:ARG:HH21	2.13	0.47
1:A:1075:THR:HG23	1:A:1078:PHE:HB3	1.95	0.47
1:A:1041:ASN:O	1:A:1045:SER:N	2.48	0.46
1:A:1057:GLN:CD	1:A:1057:GLN:N	2.68	0.46
1:A:1083:ASP:OD1	1:A:1085:ARG:NH1	2.48	0.46
1:A:1080:GLN:HG3	2:C:1203:PHE:CD2	2.50	0.46
1:B:2063:TYR:CE1	1:B:2069:LEU:HD11	2.50	0.46
1:A:1010:ARG:HD3	1:A:1035:ARG:NH1	2.31	0.46
1:B:2041:ASN:O	1:B:2045:SER:N	2.49	0.46
1:B:2078:PHE:CZ	2:D:2207:PRO:CD	2.99	0.46
1:A:1083:ASP:O	1:A:1084:ALA:HB2	2.15	0.46
1:A:1053:LYS:O	1:A:1057:GLN:N	2.49	0.46
1:A:1109:LEU:O	1:A:1112:MSE:HB2	2.16	0.46
1:B:2065:ILE:HD11	1:B:2108:ALA:HB1	1.98	0.46
1:A:1108:ALA:O	1:A:1112:MSE:HG2	2.16	0.46
1:B:2016:TYR:CD2	2:D:2204:PRO:HG3	2.51	0.46
1:B:2053:LYS:HG3	1:B:2055:GLN:HG2	1.98	0.46
1:A:1053:LYS:HA	1:A:1053:LYS:HD2	1.41	0.45
1:B:2013:VAL:HG22	1:B:2026:ILE:HB	1.98	0.45
1:A:1083:ASP:OD2	1:A:1084:ALA:N	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1055:GLN:CD	1:A:1055:GLN:N	2.71	0.44
1:B:2053:LYS:HA	1:B:2053:LYS:HD2	1.44	0.44
1:B:2066:VAL:CG1	1:B:2067:LYS:N	2.76	0.44
1:A:1004:GLN:O	1:A:1004:GLN:HG2	2.18	0.44
1:A:1016:TYR:CG	2:C:1204:PRO:HG3	2.51	0.44
1:A:1053:LYS:C	1:A:1055:GLN:H	2.21	0.44
1:A:1111:ILE:O	1:A:1113:ASN:N	2.51	0.44
1:B:2055:GLN:N	1:B:2055:GLN:CD	2.71	0.43
1:A:1017:ASP:CG	1:A:1020:SER:HB3	2.38	0.43
1:A:1111:ILE:C	1:A:1113:ASN:N	2.72	0.43
1:B:2017:ASP:OD1	1:B:2020:SER:N	2.48	0.43
1:B:2074:ALA:HB3	1:B:2078:PHE:HD1	1.84	0.43
1:A:1065:ILE:CD1	1:A:1108:ALA:HB1	2.48	0.43
1:B:2078:PHE:CE2	2:D:2207:PRO:CD	3.02	0.43
1:A:1111:ILE:C	1:A:1113:ASN:H	2.22	0.43
1:B:2004:GLN:HG2	1:B:2004:GLN:O	2.19	0.43
1:A:1014:MSE:HE2	1:A:1014:MSE:HB3	1.91	0.42
1:A:1044:SER:O	1:A:1045:SER:C	2.56	0.42
1:A:1083:ASP:CG	1:A:1085:ARG:HD3	2.39	0.42
1:A:1063:TYR:CE1	1:A:1069:LEU:HD11	2.55	0.42
1:A:1008:GLN:HA	1:A:1036:ILE:O	2.20	0.42
1:B:2047:PHE:HB3	1:B:2065:ILE:HD13	2.01	0.42
1:B:2111:ILE:C	1:B:2113:ASN:H	2.23	0.42
2:C:1202:GLU:CD	2:C:1203:PHE:H	2.23	0.42
1:B:2109:LEU:HD12	1:B:2109:LEU:HA	1.91	0.42
1:A:1066:VAL:CG1	1:A:1067:LYS:N	2.82	0.42
1:B:2111:ILE:C	1:B:2113:ASN:N	2.72	0.42
1:A:1065:ILE:HD11	1:A:1108:ALA:HB1	2.02	0.42
1:A:1054:LEU:HD12	1:A:1054:LEU:N	2.34	0.42
2:C:1207:PRO:O	2:C:1208:THR:HG22	2.19	0.42
2:C:1208:THR:O	2:C:1208:THR:CG2	2.68	0.41
1:A:1019:THR:OG1	1:A:1020:SER:N	2.53	0.41
1:B:2008:GLN:NE2	1:B:2035:ARG:HH21	2.18	0.41
1:A:1017:ASP:OD1	1:A:1017:ASP:C	2.59	0.41
1:B:2008:GLN:HE21	1:B:2035:ARG:HH21	1.68	0.41
1:A:1080:GLN:HA	1:A:1088:TYR:O	2.21	0.41
2:C:1206:PRO:O	2:C:1207:PRO:O	2.39	0.40
1:A:1079:HIS:O	1:A:1089:GLY:HA2	2.21	0.40
1:B:2083:ASP:OD2	1:B:2086:GLN:N	2.54	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	104/130 (80%)	88 (85%)	12 (12%)	4 (4%)	3	4
1	B	104/130 (80%)	90 (86%)	10 (10%)	4 (4%)	3	4
2	C	5/11 (46%)	3 (60%)	1 (20%)	1 (20%)	0	0
2	D	3/11 (27%)	3 (100%)	0	0	100	100
All	All	216/282 (77%)	184 (85%)	23 (11%)	9 (4%)	3	3

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1084	ALA
2	C	1207	PRO
1	B	2084	ALA
1	A	1044	SER
1	B	2044	SER
1	B	2054	LEU
1	B	2112	MSE
1	A	1007	CYS
1	A	1112	MSE

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	96/109 (88%)	65 (68%)	31 (32%)	0	0
1	B	96/109 (88%)	63 (66%)	33 (34%)	0	0

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	C	7/11 (64%)	4 (57%)	3 (43%)	0	0
2	D	5/11 (46%)	5 (100%)	0	100	100
All	All	204/240 (85%)	137 (67%)	67 (33%)	0	0

All (67) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1001	MSE
1	A	1007	CYS
1	A	1008	GLN
1	A	1013	VAL
1	A	1014	MSE
1	A	1015	VAL
1	A	1018	ASP
1	A	1019	THR
1	A	1020	SER
1	A	1021	LYS
1	A	1022	LYS
1	A	1027	LYS
1	A	1042	THR
1	A	1046	THR
1	A	1053	LYS
1	A	1054	LEU
1	A	1055	GLN
1	A	1056	ASP
1	A	1058	GLN
1	A	1065	ILE
1	A	1066	VAL
1	A	1069	LEU
1	A	1075	THR
1	A	1082	ARG
1	A	1083	ASP
1	A	1085	ARG
1	A	1087	VAL
1	A	1095	LYS
1	A	1096	GLU
1	A	1109	LEU
1	A	1110	ASN
2	C	1202	GLU
2	C	1203	PHE
2	C	1208	THR

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Mol	Chain	Res	Type
1	B	2001	MSE
1	B	2007	CYS
1	B	2008	GLN
1	B	2010	ARG
1	B	2013	VAL
1	B	2014	MSE
1	B	2015	VAL
1	B	2018	ASP
1	B	2019	THR
1	B	2020	SER
1	B	2021	LYS
1	B	2026	ILE
1	B	2027	LYS
1	B	2042	THR
1	B	2046	THR
1	B	2053	LYS
1	B	2054	LEU
1	B	2055	GLN
1	B	2056	ASP
1	B	2058	GLN
1	B	2061	ILE
1	B	2065	ILE
1	B	2066	VAL
1	B	2069	LEU
1	B	2075	THR
1	B	2082	ARG
1	B	2085	ARG
1	B	2087	VAL
1	B	2095	LYS
1	B	2096	GLU
1	B	2109	LEU
1	B	2110	ASN
1	B	2111	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1008	GLN
1	A	1057	GLN
1	A	1062	ASN
1	A	1080	GLN
1	A	1110	ASN

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Mol	Chain	Res	Type
1	B	2008	GLN
1	B	2080	GLN
1	B	2110	ASN

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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

EDS was not executed - this section is therefore empty.

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates [i](#)

EDS was not executed - this section is therefore empty.

6.4 Ligands [i](#)

EDS was not executed - this section is therefore empty.

6.5 Other polymers [i](#)

EDS was not executed - this section is therefore empty.