



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 29, 2026 – 06:59 PM UTC

PDB ID : 6YF7 / pdb_00006yf7
Title : Virus-like particle of bacteriophage AC
Authors : Rumnieks, J.; Kalnins, G.; Sisovs, M.; Lieknina, I.; Tars, K.
Deposited on : 2020-03-26
Resolution : 3.40 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

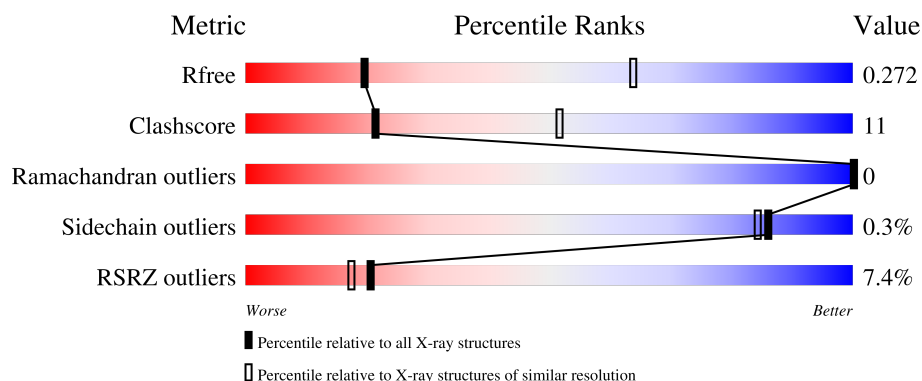
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.40 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	1001 (3.44-3.36)
Clashscore	190562	1022 (3.44-3.36)
Ramachandran outliers	187476	1012 (3.44-3.36)
Sidechain outliers	187428	1012 (3.44-3.36)
RSRZ outliers	180081	1001 (3.44-3.36)

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	AA	115	5% 80% 19% .
1	AB	115	7% 78% 21% .
1	AC	115	9% 78% 21% .
1	AD	115	6% 76% 23% .
1	AE	115	9% 76% 23% .

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Mol	Chain	Length	Quality of chain
1	AF	115	8% 74% 25%
1	AG	115	12% 74% 25%
1	AH	115	5% 81% 18%
1	AI	115	6% 76% 23%
1	AJ	115	3% 77% 23%
1	AK	115	5% 77% 22%
1	AL	115	6% 77% 23%
1	AM	115	9% 72% 27%
1	AN	115	4% 75% 24%
1	AO	115	3% 76% 23%
1	AP	115	19% 76% 23%
1	AQ	115	7% 76% 23%
1	AR	115	14% 77% 23%
1	AS	115	11% 69% 30%
1	AT	115	6% 81% 18%
1	AU	115	13% 67% 32%
1	AV	115	6% 78% 21%
1	AW	115	3% 80% 19%
1	AX	115	4% 75% 24%
1	AY	115	12% 75% 24%
1	AZ	115	15% 80% 19%
1	BA	115	18% 75% 24%
1	BB	115	9% 77% 22%
1	BC	115	3% 73% 26%
1	BD	115	9% 73% 26%

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Mol	Chain	Length	Quality of chain
1	BE	115	
1	BF	115	
1	BG	115	
1	BH	115	
1	BI	115	
1	BJ	115	
1	BK	115	
1	BL	115	
1	BM	115	
1	BN	115	
1	BO	115	
1	BP	115	
1	BQ	115	
1	BR	115	
1	BS	115	
1	BT	115	
1	BU	115	
1	BV	115	
1	BW	115	
1	BX	115	
1	BY	115	
1	BZ	115	
1	CA	115	
1	CB	115	
1	CC	115	

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Mol	Chain	Length	Quality of chain
1	CD	115	
1	CE	115	
1	CF	115	
1	CG	115	
1	CH	115	
1	CI	115	
1	CJ	115	
1	CK	115	
1	CL	115	
1	CM	115	
1	CN	115	
1	CO	115	
1	CP	115	
1	CQ	115	
1	CR	115	
1	CS	115	
1	CT	115	
1	CU	115	
1	CV	115	
1	CW	115	
1	CX	115	
1	CY	115	
1	CZ	115	
1	DA	115	
1	DB	115	

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Mol	Chain	Length	Quality of chain
1	DC	115	
1	DD	115	
1	DE	115	
1	DF	115	
1	DG	115	
1	DH	115	
1	DI	115	
1	DJ	115	
1	DK	115	
1	DL	115	
1	DM	115	
1	DN	115	
1	DO	115	
1	DP	115	
1	DQ	115	
1	DR	115	
1	DS	115	
1	DT	115	
1	DU	115	
1	DV	115	
1	DW	115	
1	DX	115	
1	DY	115	
1	DZ	115	
1	EA	115	

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Mol	Chain	Length	Quality of chain
1	EB	115	
1	EC	115	
1	ED	115	
1	EE	115	
1	EF	115	
1	EG	115	
1	EH	115	
1	EI	115	
1	EJ	115	
1	EK	115	
1	EL	115	
1	EM	115	
1	EN	115	
1	EO	115	
1	EP	115	
1	EQ	115	
1	ER	115	
1	ES	115	
1	ET	115	
1	EU	115	
1	EV	115	
1	EW	115	
1	EX	115	
1	EY	115	
1	EZ	115	

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Mol	Chain	Length	Quality of chain
1	FA	115	
1	FB	115	
1	FC	115	
1	FD	115	
1	FE	115	
1	FF	115	
1	FG	115	
1	FH	115	
1	FI	115	
1	FJ	115	
1	FK	115	
1	FL	115	
1	FM	115	
1	FN	115	
1	FO	115	
1	FP	115	
1	FQ	115	
1	FR	115	
1	FS	115	
1	FT	115	
1	FU	115	
1	FV	115	
1	FW	115	
1	FX	115	
1	FY	115	

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Mol	Chain	Length	Quality of chain
1	FZ	115	
1	GA	115	
1	GB	115	
1	GC	115	
1	GD	115	
1	GE	115	
1	GF	115	
1	GG	115	
1	GH	115	
1	GI	115	
1	GJ	115	
1	GK	115	
1	GL	115	
1	GM	115	
1	GN	115	
1	GO	115	
1	GP	115	
1	GQ	115	
1	GR	115	
1	GS	115	
1	GT	115	
1	GU	115	
1	GV	115	
1	GW	115	
1	GX	115	

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Mol	Chain	Length	Quality of chain
1	GY	115	
1	GZ	115	
1	HA	115	
1	HB	115	
1	HC	115	
1	HD	115	
1	HE	115	
1	HF	115	
1	HG	115	
1	HH	115	
1	HI	115	
1	HJ	115	
1	HK	115	
1	HL	115	
1	HM	115	
1	HN	115	
1	HO	115	
1	HP	115	
1	HQ	115	
1	HR	115	
1	HS	115	
1	HT	115	
1	HU	115	
1	HV	115	
1	HW	115	

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Mol	Chain	Length	Quality of chain
1	HX	115	
1	HY	115	
1	HZ	115	
1	IA	115	
1	IB	115	
1	IC	115	
1	ID	115	
1	IE	115	
1	IF	115	
1	IG	115	
1	IH	115	
1	II	115	
1	IJ	115	
1	IK	115	
1	IL	115	
1	IM	115	
1	IN	115	
1	IO	115	
1	IP	115	
1	IQ	115	
1	IR	115	
1	IS	115	
1	IT	115	
1	IU	115	
1	IV	115	

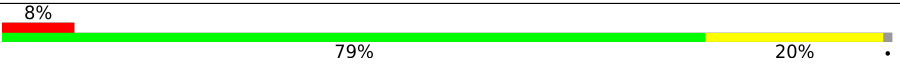
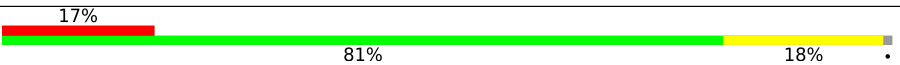
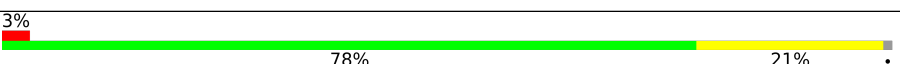
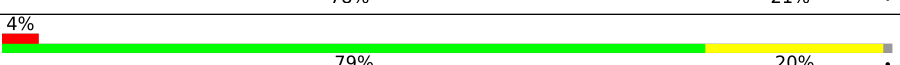
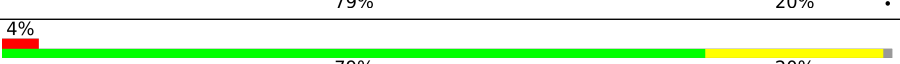
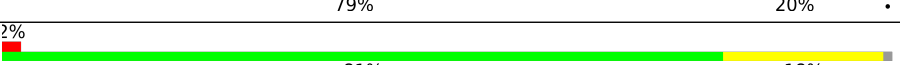
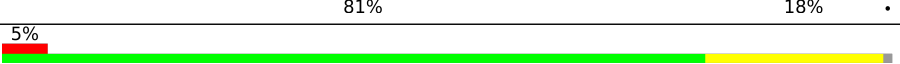
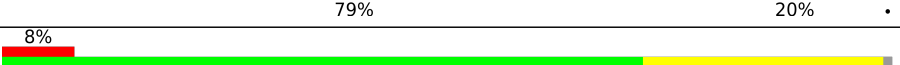
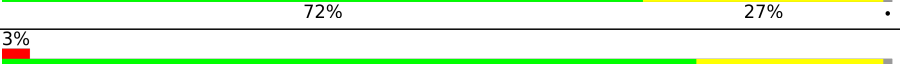
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Mol	Chain	Length	Quality of chain
1	IW	115	3% 79% 20%
1	IX	115	3% 77% 22%
1	IY	115	3% 76% 23%
1	IZ	115	4% 75% 24%
1	JA	115	12% 73% 26%
1	JB	115	7% 77% 22%
1	JC	115	9% 75% 24%
1	JD	115	16% 74% 25%
1	JE	115	6% 74% 25%
1	JF	115	3% 79% 20%
1	JG	115	4% 79% 20%
1	JH	115	8% 75% 24%
1	JI	115	10% 79% 20%
1	JJ	115	16% 77% 22%
1	JK	115	21% 77% 23%
1	JL	115	21% 71% 28%
1	JM	115	24% 75% 24%
1	JN	115	11% 72% 27%
1	JO	115	12% 73% 26%
1	JP	115	4% 73% 26%
1	JQ	115	10% 76% 23%
1	JR	115	4% 77% 22%
1	JS	115	3% 78% 21%
1	JT	115	4% 75% 24%
1	JU	115	6% 79% 20%

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Mol	Chain	Length	Quality of chain
1	JV	115	
1	JW	115	
1	JX	115	
1	JY	115	
1	JZ	115	
1	KA	115	
1	KB	115	
1	KC	115	
1	KD	115	
1	KE	115	
1	KF	115	
1	KG	115	
1	KH	115	
1	KI	115	
1	KJ	115	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 231390 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 Coat protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AB	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AC	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AD	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AE	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AF	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AG	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AH	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AI	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AJ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AK	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AL	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AM	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AN	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AO	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AP	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AQ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AR	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AS	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AT	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AU	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AV	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AW	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AX	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AY	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	AZ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BA	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BB	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BC	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BD	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BE	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BF	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BG	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BH	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BI	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BJ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BK	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	BL	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BM	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BN	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BO	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BP	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BQ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BR	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BS	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BT	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BU	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BV	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BW	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BX	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BY	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	BZ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CA	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CB	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CC	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CD	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CE	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CF	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	CG	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CH	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CI	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CJ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CK	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CL	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CM	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CN	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CO	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CP	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CQ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CR	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CS	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CT	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CU	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CV	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CW	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CX	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CY	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	CZ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DA	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	DB	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DC	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DD	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DE	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DF	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DG	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DH	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DI	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DJ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DK	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DL	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DM	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DN	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DO	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DP	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DQ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DR	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DS	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DT	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DU	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DV	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	DW	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DX	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DY	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	DZ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EA	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EB	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EC	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	ED	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EE	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EF	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EG	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EH	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EI	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EJ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EK	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EL	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EM	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EN	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EO	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EP	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EQ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	ER	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	ES	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	ET	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EU	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EV	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EW	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EX	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EY	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	EZ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FA	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FB	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FC	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FD	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FE	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FF	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FG	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FH	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FI	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FJ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FK	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FL	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	FM	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FN	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FO	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FP	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FQ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FR	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FS	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FT	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FU	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FV	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FW	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FX	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FY	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	FZ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GA	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GB	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GC	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GD	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GE	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GF	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GG	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	GH	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GI	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GJ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GK	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GL	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GM	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GN	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GO	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GP	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GQ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GR	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GS	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GT	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GU	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GV	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GW	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GX	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GY	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	GZ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HA	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HB	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	HC	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HD	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HE	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HF	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HG	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HH	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HI	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HJ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HK	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HL	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HM	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HN	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HO	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HP	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HQ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HR	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HS	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HT	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HU	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HV	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	HW	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	HX	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	HY	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	HZ	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IA	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IB	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IC	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	ID	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IE	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IF	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IG	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IH	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	II	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IJ	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IK	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IL	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IM	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IN	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IO	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IP	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IQ	114	Total 857	C 545	N 141	O 170	S 1	0	0	0
1	IR	114	Total 857	C 545	N 141	O 170	S 1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	IS	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	IT	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	IU	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	IV	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	IW	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	IX	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	IY	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	IZ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JA	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JB	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JC	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JD	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JE	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JF	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JG	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JH	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JI	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JJ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JK	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JL	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JM	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	JN	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JO	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JP	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JQ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JR	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JS	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JT	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JU	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JV	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JW	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JX	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JY	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	JZ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	KA	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	KB	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	KC	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	KD	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	KE	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	KF	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	KG	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	KH	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			

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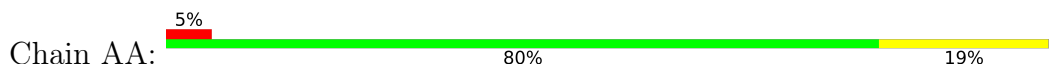
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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	KI	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			
1	KJ	114	Total	C	N	O	S	0	0	0
			857	545	141	170	1			

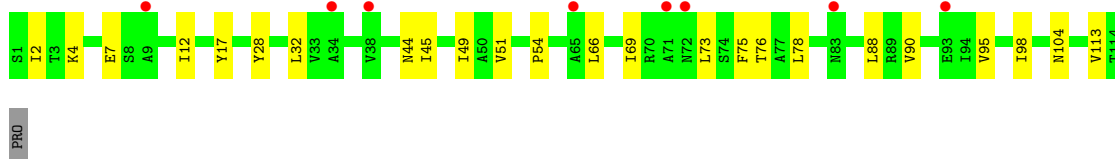
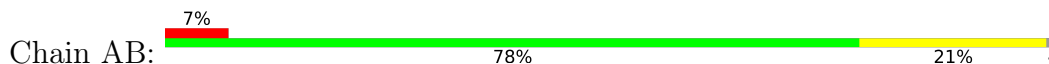
3 Residue-property plots [i](#)

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.

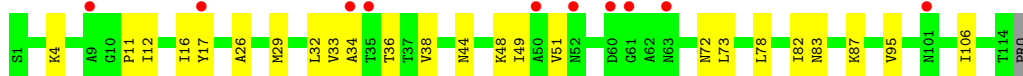
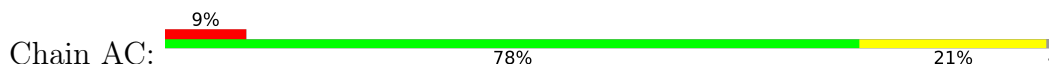
- Molecule 1: Coat protein



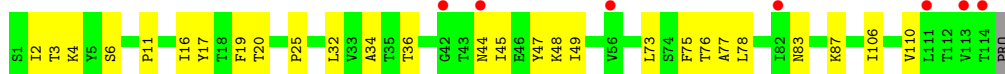
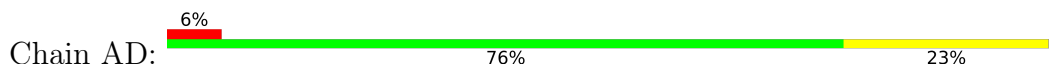
- Molecule 1: Coat protein



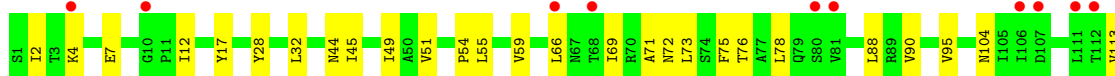
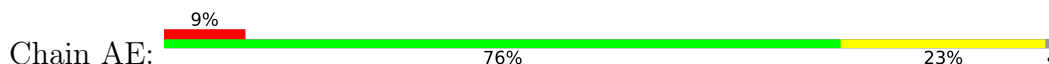
- Molecule 1: Coat protein



- Molecule 1: Coat protein

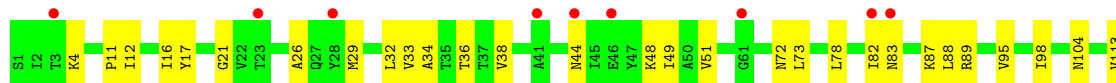
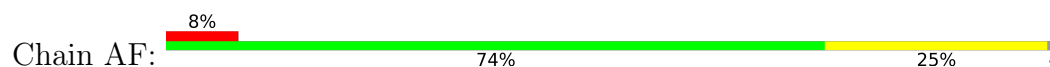


- Molecule 1: Coat protein

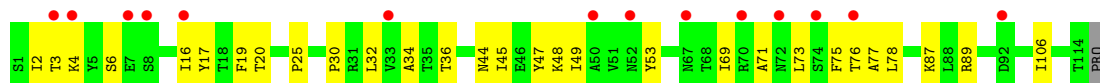
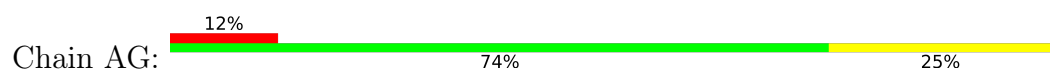




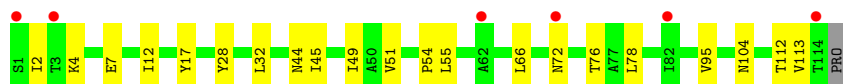
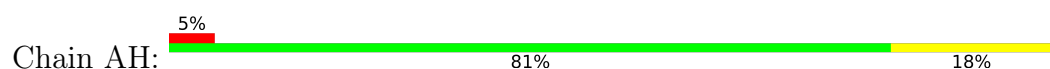
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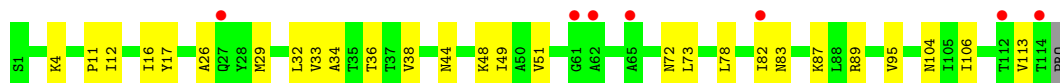
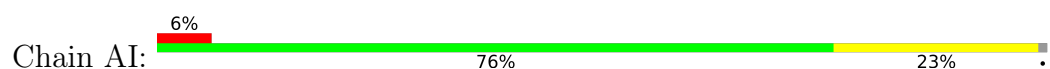
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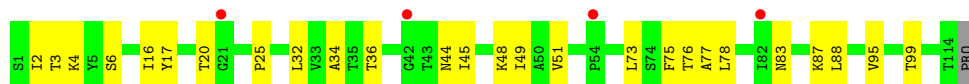
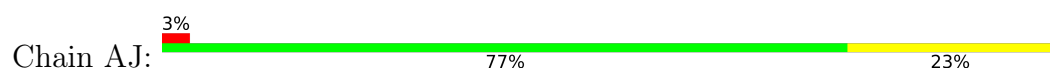
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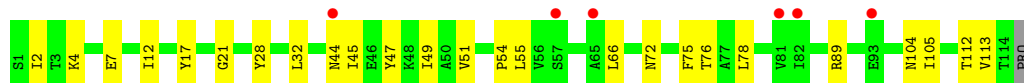
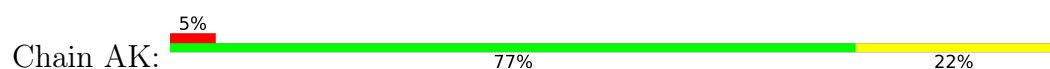
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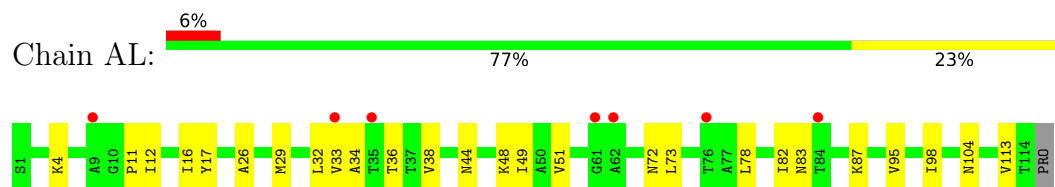
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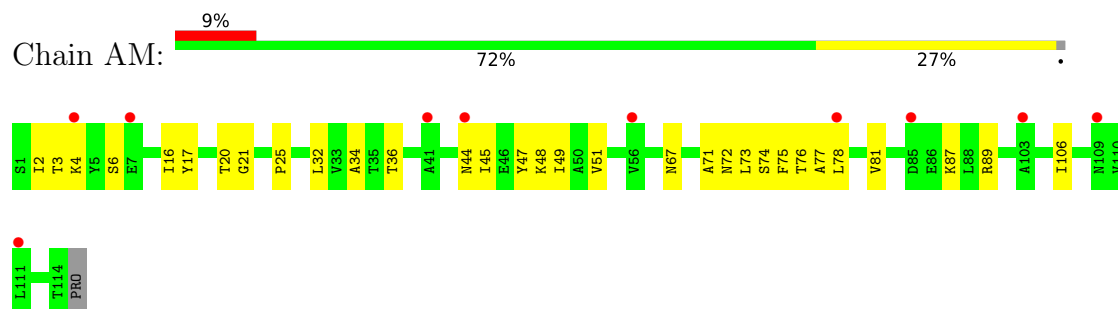
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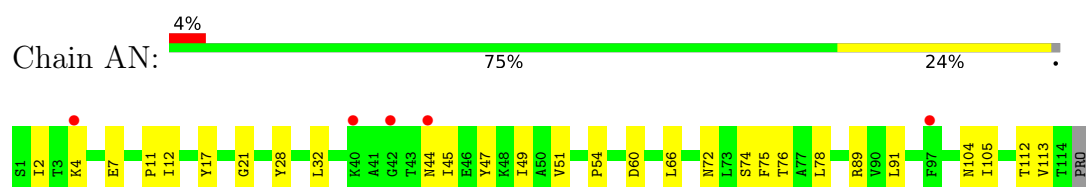
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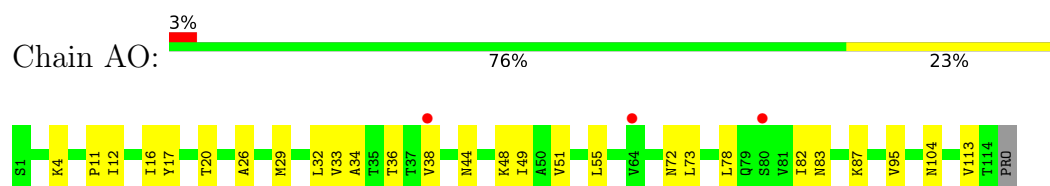
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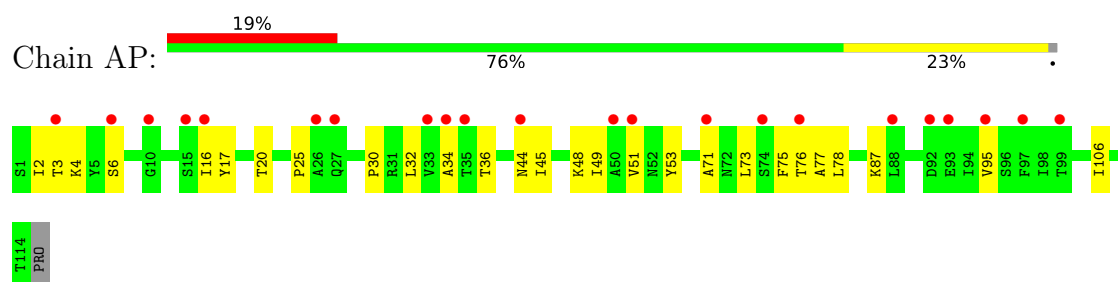
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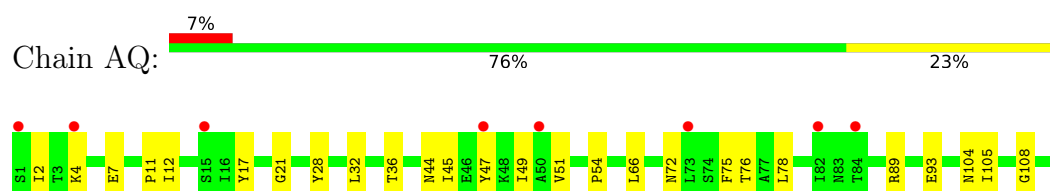
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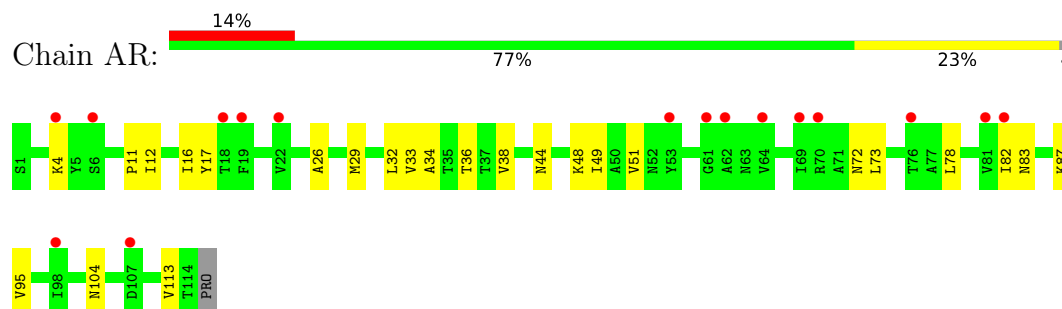
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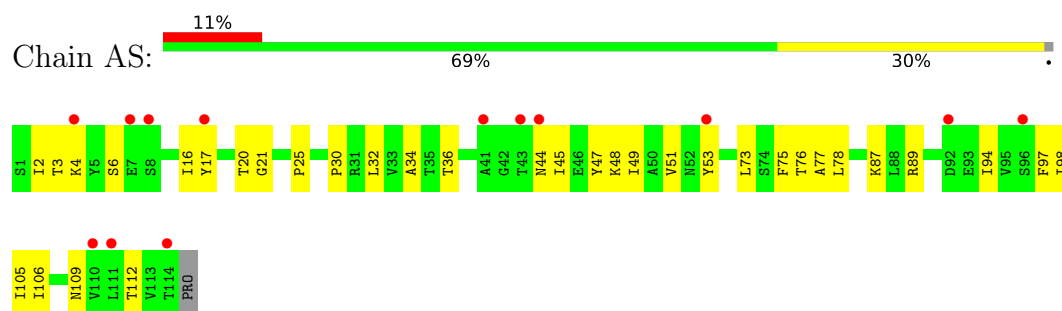
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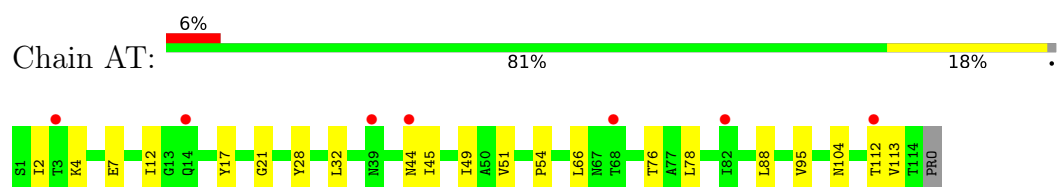
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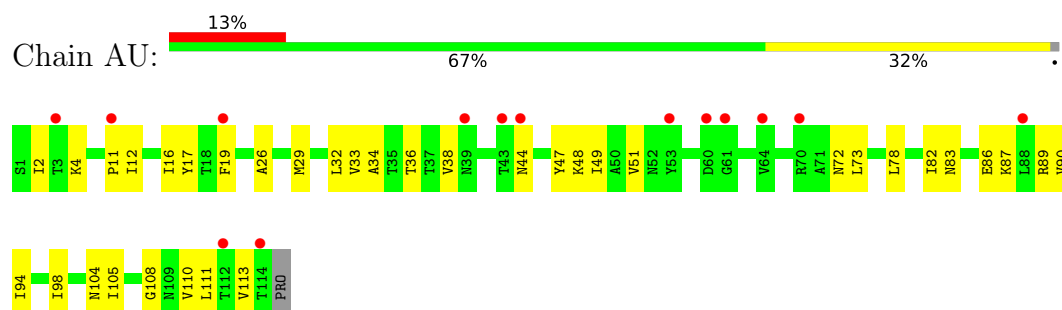
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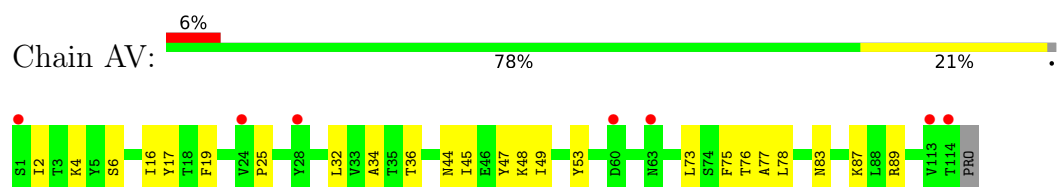
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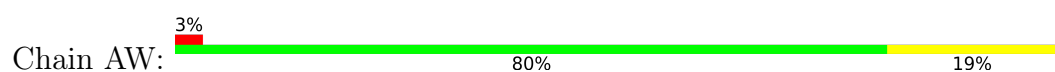
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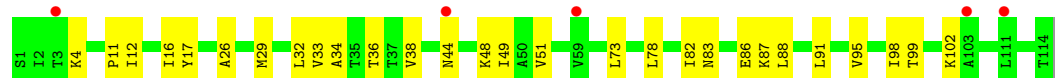
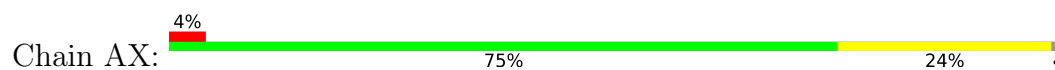
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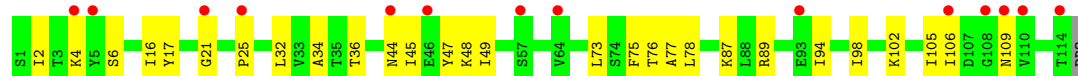
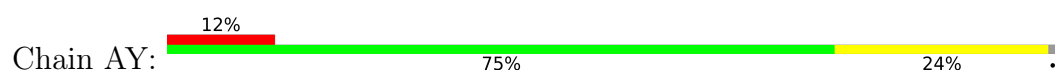
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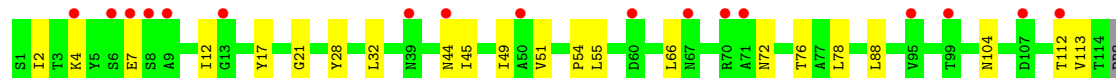
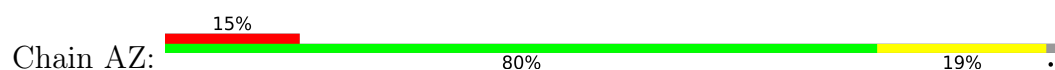
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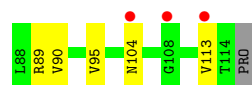
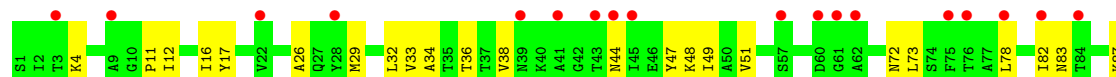
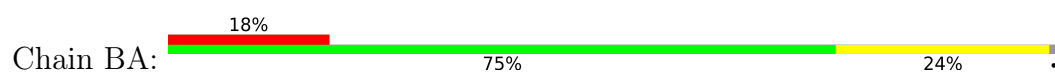
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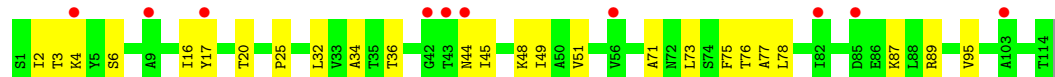
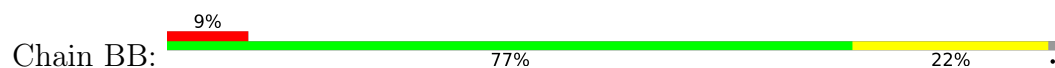
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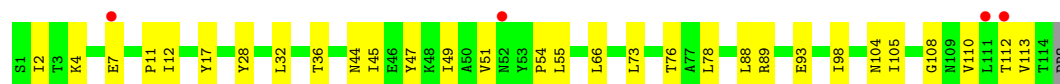


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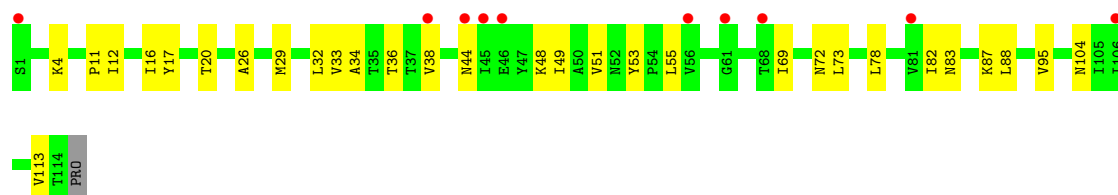
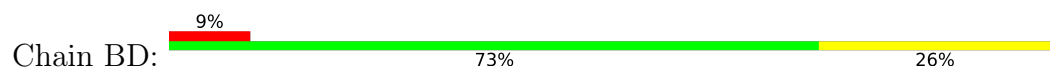


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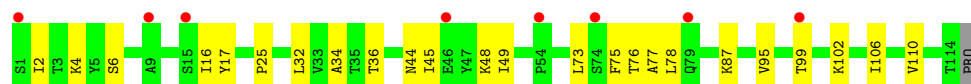
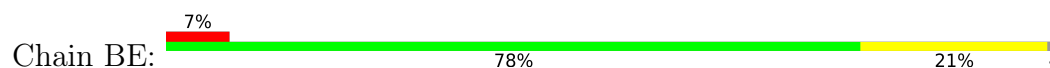




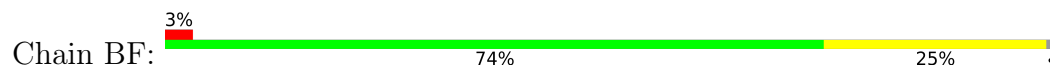
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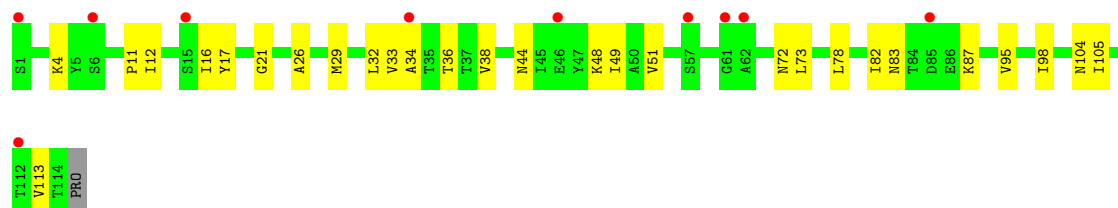
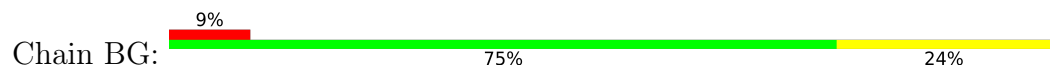
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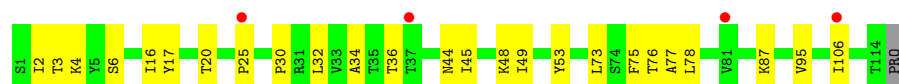
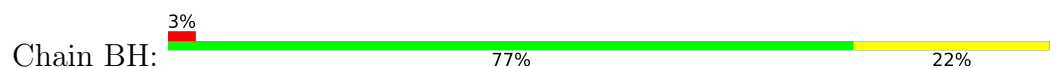
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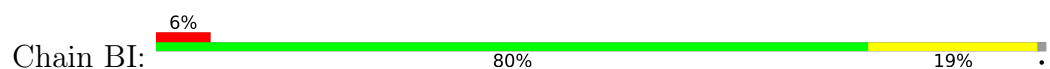
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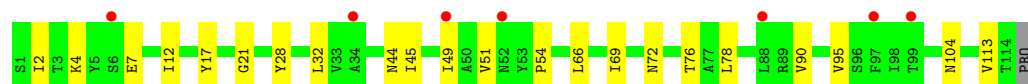


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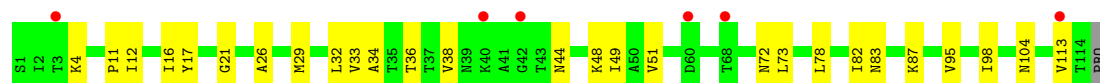
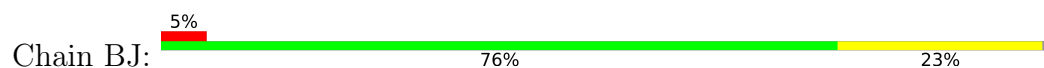


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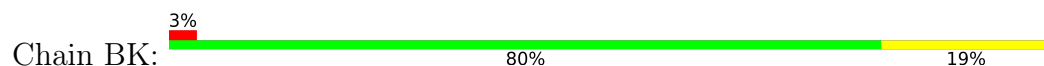




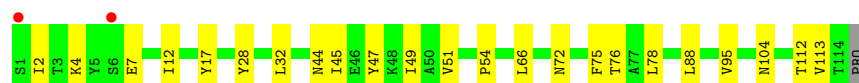
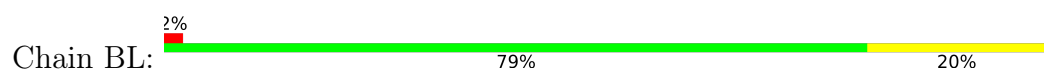
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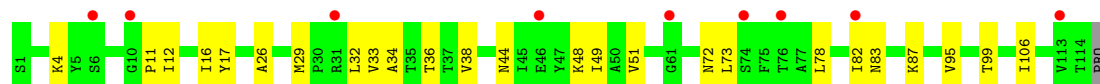
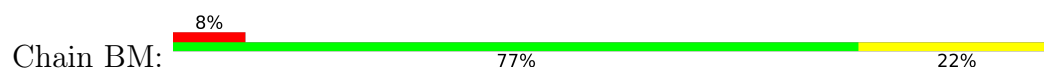
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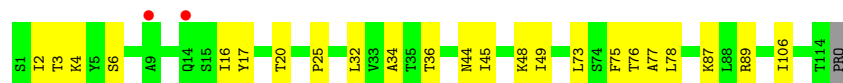
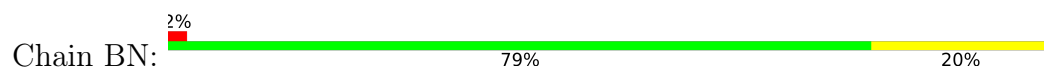
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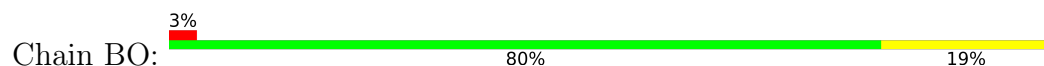
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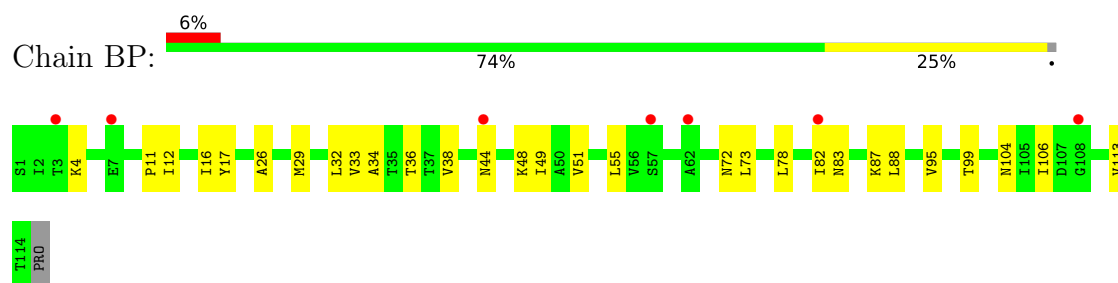
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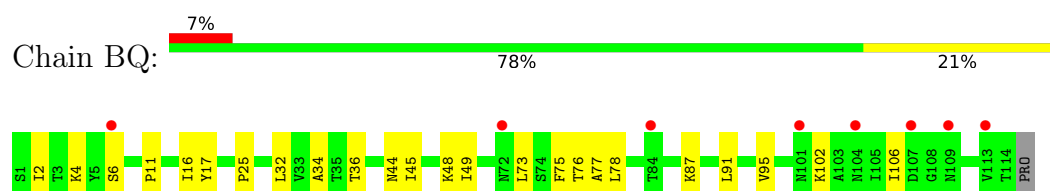
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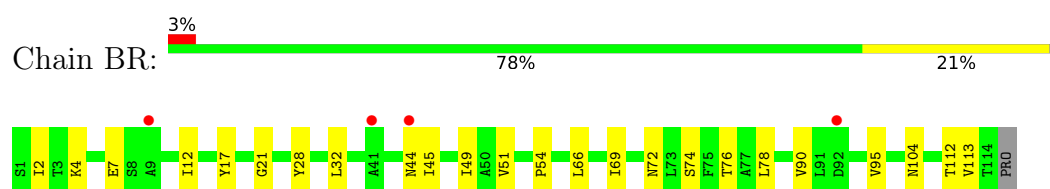
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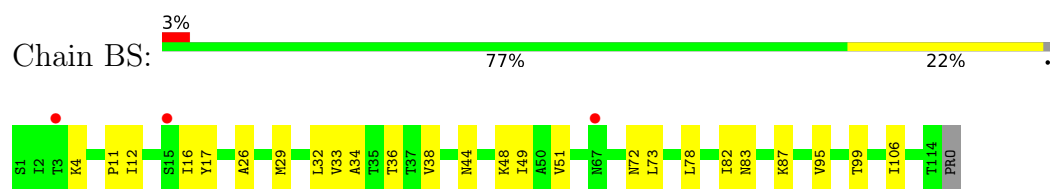
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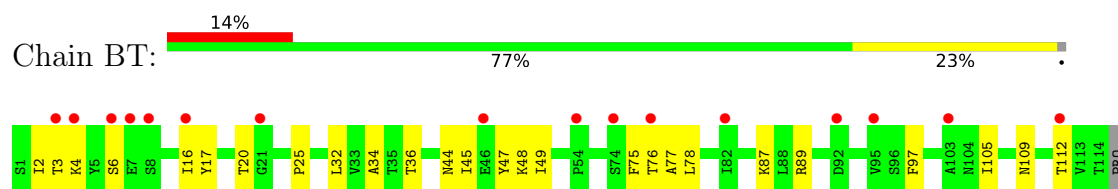
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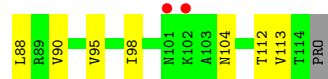
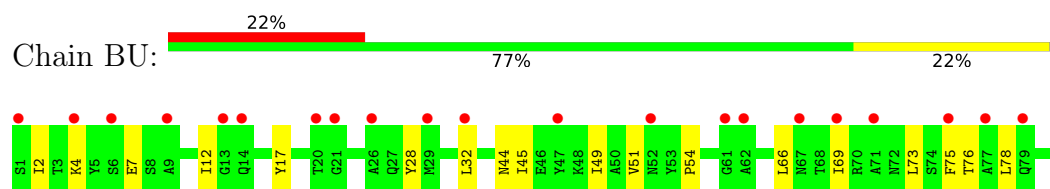
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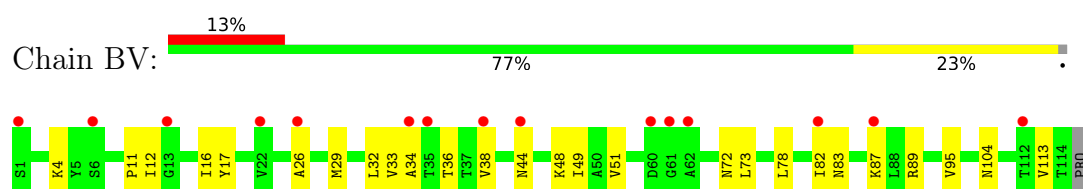
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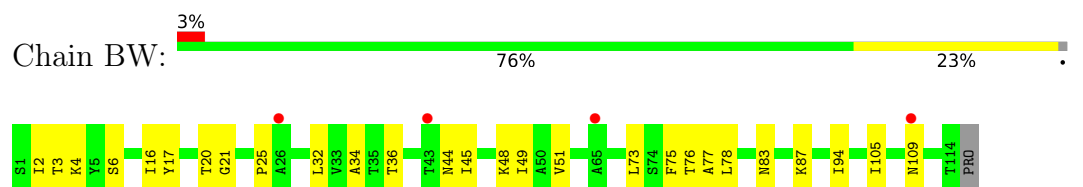
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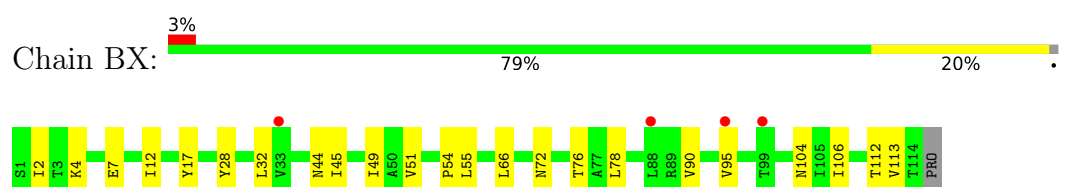
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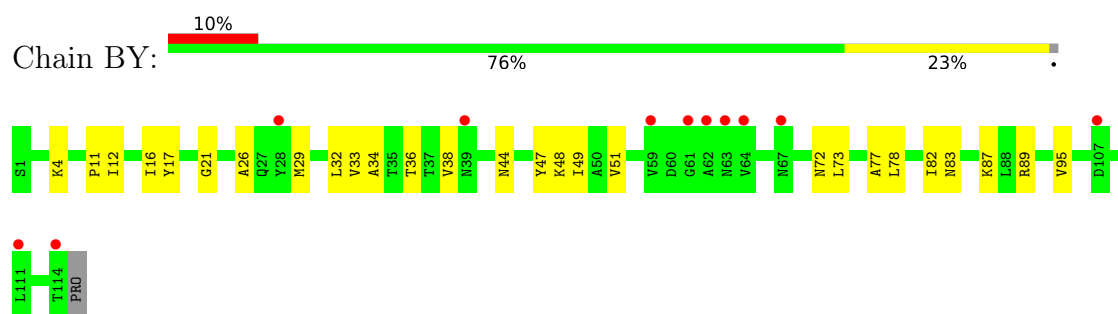
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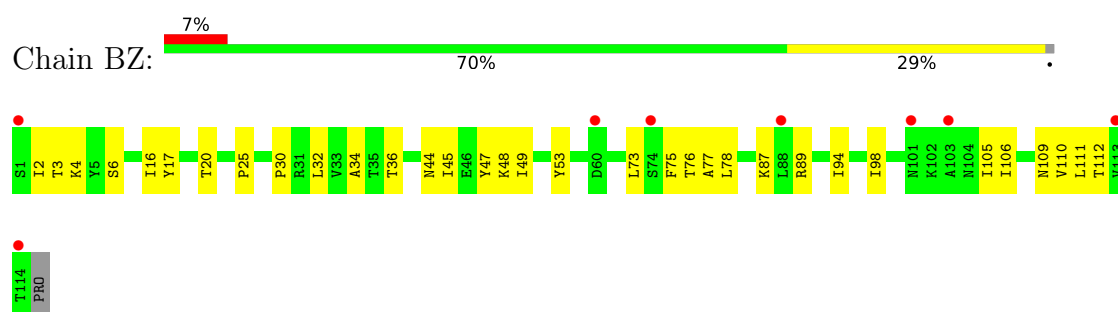
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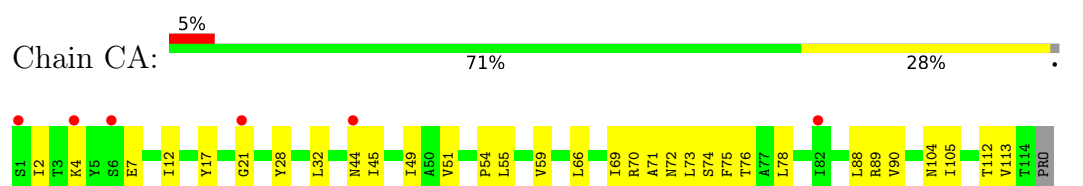
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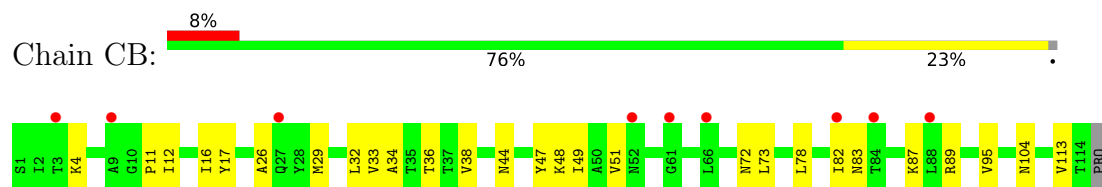
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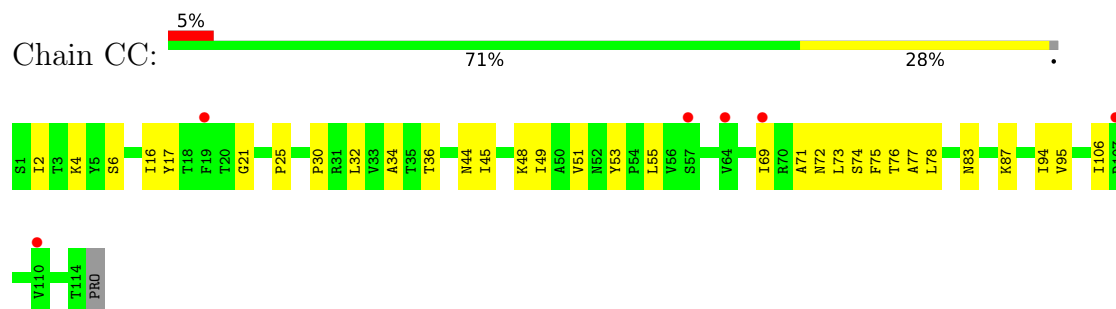
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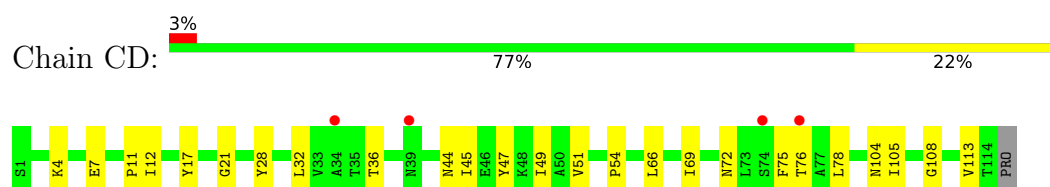
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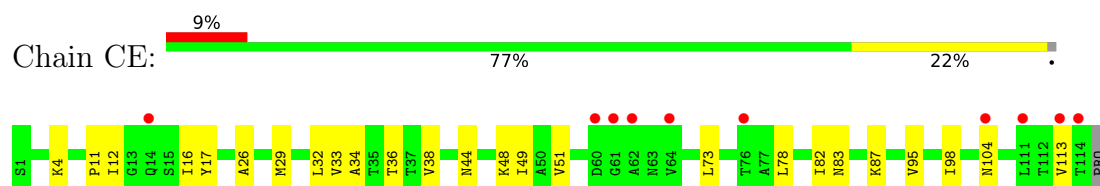
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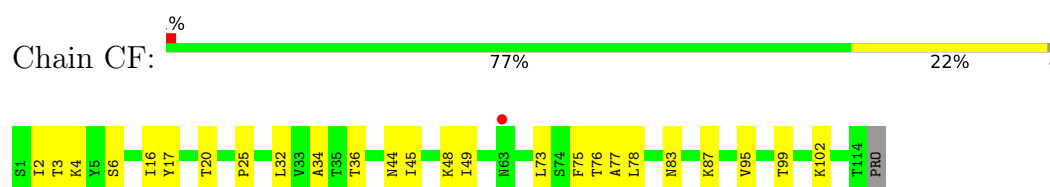
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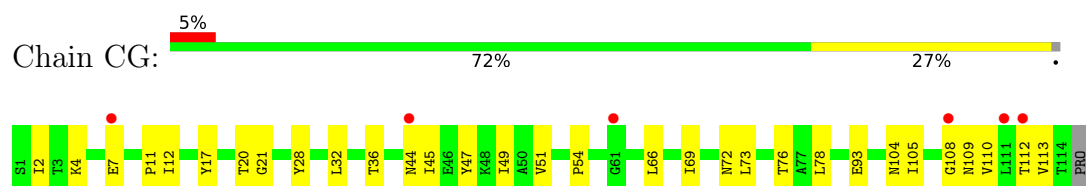
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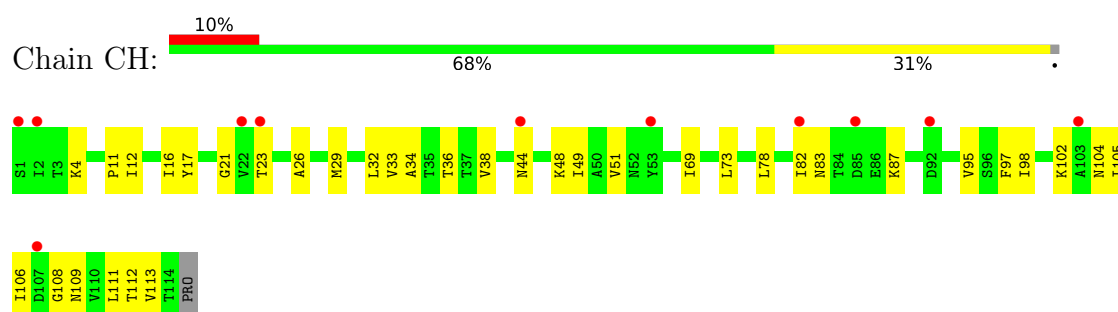
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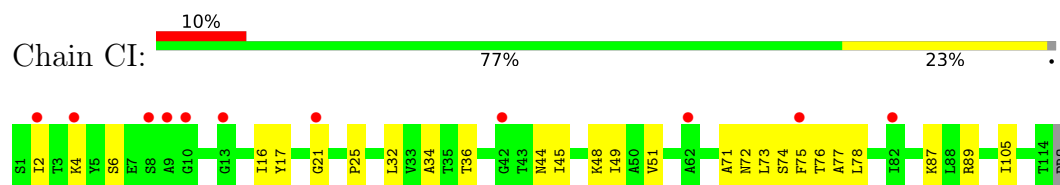
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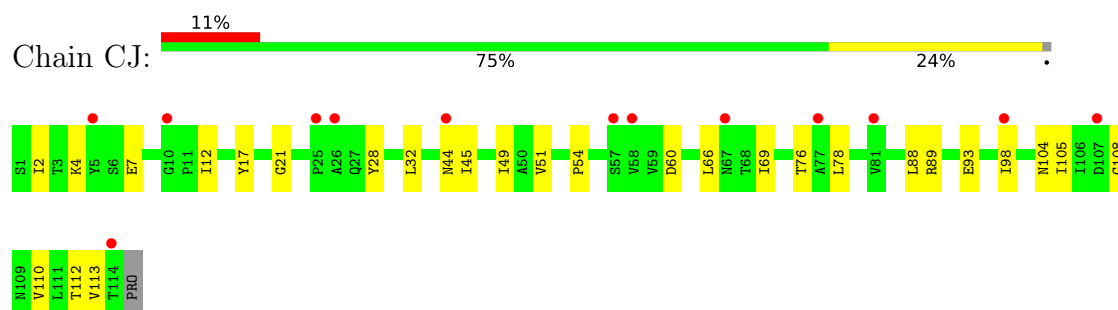
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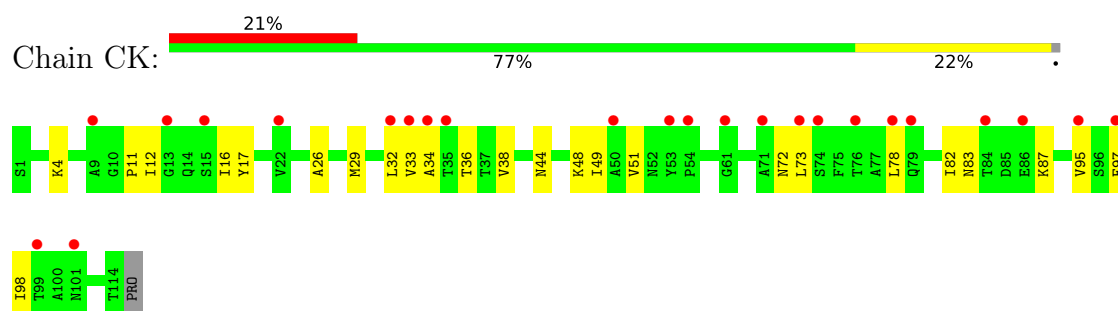
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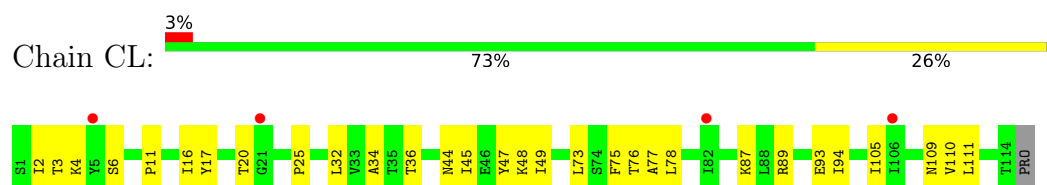
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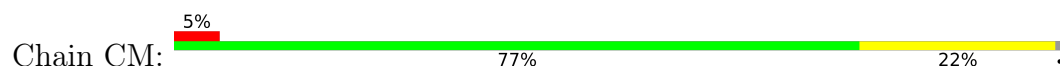
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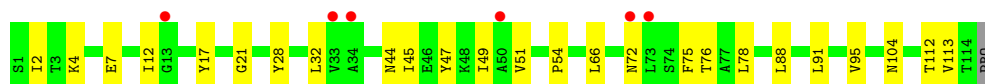


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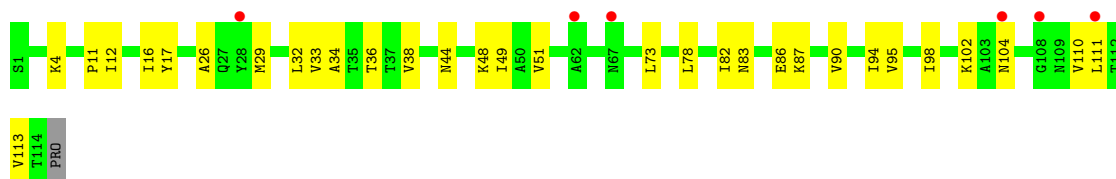
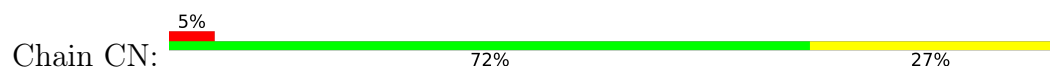


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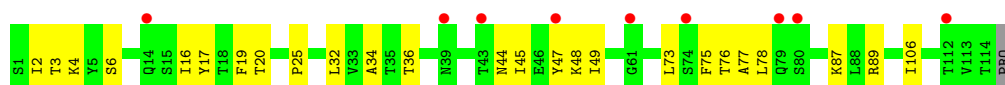
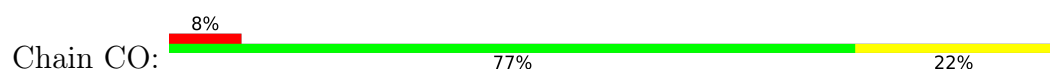




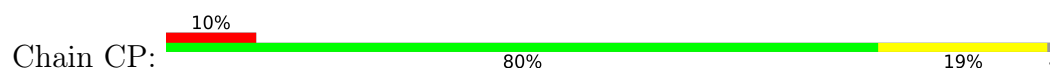
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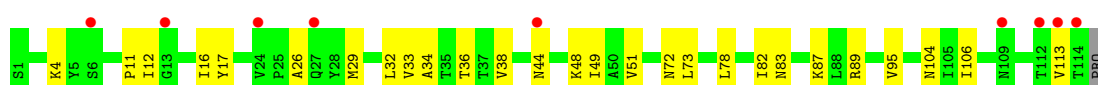
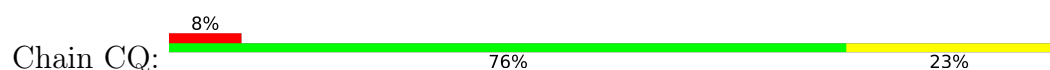
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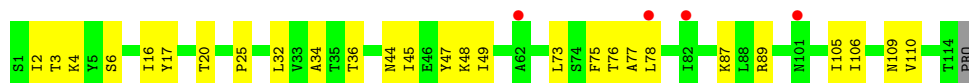
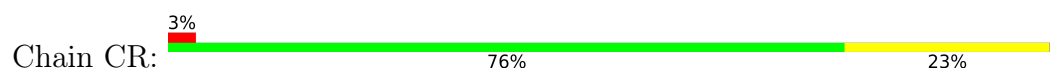
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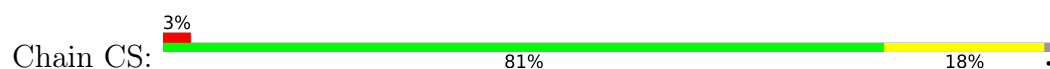
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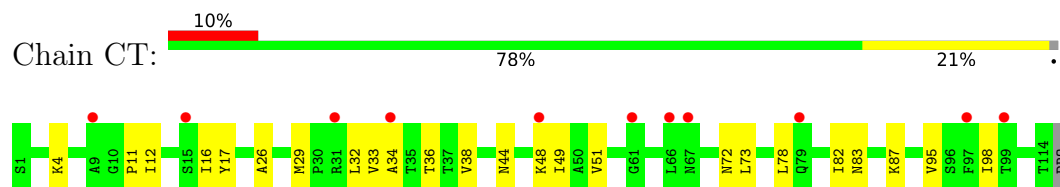
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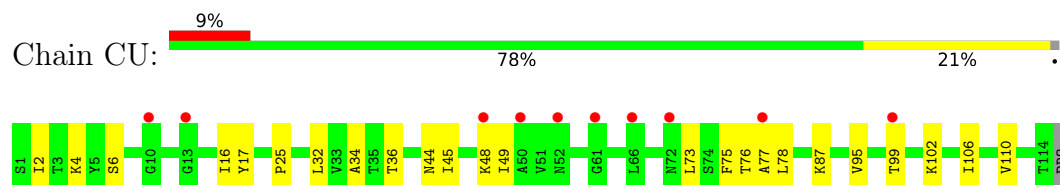
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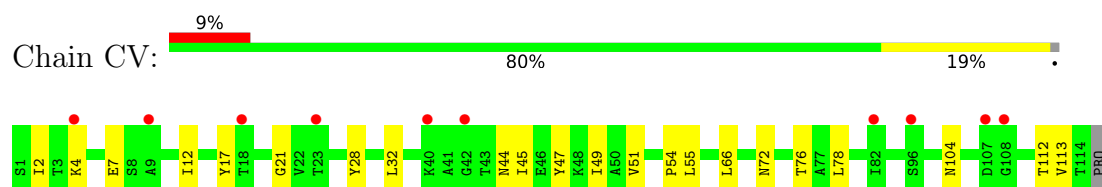
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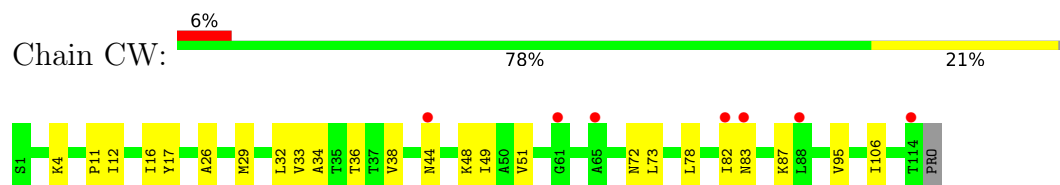
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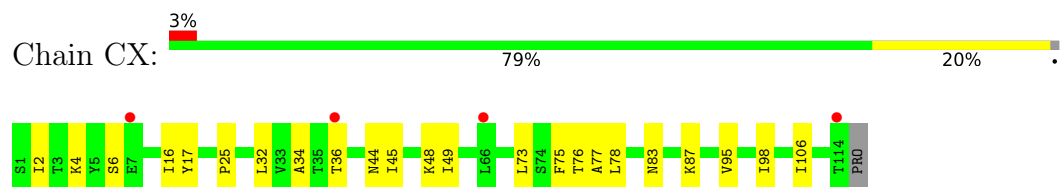
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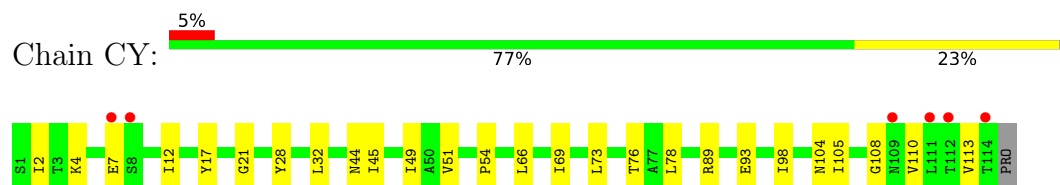
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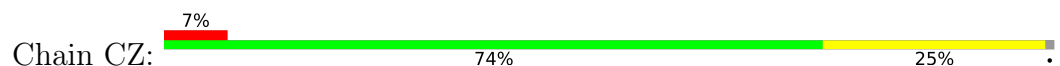
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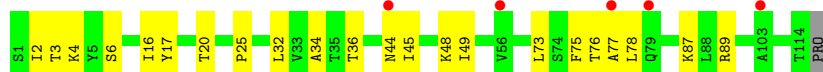
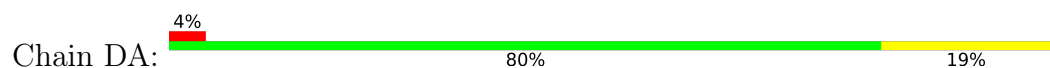


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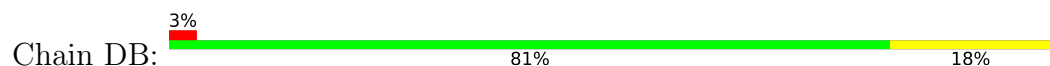




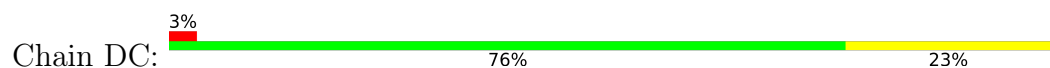
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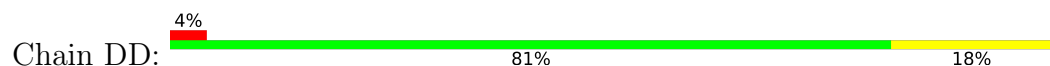
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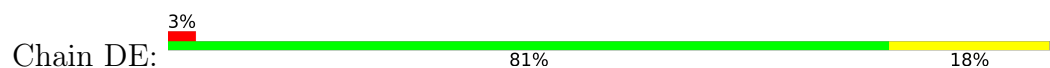
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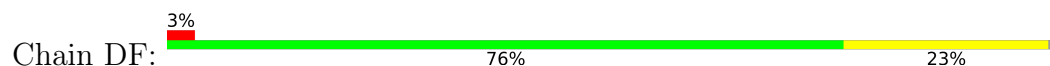
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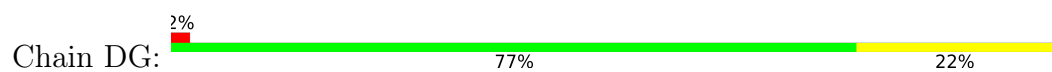
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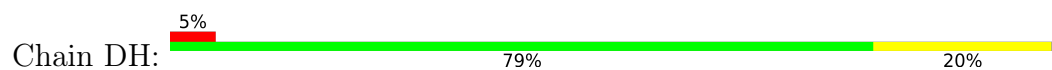
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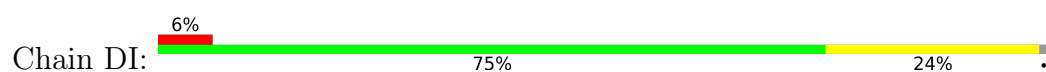
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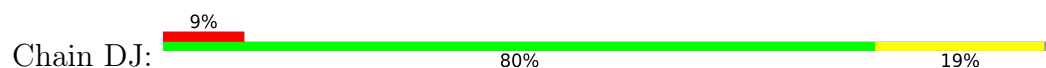
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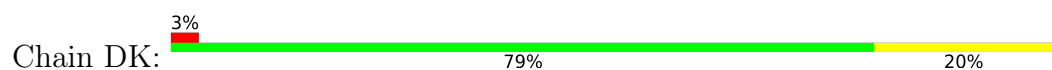
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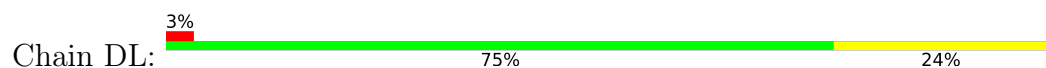
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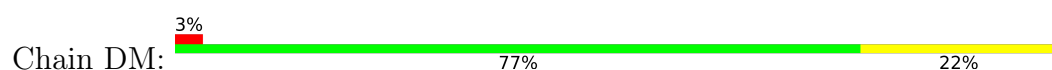
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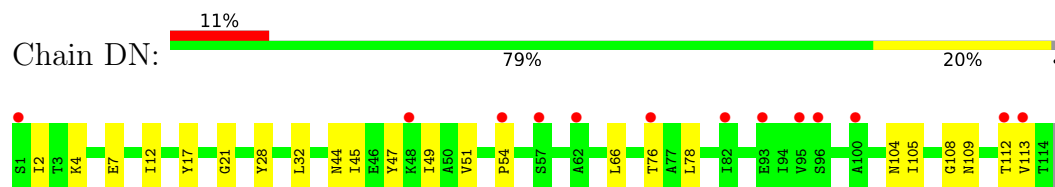
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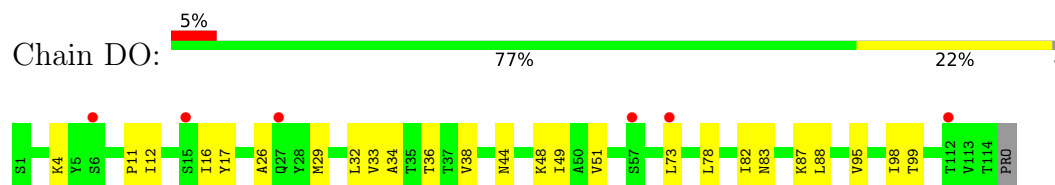
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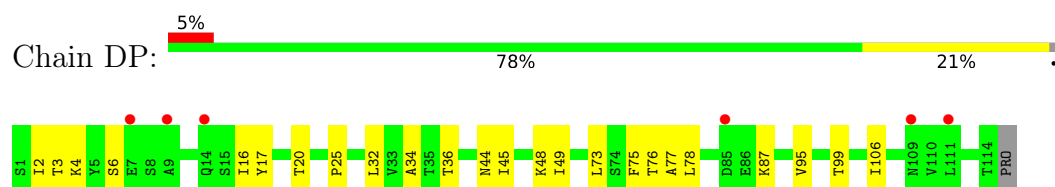
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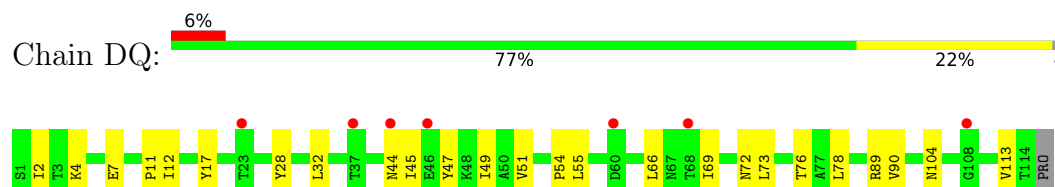
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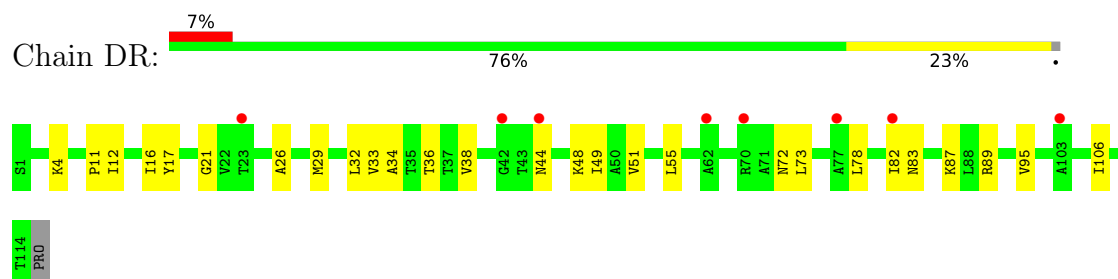
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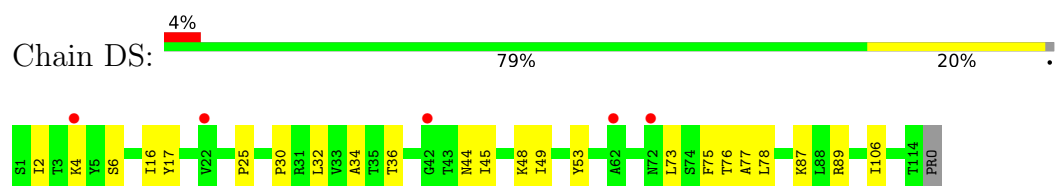
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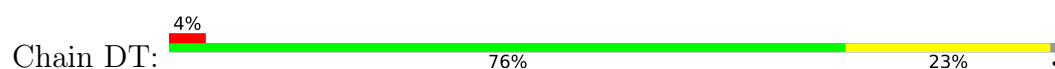
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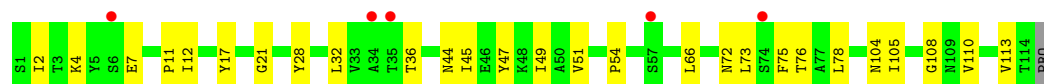


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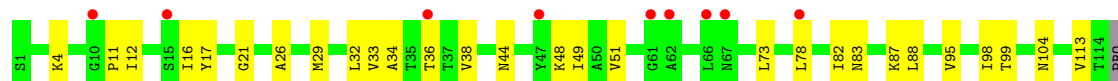
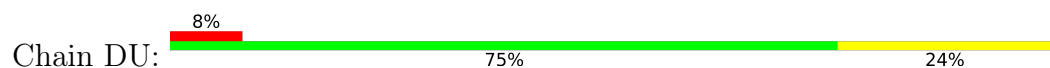


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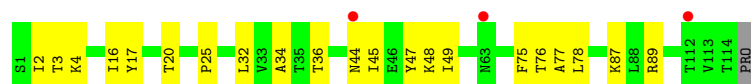
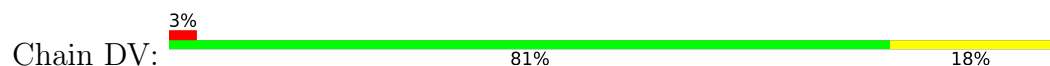




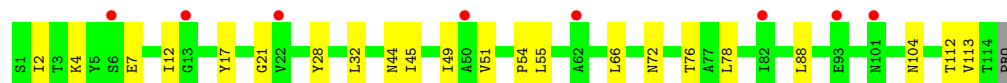
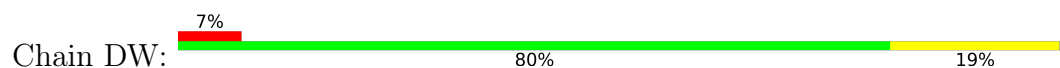
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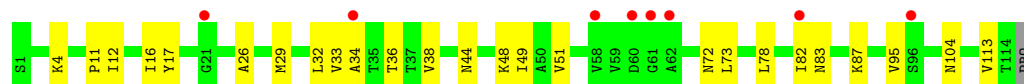
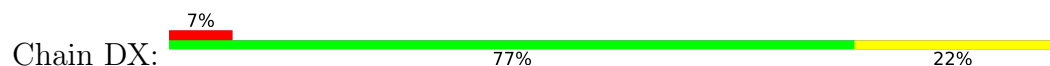
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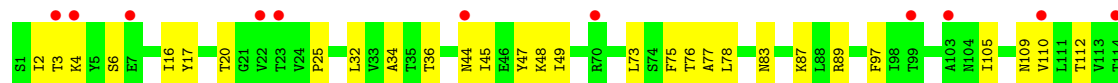
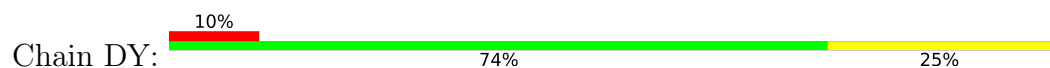
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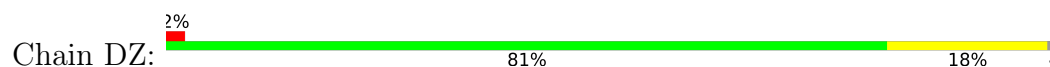


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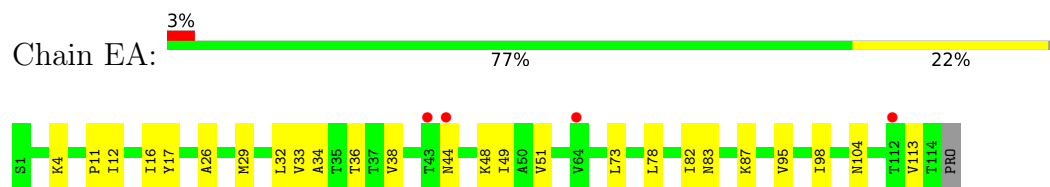


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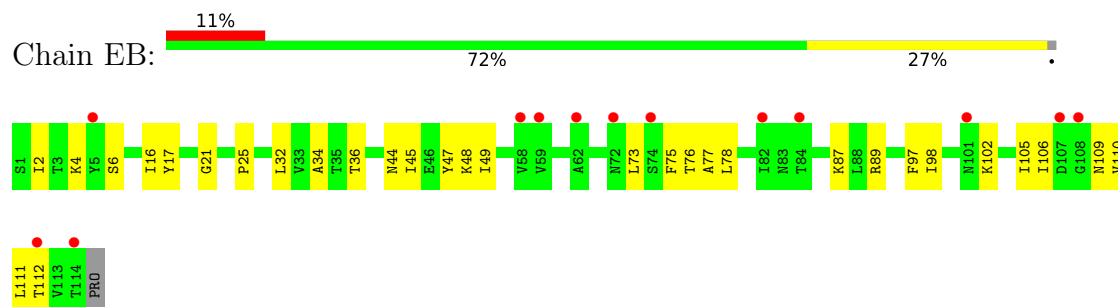
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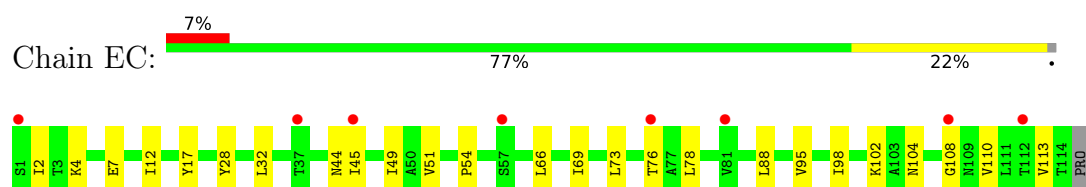
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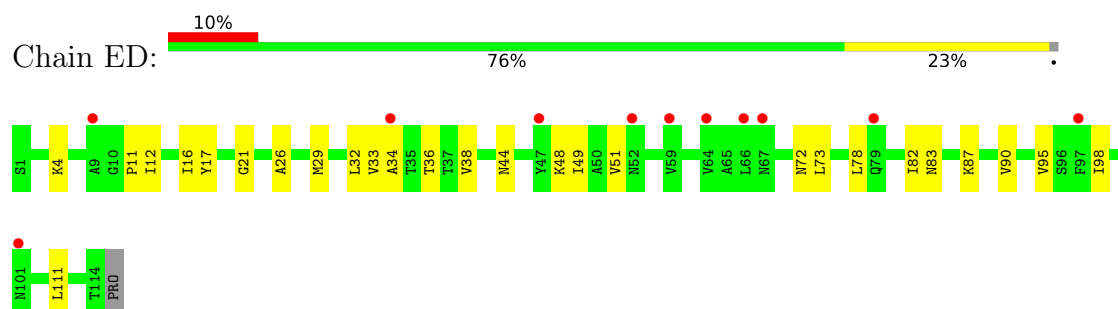
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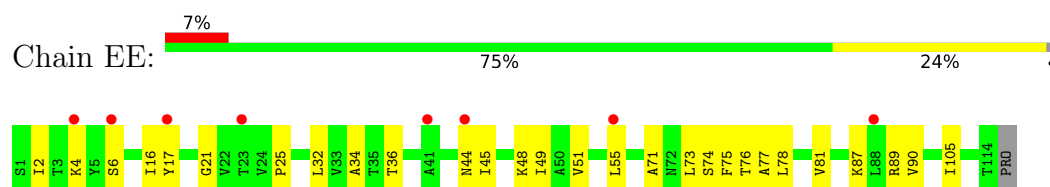
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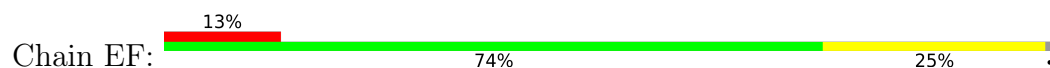
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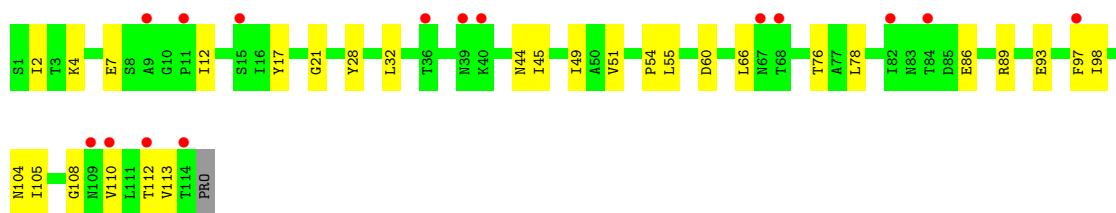


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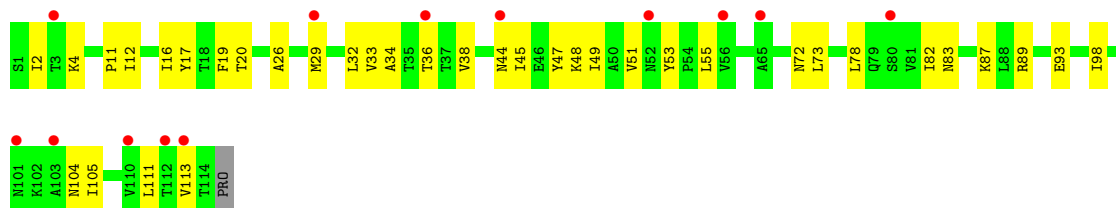


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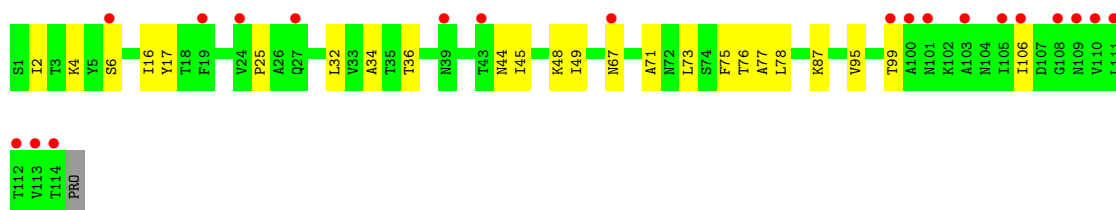
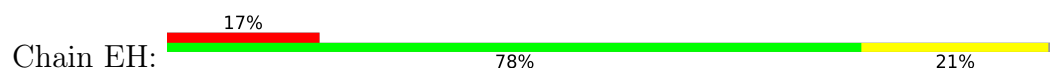




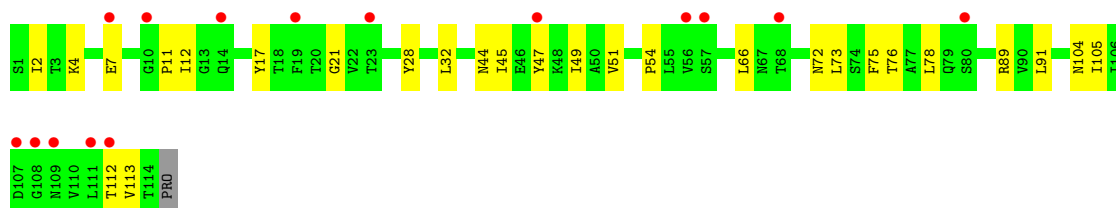
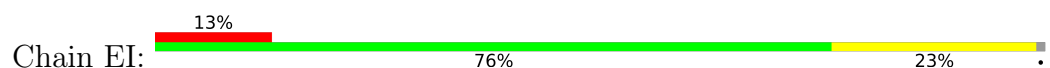
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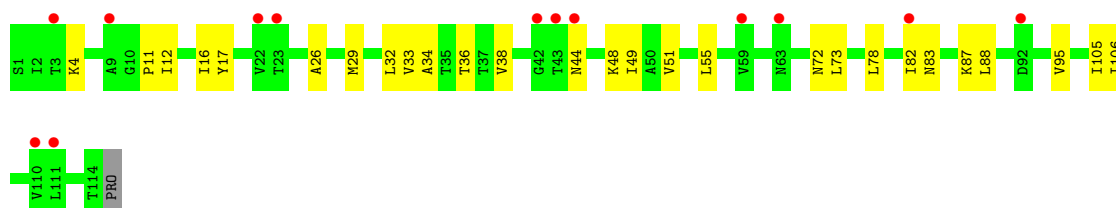
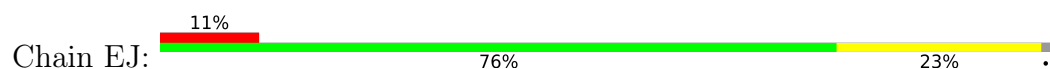
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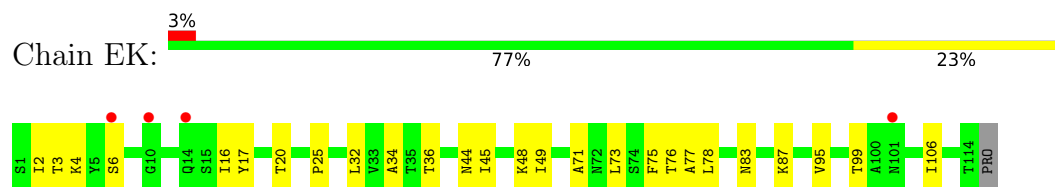
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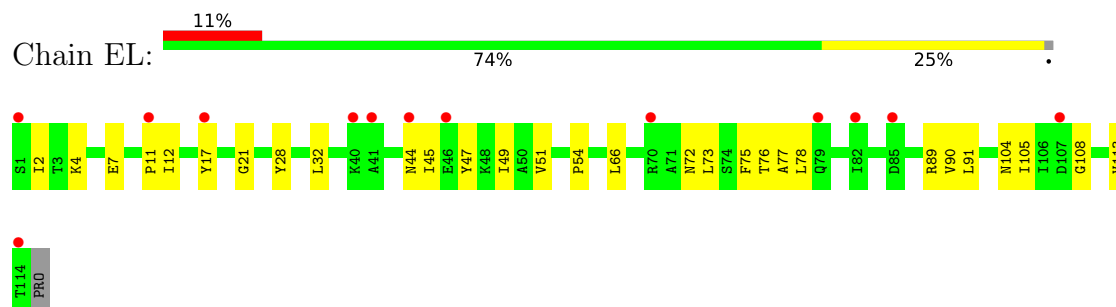
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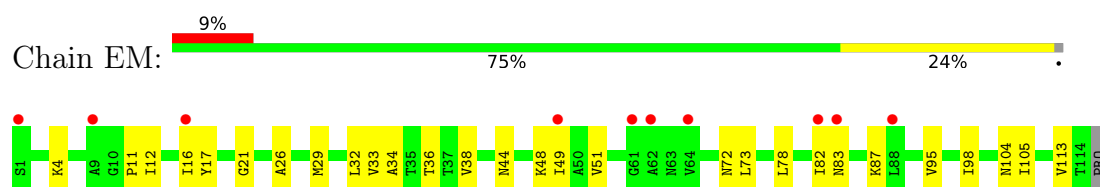
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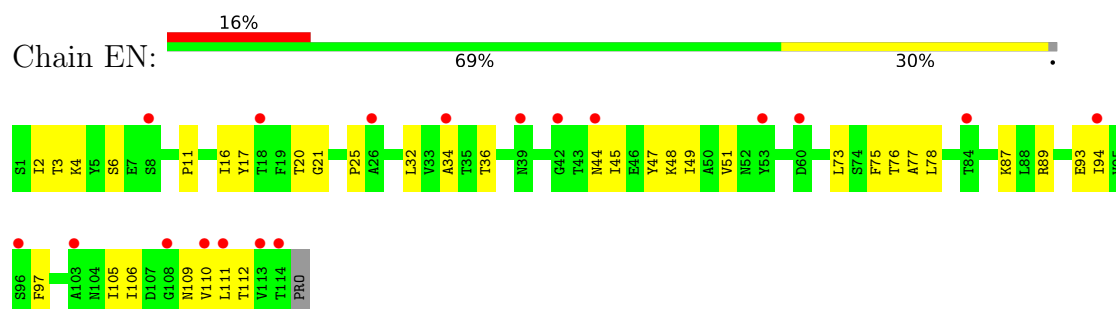
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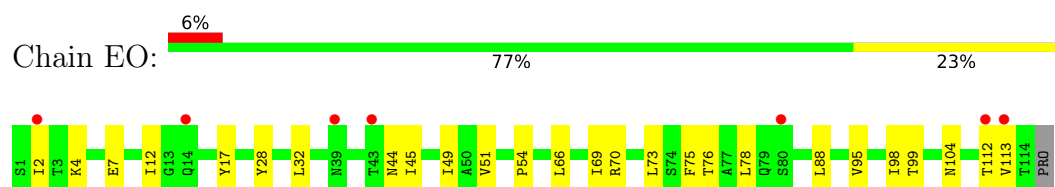
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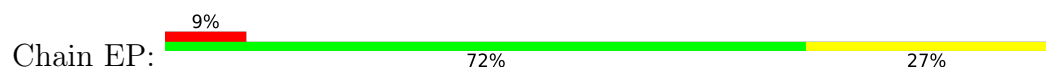
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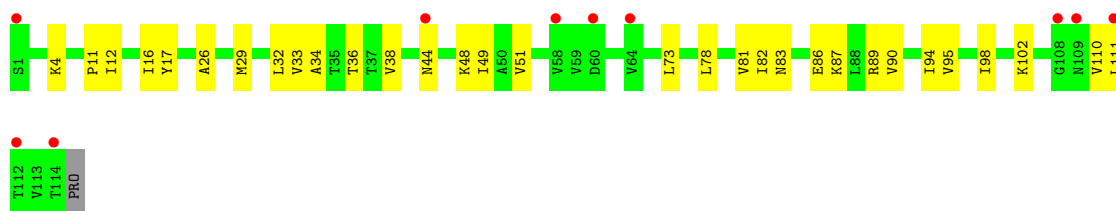


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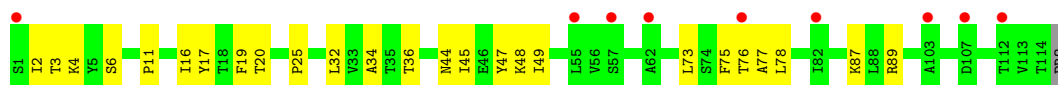
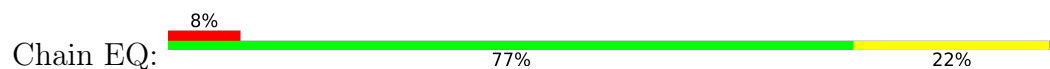


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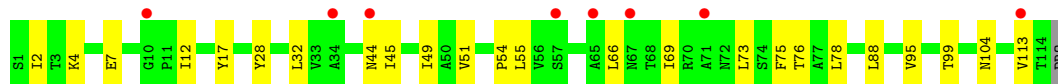
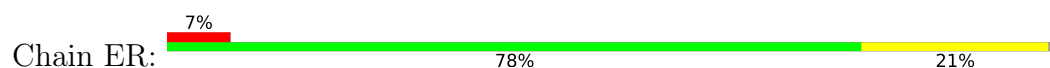




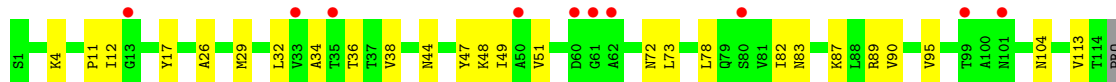
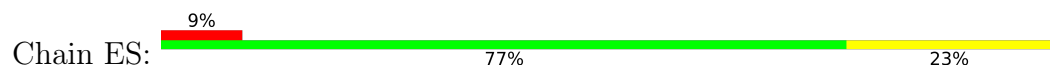
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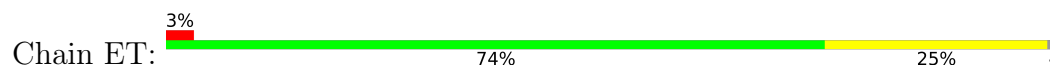
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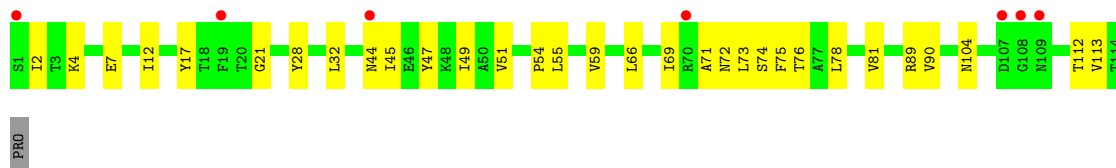
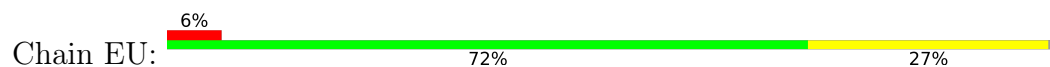
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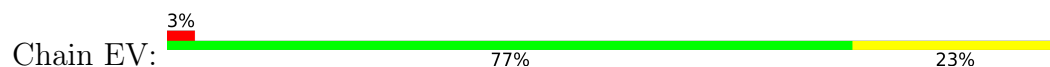
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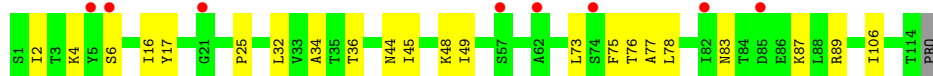
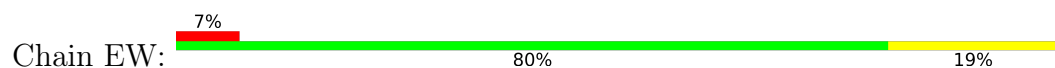


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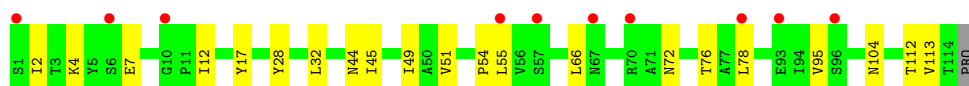
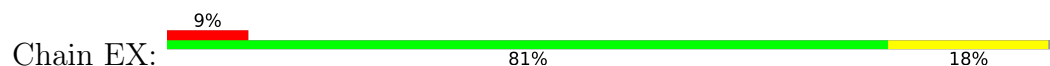




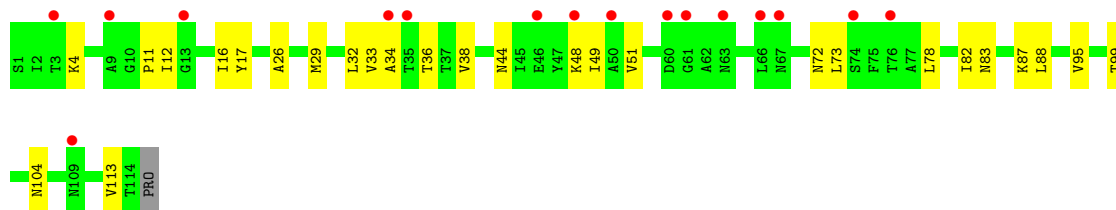
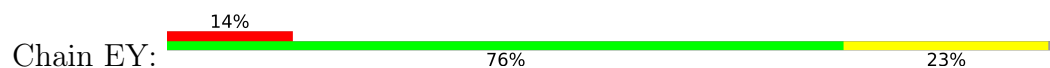
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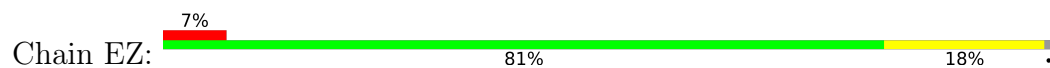
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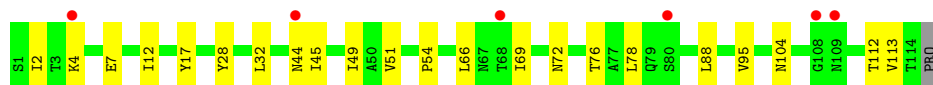
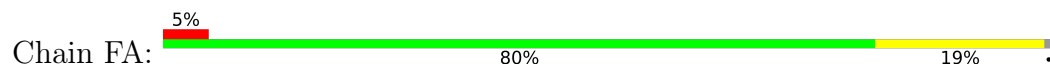
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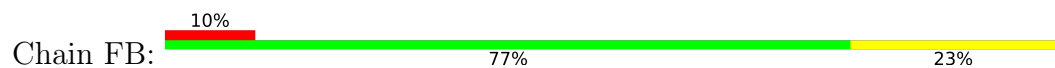
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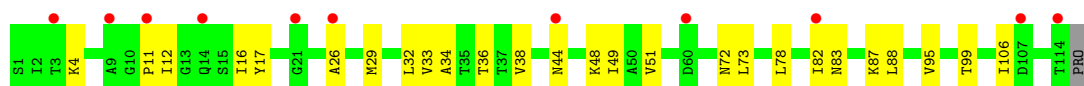


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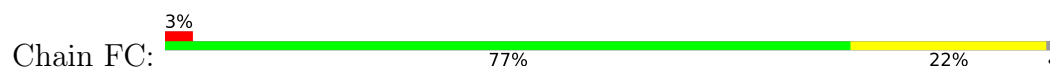


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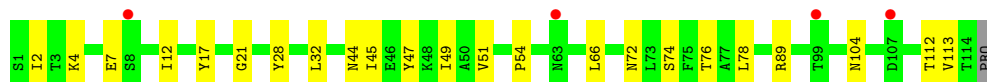
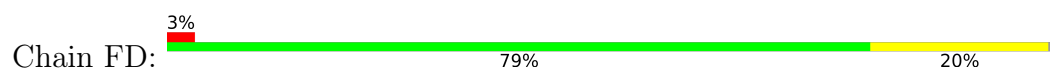




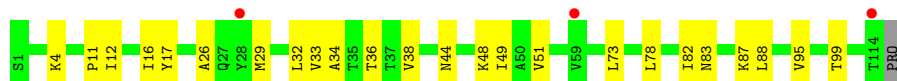
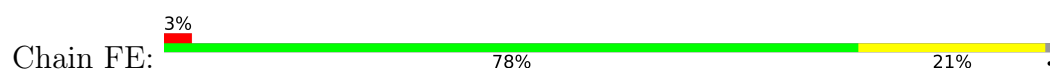
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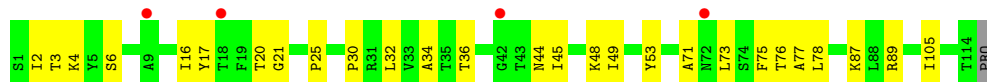
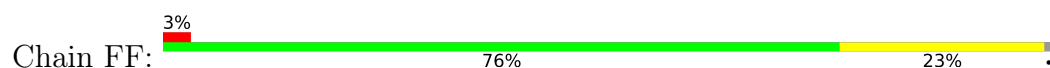
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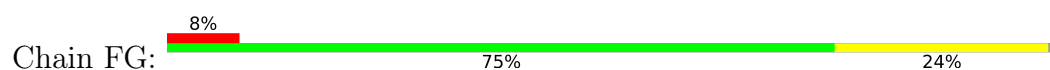
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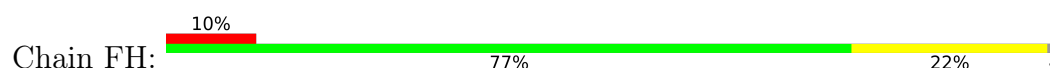
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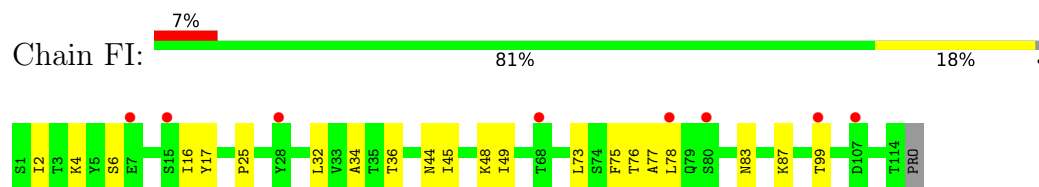
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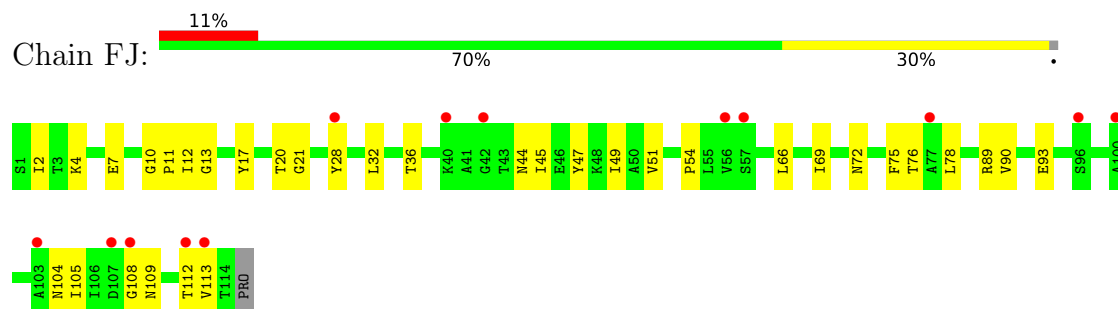
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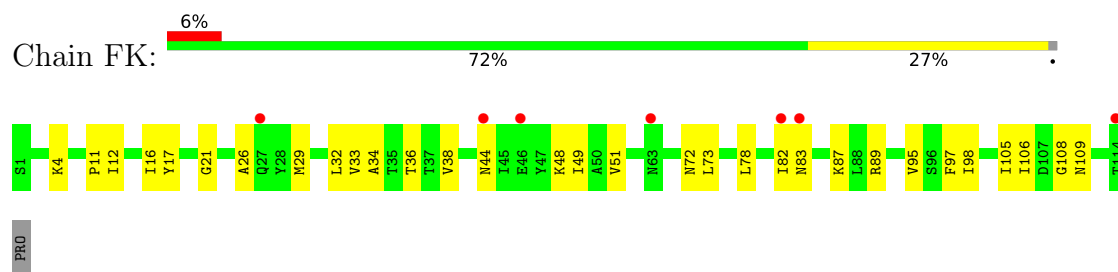
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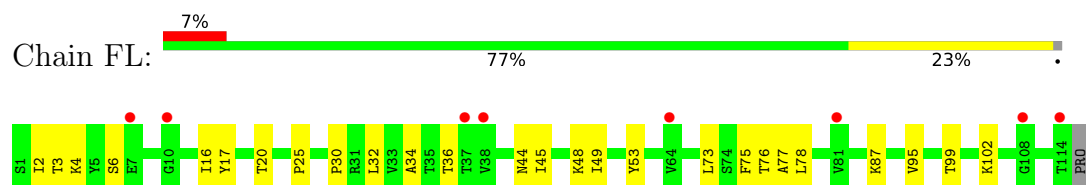
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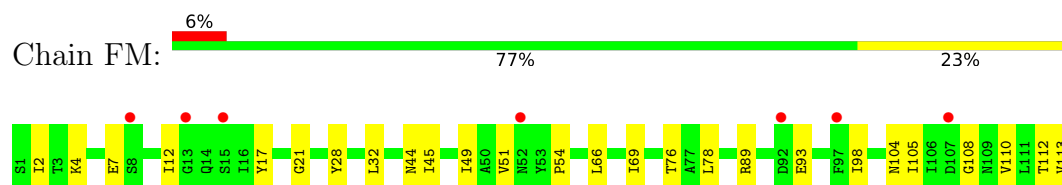
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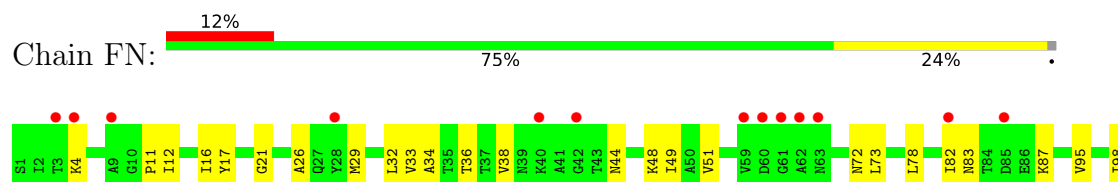
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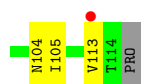


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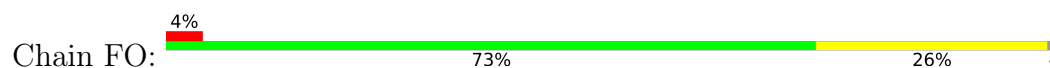


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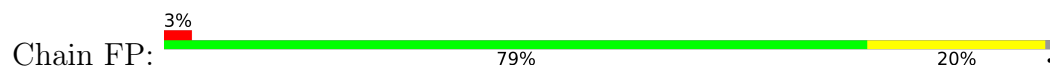




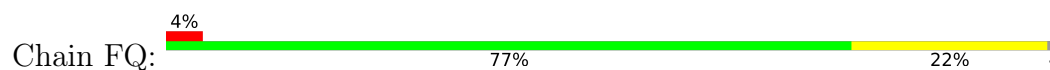
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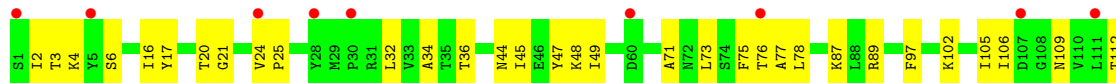
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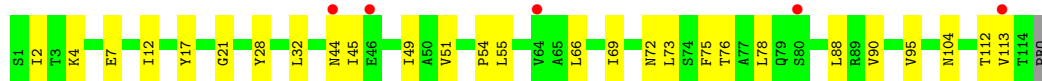
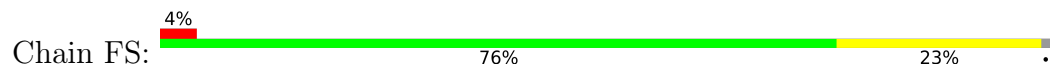
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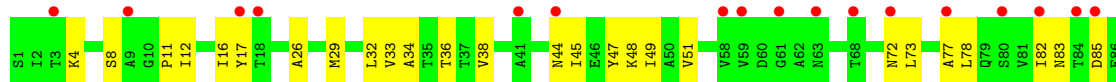
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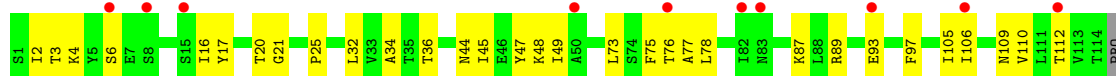
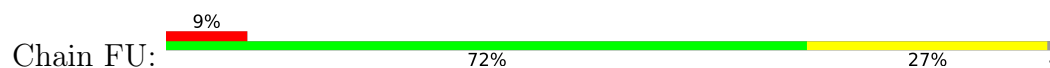


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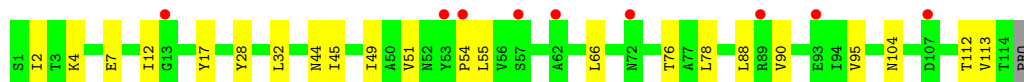
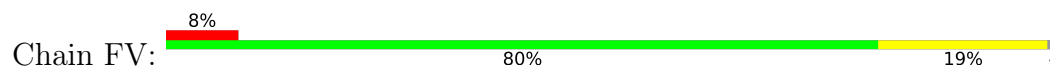




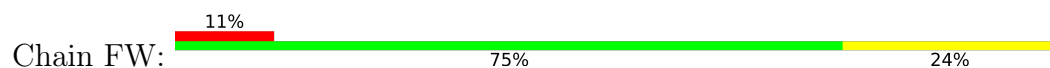
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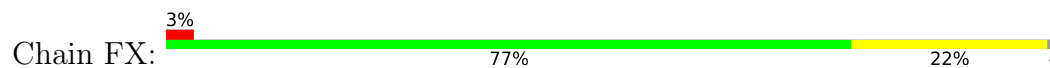
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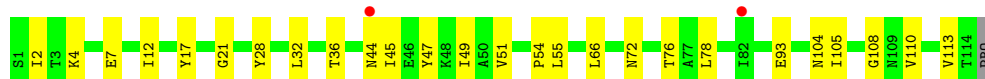
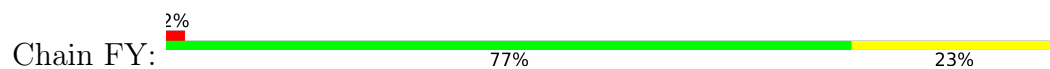
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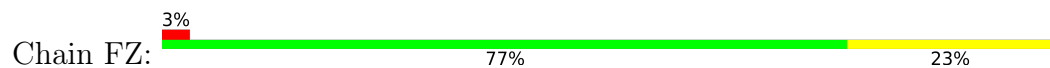
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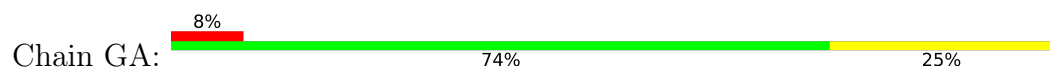


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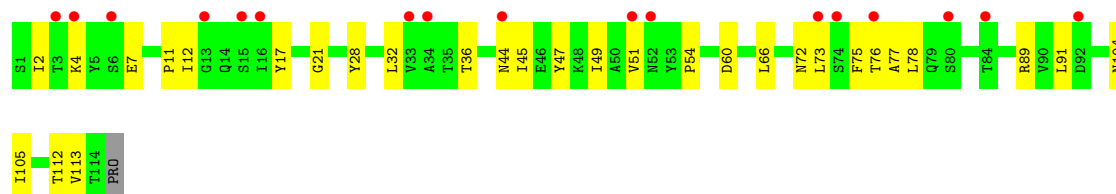
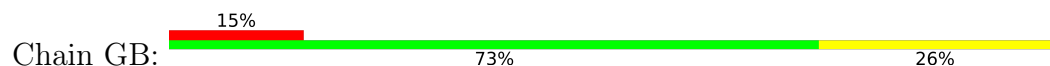




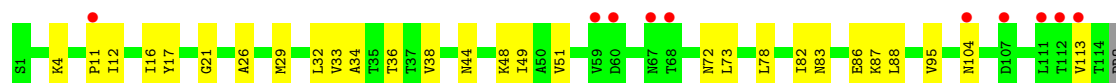
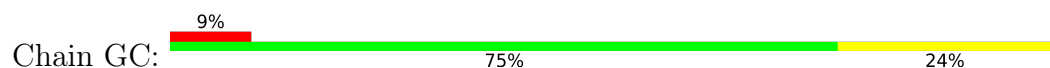
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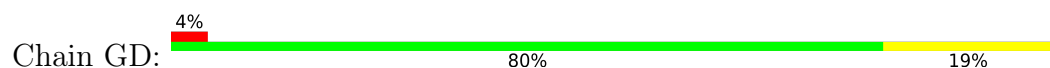
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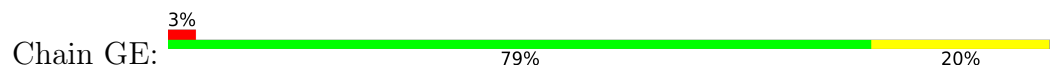
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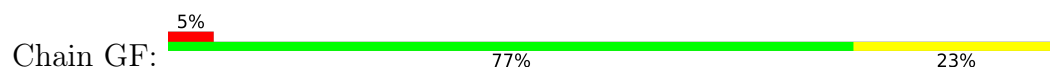
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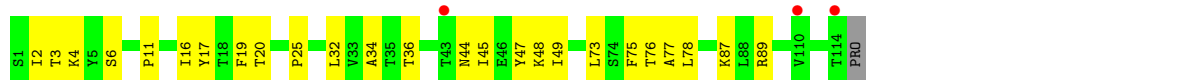
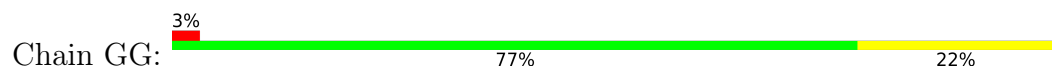
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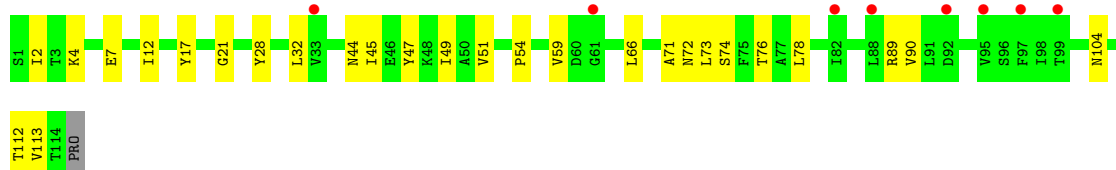
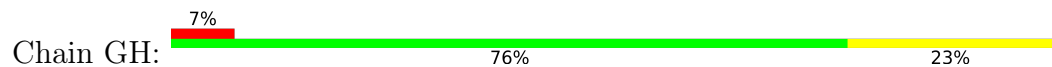
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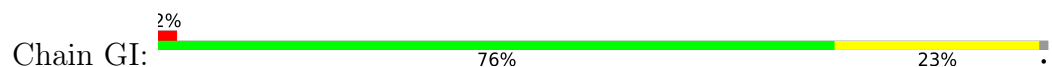
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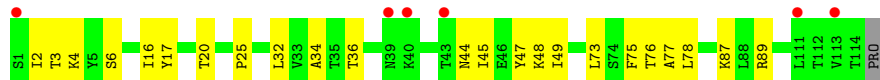
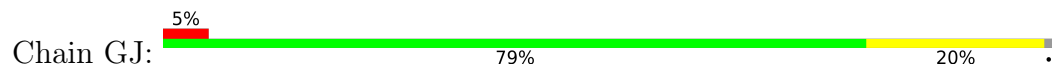
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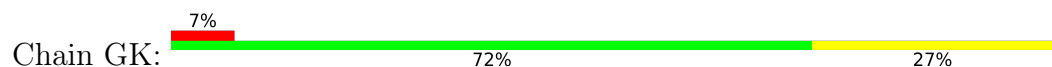
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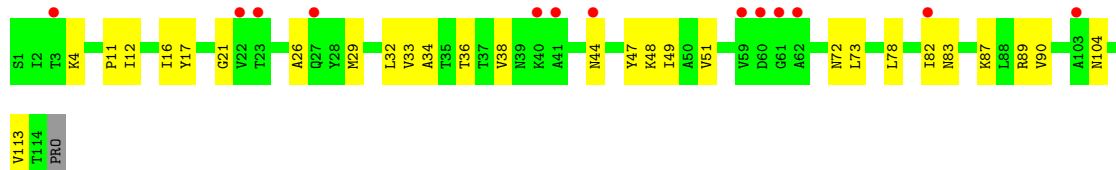
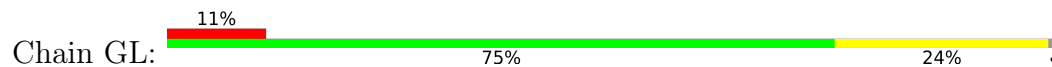
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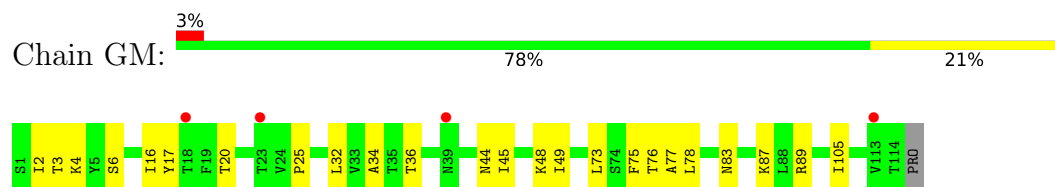
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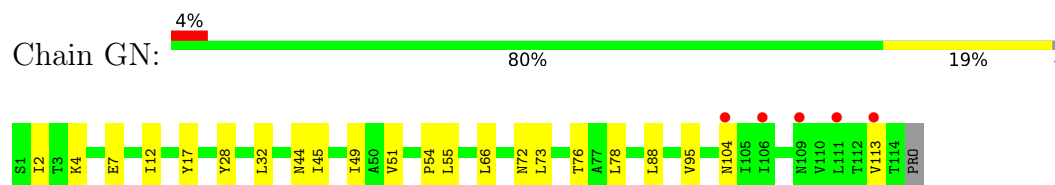
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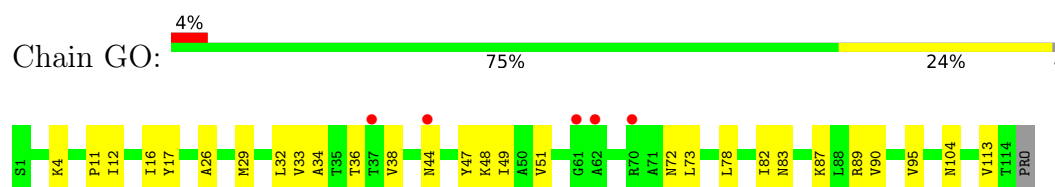
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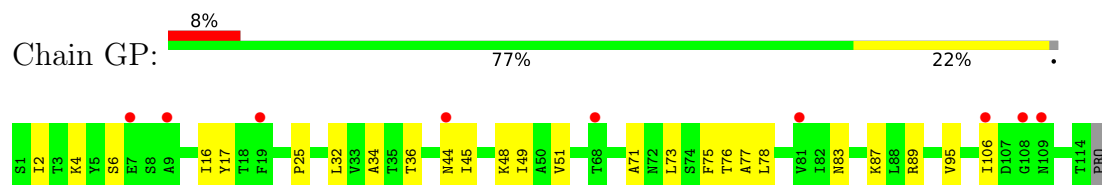
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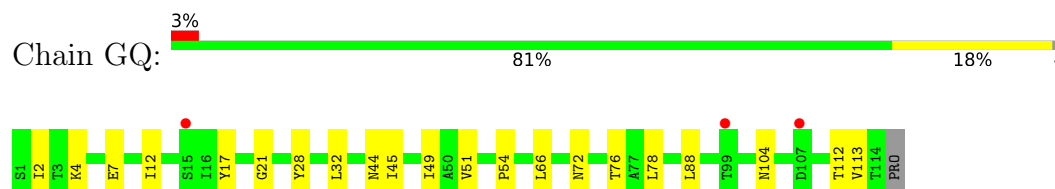
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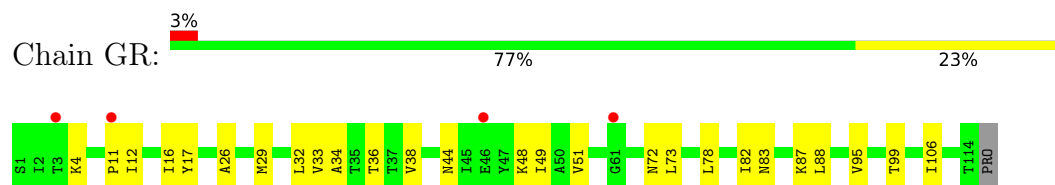
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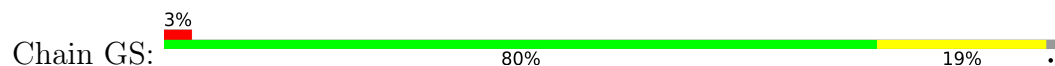
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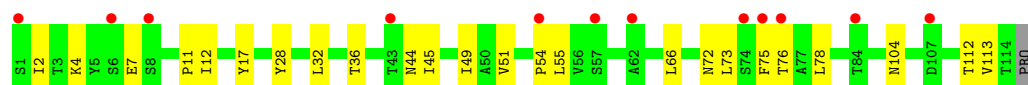
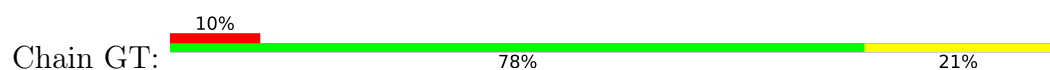


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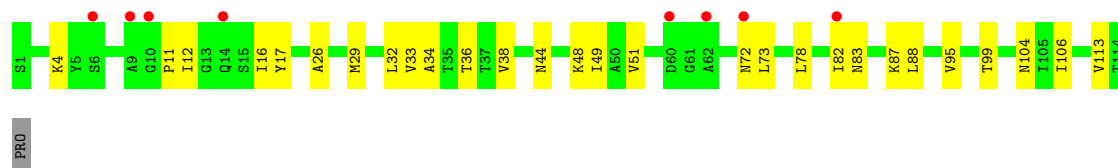
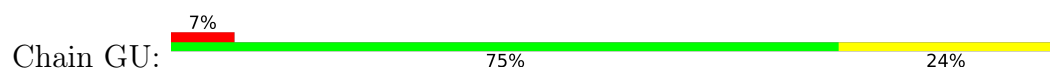




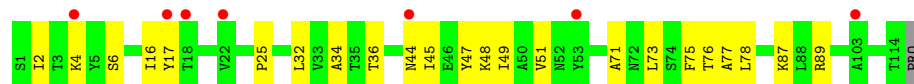
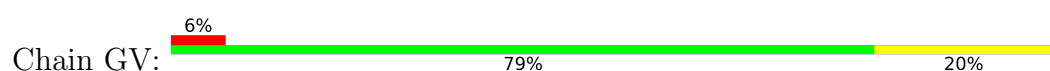
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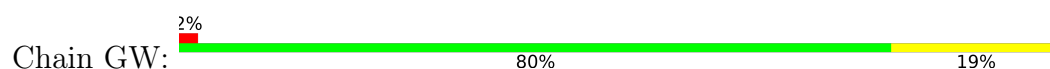
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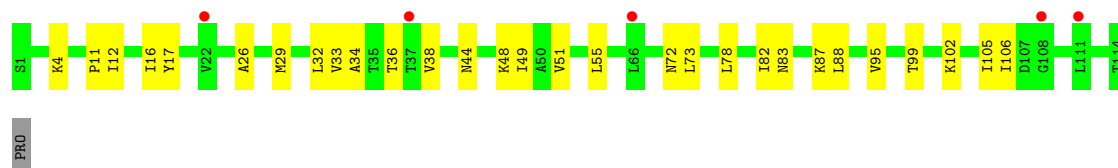
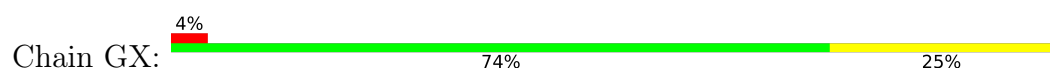
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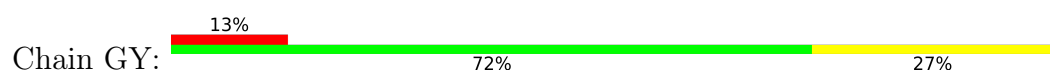
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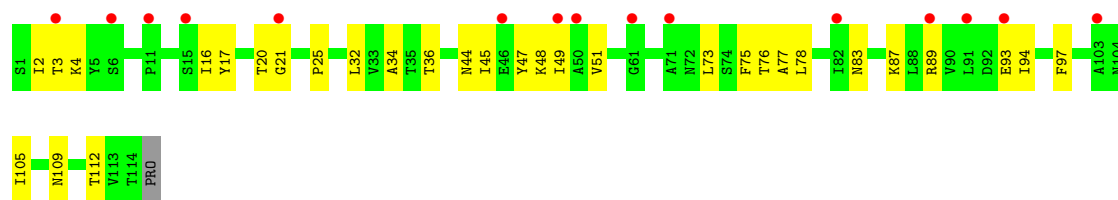


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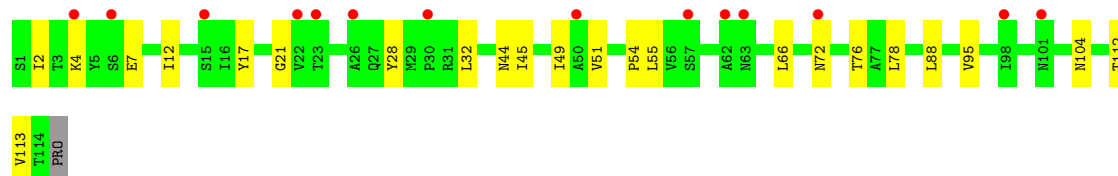
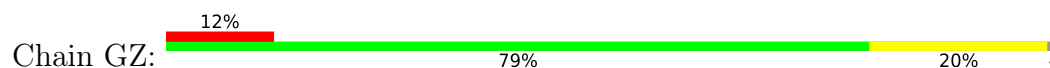


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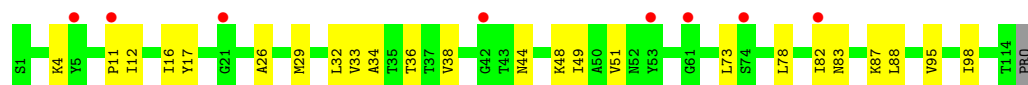
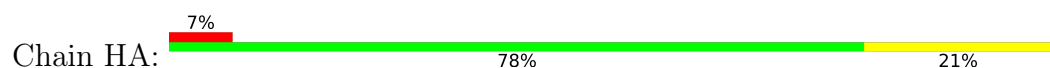




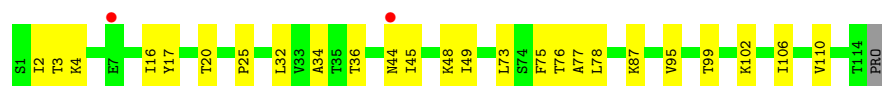
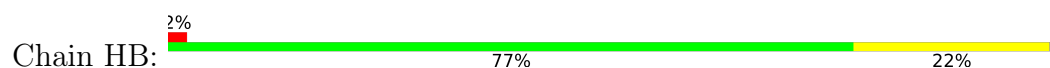
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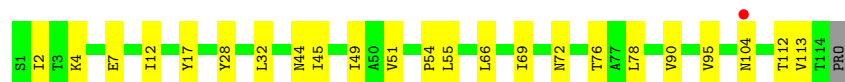
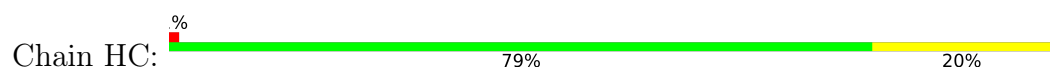
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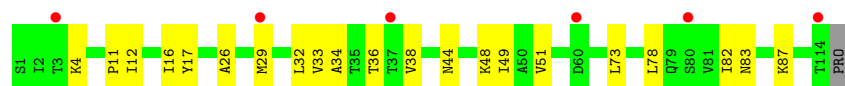
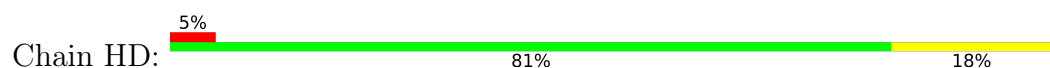
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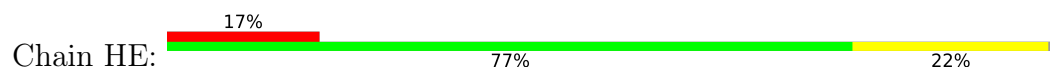
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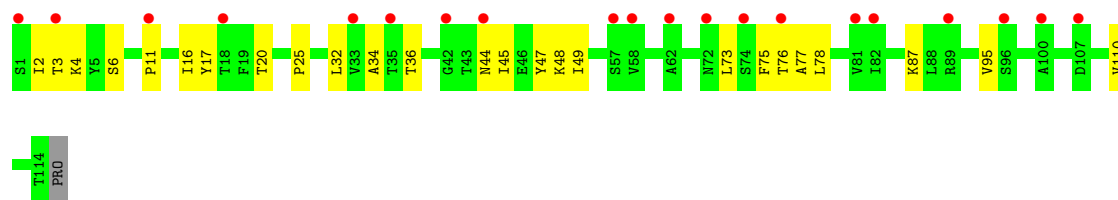


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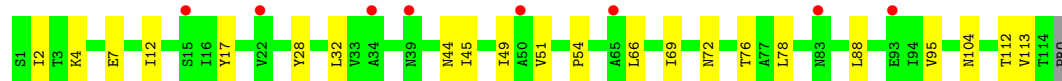
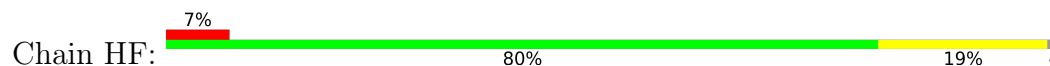


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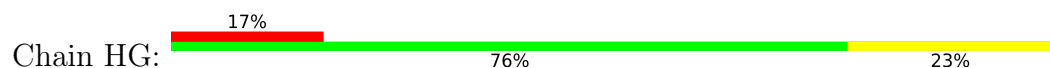




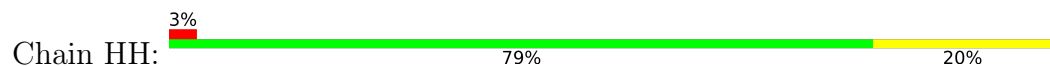
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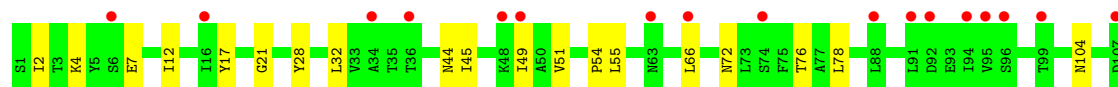
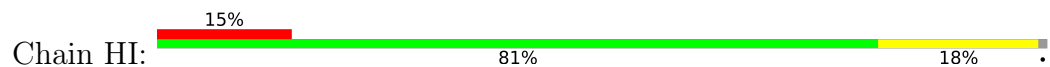
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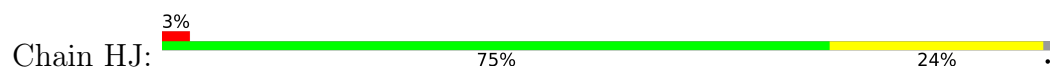
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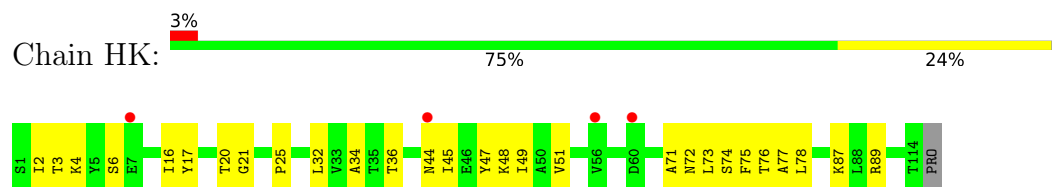
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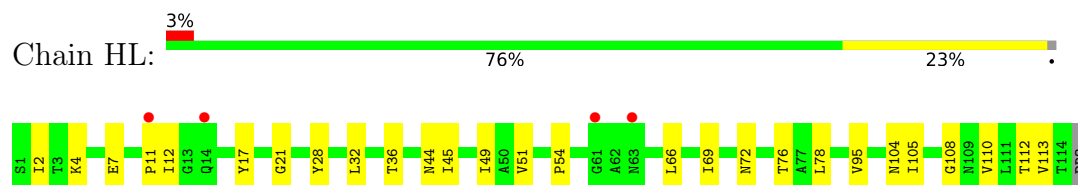
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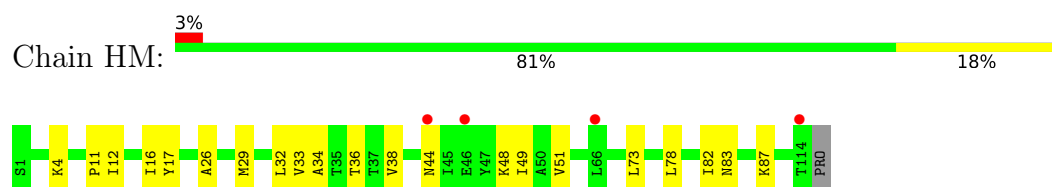
- Molecule 1: Coat protein



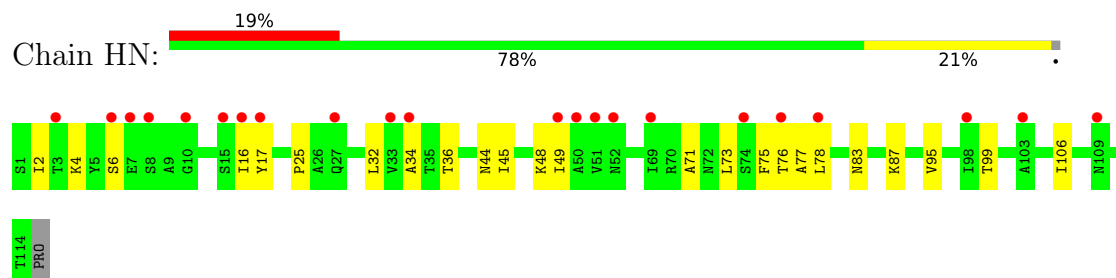
- Molecule 1: Coat protein



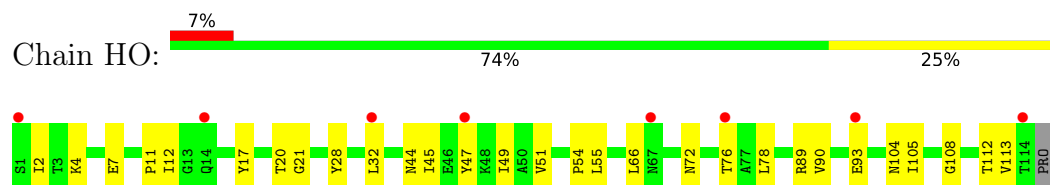
- Molecule 1: Coat protein



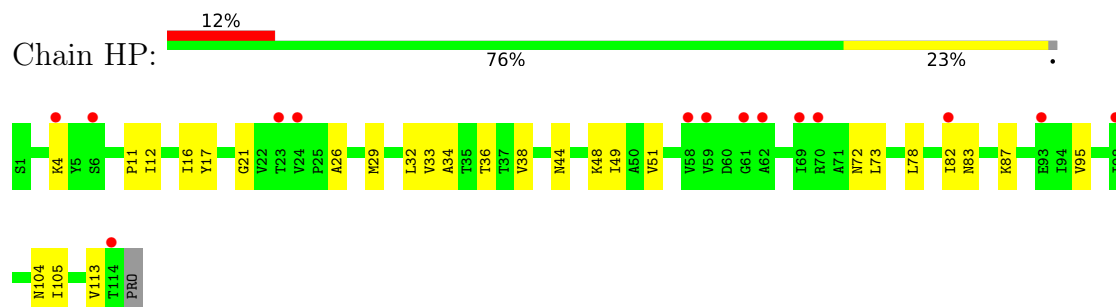
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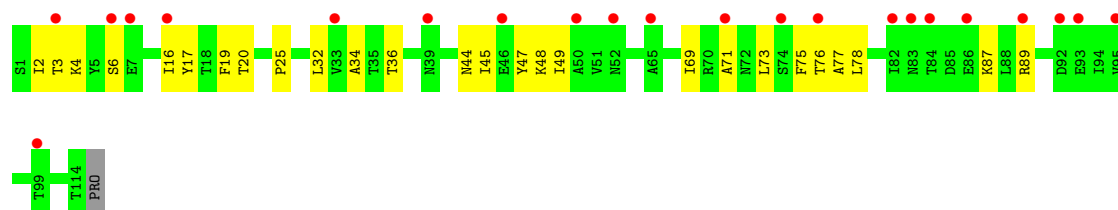


- Molecule 1: Coat protein



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Chain HQ: 19% 77% 23%



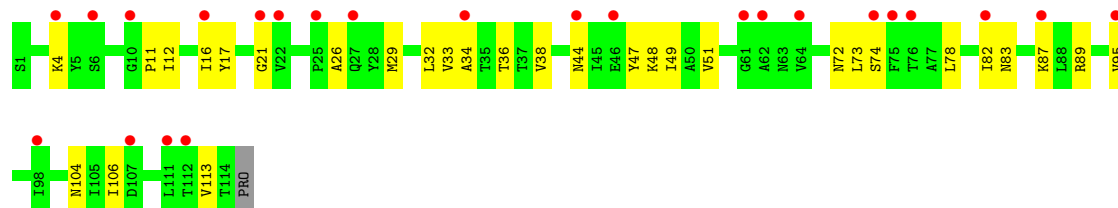
- Molecule 1: Coat protein

Chain HR: 16% 78% 21%



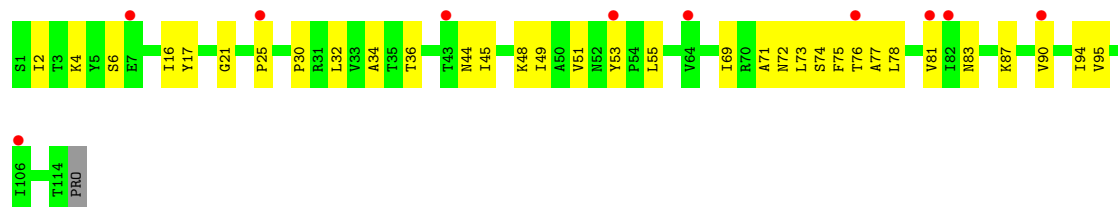
- Molecule 1: Coat protein

Chain HS: 21% 73% 26%



- Molecule 1: Coat protein

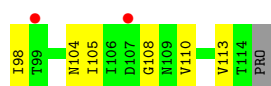
Chain HT: 9% 70% 29%



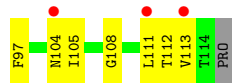
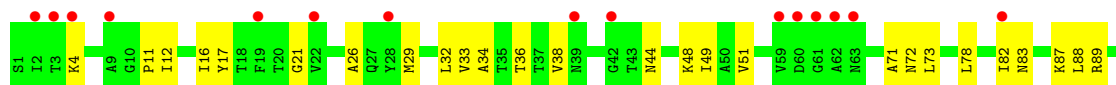
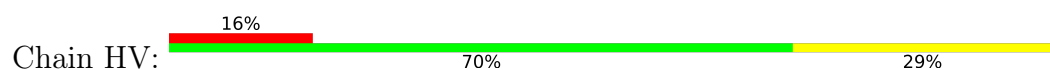
- Molecule 1: Coat protein

Chain HU: 25% 76% 23%

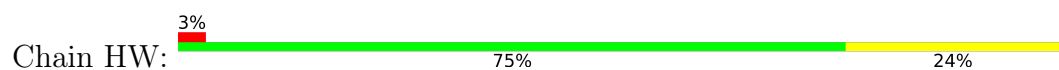




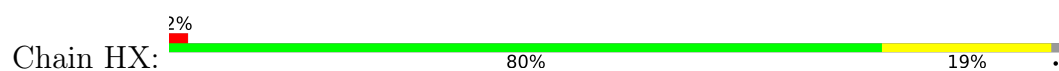
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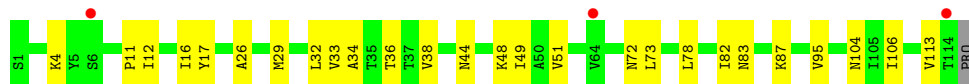
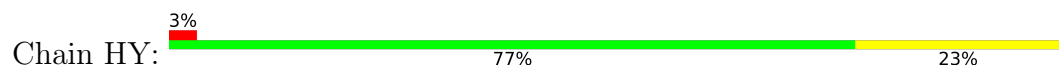
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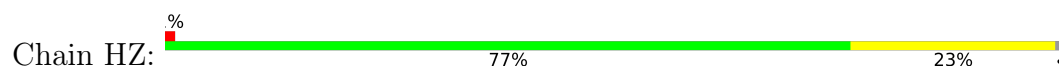
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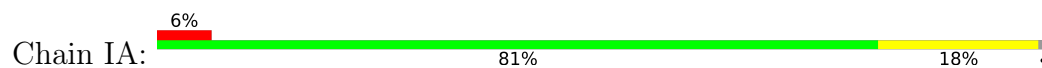
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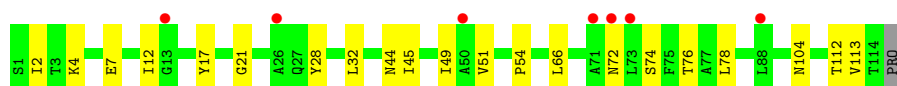


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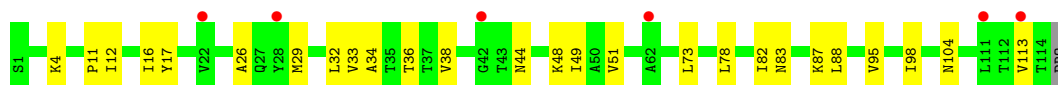
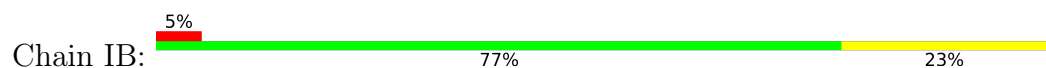


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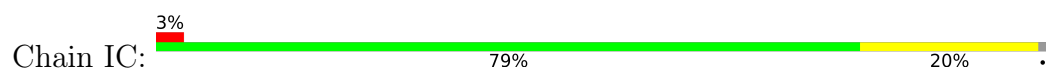




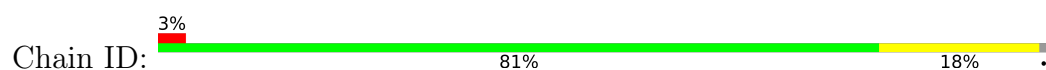
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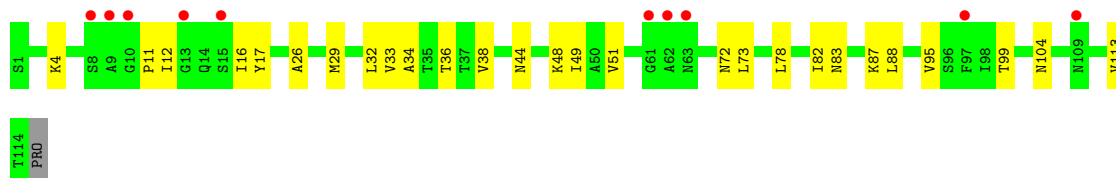
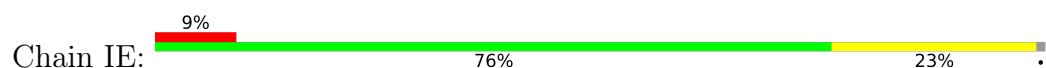
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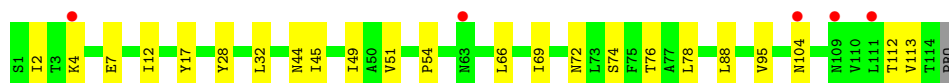
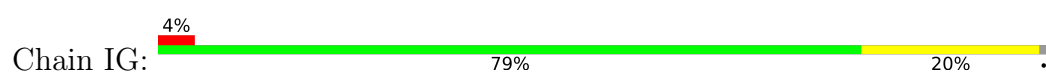
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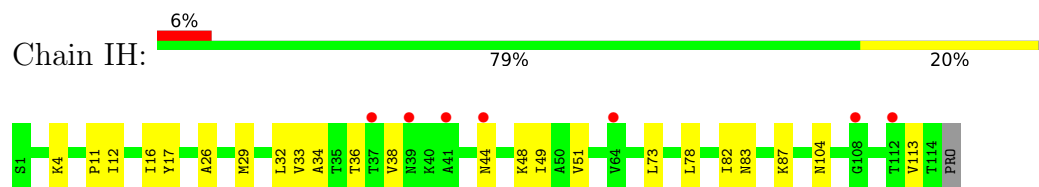
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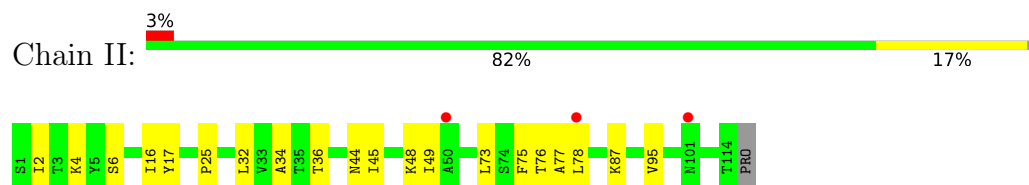
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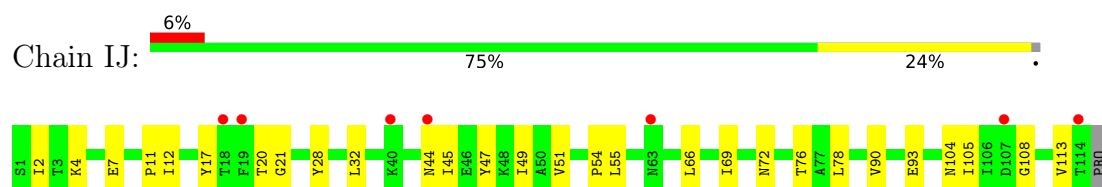
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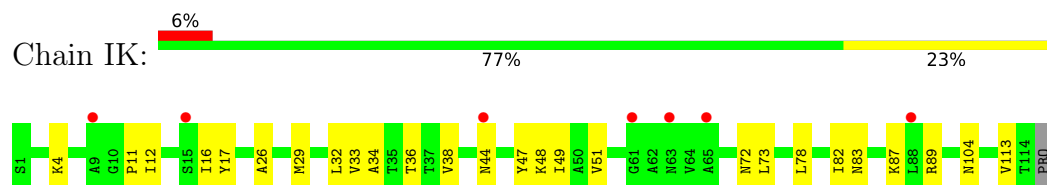
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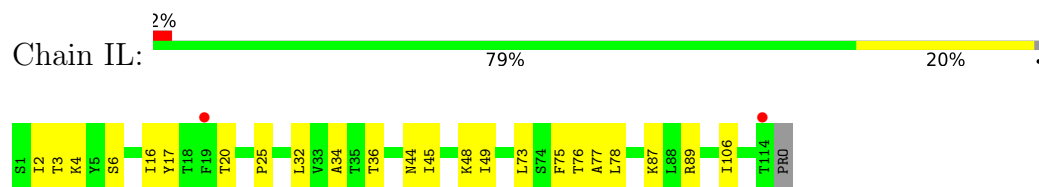
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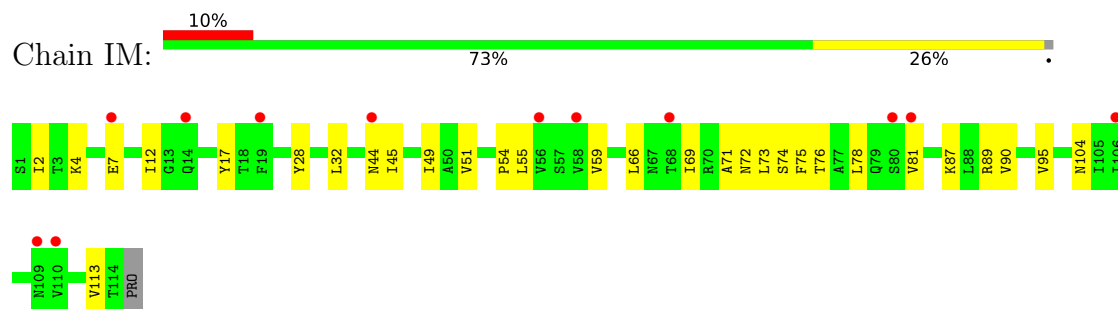
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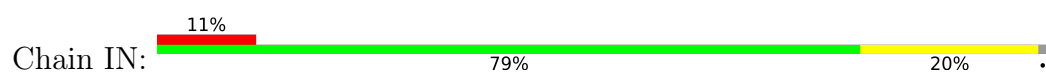
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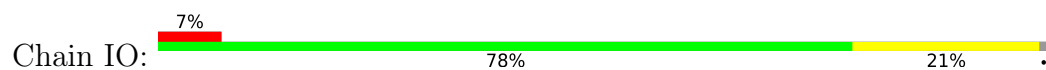
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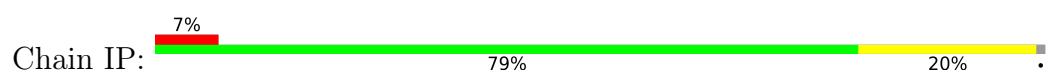
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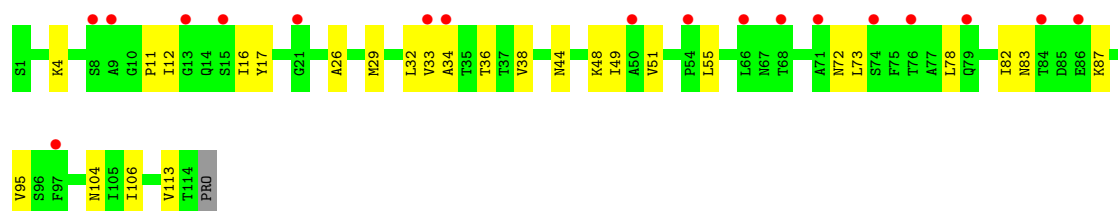
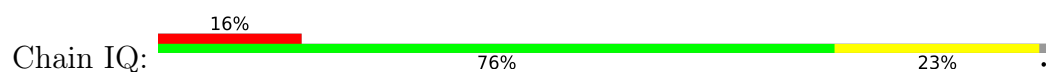
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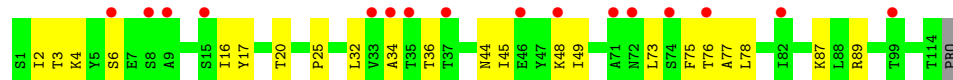
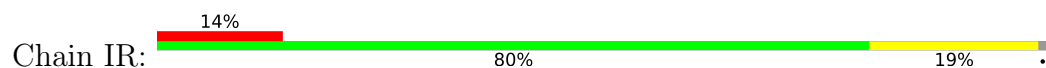
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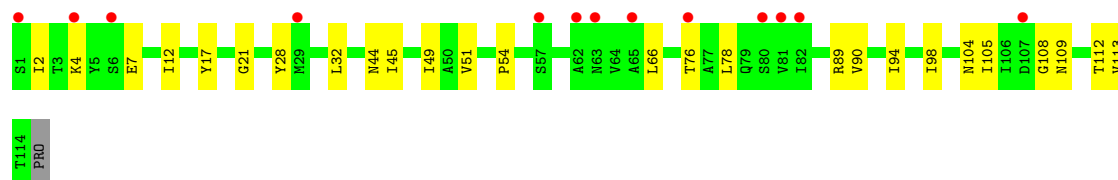
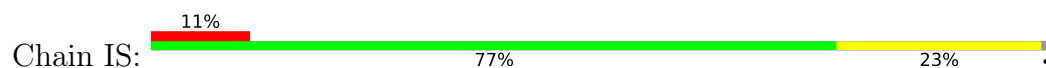
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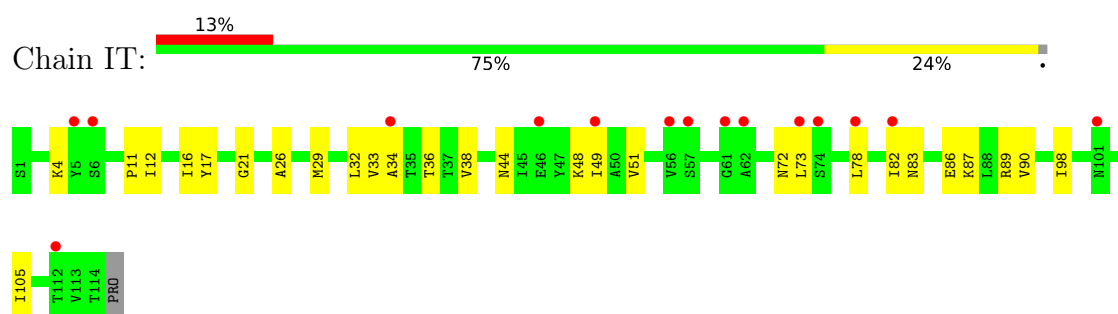
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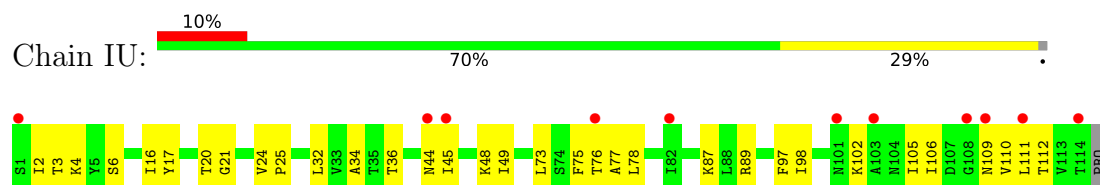
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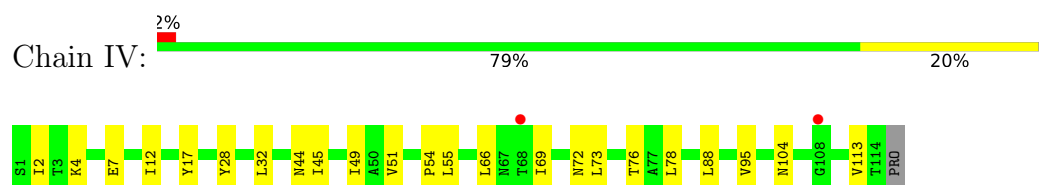
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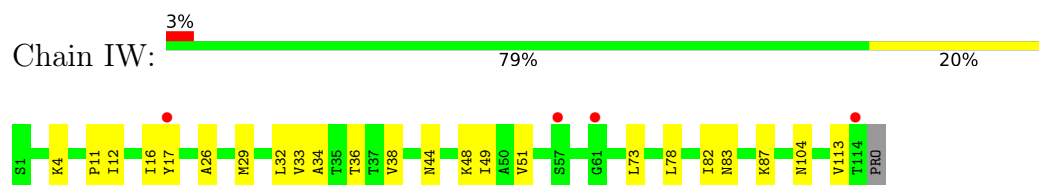
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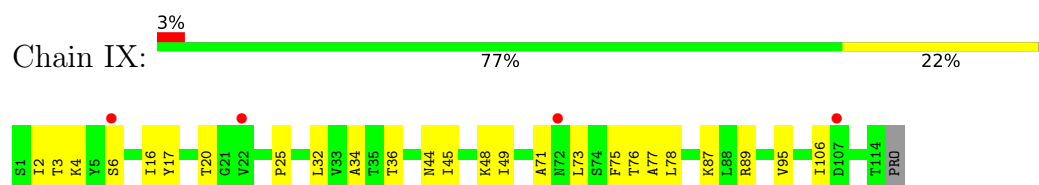
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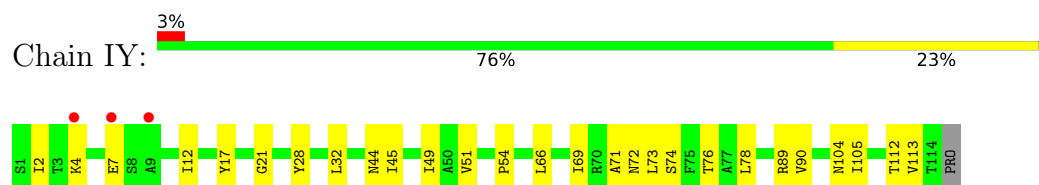
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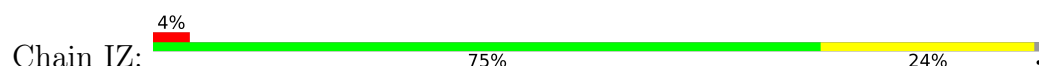
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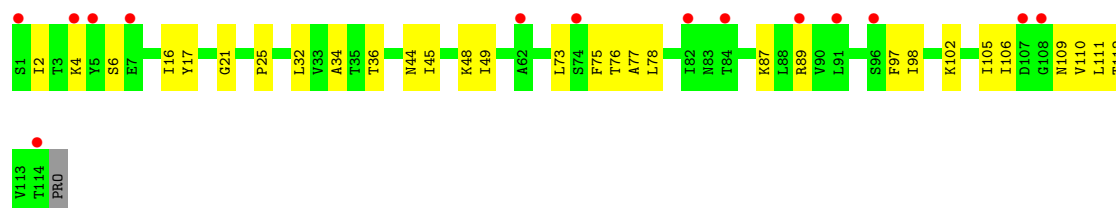
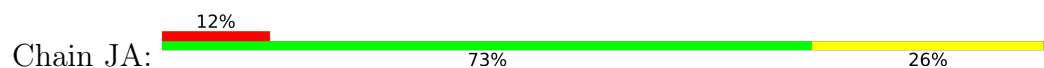


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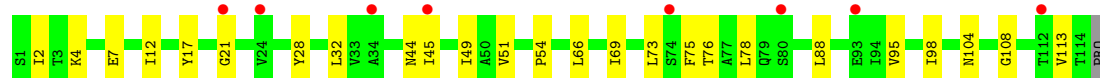
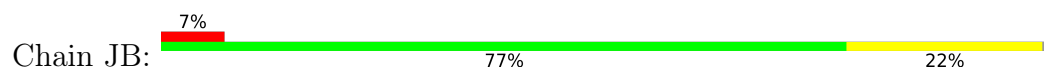




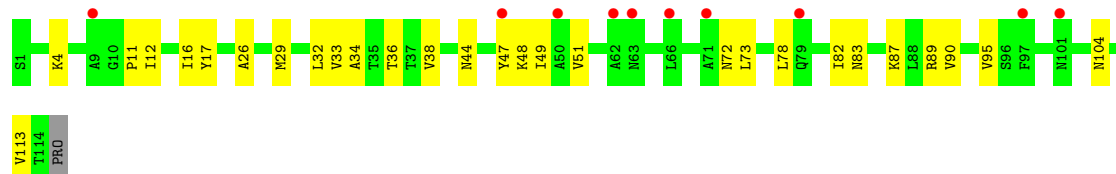
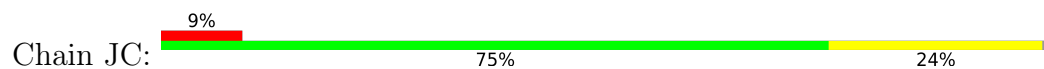
• Molecule 1: Coat protein



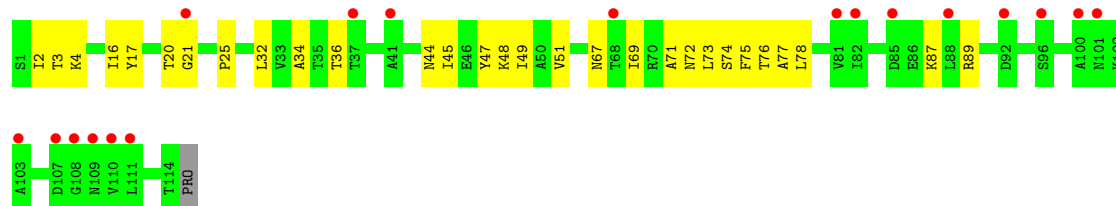
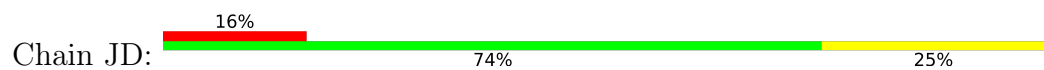
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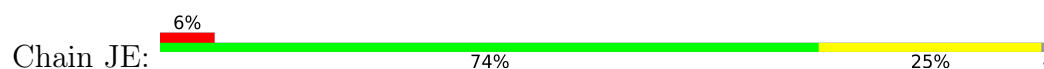
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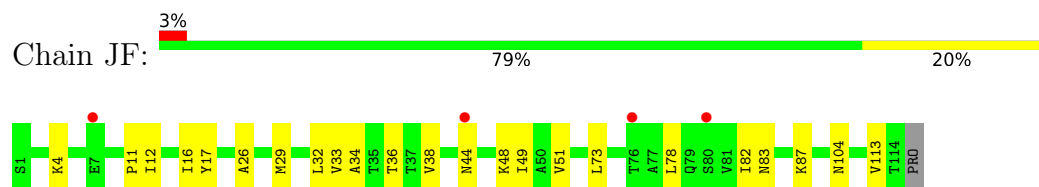
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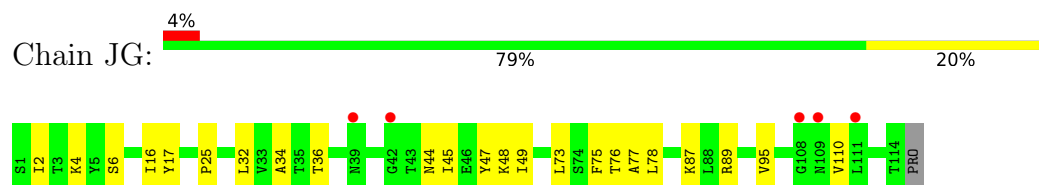
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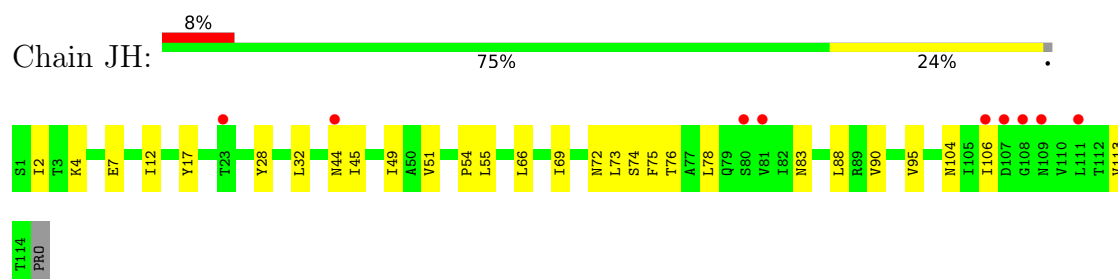
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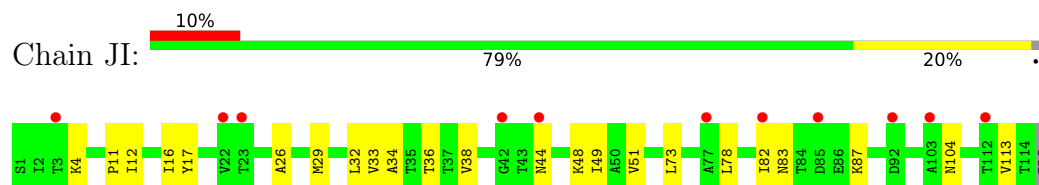
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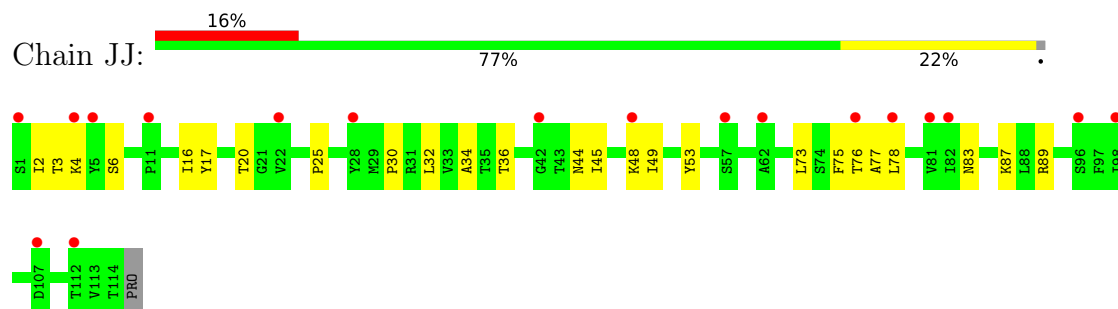
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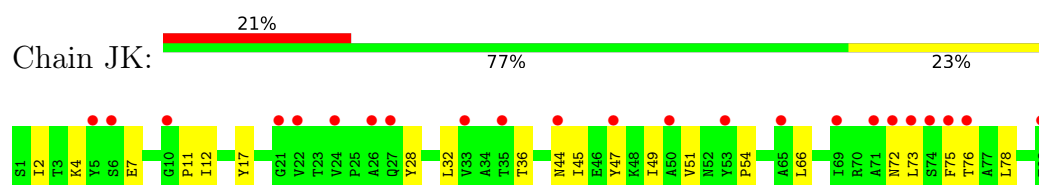
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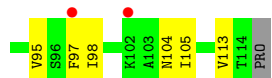
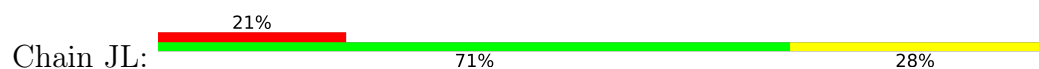


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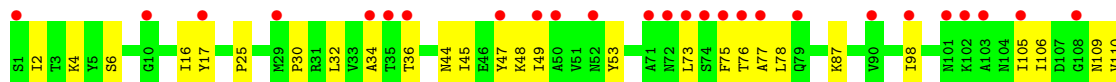
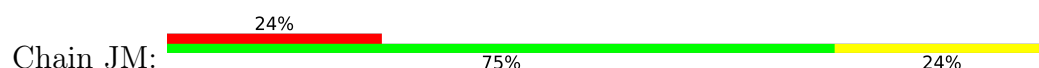




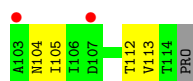
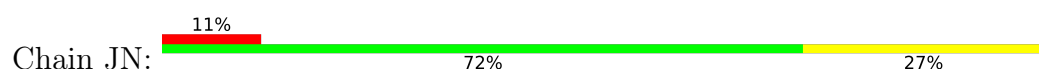
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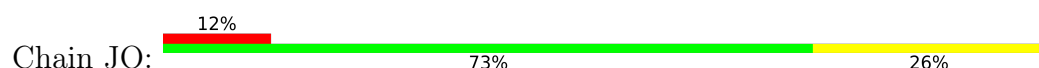
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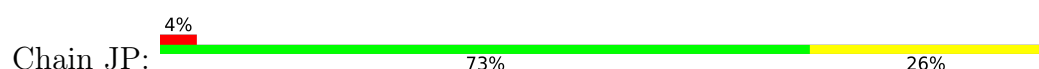
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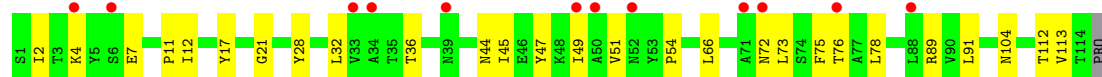
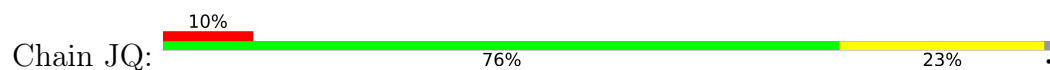


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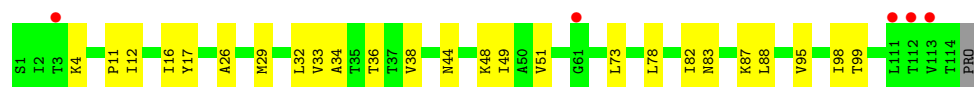
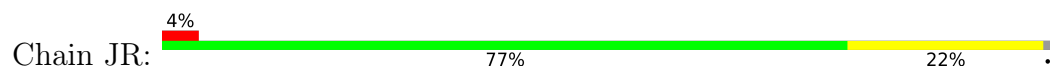




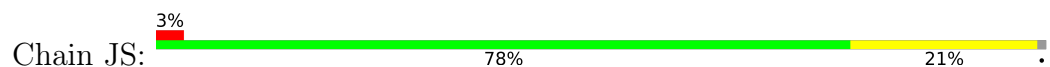
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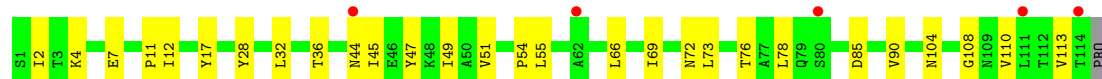
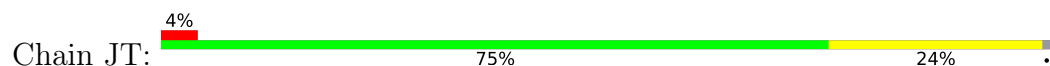
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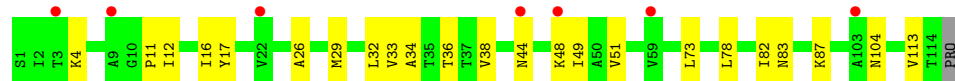
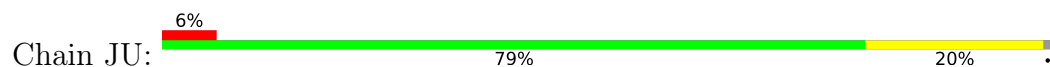
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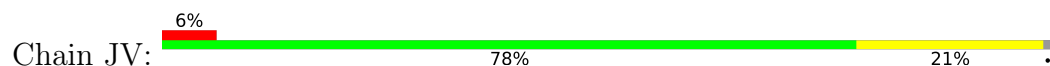
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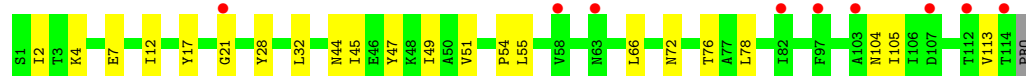
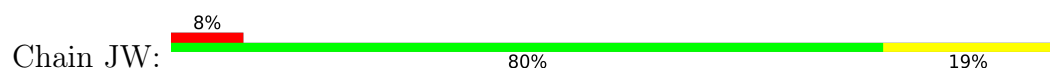
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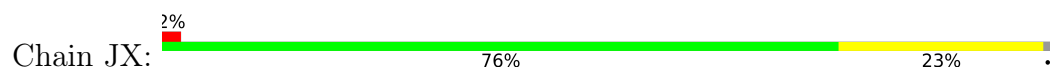
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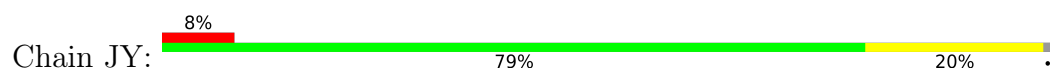
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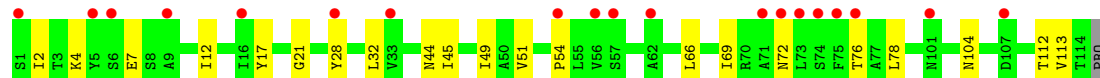
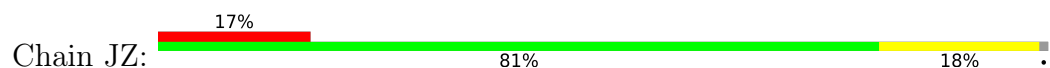
• Molecule 1: Coat protein



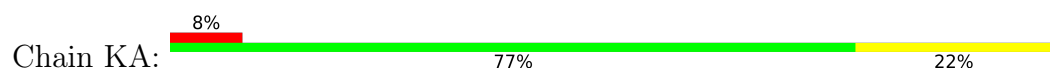
• Molecule 1: Coat protein



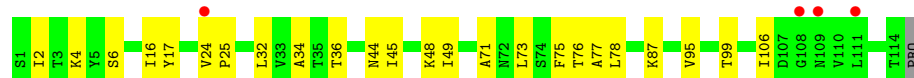
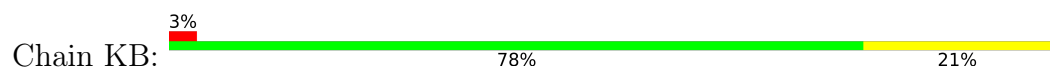
• Molecule 1: Coat protein



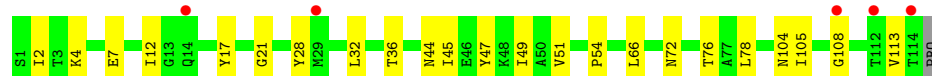
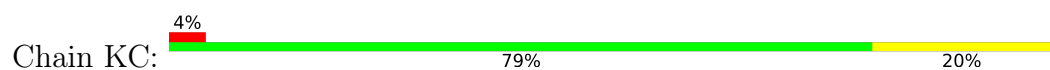
• Molecule 1: Coat protein



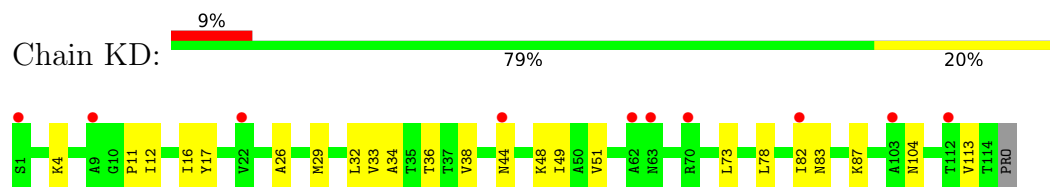
• Molecule 1: Coat protein



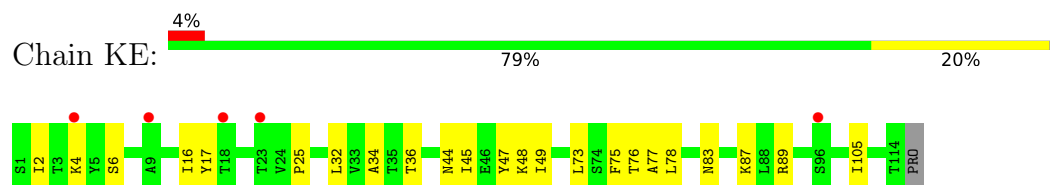
• Molecule 1: Coat protein



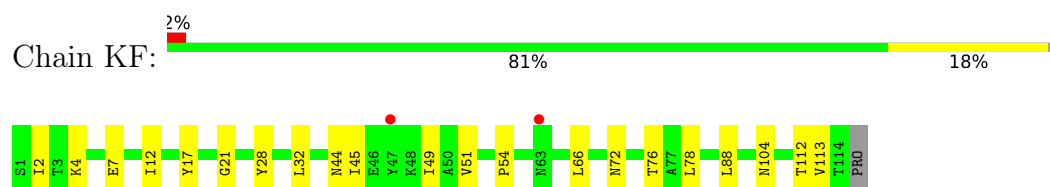
● Molecule 1: Coat protein



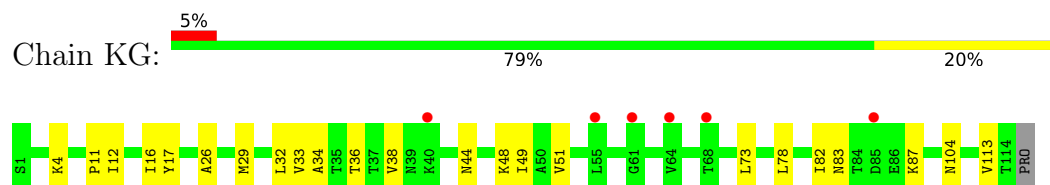
● Molecule 1: Coat protein



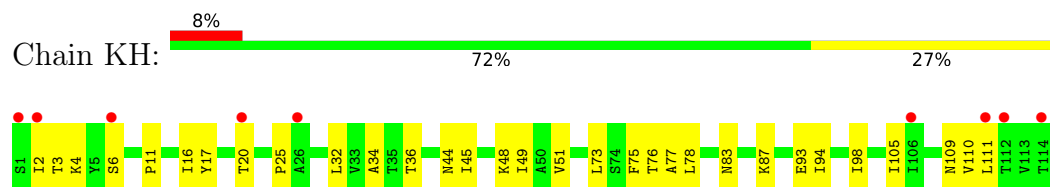
● Molecule 1: Coat protein



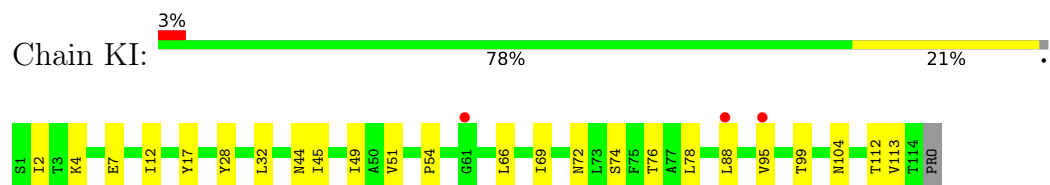
● Molecule 1: Coat protein



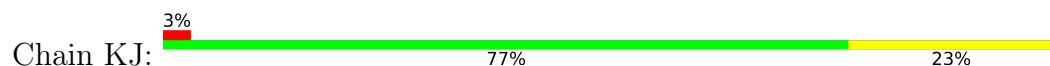
● Molecule 1: Coat protein

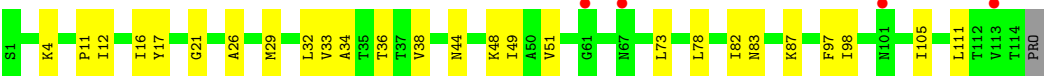


● Molecule 1: Coat protein



● Molecule 1: Coat protein





4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	432.29Å 307.87Å 679.45Å 90.00° 107.15° 90.00°	Depositor
Resolution (Å)	44.26 – 3.40 44.26 – 3.40	Depositor EDS
% Data completeness (in resolution range)	50.9 (44.26-3.40) 50.9 (44.26-3.40)	Depositor EDS
R_{merge}	0.20	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.35 (at 3.40Å)	Xtriage
Refinement program	PHENIX 1.14 _3260	Depositor
R, R_{free}	0.268 , 0.270 0.270 , 0.272	Depositor DCC
R_{free} test set	29857 reflections (2.57%)	wwPDB-VP
Wilson B-factor (Å ²)	61.0	Xtriage
Anisotropy	0.492	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 49.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.41$, $\langle L^2 \rangle = 0.23$	Xtriage
Estimated twinning fraction	0.054 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.85	EDS
Total number of atoms	231390	wwPDB-VP
Average B, all atoms (Å ²)	69.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.37% 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	AA	0.22	0/868	0.44	0/1188
1	AB	0.24	0/868	0.46	0/1188
1	AC	0.21	0/868	0.42	0/1188
1	AD	0.22	0/868	0.44	0/1188
1	AE	0.24	0/868	0.46	0/1188
1	AF	0.22	0/868	0.42	0/1188
1	AG	0.22	0/868	0.44	0/1188
1	AH	0.24	0/868	0.46	0/1188
1	AI	0.22	0/868	0.42	0/1188
1	AJ	0.22	0/868	0.44	0/1188
1	AK	0.24	0/868	0.46	0/1188
1	AL	0.22	0/868	0.42	0/1188
1	AM	0.22	0/868	0.44	0/1188
1	AN	0.24	0/868	0.46	0/1188
1	AO	0.22	0/868	0.42	0/1188
1	AP	0.22	0/868	0.44	0/1188
1	AQ	0.24	0/868	0.46	0/1188
1	AR	0.22	0/868	0.42	0/1188
1	AS	0.22	0/868	0.44	0/1188
1	AT	0.24	0/868	0.46	0/1188
1	AU	0.22	0/868	0.42	0/1188
1	AV	0.22	0/868	0.44	0/1188
1	AW	0.24	0/868	0.46	0/1188
1	AX	0.22	0/868	0.42	0/1188
1	AY	0.22	0/868	0.44	0/1188
1	AZ	0.24	0/868	0.46	0/1188
1	BA	0.22	0/868	0.42	0/1188
1	BB	0.22	0/868	0.44	0/1188
1	BC	0.24	0/868	0.46	0/1188
1	BD	0.22	0/868	0.42	0/1188
1	BE	0.22	0/868	0.44	0/1188
1	BF	0.24	0/868	0.46	0/1188
1	BG	0.22	0/868	0.42	0/1188
1	BH	0.22	0/868	0.44	0/1188

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	BI	0.24	0/868	0.46	0/1188
1	BJ	0.22	0/868	0.42	0/1188
1	BK	0.22	0/868	0.44	0/1188
1	BL	0.24	0/868	0.46	0/1188
1	BM	0.22	0/868	0.42	0/1188
1	BN	0.22	0/868	0.44	0/1188
1	BO	0.24	0/868	0.46	0/1188
1	BP	0.21	0/868	0.42	0/1188
1	BQ	0.22	0/868	0.44	0/1188
1	BR	0.24	0/868	0.46	0/1188
1	BS	0.22	0/868	0.42	0/1188
1	BT	0.22	0/868	0.44	0/1188
1	BU	0.24	0/868	0.46	0/1188
1	BV	0.22	0/868	0.42	0/1188
1	BW	0.22	0/868	0.44	0/1188
1	BX	0.24	0/868	0.46	0/1188
1	BY	0.21	0/868	0.42	0/1188
1	BZ	0.22	0/868	0.44	0/1188
1	CA	0.24	0/868	0.46	0/1188
1	CB	0.22	0/868	0.42	0/1188
1	CC	0.22	0/868	0.44	0/1188
1	CD	0.24	0/868	0.46	0/1188
1	CE	0.22	0/868	0.42	0/1188
1	CF	0.22	0/868	0.44	0/1188
1	CG	0.24	0/868	0.46	0/1188
1	CH	0.21	0/868	0.42	0/1188
1	CI	0.22	0/868	0.44	0/1188
1	CJ	0.24	0/868	0.46	0/1188
1	CK	0.22	0/868	0.42	0/1188
1	CL	0.22	0/868	0.44	0/1188
1	CM	0.24	0/868	0.46	0/1188
1	CN	0.22	0/868	0.42	0/1188
1	CO	0.22	0/868	0.44	0/1188
1	CP	0.24	0/868	0.46	0/1188
1	CQ	0.22	0/868	0.42	0/1188
1	CR	0.22	0/868	0.44	0/1188
1	CS	0.24	0/868	0.46	0/1188
1	CT	0.22	0/868	0.42	0/1188
1	CU	0.22	0/868	0.44	0/1188
1	CV	0.24	0/868	0.46	0/1188
1	CW	0.22	0/868	0.42	0/1188
1	CX	0.22	0/868	0.44	0/1188
1	CY	0.24	0/868	0.46	0/1188

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	CZ	0.22	0/868	0.42	0/1188
1	DA	0.22	0/868	0.44	0/1188
1	DB	0.24	0/868	0.46	0/1188
1	DC	0.22	0/868	0.42	0/1188
1	DD	0.22	0/868	0.44	0/1188
1	DE	0.24	0/868	0.46	0/1188
1	DF	0.22	0/868	0.42	0/1188
1	DG	0.22	0/868	0.44	0/1188
1	DH	0.24	0/868	0.46	0/1188
1	DI	0.22	0/868	0.42	0/1188
1	DJ	0.22	0/868	0.44	0/1188
1	DK	0.24	0/868	0.46	0/1188
1	DL	0.22	0/868	0.42	0/1188
1	DM	0.22	0/868	0.44	0/1188
1	DN	0.24	0/868	0.46	0/1188
1	DO	0.22	0/868	0.42	0/1188
1	DP	0.22	0/868	0.44	0/1188
1	DQ	0.24	0/868	0.46	0/1188
1	DR	0.22	0/868	0.42	0/1188
1	DS	0.22	0/868	0.44	0/1188
1	DT	0.24	0/868	0.46	0/1188
1	DU	0.22	0/868	0.42	0/1188
1	DV	0.22	0/868	0.44	0/1188
1	DW	0.24	0/868	0.46	0/1188
1	DX	0.22	0/868	0.42	0/1188
1	DY	0.22	0/868	0.44	0/1188
1	DZ	0.24	0/868	0.46	0/1188
1	EA	0.22	0/868	0.42	0/1188
1	EB	0.22	0/868	0.44	0/1188
1	EC	0.24	0/868	0.46	0/1188
1	ED	0.22	0/868	0.42	0/1188
1	EE	0.22	0/868	0.44	0/1188
1	EF	0.24	0/868	0.46	0/1188
1	EG	0.22	0/868	0.42	0/1188
1	EH	0.22	0/868	0.44	0/1188
1	EI	0.24	0/868	0.46	0/1188
1	EJ	0.21	0/868	0.42	0/1188
1	EK	0.22	0/868	0.44	0/1188
1	EL	0.24	0/868	0.46	0/1188
1	EM	0.22	0/868	0.42	0/1188
1	EN	0.22	0/868	0.44	0/1188
1	EO	0.24	0/868	0.46	0/1188
1	EP	0.22	0/868	0.42	0/1188

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	EQ	0.22	0/868	0.44	0/1188
1	ER	0.24	0/868	0.46	0/1188
1	ES	0.22	0/868	0.42	0/1188
1	ET	0.22	0/868	0.44	0/1188
1	EU	0.24	0/868	0.46	0/1188
1	EV	0.21	0/868	0.42	0/1188
1	EW	0.22	0/868	0.44	0/1188
1	EX	0.24	0/868	0.46	0/1188
1	EY	0.22	0/868	0.42	0/1188
1	EZ	0.22	0/868	0.44	0/1188
1	FA	0.24	0/868	0.46	0/1188
1	FB	0.22	0/868	0.42	0/1188
1	FC	0.22	0/868	0.44	0/1188
1	FD	0.24	0/868	0.46	0/1188
1	FE	0.22	0/868	0.42	0/1188
1	FF	0.22	0/868	0.44	0/1188
1	FG	0.24	0/868	0.46	0/1188
1	FH	0.22	0/868	0.42	0/1188
1	FI	0.22	0/868	0.44	0/1188
1	FJ	0.24	0/868	0.46	0/1188
1	FK	0.22	0/868	0.42	0/1188
1	FL	0.22	0/868	0.44	0/1188
1	FM	0.24	0/868	0.46	0/1188
1	FN	0.22	0/868	0.42	0/1188
1	FO	0.22	0/868	0.44	0/1188
1	FP	0.24	0/868	0.46	0/1188
1	FQ	0.22	0/868	0.42	0/1188
1	FR	0.22	0/868	0.44	0/1188
1	FS	0.24	0/868	0.46	0/1188
1	FT	0.22	0/868	0.42	0/1188
1	FU	0.22	0/868	0.44	0/1188
1	FV	0.24	0/868	0.46	0/1188
1	FW	0.22	0/868	0.42	0/1188
1	FX	0.22	0/868	0.44	0/1188
1	FY	0.24	0/868	0.46	0/1188
1	FZ	0.22	0/868	0.42	0/1188
1	GA	0.22	0/868	0.44	0/1188
1	GB	0.24	0/868	0.46	0/1188
1	GC	0.22	0/868	0.42	0/1188
1	GD	0.22	0/868	0.44	0/1188
1	GE	0.24	0/868	0.46	0/1188
1	GF	0.22	0/868	0.42	0/1188
1	GG	0.22	0/868	0.44	0/1188

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	GH	0.24	0/868	0.46	0/1188
1	GI	0.22	0/868	0.42	0/1188
1	GJ	0.22	0/868	0.44	0/1188
1	GK	0.24	0/868	0.46	0/1188
1	GL	0.21	0/868	0.42	0/1188
1	GM	0.22	0/868	0.44	0/1188
1	GN	0.24	0/868	0.46	0/1188
1	GO	0.22	0/868	0.42	0/1188
1	GP	0.22	0/868	0.44	0/1188
1	GQ	0.24	0/868	0.46	0/1188
1	GR	0.22	0/868	0.42	0/1188
1	GS	0.22	0/868	0.44	0/1188
1	GT	0.24	0/868	0.46	0/1188
1	GU	0.22	0/868	0.42	0/1188
1	GV	0.22	0/868	0.44	0/1188
1	GW	0.24	0/868	0.46	0/1188
1	GX	0.22	0/868	0.42	0/1188
1	GY	0.22	0/868	0.44	0/1188
1	GZ	0.24	0/868	0.46	0/1188
1	HA	0.22	0/868	0.42	0/1188
1	HB	0.22	0/868	0.44	0/1188
1	HC	0.24	0/868	0.46	0/1188
1	HD	0.22	0/868	0.42	0/1188
1	HE	0.22	0/868	0.44	0/1188
1	HF	0.24	0/868	0.46	0/1188
1	HG	0.22	0/868	0.42	0/1188
1	HH	0.22	0/868	0.44	0/1188
1	HI	0.24	0/868	0.46	0/1188
1	HJ	0.22	0/868	0.42	0/1188
1	HK	0.22	0/868	0.44	0/1188
1	HL	0.24	0/868	0.46	0/1188
1	HM	0.22	0/868	0.42	0/1188
1	HN	0.22	0/868	0.44	0/1188
1	HO	0.24	0/868	0.46	0/1188
1	HP	0.22	0/868	0.42	0/1188
1	HQ	0.22	0/868	0.44	0/1188
1	HR	0.24	0/868	0.46	0/1188
1	HS	0.21	0/868	0.42	0/1188
1	HT	0.22	0/868	0.44	0/1188
1	HU	0.24	0/868	0.46	0/1188
1	HV	0.22	0/868	0.42	0/1188
1	HW	0.22	0/868	0.44	0/1188
1	HX	0.24	0/868	0.46	0/1188

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	HY	0.22	0/868	0.42	0/1188
1	HZ	0.22	0/868	0.44	0/1188
1	IA	0.24	0/868	0.46	0/1188
1	IB	0.22	0/868	0.42	0/1188
1	IC	0.22	0/868	0.44	0/1188
1	ID	0.24	0/868	0.46	0/1188
1	IE	0.22	0/868	0.42	0/1188
1	IF	0.22	0/868	0.44	0/1188
1	IG	0.24	0/868	0.46	0/1188
1	IH	0.22	0/868	0.42	0/1188
1	II	0.22	0/868	0.44	0/1188
1	IJ	0.24	0/868	0.46	0/1188
1	IK	0.22	0/868	0.42	0/1188
1	IL	0.22	0/868	0.44	0/1188
1	IM	0.24	0/868	0.46	0/1188
1	IN	0.22	0/868	0.42	0/1188
1	IO	0.22	0/868	0.44	0/1188
1	IP	0.24	0/868	0.46	0/1188
1	IQ	0.22	0/868	0.42	0/1188
1	IR	0.22	0/868	0.44	0/1188
1	IS	0.24	0/868	0.46	0/1188
1	IT	0.22	0/868	0.42	0/1188
1	IU	0.22	0/868	0.44	0/1188
1	IV	0.24	0/868	0.46	0/1188
1	IW	0.22	0/868	0.42	0/1188
1	IX	0.22	0/868	0.44	0/1188
1	IY	0.24	0/868	0.46	0/1188
1	IZ	0.22	0/868	0.42	0/1188
1	JA	0.22	0/868	0.44	0/1188
1	JB	0.24	0/868	0.46	0/1188
1	JC	0.22	0/868	0.42	0/1188
1	JD	0.22	0/868	0.44	0/1188
1	JE	0.24	0/868	0.46	0/1188
1	JF	0.22	0/868	0.42	0/1188
1	JG	0.22	0/868	0.44	0/1188
1	JH	0.24	0/868	0.46	0/1188
1	JI	0.22	0/868	0.42	0/1188
1	JJ	0.22	0/868	0.44	0/1188
1	JK	0.24	0/868	0.46	0/1188
1	JL	0.22	0/868	0.42	0/1188
1	JM	0.22	0/868	0.44	0/1188
1	JN	0.24	0/868	0.46	0/1188
1	JO	0.22	0/868	0.42	0/1188

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	JP	0.22	0/868	0.44	0/1188
1	JQ	0.24	0/868	0.46	0/1188
1	JR	0.22	0/868	0.42	0/1188
1	JS	0.22	0/868	0.44	0/1188
1	JT	0.24	0/868	0.46	0/1188
1	JU	0.22	0/868	0.42	0/1188
1	JV	0.22	0/868	0.44	0/1188
1	JW	0.24	0/868	0.46	0/1188
1	JX	0.22	0/868	0.42	0/1188
1	JY	0.22	0/868	0.44	0/1188
1	JZ	0.24	0/868	0.46	0/1188
1	KA	0.22	0/868	0.42	0/1188
1	KB	0.22	0/868	0.44	0/1188
1	KC	0.24	0/868	0.46	0/1188
1	KD	0.21	0/868	0.42	0/1188
1	KE	0.22	0/868	0.44	0/1188
1	KF	0.24	0/868	0.46	0/1188
1	KG	0.22	0/868	0.42	0/1188
1	KH	0.22	0/868	0.44	0/1188
1	KI	0.24	0/868	0.46	0/1188
1	KJ	0.22	0/868	0.42	0/1188
All	All	0.23	0/234360	0.44	0/320760

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	AA	857	0	885	21	0
1	AB	857	0	885	21	0
1	AC	857	0	885	19	0
1	AD	857	0	885	36	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AE	857	0	885	28	0
1	AF	857	0	885	23	0
1	AG	857	0	885	34	0
1	AH	857	0	885	19	0
1	AI	857	0	885	21	0
1	AJ	857	0	885	25	0
1	AK	857	0	885	25	0
1	AL	857	0	885	19	0
1	AM	857	0	885	34	0
1	AN	857	0	885	32	0
1	AO	857	0	885	21	0
1	AP	857	0	885	27	0
1	AQ	857	0	885	34	0
1	AR	857	0	885	22	0
1	AS	857	0	885	37	0
1	AT	857	0	885	18	0
1	AU	857	0	885	39	0
1	AV	857	0	885	34	0
1	AW	857	0	885	21	0
1	AX	857	0	885	25	0
1	AY	857	0	885	31	0
1	AZ	857	0	885	19	0
1	BA	857	0	885	22	0
1	BB	857	0	885	24	0
1	BC	857	0	885	32	0
1	BD	857	0	885	36	0
1	BE	857	0	885	24	0
1	BF	857	0	885	30	0
1	BG	857	0	885	22	0
1	BH	857	0	885	23	0
1	BI	857	0	885	18	0
1	BJ	857	0	885	20	0
1	BK	857	0	885	21	0
1	BL	857	0	885	22	0
1	BM	857	0	885	23	0
1	BN	857	0	885	22	0
1	BO	857	0	885	19	0
1	BP	857	0	885	23	0
1	BQ	857	0	885	28	0
1	BR	857	0	885	22	0
1	BS	857	0	885	23	0
1	BT	857	0	885	30	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	BU	857	0	885	23	0
1	BV	857	0	885	20	0
1	BW	857	0	885	29	0
1	BX	857	0	885	21	0
1	BY	857	0	885	29	0
1	BZ	857	0	885	35	0
1	CA	857	0	885	32	0
1	CB	857	0	885	22	0
1	CC	857	0	885	36	0
1	CD	857	0	885	24	0
1	CE	857	0	885	18	0
1	CF	857	0	885	23	0
1	CG	857	0	885	36	0
1	CH	857	0	885	34	0
1	CI	857	0	885	26	0
1	CJ	857	0	885	27	0
1	CK	857	0	885	22	0
1	CL	857	0	885	39	0
1	CM	857	0	885	25	0
1	CN	857	0	885	26	0
1	CO	857	0	885	30	0
1	CP	857	0	885	19	0
1	CQ	857	0	885	20	0
1	CR	857	0	885	29	0
1	CS	857	0	885	18	0
1	CT	857	0	885	20	0
1	CU	857	0	885	24	0
1	CV	857	0	885	18	0
1	CW	857	0	885	20	0
1	CX	857	0	885	23	0
1	CY	857	0	885	27	0
1	CZ	857	0	885	24	0
1	DA	857	0	885	20	0
1	DB	857	0	885	20	0
1	DC	857	0	885	22	0
1	DD	857	0	885	20	0
1	DE	857	0	885	17	0
1	DF	857	0	885	24	0
1	DG	857	0	885	27	0
1	DH	857	0	885	21	0
1	DI	857	0	885	25	0
1	DJ	857	0	885	21	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	DK	857	0	885	21	0
1	DL	857	0	885	30	0
1	DM	857	0	885	27	0
1	DN	857	0	885	26	0
1	DO	857	0	885	19	0
1	DP	857	0	885	24	0
1	DQ	857	0	885	26	0
1	DR	857	0	885	22	0
1	DS	857	0	885	21	0
1	DT	857	0	885	30	0
1	DU	857	0	885	21	0
1	DV	857	0	885	24	0
1	DW	857	0	885	18	0
1	DX	857	0	885	18	0
1	DY	857	0	885	32	0
1	DZ	857	0	885	18	0
1	EA	857	0	885	21	0
1	EB	857	0	885	36	0
1	EC	857	0	885	26	0
1	ED	857	0	885	21	0
1	EE	857	0	885	34	0
1	EF	857	0	885	32	0
1	EG	857	0	885	40	0
1	EH	857	0	885	27	0
1	EI	857	0	885	29	0
1	EJ	857	0	885	24	0
1	EK	857	0	885	27	0
1	EL	857	0	885	32	0
1	EM	857	0	885	23	0
1	EN	857	0	885	48	0
1	EO	857	0	885	25	0
1	EP	857	0	885	34	0
1	EQ	857	0	885	30	0
1	ER	857	0	885	24	0
1	ES	857	0	885	21	0
1	ET	857	0	885	31	0
1	EU	857	0	885	34	0
1	EV	857	0	885	21	0
1	EW	857	0	885	21	0
1	EX	857	0	885	19	0
1	EY	857	0	885	24	0
1	EZ	857	0	885	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	FA	857	0	885	19	0
1	FB	857	0	885	22	0
1	FC	857	0	885	25	0
1	FD	857	0	885	21	0
1	FE	857	0	885	24	0
1	FF	857	0	885	25	0
1	FG	857	0	885	26	0
1	FH	857	0	885	19	0
1	FI	857	0	885	21	0
1	FJ	857	0	885	45	0
1	FK	857	0	885	28	0
1	FL	857	0	885	23	0
1	FM	857	0	885	27	0
1	FN	857	0	885	21	0
1	FO	857	0	885	29	0
1	FP	857	0	885	20	0
1	FQ	857	0	885	18	0
1	FR	857	0	885	36	0
1	FS	857	0	885	24	0
1	FT	857	0	885	34	0
1	FU	857	0	885	37	0
1	FV	857	0	885	21	0
1	FW	857	0	885	24	0
1	FX	857	0	885	25	0
1	FY	857	0	885	29	0
1	FZ	857	0	885	25	0
1	GA	857	0	885	30	0
1	GB	857	0	885	35	0
1	GC	857	0	885	21	0
1	GD	857	0	885	22	0
1	GE	857	0	885	22	0
1	GF	857	0	885	20	0
1	GG	857	0	885	30	0
1	GH	857	0	885	25	0
1	GI	857	0	885	20	0
1	GJ	857	0	885	24	0
1	GK	857	0	885	34	0
1	GL	857	0	885	24	0
1	GM	857	0	885	21	0
1	GN	857	0	885	21	0
1	GO	857	0	885	21	0
1	GP	857	0	885	26	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	GQ	857	0	885	18	0
1	GR	857	0	885	24	0
1	GS	857	0	885	23	0
1	GT	857	0	885	24	0
1	GU	857	0	885	24	0
1	GV	857	0	885	23	0
1	GW	857	0	885	21	0
1	GX	857	0	885	29	0
1	GY	857	0	885	39	0
1	GZ	857	0	885	19	0
1	HA	857	0	885	18	0
1	HB	857	0	885	25	0
1	HC	857	0	885	20	0
1	HD	857	0	885	13	0
1	HE	857	0	885	29	0
1	HF	857	0	885	20	0
1	HG	857	0	885	23	0
1	HH	857	0	885	24	0
1	HI	857	0	885	18	0
1	HJ	857	0	885	25	0
1	HK	857	0	885	28	0
1	HL	857	0	885	26	0
1	HM	857	0	885	15	0
1	HN	857	0	885	25	0
1	HO	857	0	885	37	0
1	HP	857	0	885	21	0
1	HQ	857	0	885	30	0
1	HR	857	0	885	23	0
1	HS	857	0	885	26	0
1	HT	857	0	885	46	0
1	HU	857	0	885	27	0
1	HV	857	0	885	31	0
1	HW	857	0	885	28	0
1	HX	857	0	885	23	0
1	HY	857	0	885	20	0
1	HZ	857	0	885	27	0
1	IA	857	0	885	19	0
1	IB	857	0	885	21	0
1	IC	857	0	885	22	0
1	ID	857	0	885	17	0
1	IE	857	0	885	24	0
1	IF	857	0	885	35	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	IG	857	0	885	23	0
1	IH	857	0	885	15	0
1	II	857	0	885	19	0
1	IJ	857	0	885	30	0
1	IK	857	0	885	21	0
1	IL	857	0	885	21	0
1	IM	857	0	885	44	0
1	IN	857	0	885	15	0
1	IO	857	0	885	25	0
1	IP	857	0	885	26	0
1	IQ	857	0	885	20	0
1	IR	857	0	885	22	0
1	IS	857	0	885	27	0
1	IT	857	0	885	24	0
1	IU	857	0	885	38	0
1	IV	857	0	885	21	0
1	IW	857	0	885	15	0
1	IX	857	0	885	26	0
1	IY	857	0	885	25	0
1	IZ	857	0	885	25	0
1	JA	857	0	885	34	0
1	JB	857	0	885	23	0
1	JC	857	0	885	21	0
1	JD	857	0	885	33	0
1	JE	857	0	885	34	0
1	JF	857	0	885	14	0
1	JG	857	0	885	28	0
1	JH	857	0	885	30	0
1	JI	857	0	885	16	0
1	JJ	857	0	885	22	0
1	JK	857	0	885	29	0
1	JL	857	0	885	26	0
1	JM	857	0	885	33	0
1	JN	857	0	885	31	0
1	JO	857	0	885	31	0
1	JP	857	0	885	33	0
1	JQ	857	0	885	31	0
1	JR	857	0	885	19	0
1	JS	857	0	885	23	0
1	JT	857	0	885	36	0
1	JU	857	0	885	16	0
1	JV	857	0	885	22	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	JW	857	0	885	18	0
1	JX	857	0	885	21	0
1	JY	857	0	885	21	0
1	JZ	857	0	885	19	0
1	KA	857	0	885	22	0
1	KB	857	0	885	26	0
1	KC	857	0	885	23	0
1	KD	857	0	885	15	0
1	KE	857	0	885	21	0
1	KF	857	0	885	18	0
1	KG	857	0	885	15	0
1	KH	857	0	885	39	0
1	KI	857	0	885	23	0
1	KJ	857	0	885	20	0
All	All	231390	0	238950	5136	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 11.

The worst 5 of 5136 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:DL:95:VAL:HG13	1:GX:95:VAL:HG13	1.54	0.86
1:AU:111:LEU:HG	1:EG:11:PRO:HA	1.55	0.86
1:HJ:95:VAL:HG13	1:IZ:95:VAL:HG13	1.60	0.83
1:AX:95:VAL:HG13	1:EJ:95:VAL:HG13	1.60	0.82
1:CI:4:LYS:HE2	1:GH:112:THR:HG21	1.64	0.80

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	AA	112/115 (97%)	112 (100%)	0	0	100	100
1	AB	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	AC	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	AD	112/115 (97%)	112 (100%)	0	0	100	100
1	AE	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	AF	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	AG	112/115 (97%)	112 (100%)	0	0	100	100
1	AH	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	AI	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	AJ	112/115 (97%)	112 (100%)	0	0	100	100
1	AK	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	AL	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	AM	112/115 (97%)	112 (100%)	0	0	100	100
1	AN	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	AO	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	AP	112/115 (97%)	112 (100%)	0	0	100	100
1	AQ	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	AR	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	AS	112/115 (97%)	112 (100%)	0	0	100	100
1	AT	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	AU	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	AV	112/115 (97%)	112 (100%)	0	0	100	100
1	AW	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	AX	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	AY	112/115 (97%)	112 (100%)	0	0	100	100
1	AZ	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	BA	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	BB	112/115 (97%)	112 (100%)	0	0	100	100
1	BC	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	BD	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	BE	112/115 (97%)	112 (100%)	0	0	100	100
1	BF	112/115 (97%)	111 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BG	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	BH	112/115 (97%)	112 (100%)	0	0	100	100
1	BI	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	BJ	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	BK	112/115 (97%)	112 (100%)	0	0	100	100
1	BL	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	BM	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	BN	112/115 (97%)	112 (100%)	0	0	100	100
1	BO	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	BP	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	BQ	112/115 (97%)	112 (100%)	0	0	100	100
1	BR	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	BS	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	BT	112/115 (97%)	112 (100%)	0	0	100	100
1	BU	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	BV	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	BW	112/115 (97%)	112 (100%)	0	0	100	100
1	BX	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	BY	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	BZ	112/115 (97%)	112 (100%)	0	0	100	100
1	CA	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	CB	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	CC	112/115 (97%)	112 (100%)	0	0	100	100
1	CD	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	CE	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	CF	112/115 (97%)	112 (100%)	0	0	100	100
1	CG	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	CH	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	CI	112/115 (97%)	112 (100%)	0	0	100	100
1	CJ	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	CK	112/115 (97%)	110 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	CL	112/115 (97%)	112 (100%)	0	0	100	100
1	CM	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	CN	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	CO	112/115 (97%)	112 (100%)	0	0	100	100
1	CP	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	CQ	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	CR	112/115 (97%)	112 (100%)	0	0	100	100
1	CS	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	CT	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	CU	112/115 (97%)	112 (100%)	0	0	100	100
1	CV	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	CW	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	CX	112/115 (97%)	112 (100%)	0	0	100	100
1	CY	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	CZ	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	DA	112/115 (97%)	112 (100%)	0	0	100	100
1	DB	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	DC	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	DD	112/115 (97%)	112 (100%)	0	0	100	100
1	DE	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	DF	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	DG	112/115 (97%)	112 (100%)	0	0	100	100
1	DH	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	DI	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	DJ	112/115 (97%)	112 (100%)	0	0	100	100
1	DK	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	DL	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	DM	112/115 (97%)	112 (100%)	0	0	100	100
1	DN	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	DO	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	DP	112/115 (97%)	112 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	DQ	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	DR	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	DS	112/115 (97%)	112 (100%)	0	0	100	100
1	DT	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	DU	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	DV	112/115 (97%)	112 (100%)	0	0	100	100
1	DW	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	DX	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	DY	112/115 (97%)	112 (100%)	0	0	100	100
1	DZ	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	EA	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	EB	112/115 (97%)	112 (100%)	0	0	100	100
1	EC	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	ED	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	EE	112/115 (97%)	112 (100%)	0	0	100	100
1	EF	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	EG	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	EH	112/115 (97%)	112 (100%)	0	0	100	100
1	EI	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	EJ	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	EK	112/115 (97%)	112 (100%)	0	0	100	100
1	EL	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	EM	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	EN	112/115 (97%)	112 (100%)	0	0	100	100
1	EO	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	EP	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	EQ	112/115 (97%)	112 (100%)	0	0	100	100
1	ER	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	ES	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	ET	112/115 (97%)	112 (100%)	0	0	100	100
1	EU	112/115 (97%)	111 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	EV	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	EW	112/115 (97%)	112 (100%)	0	0	100	100
1	EX	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	EY	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	EZ	112/115 (97%)	112 (100%)	0	0	100	100
1	FA	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	FB	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	FC	112/115 (97%)	112 (100%)	0	0	100	100
1	FD	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	FE	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	FF	112/115 (97%)	112 (100%)	0	0	100	100
1	FG	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	FH	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	FI	112/115 (97%)	112 (100%)	0	0	100	100
1	FJ	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	FK	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	FL	112/115 (97%)	112 (100%)	0	0	100	100
1	FM	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	FN	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	FO	112/115 (97%)	112 (100%)	0	0	100	100
1	FP	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	FQ	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	FR	112/115 (97%)	112 (100%)	0	0	100	100
1	FS	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	FT	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	FU	112/115 (97%)	112 (100%)	0	0	100	100
1	FV	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	FW	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	FX	112/115 (97%)	112 (100%)	0	0	100	100
1	FY	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	FZ	112/115 (97%)	110 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	GA	112/115 (97%)	112 (100%)	0	0	100	100
1	GB	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	GC	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	GD	112/115 (97%)	112 (100%)	0	0	100	100
1	GE	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	GF	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	GG	112/115 (97%)	112 (100%)	0	0	100	100
1	GH	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	GI	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	GJ	112/115 (97%)	112 (100%)	0	0	100	100
1	GK	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	GL	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	GM	112/115 (97%)	112 (100%)	0	0	100	100
1	GN	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	GO	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	GP	112/115 (97%)	112 (100%)	0	0	100	100
1	GQ	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	GR	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	GS	112/115 (97%)	112 (100%)	0	0	100	100
1	GT	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	GU	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	GV	112/115 (97%)	112 (100%)	0	0	100	100
1	GW	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	GX	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	GY	112/115 (97%)	112 (100%)	0	0	100	100
1	GZ	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	HA	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	HB	112/115 (97%)	112 (100%)	0	0	100	100
1	HC	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	HD	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	HE	112/115 (97%)	112 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	HF	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	HG	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	HH	112/115 (97%)	112 (100%)	0	0	100	100
1	HI	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	HJ	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	HK	112/115 (97%)	112 (100%)	0	0	100	100
1	HL	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	HM	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	HN	112/115 (97%)	112 (100%)	0	0	100	100
1	HO	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	HP	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	HQ	112/115 (97%)	112 (100%)	0	0	100	100
1	HR	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	HS	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	HT	112/115 (97%)	112 (100%)	0	0	100	100
1	HU	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	HV	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	HW	112/115 (97%)	112 (100%)	0	0	100	100
1	HX	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	HY	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	HZ	112/115 (97%)	112 (100%)	0	0	100	100
1	IA	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	IB	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	IC	112/115 (97%)	112 (100%)	0	0	100	100
1	ID	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	IE	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	IF	112/115 (97%)	112 (100%)	0	0	100	100
1	IG	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	IH	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	II	112/115 (97%)	112 (100%)	0	0	100	100
1	IJ	112/115 (97%)	111 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	IK	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	IL	112/115 (97%)	112 (100%)	0	0	100	100
1	IM	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	IN	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	IO	112/115 (97%)	112 (100%)	0	0	100	100
1	IP	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	IQ	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	IR	112/115 (97%)	112 (100%)	0	0	100	100
1	IS	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	IT	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	IU	112/115 (97%)	112 (100%)	0	0	100	100
1	IV	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	IW	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	IX	112/115 (97%)	112 (100%)	0	0	100	100
1	IY	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	IZ	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	JA	112/115 (97%)	112 (100%)	0	0	100	100
1	JB	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	JC	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	JD	112/115 (97%)	112 (100%)	0	0	100	100
1	JE	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	JF	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	JG	112/115 (97%)	112 (100%)	0	0	100	100
1	JH	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	JI	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	JJ	112/115 (97%)	112 (100%)	0	0	100	100
1	JK	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	JL	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	JM	112/115 (97%)	112 (100%)	0	0	100	100
1	JN	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	JO	112/115 (97%)	110 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	JP	112/115 (97%)	112 (100%)	0	0	100	100
1	JQ	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	JR	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	JS	112/115 (97%)	112 (100%)	0	0	100	100
1	JT	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	JU	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	JV	112/115 (97%)	112 (100%)	0	0	100	100
1	JW	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	JX	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	JY	112/115 (97%)	112 (100%)	0	0	100	100
1	JZ	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	KA	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	KB	112/115 (97%)	112 (100%)	0	0	100	100
1	KC	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	KD	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	KE	112/115 (97%)	112 (100%)	0	0	100	100
1	KF	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	KG	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
1	KH	112/115 (97%)	112 (100%)	0	0	100	100
1	KI	112/115 (97%)	111 (99%)	1 (1%)	0	100	100
1	KJ	112/115 (97%)	110 (98%)	2 (2%)	0	100	100
All	All	30240/31050 (97%)	29970 (99%)	270 (1%)	0	100	100

There are no Ramachandran outliers to report.

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	AA	97/98 (99%)	97 (100%)	0	100	100
1	AB	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	AC	97/98 (99%)	97 (100%)	0	100	100
1	AD	97/98 (99%)	97 (100%)	0	100	100
1	AE	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	AF	97/98 (99%)	97 (100%)	0	100	100
1	AG	97/98 (99%)	97 (100%)	0	100	100
1	AH	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	AI	97/98 (99%)	97 (100%)	0	100	100
1	AJ	97/98 (99%)	97 (100%)	0	100	100
1	AK	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	AL	97/98 (99%)	97 (100%)	0	100	100
1	AM	97/98 (99%)	97 (100%)	0	100	100
1	AN	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	AO	97/98 (99%)	97 (100%)	0	100	100
1	AP	97/98 (99%)	97 (100%)	0	100	100
1	AQ	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	AR	97/98 (99%)	97 (100%)	0	100	100
1	AS	97/98 (99%)	97 (100%)	0	100	100
1	AT	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	AU	97/98 (99%)	97 (100%)	0	100	100
1	AV	97/98 (99%)	97 (100%)	0	100	100
1	AW	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	AX	97/98 (99%)	97 (100%)	0	100	100
1	AY	97/98 (99%)	97 (100%)	0	100	100
1	AZ	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	BA	97/98 (99%)	97 (100%)	0	100	100
1	BB	97/98 (99%)	97 (100%)	0	100	100
1	BC	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	BD	97/98 (99%)	97 (100%)	0	100	100
1	BE	97/98 (99%)	97 (100%)	0	100	100
1	BF	97/98 (99%)	96 (99%)	1 (1%)	68	75

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	BG	97/98 (99%)	97 (100%)	0	100	100
1	BH	97/98 (99%)	97 (100%)	0	100	100
1	BI	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	BJ	97/98 (99%)	97 (100%)	0	100	100
1	BK	97/98 (99%)	97 (100%)	0	100	100
1	BL	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	BM	97/98 (99%)	97 (100%)	0	100	100
1	BN	97/98 (99%)	97 (100%)	0	100	100
1	BO	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	BP	97/98 (99%)	97 (100%)	0	100	100
1	BQ	97/98 (99%)	97 (100%)	0	100	100
1	BR	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	BS	97/98 (99%)	97 (100%)	0	100	100
1	BT	97/98 (99%)	97 (100%)	0	100	100
1	BU	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	BV	97/98 (99%)	97 (100%)	0	100	100
1	BW	97/98 (99%)	97 (100%)	0	100	100
1	BX	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	BY	97/98 (99%)	97 (100%)	0	100	100
1	BZ	97/98 (99%)	97 (100%)	0	100	100
1	CA	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	CB	97/98 (99%)	97 (100%)	0	100	100
1	CC	97/98 (99%)	97 (100%)	0	100	100
1	CD	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	CE	97/98 (99%)	97 (100%)	0	100	100
1	CF	97/98 (99%)	97 (100%)	0	100	100
1	CG	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	CH	97/98 (99%)	97 (100%)	0	100	100
1	CI	97/98 (99%)	97 (100%)	0	100	100
1	CJ	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	CK	97/98 (99%)	97 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	CL	97/98 (99%)	97 (100%)	0	100	100
1	CM	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	CN	97/98 (99%)	97 (100%)	0	100	100
1	CO	97/98 (99%)	97 (100%)	0	100	100
1	CP	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	CQ	97/98 (99%)	97 (100%)	0	100	100
1	CR	97/98 (99%)	97 (100%)	0	100	100
1	CS	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	CT	97/98 (99%)	97 (100%)	0	100	100
1	CU	97/98 (99%)	97 (100%)	0	100	100
1	CV	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	CW	97/98 (99%)	97 (100%)	0	100	100
1	CX	97/98 (99%)	97 (100%)	0	100	100
1	CY	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	CZ	97/98 (99%)	97 (100%)	0	100	100
1	DA	97/98 (99%)	97 (100%)	0	100	100
1	DB	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	DC	97/98 (99%)	97 (100%)	0	100	100
1	DD	97/98 (99%)	97 (100%)	0	100	100
1	DE	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	DF	97/98 (99%)	97 (100%)	0	100	100
1	DG	97/98 (99%)	97 (100%)	0	100	100
1	DH	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	DI	97/98 (99%)	97 (100%)	0	100	100
1	DJ	97/98 (99%)	97 (100%)	0	100	100
1	DK	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	DL	97/98 (99%)	97 (100%)	0	100	100
1	DM	97/98 (99%)	97 (100%)	0	100	100
1	DN	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	DO	97/98 (99%)	97 (100%)	0	100	100
1	DP	97/98 (99%)	97 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	DQ	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	DR	97/98 (99%)	97 (100%)	0	100	100
1	DS	97/98 (99%)	97 (100%)	0	100	100
1	DT	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	DU	97/98 (99%)	97 (100%)	0	100	100
1	DV	97/98 (99%)	97 (100%)	0	100	100
1	DW	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	DX	97/98 (99%)	97 (100%)	0	100	100
1	DY	97/98 (99%)	97 (100%)	0	100	100
1	DZ	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	EA	97/98 (99%)	97 (100%)	0	100	100
1	EB	97/98 (99%)	97 (100%)	0	100	100
1	EC	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	ED	97/98 (99%)	97 (100%)	0	100	100
1	EE	97/98 (99%)	97 (100%)	0	100	100
1	EF	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	EG	97/98 (99%)	97 (100%)	0	100	100
1	EH	97/98 (99%)	97 (100%)	0	100	100
1	EI	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	EJ	97/98 (99%)	97 (100%)	0	100	100
1	EK	97/98 (99%)	97 (100%)	0	100	100
1	EL	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	EM	97/98 (99%)	97 (100%)	0	100	100
1	EN	97/98 (99%)	97 (100%)	0	100	100
1	EO	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	EP	97/98 (99%)	97 (100%)	0	100	100
1	EQ	97/98 (99%)	97 (100%)	0	100	100
1	ER	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	ES	97/98 (99%)	97 (100%)	0	100	100
1	ET	97/98 (99%)	97 (100%)	0	100	100
1	EU	97/98 (99%)	96 (99%)	1 (1%)	68	75

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	EV	97/98 (99%)	97 (100%)	0	100	100
1	EW	97/98 (99%)	97 (100%)	0	100	100
1	EX	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	EY	97/98 (99%)	97 (100%)	0	100	100
1	EZ	97/98 (99%)	97 (100%)	0	100	100
1	FA	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	FB	97/98 (99%)	97 (100%)	0	100	100
1	FC	97/98 (99%)	97 (100%)	0	100	100
1	FD	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	FE	97/98 (99%)	97 (100%)	0	100	100
1	FF	97/98 (99%)	97 (100%)	0	100	100
1	FG	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	FH	97/98 (99%)	97 (100%)	0	100	100
1	FI	97/98 (99%)	97 (100%)	0	100	100
1	FJ	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	FK	97/98 (99%)	97 (100%)	0	100	100
1	FL	97/98 (99%)	97 (100%)	0	100	100
1	FM	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	FN	97/98 (99%)	97 (100%)	0	100	100
1	FO	97/98 (99%)	97 (100%)	0	100	100
1	FP	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	FQ	97/98 (99%)	97 (100%)	0	100	100
1	FR	97/98 (99%)	97 (100%)	0	100	100
1	FS	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	FT	97/98 (99%)	97 (100%)	0	100	100
1	FU	97/98 (99%)	97 (100%)	0	100	100
1	FV	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	FW	97/98 (99%)	97 (100%)	0	100	100
1	FX	97/98 (99%)	97 (100%)	0	100	100
1	FY	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	FZ	97/98 (99%)	97 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	GA	97/98 (99%)	97 (100%)	0	100	100
1	GB	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	GC	97/98 (99%)	97 (100%)	0	100	100
1	GD	97/98 (99%)	97 (100%)	0	100	100
1	GE	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	GF	97/98 (99%)	97 (100%)	0	100	100
1	GG	97/98 (99%)	97 (100%)	0	100	100
1	GH	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	GI	97/98 (99%)	97 (100%)	0	100	100
1	GJ	97/98 (99%)	97 (100%)	0	100	100
1	GK	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	GL	97/98 (99%)	97 (100%)	0	100	100
1	GM	97/98 (99%)	97 (100%)	0	100	100
1	GN	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	GO	97/98 (99%)	97 (100%)	0	100	100
1	GP	97/98 (99%)	97 (100%)	0	100	100
1	GQ	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	GR	97/98 (99%)	97 (100%)	0	100	100
1	GS	97/98 (99%)	97 (100%)	0	100	100
1	GT	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	GU	97/98 (99%)	97 (100%)	0	100	100
1	GV	97/98 (99%)	97 (100%)	0	100	100
1	GW	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	GX	97/98 (99%)	97 (100%)	0	100	100
1	GY	97/98 (99%)	97 (100%)	0	100	100
1	GZ	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	HA	97/98 (99%)	97 (100%)	0	100	100
1	HB	97/98 (99%)	97 (100%)	0	100	100
1	HC	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	HD	97/98 (99%)	97 (100%)	0	100	100
1	HE	97/98 (99%)	97 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	HF	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	HG	97/98 (99%)	97 (100%)	0	100	100
1	HH	97/98 (99%)	97 (100%)	0	100	100
1	HI	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	HJ	97/98 (99%)	97 (100%)	0	100	100
1	HK	97/98 (99%)	97 (100%)	0	100	100
1	HL	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	HM	97/98 (99%)	97 (100%)	0	100	100
1	HN	97/98 (99%)	97 (100%)	0	100	100
1	HO	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	HP	97/98 (99%)	97 (100%)	0	100	100
1	HQ	97/98 (99%)	97 (100%)	0	100	100
1	HR	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	HS	97/98 (99%)	97 (100%)	0	100	100
1	HT	97/98 (99%)	97 (100%)	0	100	100
1	HU	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	HV	97/98 (99%)	97 (100%)	0	100	100
1	HW	97/98 (99%)	97 (100%)	0	100	100
1	HX	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	HY	97/98 (99%)	97 (100%)	0	100	100
1	HZ	97/98 (99%)	97 (100%)	0	100	100
1	IA	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	IB	97/98 (99%)	97 (100%)	0	100	100
1	IC	97/98 (99%)	97 (100%)	0	100	100
1	ID	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	IE	97/98 (99%)	97 (100%)	0	100	100
1	IF	97/98 (99%)	97 (100%)	0	100	100
1	IG	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	IH	97/98 (99%)	97 (100%)	0	100	100
1	II	97/98 (99%)	97 (100%)	0	100	100
1	IJ	97/98 (99%)	96 (99%)	1 (1%)	68	75

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	IK	97/98 (99%)	97 (100%)	0	100	100
1	IL	97/98 (99%)	97 (100%)	0	100	100
1	IM	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	IN	97/98 (99%)	97 (100%)	0	100	100
1	IO	97/98 (99%)	97 (100%)	0	100	100
1	IP	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	IQ	97/98 (99%)	97 (100%)	0	100	100
1	IR	97/98 (99%)	97 (100%)	0	100	100
1	IS	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	IT	97/98 (99%)	97 (100%)	0	100	100
1	IU	97/98 (99%)	97 (100%)	0	100	100
1	IV	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	IW	97/98 (99%)	97 (100%)	0	100	100
1	IX	97/98 (99%)	97 (100%)	0	100	100
1	IY	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	IZ	97/98 (99%)	97 (100%)	0	100	100
1	JA	97/98 (99%)	97 (100%)	0	100	100
1	JB	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	JC	97/98 (99%)	97 (100%)	0	100	100
1	JD	97/98 (99%)	97 (100%)	0	100	100
1	JE	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	JF	97/98 (99%)	97 (100%)	0	100	100
1	JG	97/98 (99%)	97 (100%)	0	100	100
1	JH	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	JI	97/98 (99%)	97 (100%)	0	100	100
1	JJ	97/98 (99%)	97 (100%)	0	100	100
1	JK	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	JL	97/98 (99%)	97 (100%)	0	100	100
1	JM	97/98 (99%)	97 (100%)	0	100	100
1	JN	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	JO	97/98 (99%)	97 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	JP	97/98 (99%)	97 (100%)	0	100	100
1	JQ	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	JR	97/98 (99%)	97 (100%)	0	100	100
1	JS	97/98 (99%)	97 (100%)	0	100	100
1	JT	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	JU	97/98 (99%)	97 (100%)	0	100	100
1	JV	97/98 (99%)	97 (100%)	0	100	100
1	JW	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	JX	97/98 (99%)	97 (100%)	0	100	100
1	JY	97/98 (99%)	97 (100%)	0	100	100
1	JZ	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	KA	97/98 (99%)	97 (100%)	0	100	100
1	KB	97/98 (99%)	97 (100%)	0	100	100
1	KC	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	KD	97/98 (99%)	97 (100%)	0	100	100
1	KE	97/98 (99%)	97 (100%)	0	100	100
1	KF	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	KG	97/98 (99%)	97 (100%)	0	100	100
1	KH	97/98 (99%)	97 (100%)	0	100	100
1	KI	97/98 (99%)	96 (99%)	1 (1%)	68	75
1	KJ	97/98 (99%)	97 (100%)	0	100	100
All	All	26190/26460 (99%)	26100 (100%)	90 (0%)	86	84

5 of 90 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	GQ	66	LEU
1	IG	66	LEU
1	GW	66	LEU
1	HO	66	LEU
1	IS	66	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 445 such sidechains are listed below:

Mol	Chain	Res	Type
1	FO	44	ASN
1	KJ	44	ASN
1	GR	109	ASN
1	KG	44	ASN
1	JI	109	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9
1	AA	114/115 (99%)	0.51	6 (5%)	32 24	44, 67, 100, 129	0
1	AB	114/115 (99%)	0.54	8 (7%)	22 18	39, 66, 99, 114	0
1	AC	114/115 (99%)	0.75	10 (8%)	15 14	40, 68, 111, 175	0
1	AD	114/115 (99%)	0.47	7 (6%)	27 21	44, 67, 100, 129	0
1	AE	114/115 (99%)	0.69	10 (8%)	15 14	39, 66, 99, 114	0
1	AF	114/115 (99%)	0.67	9 (7%)	18 16	40, 68, 111, 175	0
1	AG	114/115 (99%)	0.77	14 (12%)	8 9	44, 67, 100, 129	0
1	AH	114/115 (99%)	0.54	6 (5%)	32 24	39, 66, 99, 114	0
1	AI	114/115 (99%)	0.62	7 (6%)	27 21	40, 68, 111, 175	0
1	AJ	114/115 (99%)	0.50	4 (3%)	47 34	44, 67, 100, 129	0
1	AK	114/115 (99%)	0.50	6 (5%)	32 24	39, 66, 99, 114	0
1	AL	114/115 (99%)	0.65	7 (6%)	27 21	40, 68, 111, 175	0
1	AM	114/115 (99%)	0.64	10 (8%)	15 14	44, 67, 100, 129	0
1	AN	114/115 (99%)	0.37	5 (4%)	39 28	39, 66, 99, 114	0
1	AO	114/115 (99%)	0.33	3 (2%)	57 42	40, 68, 111, 175	0
1	AP	114/115 (99%)	1.18	22 (19%)	3 4	44, 67, 100, 129	0
1	AQ	114/115 (99%)	0.75	8 (7%)	22 18	39, 66, 99, 114	0
1	AR	114/115 (99%)	0.98	16 (14%)	6 8	40, 68, 111, 175	0
1	AS	114/115 (99%)	1.00	13 (11%)	10 10	44, 67, 100, 129	0
1	AT	114/115 (99%)	0.51	7 (6%)	27 21	39, 66, 99, 114	0
1	AU	114/115 (99%)	0.87	15 (13%)	7 8	40, 68, 111, 175	0
1	AV	114/115 (99%)	0.73	7 (6%)	27 21	44, 67, 100, 129	0
1	AW	114/115 (99%)	0.44	3 (2%)	57 42	39, 66, 99, 114	0
1	AX	114/115 (99%)	0.66	5 (4%)	39 28	40, 68, 111, 175	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AY	114/115 (99%)	0.94	14 (12%) 8 9	44, 67, 100, 129	0
1	AZ	114/115 (99%)	1.04	17 (14%) 5 7	39, 66, 99, 114	0
1	BA	114/115 (99%)	1.12	21 (18%) 3 5	40, 68, 111, 175	0
1	BB	114/115 (99%)	0.75	10 (8%) 15 14	44, 67, 100, 129	0
1	BC	114/115 (99%)	0.48	4 (3%) 47 34	39, 66, 99, 114	0
1	BD	114/115 (99%)	0.69	10 (8%) 15 14	40, 68, 111, 175	0
1	BE	114/115 (99%)	0.63	8 (7%) 22 18	44, 67, 100, 129	0
1	BF	114/115 (99%)	0.64	4 (3%) 47 34	39, 66, 99, 114	0
1	BG	114/115 (99%)	0.76	10 (8%) 15 14	40, 68, 111, 175	0
1	BH	114/115 (99%)	0.37	4 (3%) 47 34	44, 67, 100, 129	0
1	BI	114/115 (99%)	0.61	7 (6%) 27 21	39, 66, 99, 114	0
1	BJ	114/115 (99%)	0.45	6 (5%) 32 24	40, 68, 111, 175	0
1	BK	114/115 (99%)	0.43	4 (3%) 47 34	44, 67, 100, 129	0
1	BL	114/115 (99%)	0.42	2 (1%) 67 53	39, 66, 99, 114	0
1	BM	114/115 (99%)	0.62	9 (7%) 18 16	40, 68, 111, 175	0
1	BN	114/115 (99%)	0.31	2 (1%) 67 53	44, 67, 100, 129	0
1	BO	114/115 (99%)	0.27	3 (2%) 57 42	39, 66, 99, 114	0
1	BP	114/115 (99%)	0.55	7 (6%) 27 21	40, 68, 111, 175	0
1	BQ	114/115 (99%)	0.70	8 (7%) 22 18	44, 67, 100, 129	0
1	BR	114/115 (99%)	0.59	4 (3%) 47 34	39, 66, 99, 114	0
1	BS	114/115 (99%)	0.38	3 (2%) 57 42	40, 68, 111, 175	0
1	BT	114/115 (99%)	0.95	16 (14%) 6 8	44, 67, 100, 129	0
1	BU	114/115 (99%)	1.08	25 (21%) 2 4	39, 66, 99, 114	0
1	BV	114/115 (99%)	0.99	15 (13%) 7 8	40, 68, 111, 175	0
1	BW	114/115 (99%)	0.38	4 (3%) 47 34	44, 67, 100, 129	0
1	BX	114/115 (99%)	0.58	4 (3%) 47 34	39, 66, 99, 114	0
1	BY	114/115 (99%)	0.83	11 (9%) 13 13	40, 68, 111, 175	0
1	BZ	114/115 (99%)	0.76	8 (7%) 22 18	44, 67, 100, 129	0
1	CA	114/115 (99%)	0.33	6 (5%) 32 24	39, 66, 99, 114	0
1	CB	114/115 (99%)	0.57	9 (7%) 18 16	40, 68, 111, 175	0
1	CC	114/115 (99%)	0.41	6 (5%) 32 24	44, 67, 100, 129	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	CD	114/115 (99%)	0.57	4 (3%) 47 34	39, 66, 99, 114	0
1	CE	114/115 (99%)	0.38	10 (8%) 15 14	40, 68, 111, 175	0
1	CF	114/115 (99%)	0.21	1 (0%) 81 68	44, 67, 100, 129	0
1	CG	114/115 (99%)	0.54	6 (5%) 32 24	39, 66, 99, 114	0
1	CH	114/115 (99%)	0.78	11 (9%) 13 13	40, 68, 111, 175	0
1	CI	114/115 (99%)	0.85	11 (9%) 13 13	44, 67, 100, 129	0
1	CJ	114/115 (99%)	0.94	13 (11%) 10 10	39, 66, 99, 114	0
1	CK	114/115 (99%)	1.19	24 (21%) 2 4	40, 68, 111, 175	0
1	CL	114/115 (99%)	0.55	4 (3%) 47 34	44, 67, 100, 129	0
1	CM	114/115 (99%)	0.62	6 (5%) 32 24	39, 66, 99, 114	0
1	CN	114/115 (99%)	0.46	6 (5%) 32 24	40, 68, 111, 175	0
1	CO	114/115 (99%)	0.90	9 (7%) 18 16	44, 67, 100, 129	0
1	CP	114/115 (99%)	0.71	11 (9%) 13 13	39, 66, 99, 114	0
1	CQ	114/115 (99%)	0.61	9 (7%) 18 16	40, 68, 111, 175	0
1	CR	114/115 (99%)	0.52	4 (3%) 47 34	44, 67, 100, 129	0
1	CS	114/115 (99%)	0.31	3 (2%) 57 42	39, 66, 99, 114	0
1	CT	114/115 (99%)	0.48	11 (9%) 13 13	40, 68, 111, 175	0
1	CU	114/115 (99%)	0.62	10 (8%) 15 14	44, 67, 100, 129	0
1	CV	114/115 (99%)	0.50	10 (8%) 15 14	39, 66, 99, 114	0
1	CW	114/115 (99%)	0.42	7 (6%) 27 21	40, 68, 111, 175	0
1	CX	114/115 (99%)	0.35	4 (3%) 47 34	44, 67, 100, 129	0
1	CY	114/115 (99%)	0.61	6 (5%) 32 24	39, 66, 99, 114	0
1	CZ	114/115 (99%)	0.60	8 (7%) 22 18	40, 68, 111, 175	0
1	DA	114/115 (99%)	0.39	5 (4%) 39 28	44, 67, 100, 129	0
1	DB	114/115 (99%)	0.33	3 (2%) 57 42	39, 66, 99, 114	0
1	DC	114/115 (99%)	0.30	3 (2%) 57 42	40, 68, 111, 175	0
1	DD	114/115 (99%)	0.46	5 (4%) 39 28	44, 67, 100, 129	0
1	DE	114/115 (99%)	0.35	4 (3%) 47 34	39, 66, 99, 114	0
1	DF	114/115 (99%)	0.39	4 (3%) 47 34	40, 68, 111, 175	0
1	DG	114/115 (99%)	0.45	2 (1%) 67 53	44, 67, 100, 129	0
1	DH	114/115 (99%)	0.56	6 (5%) 32 24	39, 66, 99, 114	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	DI	114/115 (99%)	0.63	7 (6%) 27 21	40, 68, 111, 175	0
1	DJ	114/115 (99%)	0.64	10 (8%) 15 14	44, 67, 100, 129	0
1	DK	114/115 (99%)	0.44	4 (3%) 47 34	39, 66, 99, 114	0
1	DL	114/115 (99%)	0.42	3 (2%) 57 42	40, 68, 111, 175	0
1	DM	114/115 (99%)	0.60	4 (3%) 47 34	44, 67, 100, 129	0
1	DN	114/115 (99%)	0.75	13 (11%) 10 10	39, 66, 99, 114	0
1	DO	114/115 (99%)	0.64	6 (5%) 32 24	40, 68, 111, 175	0
1	DP	114/115 (99%)	0.37	6 (5%) 32 24	44, 67, 100, 129	0
1	DQ	114/115 (99%)	0.45	7 (6%) 27 21	39, 66, 99, 114	0
1	DR	114/115 (99%)	0.57	8 (7%) 22 18	40, 68, 111, 175	0
1	DS	114/115 (99%)	0.42	5 (4%) 39 28	44, 67, 100, 129	0
1	DT	114/115 (99%)	0.54	5 (4%) 39 28	39, 66, 99, 114	0
1	DU	114/115 (99%)	0.61	9 (7%) 18 16	40, 68, 111, 175	0
1	DV	114/115 (99%)	0.58	3 (2%) 57 42	44, 67, 100, 129	0
1	DW	114/115 (99%)	0.53	8 (7%) 22 18	39, 66, 99, 114	0
1	DX	114/115 (99%)	0.51	8 (7%) 22 18	40, 68, 111, 175	0
1	DY	114/115 (99%)	0.57	11 (9%) 13 13	44, 67, 100, 129	0
1	DZ	114/115 (99%)	0.24	2 (1%) 67 53	39, 66, 99, 114	0
1	EA	114/115 (99%)	0.38	4 (3%) 47 34	40, 68, 111, 175	0
1	EB	114/115 (99%)	1.06	13 (11%) 10 10	44, 67, 100, 129	0
1	EC	114/115 (99%)	0.66	8 (7%) 22 18	39, 66, 99, 114	0
1	ED	114/115 (99%)	0.90	11 (9%) 13 13	40, 68, 111, 175	0
1	EE	114/115 (99%)	0.66	8 (7%) 22 18	44, 67, 100, 129	0
1	EF	114/115 (99%)	0.86	15 (13%) 7 8	39, 66, 99, 114	0
1	EG	114/115 (99%)	0.93	13 (11%) 10 10	40, 68, 111, 175	0
1	EH	114/115 (99%)	1.15	20 (17%) 4 5	44, 67, 100, 129	0
1	EI	114/115 (99%)	0.90	15 (13%) 7 8	39, 66, 99, 114	0
1	EJ	114/115 (99%)	0.88	13 (11%) 10 10	40, 68, 111, 175	0
1	EK	114/115 (99%)	0.72	4 (3%) 47 34	44, 67, 100, 129	0
1	EL	114/115 (99%)	0.78	13 (11%) 10 10	39, 66, 99, 114	0
1	EM	114/115 (99%)	0.87	10 (8%) 15 14	40, 68, 111, 175	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	EN	114/115 (99%)	1.16	18 (15%) 5 6	44, 67, 100, 129	0
1	EO	114/115 (99%)	0.67	7 (6%) 27 21	39, 66, 99, 114	0
1	EP	114/115 (99%)	0.82	10 (8%) 15 14	40, 68, 111, 175	0
1	EQ	114/115 (99%)	0.74	9 (7%) 18 16	44, 67, 100, 129	0
1	ER	114/115 (99%)	0.54	8 (7%) 22 18	39, 66, 99, 114	0
1	ES	114/115 (99%)	0.78	10 (8%) 15 14	40, 68, 111, 175	0
1	ET	114/115 (99%)	0.57	4 (3%) 47 34	44, 67, 100, 129	0
1	EU	114/115 (99%)	0.54	7 (6%) 27 21	39, 66, 99, 114	0
1	EV	114/115 (99%)	0.47	3 (2%) 57 42	40, 68, 111, 175	0
1	EW	114/115 (99%)	0.82	8 (7%) 22 18	44, 67, 100, 129	0
1	EX	114/115 (99%)	0.76	10 (8%) 15 14	39, 66, 99, 114	0
1	EY	114/115 (99%)	0.80	16 (14%) 6 8	40, 68, 111, 175	0
1	EZ	114/115 (99%)	0.65	8 (7%) 22 18	44, 67, 100, 129	0
1	FA	114/115 (99%)	0.51	6 (5%) 32 24	39, 66, 99, 114	0
1	FB	114/115 (99%)	0.61	11 (9%) 13 13	40, 68, 111, 175	0
1	FC	114/115 (99%)	0.49	3 (2%) 57 42	44, 67, 100, 129	0
1	FD	114/115 (99%)	0.53	4 (3%) 47 34	39, 66, 99, 114	0
1	FE	114/115 (99%)	0.44	3 (2%) 57 42	40, 68, 111, 175	0
1	FF	114/115 (99%)	0.37	4 (3%) 47 34	44, 67, 100, 129	0
1	FG	114/115 (99%)	0.53	9 (7%) 18 16	39, 66, 99, 114	0
1	FH	114/115 (99%)	0.80	12 (10%) 11 12	40, 68, 111, 175	0
1	FI	114/115 (99%)	0.75	8 (7%) 22 18	44, 67, 100, 129	0
1	FJ	114/115 (99%)	0.94	13 (11%) 10 10	39, 66, 99, 114	0
1	FK	114/115 (99%)	0.66	7 (6%) 27 21	40, 68, 111, 175	0
1	FL	114/115 (99%)	0.54	8 (7%) 22 18	44, 67, 100, 129	0
1	FM	114/115 (99%)	0.63	7 (6%) 27 21	39, 66, 99, 114	0
1	FN	114/115 (99%)	0.65	14 (12%) 8 9	40, 68, 111, 175	0
1	FO	114/115 (99%)	0.52	5 (4%) 39 28	44, 67, 100, 129	0
1	FP	114/115 (99%)	0.31	4 (3%) 47 34	39, 66, 99, 114	0
1	FQ	114/115 (99%)	0.45	5 (4%) 39 28	40, 68, 111, 175	0
1	FR	114/115 (99%)	0.79	9 (7%) 18 16	44, 67, 100, 129	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	FS	114/115 (99%)	0.34	5 (4%) 39 28	39, 66, 99, 114	0
1	FT	114/115 (99%)	0.93	18 (15%) 5 6	40, 68, 111, 175	0
1	FU	114/115 (99%)	0.86	10 (8%) 15 14	44, 67, 100, 129	0
1	FV	114/115 (99%)	0.78	9 (7%) 18 16	39, 66, 99, 114	0
1	FW	114/115 (99%)	1.03	13 (11%) 10 10	40, 68, 111, 175	0
1	FX	114/115 (99%)	0.58	4 (3%) 47 34	44, 67, 100, 129	0
1	FY	114/115 (99%)	0.39	2 (1%) 67 53	39, 66, 99, 114	0
1	FZ	114/115 (99%)	0.59	4 (3%) 47 34	40, 68, 111, 175	0
1	GA	114/115 (99%)	0.68	9 (7%) 18 16	44, 67, 100, 129	0
1	GB	114/115 (99%)	1.00	17 (14%) 5 7	39, 66, 99, 114	0
1	GC	114/115 (99%)	0.68	10 (8%) 15 14	40, 68, 111, 175	0
1	GD	114/115 (99%)	0.55	5 (4%) 39 28	44, 67, 100, 129	0
1	GE	114/115 (99%)	0.45	4 (3%) 47 34	39, 66, 99, 114	0
1	GF	114/115 (99%)	0.65	6 (5%) 32 24	40, 68, 111, 175	0
1	GG	114/115 (99%)	0.41	3 (2%) 57 42	44, 67, 100, 129	0
1	GH	114/115 (99%)	0.72	8 (7%) 22 18	39, 66, 99, 114	0
1	GI	114/115 (99%)	0.43	2 (1%) 67 53	40, 68, 111, 175	0
1	GJ	114/115 (99%)	0.27	6 (5%) 32 24	44, 67, 100, 129	0
1	GK	114/115 (99%)	0.45	8 (7%) 22 18	39, 66, 99, 114	0
1	GL	114/115 (99%)	0.68	13 (11%) 10 10	40, 68, 111, 175	0
1	GM	114/115 (99%)	0.44	4 (3%) 47 34	44, 67, 100, 129	0
1	GN	114/115 (99%)	0.31	5 (4%) 39 28	39, 66, 99, 114	0
1	GO	114/115 (99%)	0.44	5 (4%) 39 28	40, 68, 111, 175	0
1	GP	114/115 (99%)	0.54	9 (7%) 18 16	44, 67, 100, 129	0
1	GQ	114/115 (99%)	0.44	3 (2%) 57 42	39, 66, 99, 114	0
1	GR	114/115 (99%)	0.41	4 (3%) 47 34	40, 68, 111, 175	0
1	GS	114/115 (99%)	0.60	4 (3%) 47 34	44, 67, 100, 129	0
1	GT	114/115 (99%)	0.72	12 (10%) 11 12	39, 66, 99, 114	0
1	GU	114/115 (99%)	0.61	8 (7%) 22 18	40, 68, 111, 175	0
1	GV	114/115 (99%)	0.41	7 (6%) 27 21	44, 67, 100, 129	0
1	GW	114/115 (99%)	0.27	2 (1%) 67 53	39, 66, 99, 114	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	GX	114/115 (99%)	0.51	5 (4%) 39 28	40, 68, 111, 175	0
1	GY	114/115 (99%)	0.83	15 (13%) 7 8	44, 67, 100, 129	0
1	GZ	114/115 (99%)	1.04	14 (12%) 8 9	39, 66, 99, 114	0
1	HA	114/115 (99%)	0.84	8 (7%) 22 18	40, 68, 111, 175	0
1	HB	114/115 (99%)	0.24	2 (1%) 67 53	44, 67, 100, 129	0
1	HC	114/115 (99%)	0.14	1 (0%) 81 68	39, 66, 99, 114	0
1	HD	114/115 (99%)	0.38	6 (5%) 32 24	40, 68, 111, 175	0
1	HE	114/115 (99%)	1.17	20 (17%) 4 5	44, 67, 100, 129	0
1	HF	114/115 (99%)	0.83	8 (7%) 22 18	39, 66, 99, 114	0
1	HG	114/115 (99%)	1.22	20 (17%) 4 5	40, 68, 111, 175	0
1	HH	114/115 (99%)	0.44	4 (3%) 47 34	44, 67, 100, 129	0
1	HI	114/115 (99%)	1.01	17 (14%) 5 7	39, 66, 99, 114	0
1	HJ	114/115 (99%)	0.40	4 (3%) 47 34	40, 68, 111, 175	0
1	HK	114/115 (99%)	0.41	4 (3%) 47 34	44, 67, 100, 129	0
1	HL	114/115 (99%)	0.36	4 (3%) 47 34	39, 66, 99, 114	0
1	HM	114/115 (99%)	0.33	4 (3%) 47 34	40, 68, 111, 175	0
1	HN	114/115 (99%)	1.29	22 (19%) 3 4	44, 67, 100, 129	0
1	HO	114/115 (99%)	0.80	8 (7%) 22 18	39, 66, 99, 114	0
1	HP	114/115 (99%)	0.94	14 (12%) 8 9	40, 68, 111, 175	0
1	HQ	114/115 (99%)	1.07	22 (19%) 3 4	44, 67, 100, 129	0
1	HR	114/115 (99%)	1.13	18 (15%) 5 6	39, 66, 99, 114	0
1	HS	114/115 (99%)	1.33	24 (21%) 2 4	40, 68, 111, 175	0
1	HT	114/115 (99%)	0.90	10 (8%) 15 14	44, 67, 100, 129	0
1	HU	114/115 (99%)	1.22	29 (25%) 1 3	39, 66, 99, 114	0
1	HV	114/115 (99%)	1.06	18 (15%) 5 6	40, 68, 111, 175	0
1	HW	114/115 (99%)	0.46	4 (3%) 47 34	44, 67, 100, 129	0
1	HX	114/115 (99%)	0.21	2 (1%) 67 53	39, 66, 99, 114	0
1	HY	114/115 (99%)	0.42	3 (2%) 57 42	40, 68, 111, 175	0
1	HZ	114/115 (99%)	0.32	1 (0%) 81 68	44, 67, 100, 129	0
1	IA	114/115 (99%)	0.56	7 (6%) 27 21	39, 66, 99, 114	0
1	IB	114/115 (99%)	0.41	6 (5%) 32 24	40, 68, 111, 175	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	IC	114/115 (99%)	0.51	4 (3%) 47 34	44, 67, 100, 129	0
1	ID	114/115 (99%)	0.35	3 (2%) 57 42	39, 66, 99, 114	0
1	IE	114/115 (99%)	0.68	10 (8%) 15 14	40, 68, 111, 175	0
1	IF	114/115 (99%)	0.70	5 (4%) 39 28	44, 67, 100, 129	0
1	IG	114/115 (99%)	0.38	5 (4%) 39 28	39, 66, 99, 114	0
1	IH	114/115 (99%)	0.46	7 (6%) 27 21	40, 68, 111, 175	0
1	II	114/115 (99%)	0.32	3 (2%) 57 42	44, 67, 100, 129	0
1	IJ	114/115 (99%)	0.52	7 (6%) 27 21	39, 66, 99, 114	0
1	IK	114/115 (99%)	0.48	7 (6%) 27 21	40, 68, 111, 175	0
1	IL	114/115 (99%)	0.45	2 (1%) 67 53	44, 67, 100, 129	0
1	IM	114/115 (99%)	0.82	12 (10%) 11 12	39, 66, 99, 114	0
1	IN	114/115 (99%)	0.80	13 (11%) 10 10	40, 68, 111, 175	0
1	IO	114/115 (99%)	0.64	8 (7%) 22 18	44, 67, 100, 129	0
1	IP	114/115 (99%)	0.63	8 (7%) 22 18	39, 66, 99, 114	0
1	IQ	114/115 (99%)	1.00	18 (15%) 5 6	40, 68, 111, 175	0
1	IR	114/115 (99%)	1.04	16 (14%) 6 8	44, 67, 100, 129	0
1	IS	114/115 (99%)	1.03	13 (11%) 10 10	39, 66, 99, 114	0
1	IT	114/115 (99%)	1.13	15 (13%) 7 8	40, 68, 111, 175	0
1	IU	114/115 (99%)	0.72	11 (9%) 13 13	44, 67, 100, 129	0
1	IV	114/115 (99%)	0.42	2 (1%) 67 53	39, 66, 99, 114	0
1	IW	114/115 (99%)	0.55	4 (3%) 47 34	40, 68, 111, 175	0
1	IX	114/115 (99%)	0.59	4 (3%) 47 34	44, 67, 100, 129	0
1	IY	114/115 (99%)	0.36	3 (2%) 57 42	39, 66, 99, 114	0
1	IZ	114/115 (99%)	0.45	5 (4%) 39 28	40, 68, 111, 175	0
1	JA	114/115 (99%)	0.81	14 (12%) 8 9	44, 67, 100, 129	0
1	JB	114/115 (99%)	0.50	8 (7%) 22 18	39, 66, 99, 114	0
1	JC	114/115 (99%)	0.92	10 (8%) 15 14	40, 68, 111, 175	0
1	JD	114/115 (99%)	1.09	18 (15%) 5 6	44, 67, 100, 129	0
1	JE	114/115 (99%)	0.39	7 (6%) 27 21	39, 66, 99, 114	0
1	JF	114/115 (99%)	0.57	4 (3%) 47 34	40, 68, 111, 175	0
1	JG	114/115 (99%)	0.44	5 (4%) 39 28	44, 67, 100, 129	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	JH	114/115 (99%)	0.41	9 (7%) 18 16	39, 66, 99, 114	0
1	JI	114/115 (99%)	0.62	11 (9%) 13 13	40, 68, 111, 175	0
1	JJ	114/115 (99%)	0.98	18 (15%) 5 6	44, 67, 100, 129	0
1	JK	114/115 (99%)	1.21	24 (21%) 2 4	39, 66, 99, 114	0
1	JL	114/115 (99%)	1.37	24 (21%) 2 4	40, 68, 111, 175	0
1	JM	114/115 (99%)	1.38	28 (24%) 2 3	44, 67, 100, 129	0
1	JN	114/115 (99%)	0.85	13 (11%) 10 10	39, 66, 99, 114	0
1	JO	114/115 (99%)	0.90	14 (12%) 8 9	40, 68, 111, 175	0
1	JP	114/115 (99%)	0.48	5 (4%) 39 28	44, 67, 100, 129	0
1	JQ	114/115 (99%)	0.77	12 (10%) 11 12	39, 66, 99, 114	0
1	JR	114/115 (99%)	0.53	5 (4%) 39 28	40, 68, 111, 175	0
1	JS	114/115 (99%)	0.16	3 (2%) 57 42	44, 67, 100, 129	0
1	JT	114/115 (99%)	0.50	5 (4%) 39 28	39, 66, 99, 114	0
1	JU	114/115 (99%)	0.56	7 (6%) 27 21	40, 68, 111, 175	0
1	JV	114/115 (99%)	0.72	7 (6%) 27 21	44, 67, 100, 129	0
1	JW	114/115 (99%)	0.52	9 (7%) 18 16	39, 66, 99, 114	0
1	JX	114/115 (99%)	0.44	2 (1%) 67 53	40, 68, 111, 175	0
1	JY	114/115 (99%)	0.75	9 (7%) 18 16	44, 67, 100, 129	0
1	JZ	114/115 (99%)	1.03	19 (16%) 4 6	39, 66, 99, 114	0
1	KA	114/115 (99%)	0.76	9 (7%) 18 16	40, 68, 111, 175	0
1	KB	114/115 (99%)	0.44	4 (3%) 47 34	44, 67, 100, 129	0
1	KC	114/115 (99%)	0.40	5 (4%) 39 28	39, 66, 99, 114	0
1	KD	114/115 (99%)	0.57	10 (8%) 15 14	40, 68, 111, 175	0
1	KE	114/115 (99%)	0.56	5 (4%) 39 28	44, 67, 100, 129	0
1	KF	114/115 (99%)	0.39	2 (1%) 67 53	39, 66, 99, 114	0
1	KG	114/115 (99%)	0.64	6 (5%) 32 24	40, 68, 111, 175	0
1	KH	114/115 (99%)	0.57	9 (7%) 18 16	44, 67, 100, 129	0
1	KI	114/115 (99%)	0.46	3 (2%) 57 42	39, 66, 99, 114	0
1	KJ	114/115 (99%)	0.48	4 (3%) 47 34	40, 68, 111, 175	0
All	All	30780/31050 (99%)	0.64	2280 (7%) 20 17	39, 67, 105, 175	0

The worst 5 of 2280 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	FT	85	ASP	8.8
1	DO	57	SER	8.3
1	HR	62	ALA	6.9
1	IF	114	THR	6.8
1	EB	62	ALA	6.7

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 oligosaccharides 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.