



wwPDB X-ray Structure Validation Summary Report ⓘ

Aug 22, 2023 – 03:35 AM EDT

PDB ID : 2Q4K
Title : Ensemble refinement of the protein crystal structure of gene product from Homo sapiens Hs.433573
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 : 2.50 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.35
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) : 2.35

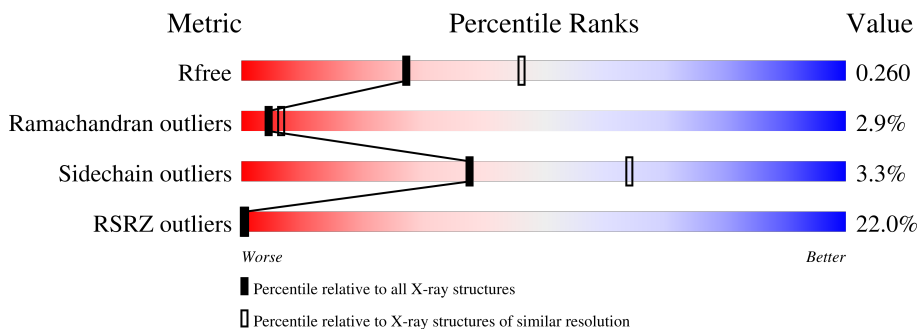
1 Overall quality at a glance

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)
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	1-A	251	
1	1-B	251	
1	1-C	251	
1	10-A	251	
1	10-B	251	
1	10-C	251	
1	11-A	251	

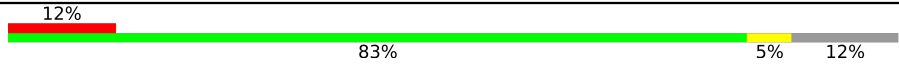

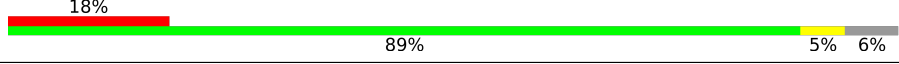
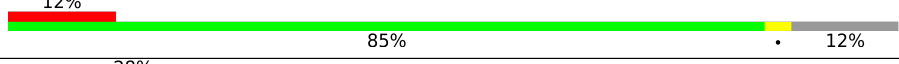

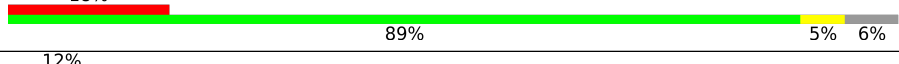


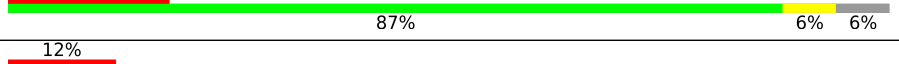

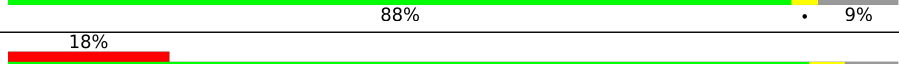
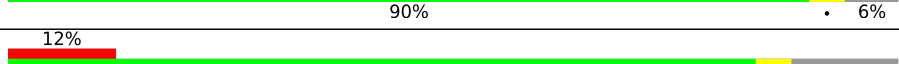

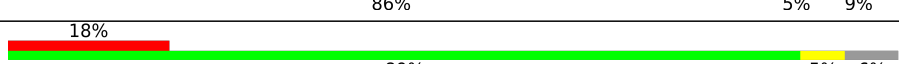
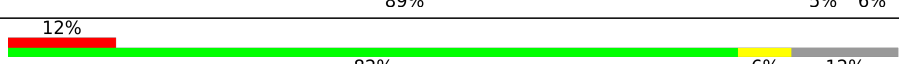
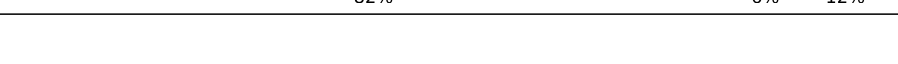
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	11-B	251	18% 89% 6%
1	11-C	251	12% 86% 12%
1	12-A	251	28% 83% 8% 9%
1	12-B	251	18% 89% 5% 6%
1	12-C	251	12% 84% 12%
1	13-A	251	28% 84% 7% 9%
1	13-B	251	18% 87% 6% 6%
1	13-C	251	12% 81% 7% 12%
1	14-A	251	28% 82% 8% 9%
1	14-B	251	18% 87% 6% 6%
1	14-C	251	12% 84% 12%
1	15-A	251	28% 84% 7% 9%
1	15-B	251	18% 85% 8% 6%
1	15-C	251	12% 83% 5% 12%
1	16-A	251	28% 86% 9%
1	16-B	251	18% 90% 6%
1	16-C	251	12% 81% 6% 12%
1	2-A	251	28% 88% 9%
1	2-B	251	18% 88% 5% 6%
1	2-C	251	12% 85% 12%
1	3-A	251	28% 88% 9%
1	3-B	251	18% 91% 6%
1	3-C	251	12% 86% 12%
1	4-A	251	28% 87% 9%
1	4-B	251	18% 90% 6%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	4-C	251	
1	5-A	251	
1	5-B	251	
1	5-C	251	
1	6-A	251	
1	6-B	251	
1	6-C	251	
1	7-A	251	
1	7-B	251	
1	7-C	251	
1	8-A	251	
1	8-B	251	
1	8-C	251	
1	9-A	251	
1	9-B	251	
1	9-C	251	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 88208 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 Uncharacterized protein C11orf68.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	S	Se			
1	1-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	2-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	3-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	4-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	5-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	6-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	7-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	8-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	9-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	10-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	11-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	12-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	13-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	14-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	15-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0
1	16-A	228	Total 1769	C 1123	N 313	O 327	S 3	Se 3	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
1	1-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	2-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	3-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	4-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	5-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	6-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	7-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	8-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	9-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	10-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	11-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	12-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	13-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	14-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	15-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	16-B	235	Total	C	N	O	S	Se	0	0	0
			1815	1149	323	337	3	3			
1	1-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	2-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	3-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	4-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	5-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
1	6-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	7-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	8-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	9-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	10-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	11-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	12-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	13-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	14-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	15-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			
1	16-C	221	Total	C	N	O	S	Se	0	0	0
			1712	1087	307	312	3	3			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MSE	MET	modified residue	UNP Q9H3H3
A	30	MSE	MET	modified residue	UNP Q9H3H3
A	34	MSE	MET	modified residue	UNP Q9H3H3
A	131	MSE	MET	modified residue	UNP Q9H3H3
B	1	MSE	MET	modified residue	UNP Q9H3H3
B	30	MSE	MET	modified residue	UNP Q9H3H3
B	34	MSE	MET	modified residue	UNP Q9H3H3
B	131	MSE	MET	modified residue	UNP Q9H3H3
C	1	MSE	MET	modified residue	UNP Q9H3H3
C	30	MSE	MET	modified residue	UNP Q9H3H3
C	34	MSE	MET	modified residue	UNP Q9H3H3
C	131	MSE	MET	modified residue	UNP Q9H3H3

- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	1-A	50	Total 50	O 50	0	0
2	2-A	55	Total 55	O 55	0	0
2	3-A	56	Total 56	O 56	0	0
2	4-A	55	Total 55	O 55	0	0
2	5-A	55	Total 55	O 55	0	0
2	6-A	56	Total 56	O 56	0	0
2	7-A	54	Total 54	O 54	0	0
2	8-A	56	Total 56	O 56	0	0
2	9-A	57	Total 57	O 57	0	0
2	10-A	56	Total 56	O 56	0	0
2	11-A	58	Total 58	O 58	0	0
2	12-A	55	Total 55	O 55	0	0
2	13-A	53	Total 53	O 53	0	0
2	14-A	56	Total 56	O 56	0	0
2	15-A	53	Total 53	O 53	0	0
2	16-A	53	Total 53	O 53	0	0
2	1-B	91	Total 91	O 91	0	0
2	2-B	88	Total 88	O 88	0	0
2	3-B	88	Total 88	O 88	0	0
2	4-B	90	Total 90	O 90	0	0
2	5-B	89	Total 89	O 89	0	0
2	6-B	89	Total 89	O 89	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	7-B	89	Total O 89 89	0	0
2	8-B	88	Total O 88 88	0	0
2	9-B	88	Total O 88 88	0	0
2	10-B	88	Total O 88 88	0	0
2	11-B	87	Total O 87 87	0	0
2	12-B	87	Total O 87 87	0	0
2	13-B	91	Total O 91 91	0	0
2	14-B	87	Total O 87 87	0	0
2	15-B	91	Total O 91 91	0	0
2	16-B	91	Total O 91 91	0	0
2	1-C	76	Total O 76 76	0	0
2	2-C	74	Total O 74 74	0	0
2	3-C	73	Total O 73 73	0	0
2	4-C	72	Total O 72 72	0	0
2	5-C	73	Total O 73 73	0	0
2	6-C	72	Total O 72 72	0	0
2	7-C	74	Total O 74 74	0	0
2	8-C	73	Total O 73 73	0	0
2	9-C	72	Total O 72 72	0	0
2	10-C	73	Total O 73 73	0	0
2	11-C	72	Total O 72 72	0	0

Continued on next page...

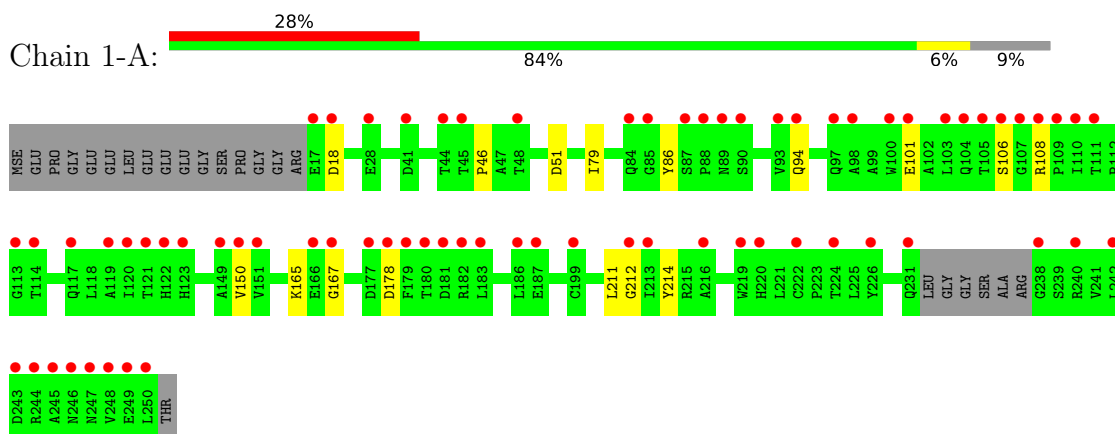
Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	12-C	75	Total 75	O 75	0	0
2	13-C	73	Total 73	O 73	0	0
2	14-C	74	Total 74	O 74	0	0
2	15-C	73	Total 73	O 73	0	0
2	16-C	73	Total 73	O 73	0	0

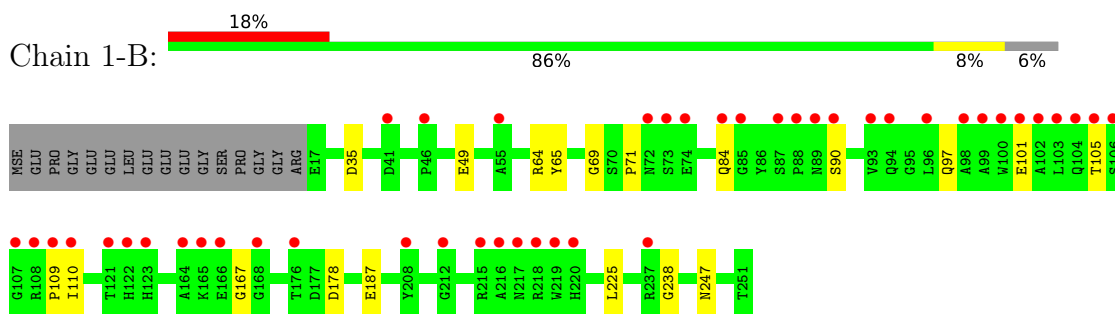
3 Residue-property plots [i](#)

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.

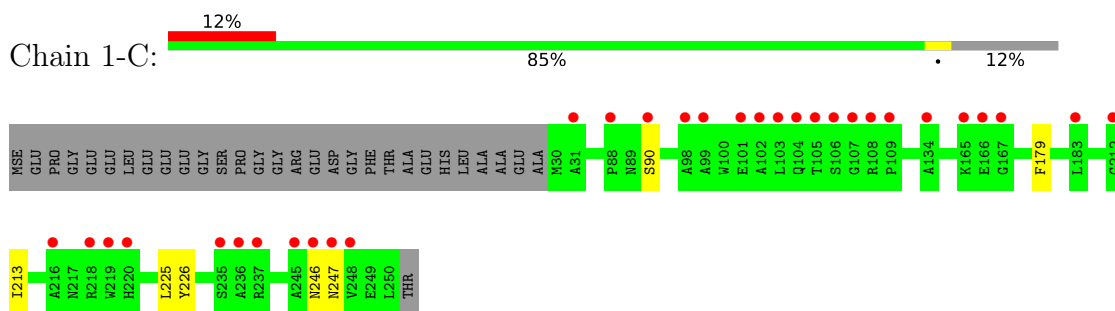
- Molecule 1: Uncharacterized protein C11orf68



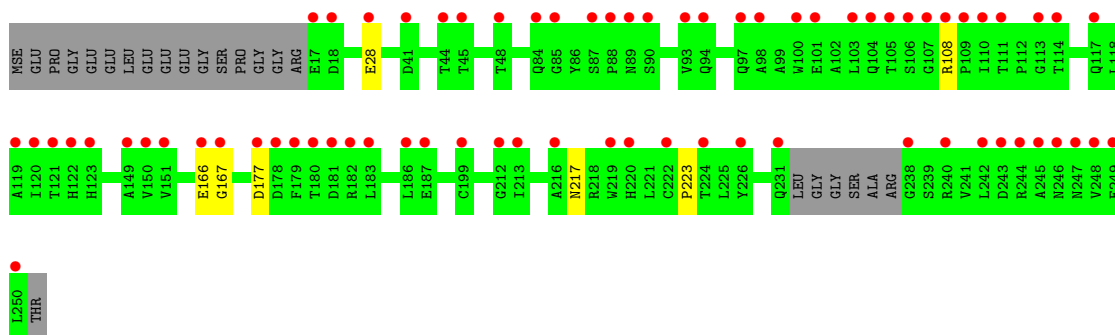
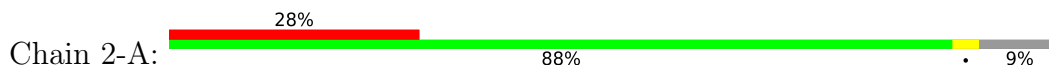
- Molecule 1: Uncharacterized protein C11orf68



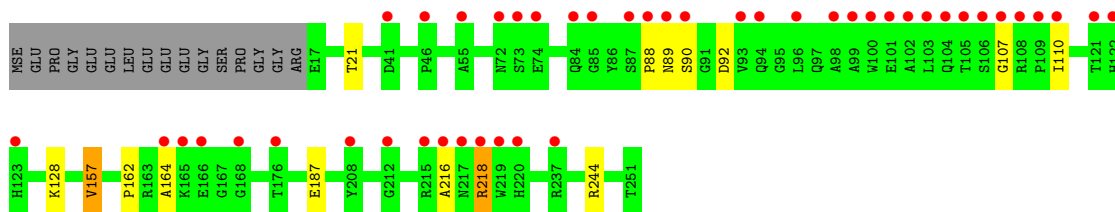
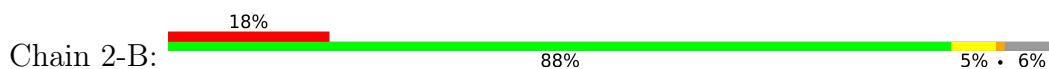
- Molecule 1: Uncharacterized protein C11orf68



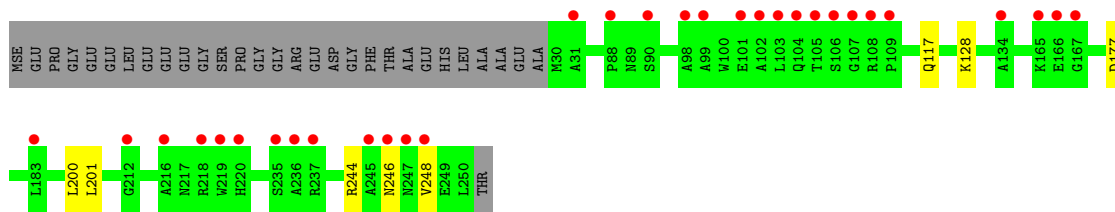
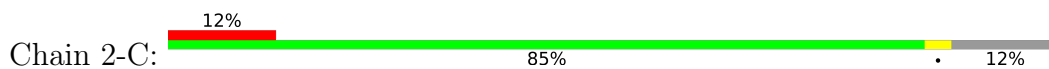
- Molecule 1: Uncharacterized protein C11orf68



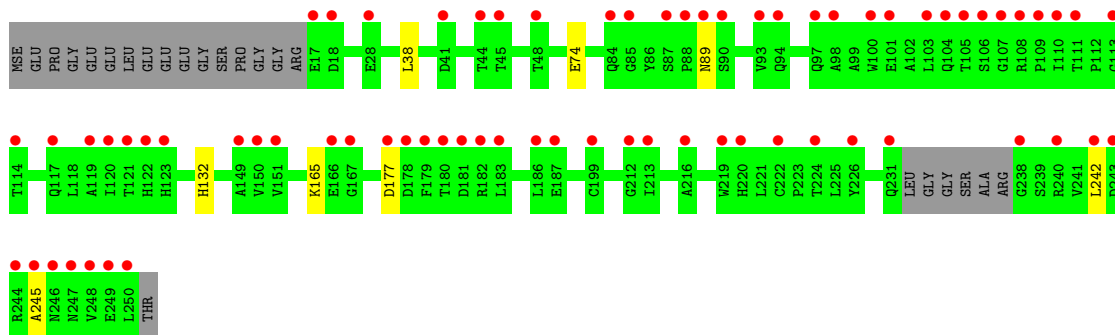
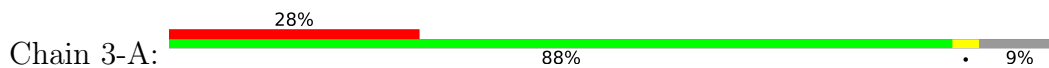
• Molecule 1: Uncharacterized protein C11orf68



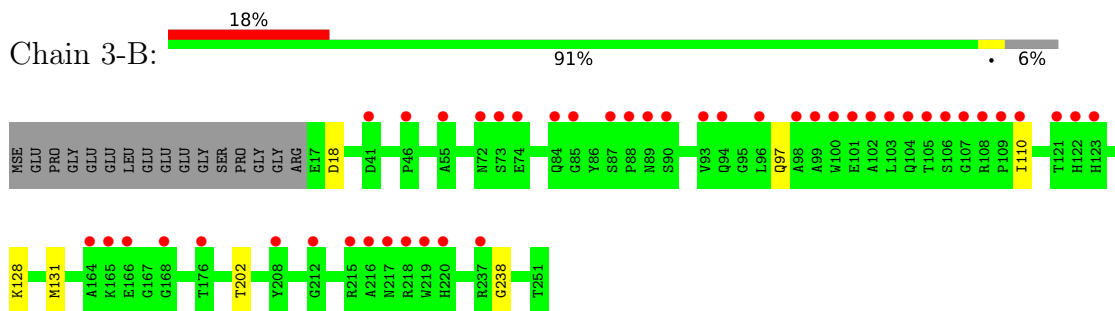
• Molecule 1: Uncharacterized protein C11orf68



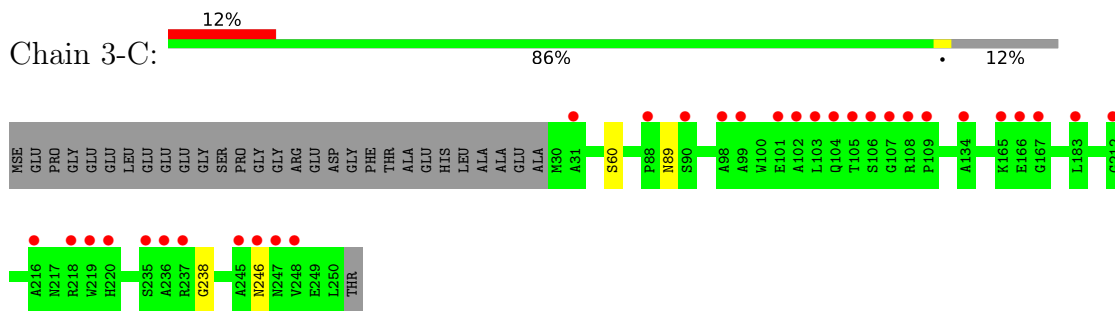
• Molecule 1: Uncharacterized protein C11orf68



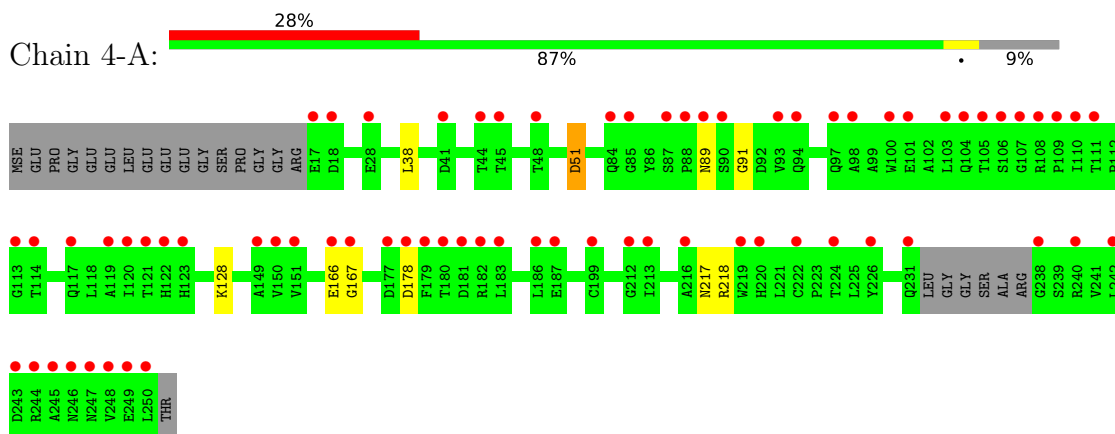
• Molecule 1: Uncharacterized protein C11orf68



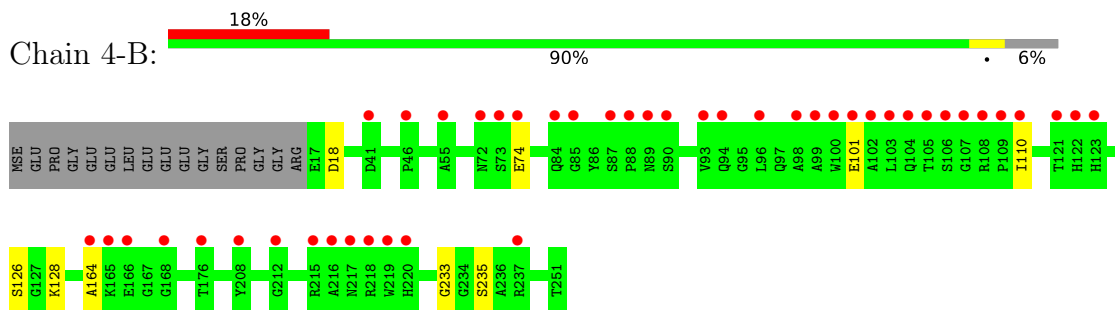
• Molecule 1: Uncharacterized protein C11orf68



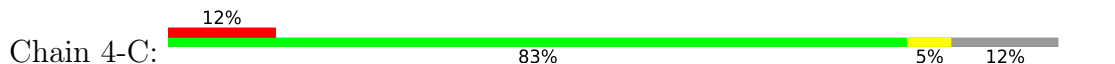
• Molecule 1: Uncharacterized protein C11orf68

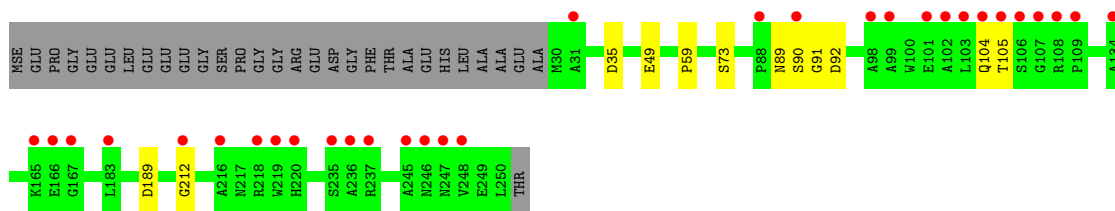


• Molecule 1: Uncharacterized protein C11orf68

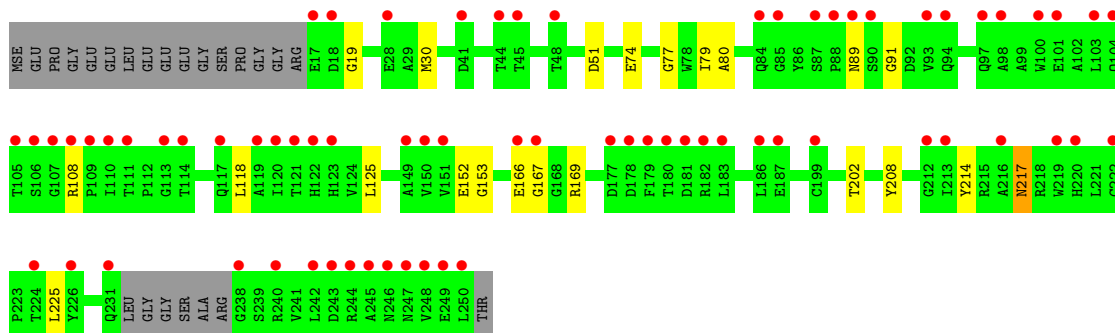
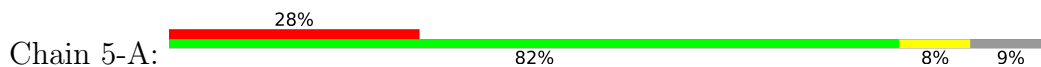


• Molecule 1: Uncharacterized protein C11orf68

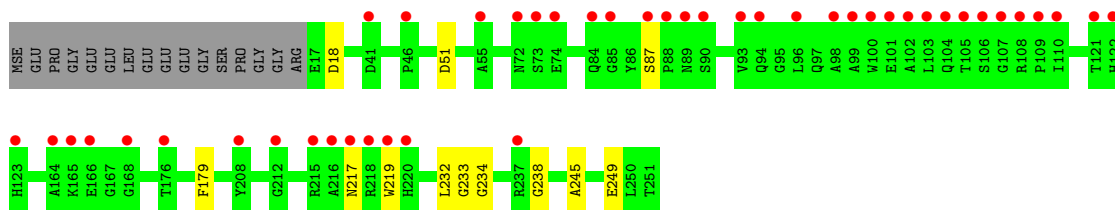
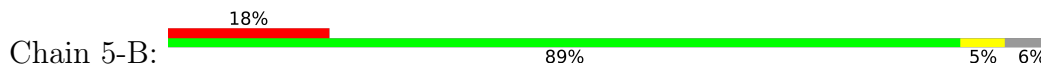




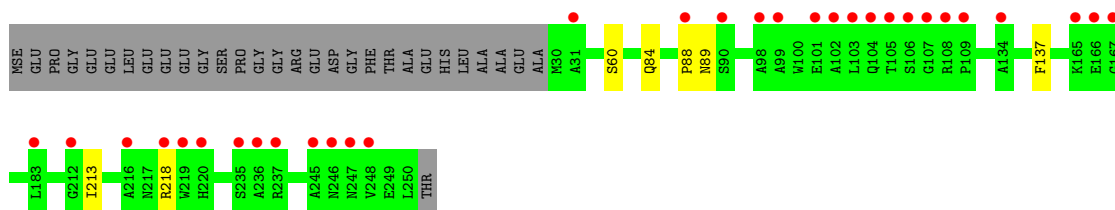
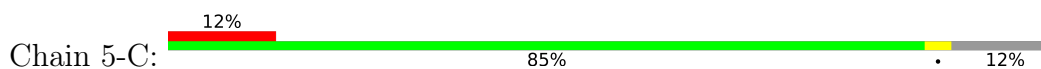
● Molecule 1: Uncharacterized protein C11orf68



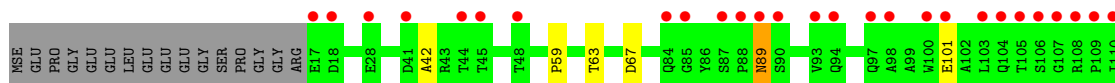
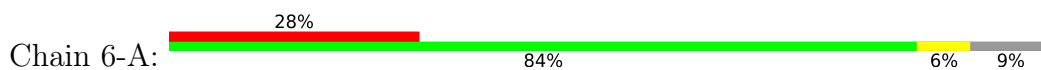
● Molecule 1: Uncharacterized protein C11orf68



● Molecule 1: Uncharacterized protein C11orf68

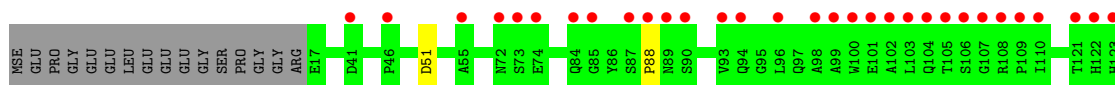
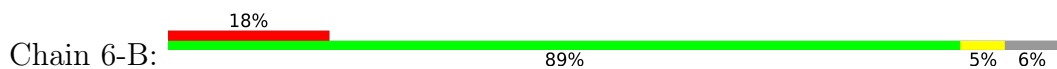


● Molecule 1: Uncharacterized protein C11orf68

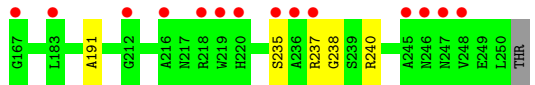
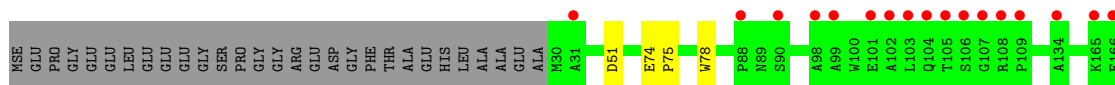
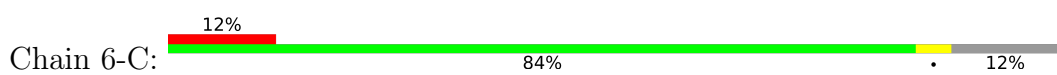




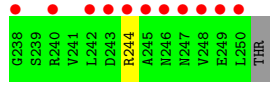
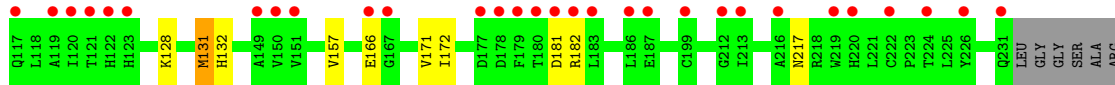
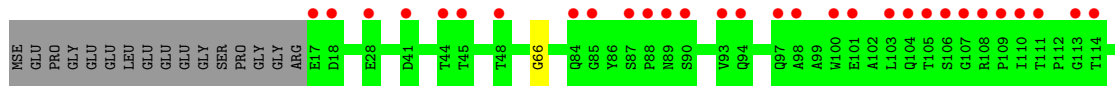
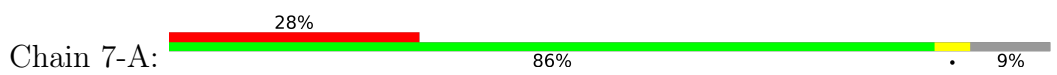
● Molecule 1: Uncharacterized protein C11orf68



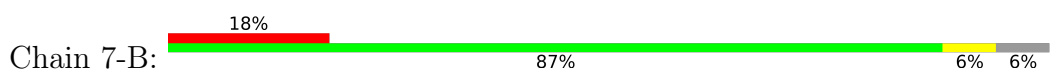
● Molecule 1: Uncharacterized protein C11orf68

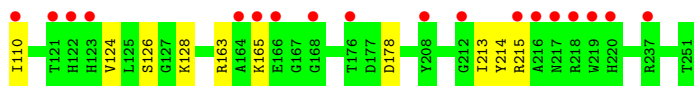


● Molecule 1: Uncharacterized protein C11orf68

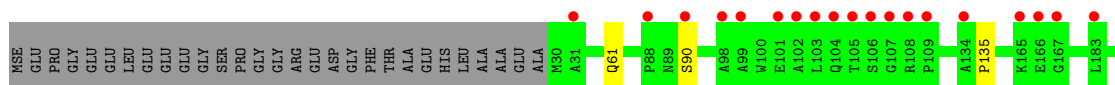
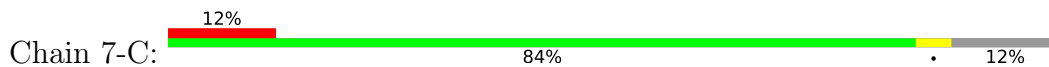


● Molecule 1: Uncharacterized protein C11orf68

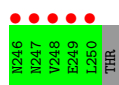
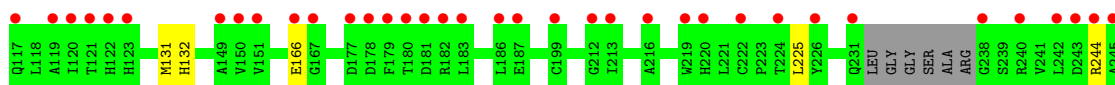
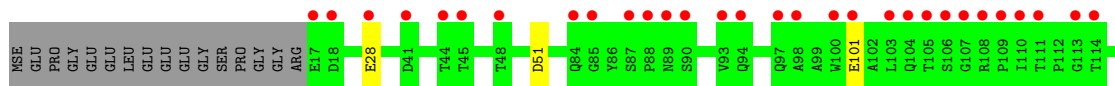
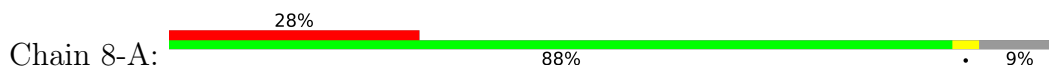




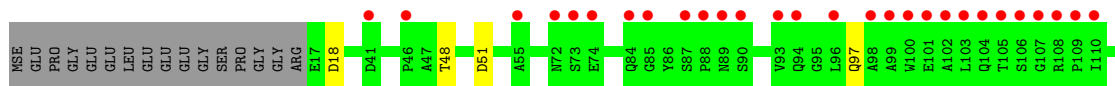
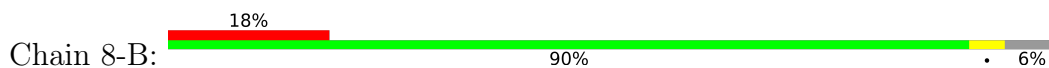
- Molecule 1: Uncharacterized protein C11orf68



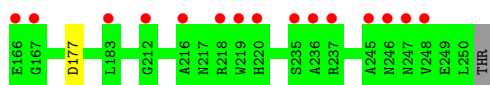
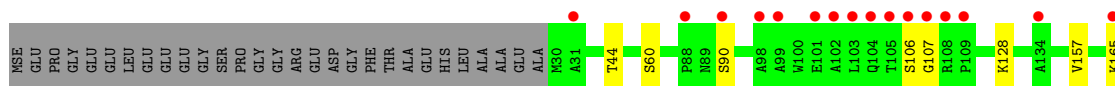
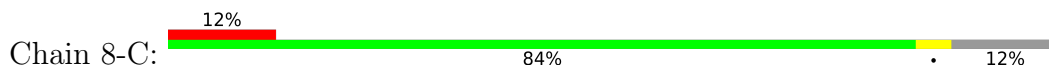
- Molecule 1: Uncharacterized protein C11orf68



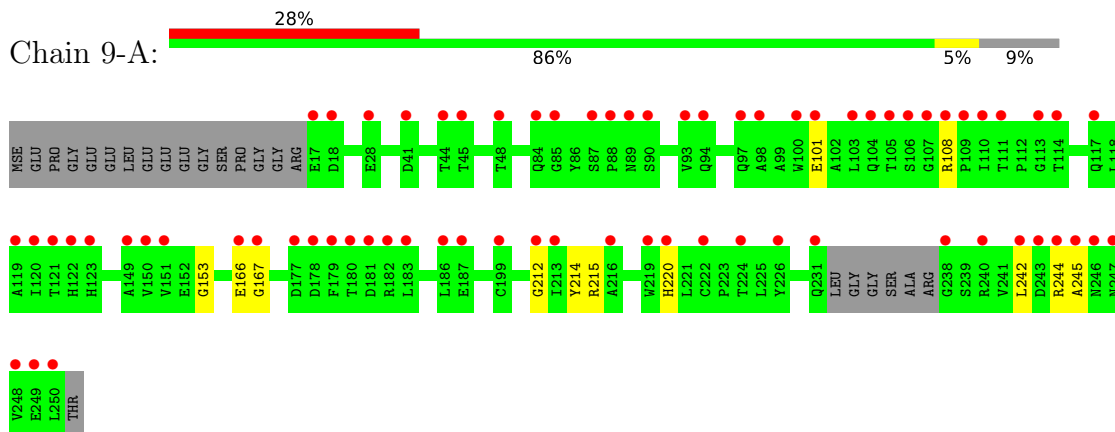
- Molecule 1: Uncharacterized protein C11orf68



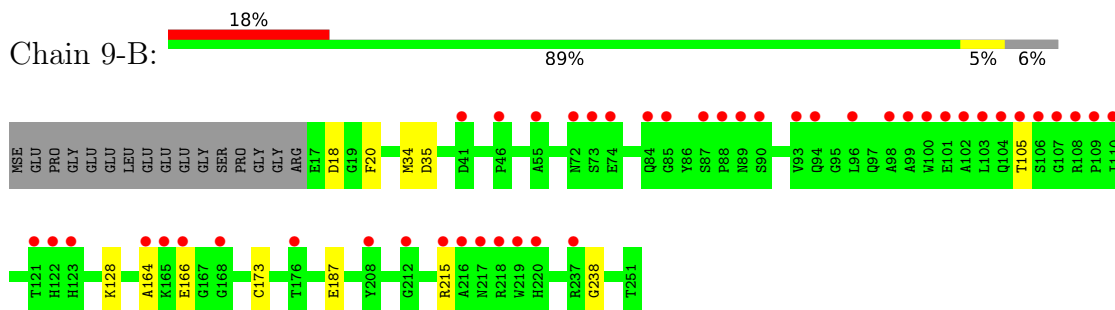
- Molecule 1: Uncharacterized protein C11orf68



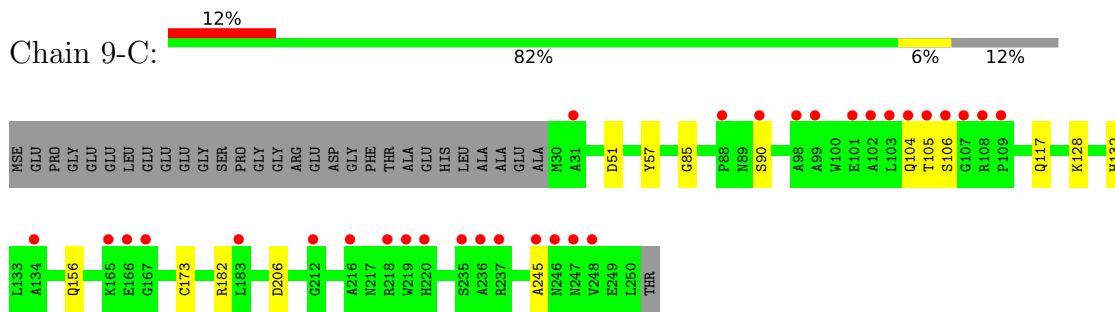
• Molecule 1: Uncharacterized protein C11orf68



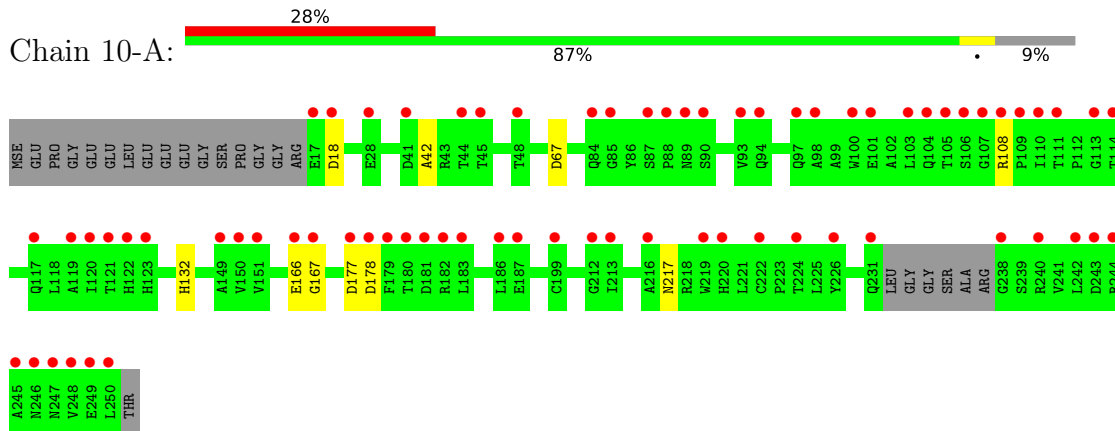
• Molecule 1: Uncharacterized protein C11orf68



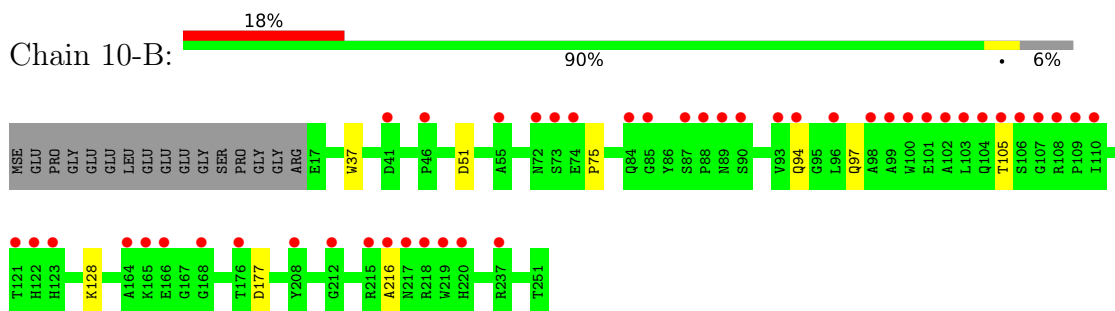
• Molecule 1: Uncharacterized protein C11orf68



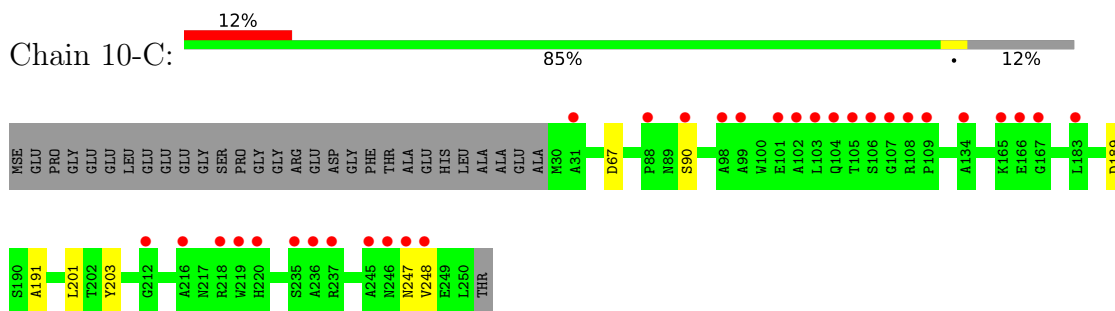
• Molecule 1: Uncharacterized protein C11orf68



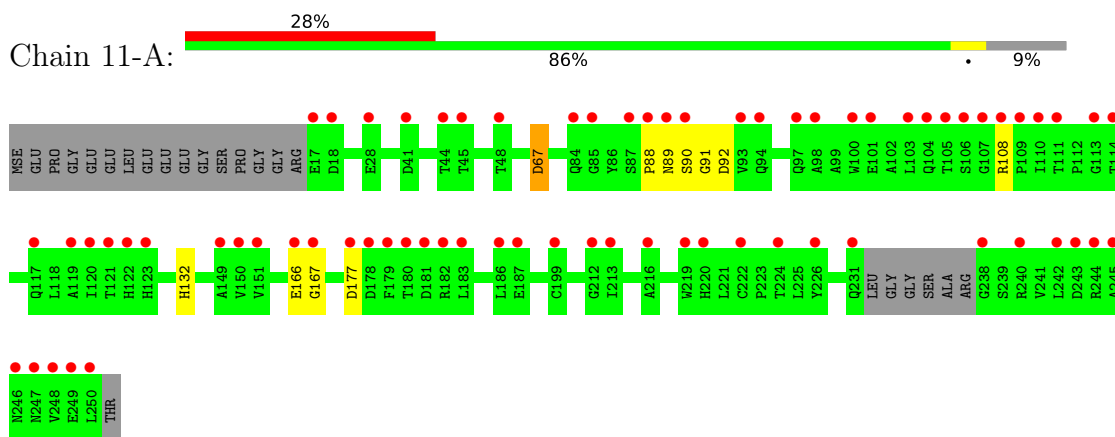
- Molecule 1: Uncharacterized protein C11orf68



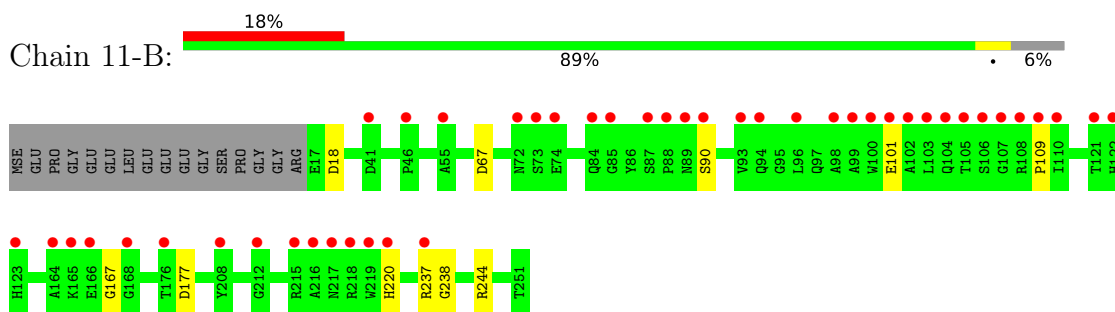
- Molecule 1: Uncharacterized protein C11orf68



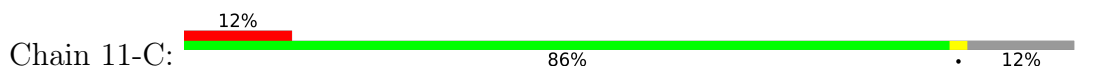
- Molecule 1: Uncharacterized protein C11orf68

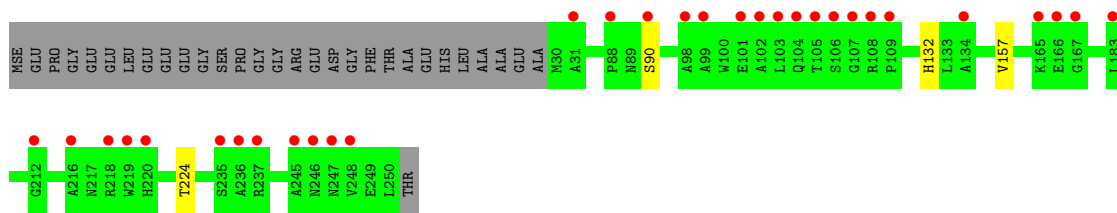


- Molecule 1: Uncharacterized protein C11orf68

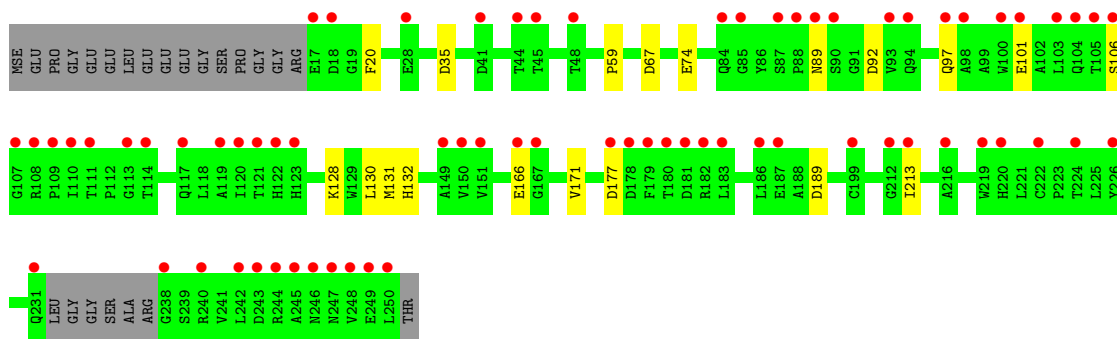
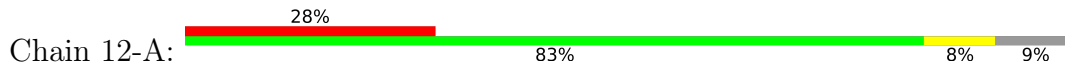


- Molecule 1: Uncharacterized protein C11orf68

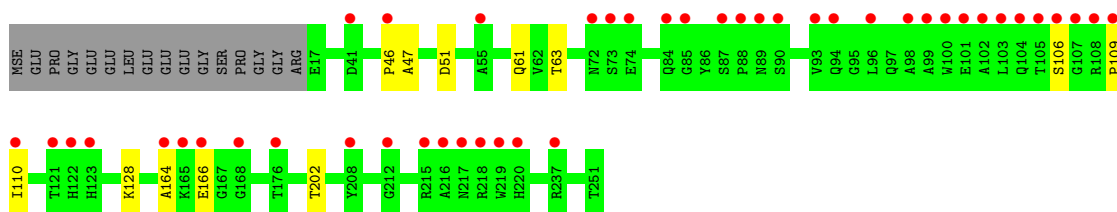




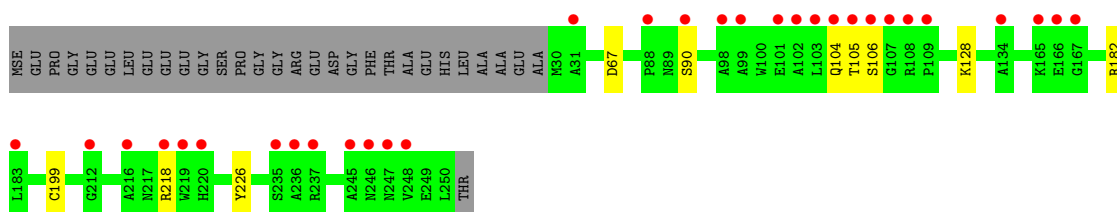
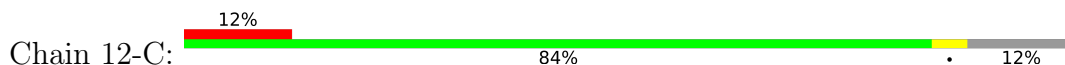
● Molecule 1: Uncharacterized protein C11orf68



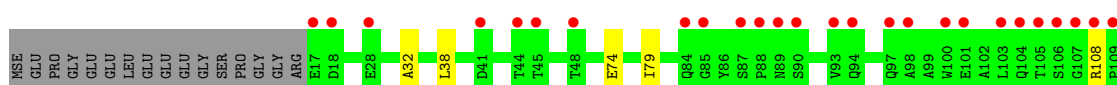
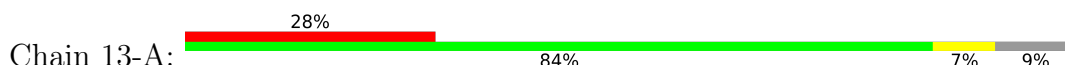
● Molecule 1: Uncharacterized protein C11orf68

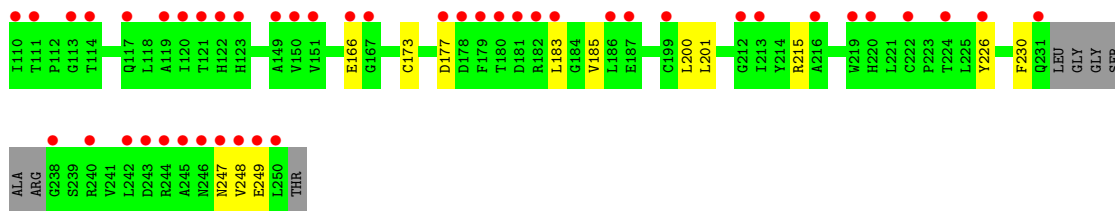


● Molecule 1: Uncharacterized protein C11orf68

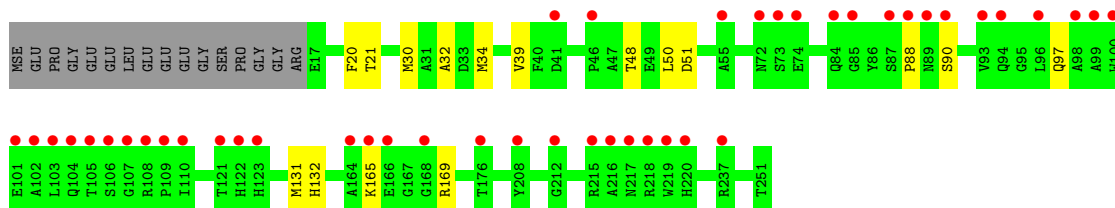
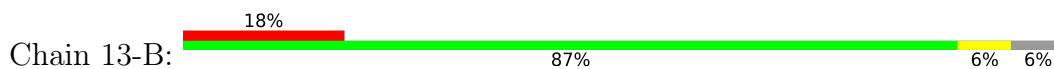


● Molecule 1: Uncharacterized protein C11orf68

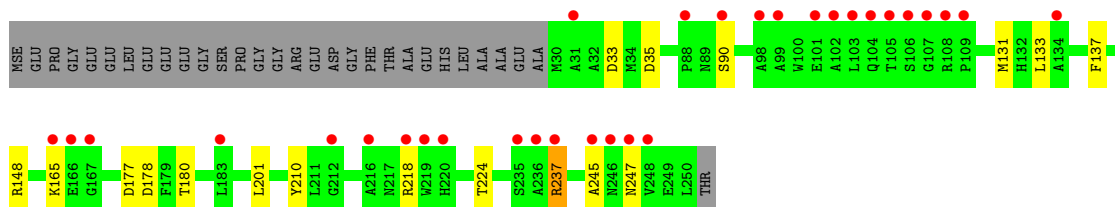
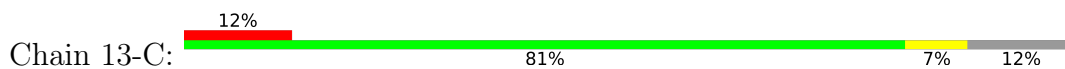




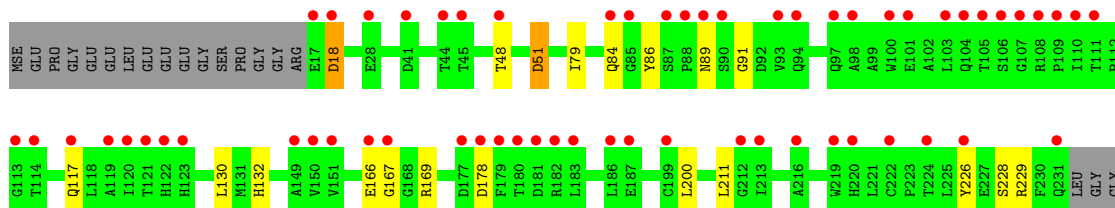
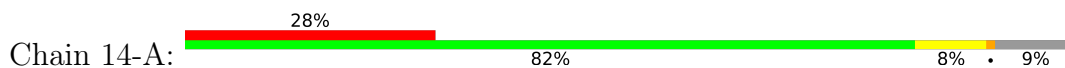
● Molecule 1: Uncharacterized protein C11orf68



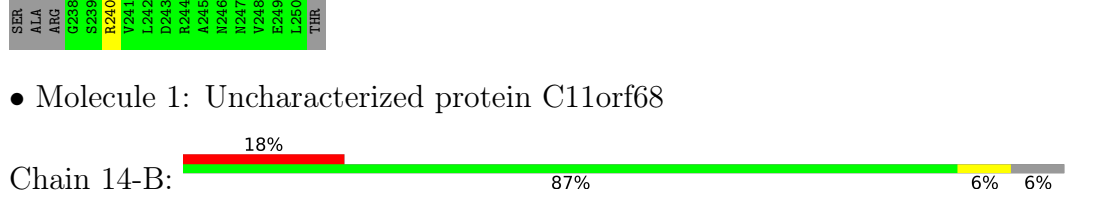
● Molecule 1: Uncharacterized protein C11orf68



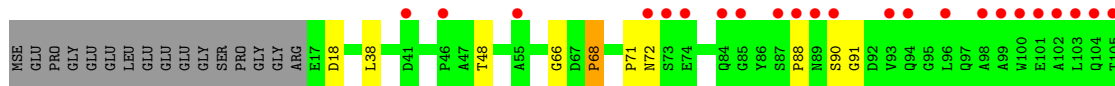
● Molecule 1: Uncharacterized protein C11orf68

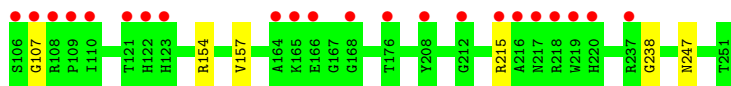


● Molecule 1: Uncharacterized protein C11orf68

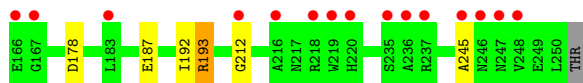
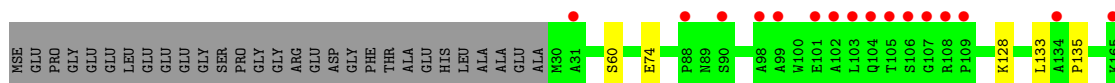
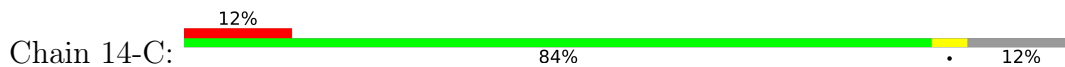


● Molecule 1: Uncharacterized protein C11orf68

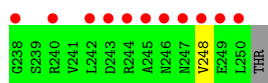
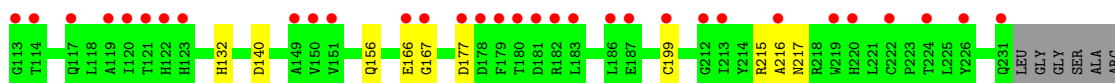
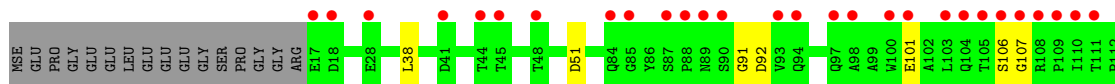
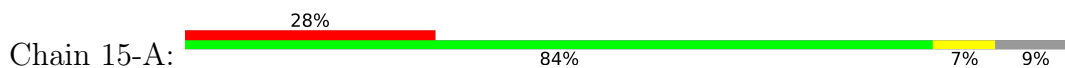




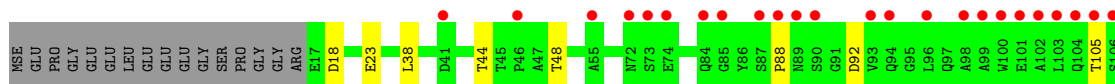
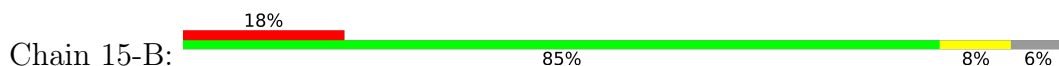
- Molecule 1: Uncharacterized protein C11orf68



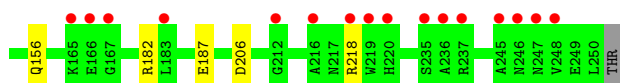
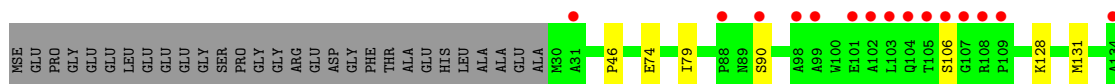
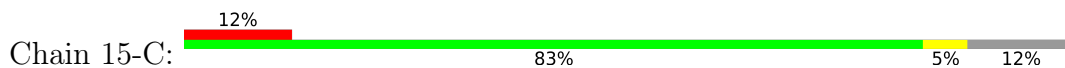
- Molecule 1: Uncharacterized protein C11orf68



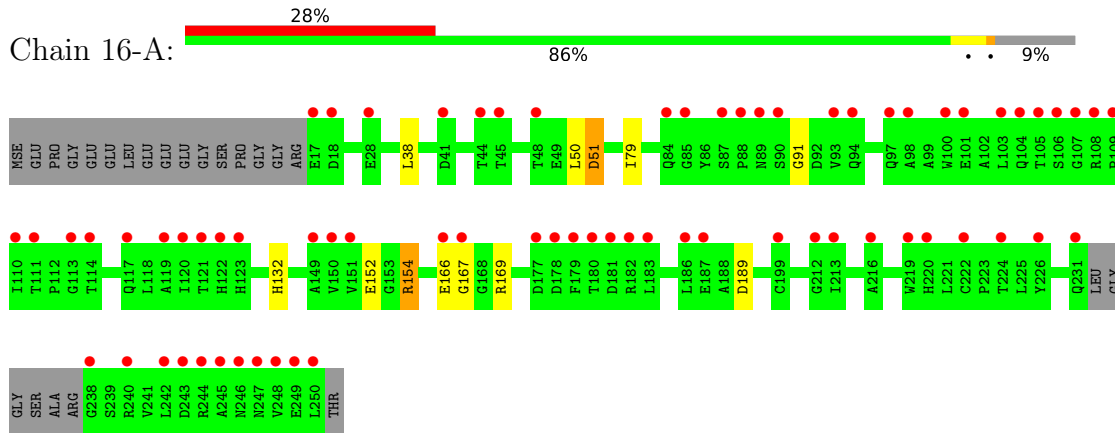
- Molecule 1: Uncharacterized protein C11orf68



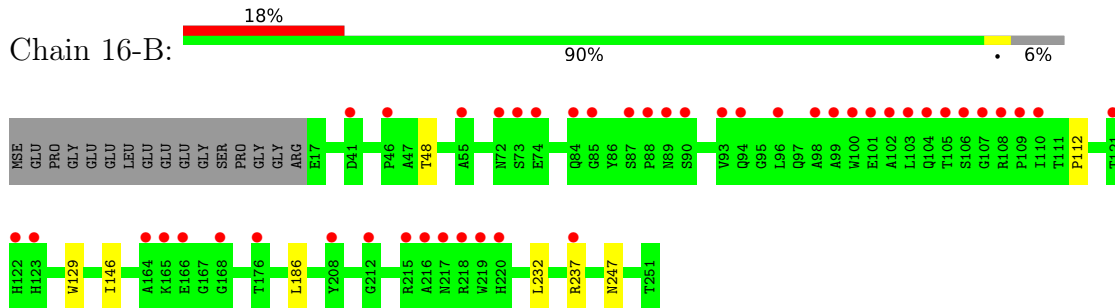
- Molecule 1: Uncharacterized protein C11orf68



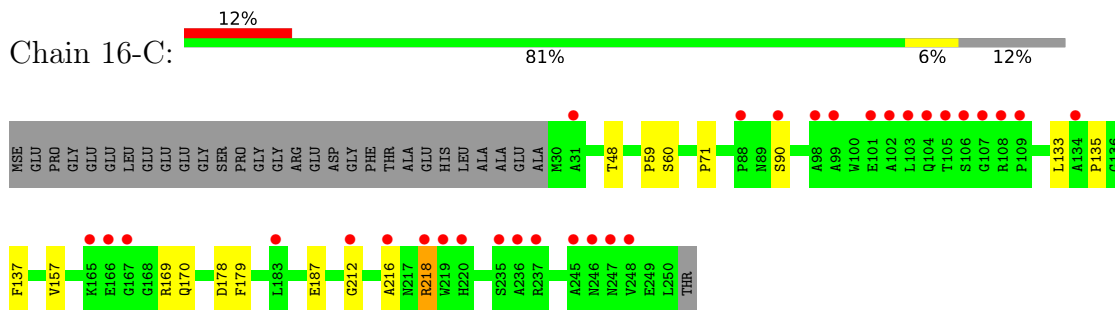
- Molecule 1: Uncharacterized protein C11orf68



- Molecule 1: Uncharacterized protein C11orf68



- Molecule 1: Uncharacterized protein C11orf68



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	62.55Å 116.81Å 123.64Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.97 – 2.50 43.97 – 2.50	Depositor EDS
% Data completeness (in resolution range)	98.0 (43.97-2.50) 97.8 (43.97-2.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.79 (at 2.51Å)	Xtrriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.166 , 0.236 0.189 , 0.260	Depositor DCC
R_{free} test set	1607 reflections (5.10%)	wwPDB-VP
Wilson B-factor (Å ²)	38.7	Xtrriage
Anisotropy	0.270	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 120.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	88208	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.51% 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	1-A	0.32	0/1813	0.56	1/2468 (0.0%)
1	1-B	0.35	0/1860	0.58	0/2531
1	1-C	0.35	0/1756	0.57	0/2392
1	2-A	0.31	0/1813	0.56	0/2468
1	2-B	0.34	0/1860	0.58	0/2531
1	2-C	0.35	0/1756	0.58	0/2392
1	3-A	0.31	0/1813	0.55	0/2468
1	3-B	0.35	0/1860	0.57	0/2531
1	3-C	0.34	0/1756	0.58	0/2392
1	4-A	0.32	0/1813	0.56	0/2468
1	4-B	0.34	0/1860	0.59	0/2531
1	4-C	0.36	0/1756	0.59	0/2392
1	5-A	0.32	0/1813	0.55	0/2468
1	5-B	0.34	0/1860	0.58	0/2531
1	5-C	0.35	0/1756	0.58	0/2392
1	6-A	0.32	0/1813	0.59	0/2468
1	6-B	0.34	0/1860	0.59	0/2531
1	6-C	0.35	0/1756	0.57	0/2392
1	7-A	0.32	0/1813	0.56	0/2468
1	7-B	0.34	0/1860	0.58	0/2531
1	7-C	0.36	0/1756	0.61	0/2392
1	8-A	0.32	0/1813	0.56	0/2468
1	8-B	0.34	0/1860	0.56	0/2531
1	8-C	0.35	0/1756	0.58	0/2392
1	9-A	0.32	0/1813	0.57	1/2468 (0.0%)
1	9-B	0.34	0/1860	0.57	0/2531
1	9-C	0.35	0/1756	0.59	0/2392
1	10-A	0.32	0/1813	0.56	0/2468
1	10-B	0.33	0/1860	0.58	0/2531
1	10-C	0.35	0/1756	0.59	0/2392
1	11-A	0.32	0/1813	0.57	0/2468
1	11-B	0.34	0/1860	0.57	0/2531
1	11-C	0.35	0/1756	0.57	0/2392
1	12-A	0.32	0/1813	0.58	0/2468

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	12-B	0.35	0/1860	0.59	0/2531
1	12-C	0.34	0/1756	0.60	0/2392
1	13-A	0.35	0/1813	0.61	1/2468 (0.0%)
1	13-B	0.38	0/1860	0.64	0/2531
1	13-C	0.39	0/1756	0.65	0/2392
1	14-A	0.35	0/1813	0.62	1/2468 (0.0%)
1	14-B	0.38	0/1860	0.65	1/2531 (0.0%)
1	14-C	0.39	0/1756	0.65	0/2392
1	15-A	0.35	0/1813	0.62	0/2468
1	15-B	0.38	0/1860	0.65	1/2531 (0.0%)
1	15-C	0.39	0/1756	0.66	1/2392 (0.0%)
1	16-A	0.35	0/1813	0.60	1/2468 (0.0%)
1	16-B	0.38	0/1860	0.62	0/2531
1	16-C	0.40	0/1756	0.66	0/2392
All	All	0.35	0/86864	0.59	8/118256 (0.0%)

There are no bond length outliers.

The worst 5 of 8 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	15-C	79	ILE	N-CA-C	-6.41	93.69	111.00
1	14-B	38	LEU	N-CA-C	-6.04	94.69	111.00
1	9-A	153	GLY	N-CA-C	5.67	127.26	113.10
1	16-A	79	ILE	N-CA-C	-5.44	96.31	111.00
1	14-A	79	ILE	N-CA-C	-5.41	96.41	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	1-A	1769	0	1722	0	0
1	1-B	1815	0	1770	0	0
1	1-C	1712	0	1684	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2-A	1769	0	1722	0	0
1	2-B	1815	0	1770	0	0
1	2-C	1712	0	1684	0	0
1	3-A	1769	0	1722	0	0
1	3-B	1815	0	1770	0	0
1	3-C	1712	0	1684	0	0
1	4-A	1769	0	1722	0	0
1	4-B	1815	0	1770	0	0
1	4-C	1712	0	1684	0	0
1	5-A	1769	0	1722	0	0
1	5-B	1815	0	1770	0	0
1	5-C	1712	0	1684	0	0
1	6-A	1769	0	1722	0	0
1	6-B	1815	0	1770	0	0
1	6-C	1712	0	1684	0	0
1	7-A	1769	0	1722	0	0
1	7-B	1815	0	1770	0	0
1	7-C	1712	0	1684	0	0
1	8-A	1769	0	1722	0	0
1	8-B	1815	0	1770	0	0
1	8-C	1712	0	1684	0	0
1	9-A	1769	0	1722	0	0
1	9-B	1815	0	1770	0	0
1	9-C	1712	0	1684	0	0
1	10-A	1769	0	1722	0	0
1	10-B	1815	0	1770	0	0
1	10-C	1712	0	1684	0	0
1	11-A	1769	0	1722	0	0
1	11-B	1815	0	1770	0	0
1	11-C	1712	0	1684	0	0
1	12-A	1769	0	1722	0	0
1	12-B	1815	0	1770	0	0
1	12-C	1712	0	1684	0	0
1	13-A	1769	0	1722	0	0
1	13-B	1815	0	1770	0	0
1	13-C	1712	0	1684	0	0
1	14-A	1769	0	1722	0	0
1	14-B	1815	0	1770	0	0
1	14-C	1712	0	1684	0	0
1	15-A	1769	0	1722	0	0
1	15-B	1815	0	1770	0	0
1	15-C	1712	0	1684	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	16-A	1769	0	1722	0	0
1	16-B	1815	0	1770	0	0
1	16-C	1712	0	1684	0	0
2	1-A	50	0	0	0	0
2	1-B	91	0	0	0	0
2	1-C	76	0	0	0	0
2	2-A	55	0	0	0	0
2	2-B	88	0	0	0	0
2	2-C	74	0	0	0	0
2	3-A	56	0	0	0	0
2	3-B	88	0	0	0	0
2	3-C	73	0	0	0	0
2	4-A	55	0	0	0	0
2	4-B	90	0	0	0	0
2	4-C	72	0	0	0	0
2	5-A	55	0	0	0	0
2	5-B	89	0	0	0	0
2	5-C	73	0	0	0	0
2	6-A	56	0	0	0	0
2	6-B	89	0	0	0	0
2	6-C	72	0	0	0	0
2	7-A	54	0	0	0	0
2	7-B	89	0	0	0	0
2	7-C	74	0	0	0	0
2	8-A	56	0	0	0	0
2	8-B	88	0	0	0	0
2	8-C	73	0	0	0	0
2	9-A	57	0	0	0	0
2	9-B	88	0	0	0	0
2	9-C	72	0	0	0	0
2	10-A	56	0	0	0	0
2	10-B	88	0	0	0	0
2	10-C	73	0	0	0	0
2	11-A	58	0	0	0	0
2	11-B	87	0	0	0	0
2	11-C	72	0	0	0	0
2	12-A	55	0	0	0	0
2	12-B	87	0	0	0	0
2	12-C	75	0	0	0	0
2	13-A	53	0	0	0	0
2	13-B	91	0	0	0	0
2	13-C	73	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	14-A	56	0	0	0	0
2	14-B	87	0	0	0	0
2	14-C	74	0	0	0	0
2	15-A	53	0	0	0	0
2	15-B	91	0	0	0	0
2	15-C	73	0	0	0	0
2	16-A	53	0	0	0	0
2	16-B	91	0	0	0	0
2	16-C	73	0	0	0	0
All	All	88208	0	82816	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 [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	1-A	224/251 (89%)	185 (83%)	27 (12%)	12 (5%)	2 2
1	1-B	233/251 (93%)	204 (88%)	19 (8%)	10 (4%)	2 3
1	1-C	219/251 (87%)	193 (88%)	20 (9%)	6 (3%)	5 7
1	2-A	224/251 (89%)	192 (86%)	28 (12%)	4 (2%)	8 14
1	2-B	233/251 (93%)	195 (84%)	28 (12%)	10 (4%)	2 3
1	2-C	219/251 (87%)	198 (90%)	18 (8%)	3 (1%)	11 20
1	3-A	224/251 (89%)	196 (88%)	25 (11%)	3 (1%)	12 21
1	3-B	233/251 (93%)	219 (94%)	12 (5%)	2 (1%)	17 31
1	3-C	219/251 (87%)	202 (92%)	15 (7%)	2 (1%)	17 31
1	4-A	224/251 (89%)	197 (88%)	21 (9%)	6 (3%)	5 7

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	4-B	233/251 (93%)	205 (88%)	23 (10%)	5 (2%)	7	11
1	4-C	219/251 (87%)	186 (85%)	24 (11%)	9 (4%)	3	3
1	5-A	224/251 (89%)	178 (80%)	35 (16%)	11 (5%)	2	2
1	5-B	233/251 (93%)	203 (87%)	22 (9%)	8 (3%)	3	5
1	5-C	219/251 (87%)	201 (92%)	13 (6%)	5 (2%)	6	10
1	6-A	224/251 (89%)	189 (84%)	25 (11%)	10 (4%)	2	3
1	6-B	233/251 (93%)	210 (90%)	18 (8%)	5 (2%)	7	11
1	6-C	219/251 (87%)	200 (91%)	13 (6%)	6 (3%)	5	7
1	7-A	224/251 (89%)	185 (83%)	34 (15%)	5 (2%)	6	10
1	7-B	233/251 (93%)	195 (84%)	29 (12%)	9 (4%)	3	4
1	7-C	219/251 (87%)	192 (88%)	21 (10%)	6 (3%)	5	7
1	8-A	224/251 (89%)	202 (90%)	20 (9%)	2 (1%)	17	31
1	8-B	233/251 (93%)	214 (92%)	17 (7%)	2 (1%)	17	31
1	8-C	219/251 (87%)	199 (91%)	14 (6%)	6 (3%)	5	7
1	9-A	224/251 (89%)	200 (89%)	19 (8%)	5 (2%)	6	10
1	9-B	233/251 (93%)	207 (89%)	21 (9%)	5 (2%)	7	11
1	9-C	219/251 (87%)	193 (88%)	16 (7%)	10 (5%)	2	2
1	10-A	224/251 (89%)	202 (90%)	20 (9%)	2 (1%)	17	31
1	10-B	233/251 (93%)	211 (91%)	19 (8%)	3 (1%)	12	21
1	10-C	219/251 (87%)	198 (90%)	15 (7%)	6 (3%)	5	7
1	11-A	224/251 (89%)	199 (89%)	18 (8%)	7 (3%)	4	5
1	11-B	233/251 (93%)	209 (90%)	18 (8%)	6 (3%)	5	8
1	11-C	219/251 (87%)	203 (93%)	15 (7%)	1 (0%)	29	48
1	12-A	224/251 (89%)	188 (84%)	29 (13%)	7 (3%)	4	5
1	12-B	233/251 (93%)	199 (85%)	25 (11%)	9 (4%)	3	4
1	12-C	219/251 (87%)	197 (90%)	16 (7%)	6 (3%)	5	7
1	13-A	224/251 (89%)	193 (86%)	23 (10%)	8 (4%)	3	4
1	13-B	233/251 (93%)	208 (89%)	18 (8%)	7 (3%)	4	6
1	13-C	219/251 (87%)	187 (85%)	25 (11%)	7 (3%)	4	5
1	14-A	224/251 (89%)	181 (81%)	32 (14%)	11 (5%)	2	2
1	14-B	233/251 (93%)	194 (83%)	27 (12%)	12 (5%)	2	2

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	14-C	219/251 (87%)	184 (84%)	29 (13%)	6 (3%)	5	7
1	15-A	224/251 (89%)	188 (84%)	26 (12%)	10 (4%)	2	3
1	15-B	233/251 (93%)	195 (84%)	24 (10%)	14 (6%)	1	1
1	15-C	219/251 (87%)	189 (86%)	25 (11%)	5 (2%)	6	10
1	16-A	224/251 (89%)	193 (86%)	25 (11%)	6 (3%)	5	7
1	16-B	233/251 (93%)	207 (89%)	24 (10%)	2 (1%)	17	31
1	16-C	219/251 (87%)	196 (90%)	13 (6%)	10 (5%)	2	2
All	All	10816/12048 (90%)	9461 (88%)	1043 (10%)	312 (3%)	4	6

5 of 312 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	1-A	18	ASP
1	1-A	165	LYS
1	1-A	178	ASP
1	1-A	214	TYR
1	1-B	90	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	1-A	180/192 (94%)	177 (98%)	3 (2%)	60	82
1	1-B	184/192 (96%)	175 (95%)	9 (5%)	25	47
1	1-C	175/192 (91%)	174 (99%)	1 (1%)	86	95
1	2-A	180/192 (94%)	177 (98%)	3 (2%)	60	82
1	2-B	184/192 (96%)	177 (96%)	7 (4%)	33	58
1	2-C	175/192 (91%)	170 (97%)	5 (3%)	42	69
1	3-A	180/192 (94%)	175 (97%)	5 (3%)	43	70
1	3-B	184/192 (96%)	179 (97%)	5 (3%)	44	71
1	3-C	175/192 (91%)	173 (99%)	2 (1%)	73	89

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	4-A	180/192 (94%)	175 (97%)	5 (3%)	43	70
1	4-B	184/192 (96%)	180 (98%)	4 (2%)	52	77
1	4-C	175/192 (91%)	172 (98%)	3 (2%)	60	82
1	5-A	180/192 (94%)	168 (93%)	12 (7%)	16	31
1	5-B	184/192 (96%)	180 (98%)	4 (2%)	52	77
1	5-C	175/192 (91%)	173 (99%)	2 (1%)	73	89
1	6-A	180/192 (94%)	172 (96%)	8 (4%)	28	52
1	6-B	184/192 (96%)	177 (96%)	7 (4%)	33	58
1	6-C	175/192 (91%)	172 (98%)	3 (2%)	60	82
1	7-A	180/192 (94%)	172 (96%)	8 (4%)	28	52
1	7-B	184/192 (96%)	176 (96%)	8 (4%)	29	53
1	7-C	175/192 (91%)	172 (98%)	3 (2%)	60	82
1	8-A	180/192 (94%)	174 (97%)	6 (3%)	38	64
1	8-B	184/192 (96%)	176 (96%)	8 (4%)	29	53
1	8-C	175/192 (91%)	172 (98%)	3 (2%)	60	82
1	9-A	180/192 (94%)	174 (97%)	6 (3%)	38	64
1	9-B	184/192 (96%)	177 (96%)	7 (4%)	33	58
1	9-C	175/192 (91%)	170 (97%)	5 (3%)	42	69
1	10-A	180/192 (94%)	172 (96%)	8 (4%)	28	52
1	10-B	184/192 (96%)	178 (97%)	6 (3%)	38	64
1	10-C	175/192 (91%)	173 (99%)	2 (1%)	73	89
1	11-A	180/192 (94%)	175 (97%)	5 (3%)	43	70
1	11-B	184/192 (96%)	179 (97%)	5 (3%)	44	71
1	11-C	175/192 (91%)	172 (98%)	3 (2%)	60	82
1	12-A	180/192 (94%)	168 (93%)	12 (7%)	16	31
1	12-B	184/192 (96%)	181 (98%)	3 (2%)	62	84
1	12-C	175/192 (91%)	171 (98%)	4 (2%)	50	76
1	13-A	180/192 (94%)	171 (95%)	9 (5%)	24	46
1	13-B	184/192 (96%)	175 (95%)	9 (5%)	25	47
1	13-C	175/192 (91%)	163 (93%)	12 (7%)	15	30
1	14-A	180/192 (94%)	169 (94%)	11 (6%)	18	36

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	14-B	184/192 (96%)	180 (98%)	4 (2%)	52 77
1	14-C	175/192 (91%)	169 (97%)	6 (3%)	37 63
1	15-A	180/192 (94%)	172 (96%)	8 (4%)	28 52
1	15-B	184/192 (96%)	176 (96%)	8 (4%)	29 53
1	15-C	175/192 (91%)	169 (97%)	6 (3%)	37 63
1	16-A	180/192 (94%)	173 (96%)	7 (4%)	32 57
1	16-B	184/192 (96%)	178 (97%)	6 (3%)	38 64
1	16-C	175/192 (91%)	167 (95%)	8 (5%)	27 50
All	All	8624/9216 (94%)	8340 (97%)	284 (3%)	38 64

5 of 284 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	14-B	18	ASP
1	14-C	133	LEU
1	15-C	187	GLU
1	7-B	39	VAL
1	7-A	182	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 142 such sidechains are listed below:

Mol	Chain	Res	Type
1	13-C	231	GLN
1	14-A	247	ASN
1	16-A	117	GLN
1	5-C	89	ASN
1	5-B	247	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](#)

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	225/251 (89%)	1.51	71 (31%) 0 0	17, 40, 75, 91	225 (100%)
1	1-B	232/251 (92%)	1.04	45 (19%) 1 1	17, 33, 68, 85	232 (100%)
1	1-C	218/251 (86%)	0.77	31 (14%) 2 2	8, 29, 65, 84	218 (100%)
1	2-A	225/251 (89%)	1.51	71 (31%) 0 0	17, 40, 75, 91	225 (100%)
1	2-B	232/251 (92%)	1.04	45 (19%) 1 1	17, 33, 68, 85	232 (100%)
1	2-C	218/251 (86%)	0.77	31 (14%) 2 2	8, 29, 65, 84	218 (100%)
1	3-A	225/251 (89%)	1.51	71 (31%) 0 0	17, 40, 75, 91	225 (100%)
1	3-B	232/251 (92%)	1.04	45 (19%) 1 1	17, 33, 68, 85	232 (100%)
1	3-C	218/251 (86%)	0.77	31 (14%) 2 2	8, 29, 65, 84	218 (100%)
1	4-A	225/251 (89%)	1.51	71 (31%) 0 0	17, 40, 75, 91	225 (100%)
1	4-B	232/251 (92%)	1.04	45 (19%) 1 1	17, 33, 68, 85	232 (100%)
1	4-C	218/251 (86%)	0.77	31 (14%) 2 2	8, 29, 65, 84	218 (100%)
1	5-A	225/251 (89%)	1.51	71 (31%) 0 0	17, 40, 75, 91	225 (100%)
1	5-B	232/251 (92%)	1.04	45 (19%) 1 1	17, 33, 68, 85	232 (100%)
1	5-C	218/251 (86%)	0.77	31 (14%) 2 2	8, 29, 65, 84	218 (100%)
1	6-A	225/251 (89%)	1.51	71 (31%) 0 0	17, 40, 75, 91	225 (100%)
1	6-B	232/251 (92%)	1.04	45 (19%) 1 1	17, 33, 68, 85	232 (100%)
1	6-C	218/251 (86%)	0.77	31 (14%) 2 2	8, 29, 65, 84	218 (100%)
1	7-A	225/251 (89%)	1.51	71 (31%) 0 0	17, 40, 75, 91	225 (100%)
1	7-B	232/251 (92%)	1.04	45 (19%) 1 1	17, 33, 68, 85	232 (100%)
1	7-C	218/251 (86%)	0.77	31 (14%) 2 2	8, 29, 65, 84	218 (100%)
1	8-A	225/251 (89%)	1.51	71 (31%) 0 0	17, 40, 75, 91	225 (100%)
1	8-B	232/251 (92%)	1.04	45 (19%) 1 1	17, 33, 68, 85	232 (100%)
1	8-C	218/251 (86%)	0.77	31 (14%) 2 2	8, 29, 65, 84	218 (100%)

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9	
1	9-A	225/251 (89%)	1.51	71 (31%)	0	0	17, 40, 75, 91	225 (100%)
1	9-B	232/251 (92%)	1.04	45 (19%)	1	1	17, 33, 68, 85	232 (100%)
1	9-C	218/251 (86%)	0.77	31 (14%)	2	2	8, 29, 65, 84	218 (100%)
1	10-A	225/251 (89%)	1.51	71 (31%)	0	0	17, 40, 75, 91	225 (100%)
1	10-B	232/251 (92%)	1.04	45 (19%)	1	1	17, 33, 68, 85	232 (100%)
1	10-C	218/251 (86%)	0.77	31 (14%)	2	2	8, 29, 65, 84	218 (100%)
1	11-A	225/251 (89%)	1.51	71 (31%)	0	0	17, 40, 75, 91	225 (100%)
1	11-B	232/251 (92%)	1.04	45 (19%)	1	1	17, 33, 68, 85	232 (100%)
1	11-C	218/251 (86%)	0.77	31 (14%)	2	2	8, 29, 65, 84	218 (100%)
1	12-A	225/251 (89%)	1.51	71 (31%)	0	0	17, 40, 75, 91	225 (100%)
1	12-B	232/251 (92%)	1.04	45 (19%)	1	1	17, 33, 68, 85	232 (100%)
1	12-C	218/251 (86%)	0.77	31 (14%)	2	2	8, 29, 65, 84	218 (100%)
1	13-A	225/251 (89%)	1.51	71 (31%)	0	0	17, 40, 75, 91	225 (100%)
1	13-B	232/251 (92%)	1.04	45 (19%)	1	1	17, 33, 68, 85	232 (100%)
1	13-C	218/251 (86%)	0.77	31 (14%)	2	2	8, 29, 65, 84	218 (100%)
1	14-A	225/251 (89%)	1.51	71 (31%)	0	0	17, 40, 75, 91	225 (100%)
1	14-B	232/251 (92%)	1.04	45 (19%)	1	1	17, 33, 68, 85	232 (100%)
1	14-C	218/251 (86%)	0.77	31 (14%)	2	2	8, 29, 65, 84	218 (100%)
1	15-A	225/251 (89%)	1.51	71 (31%)	0	0	17, 40, 75, 91	225 (100%)
1	15-B	232/251 (92%)	1.04	45 (19%)	1	1	17, 33, 68, 85	232 (100%)
1	15-C	218/251 (86%)	0.77	31 (14%)	2	2	8, 29, 65, 84	218 (100%)
1	16-A	225/251 (89%)	1.51	71 (31%)	0	0	17, 40, 75, 91	225 (100%)
1	16-B	232/251 (92%)	1.04	45 (19%)	1	1	17, 33, 68, 85	232 (100%)
1	16-C	218/251 (86%)	0.77	31 (14%)	2	2	8, 29, 65, 84	218 (100%)
All	All	10800/12048 (89%)	1.11	2352 (21%)	0	0	8, 34, 72, 91	10800 (100%)

The worst 5 of 2352 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	1-C	105	THR	11.3
1	2-C	105	THR	11.3
1	3-C	105	THR	11.3
1	4-C	105	THR	11.3
1	5-C	105	THR	11.3

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.