



wwPDB X-ray Structure Validation Summary Report

Feb 19, 2022 – 09:15 am GMT

PDB ID : 6YFT
Title : Virus-like particle of Wenzhou levi-like virus 1
Authors : Rumnieks, J.; Kalnins, G.; Sisovs, M.; Lieknina, I.; Tars, K.
Deposited on : 2020-03-26
Resolution : 3.50 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the  symbol.

The following versions of software and data (see [references](#) ) were used in the production of this report:

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.26
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0267
CCP4 : 7.1.010 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.26

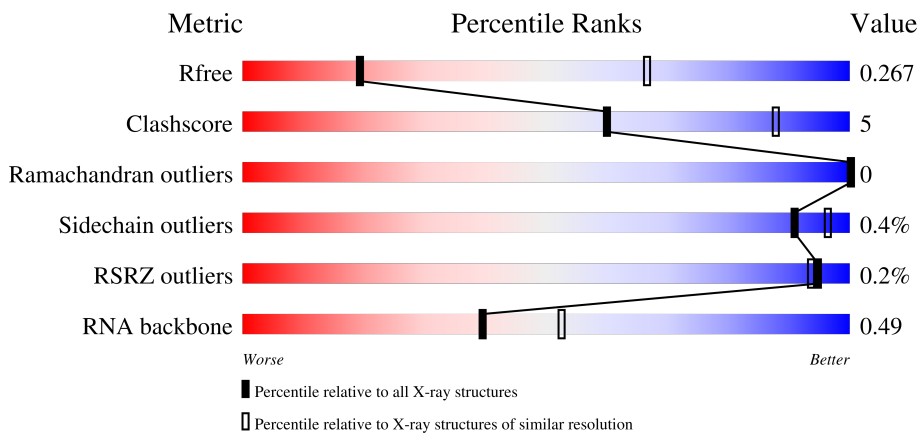
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.50 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1659 (3.60-3.40)
Clashscore	141614	1036 (3.58-3.42)
Ramachandran outliers	138981	1005 (3.58-3.42)
Sidechain outliers	138945	1006 (3.58-3.42)
RSRZ outliers	127900	1559 (3.60-3.40)
RNA backbone	3102	1002 (4.00-3.00)

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	113	
1	AB	113	
1	AC	113	
1	AD	113	











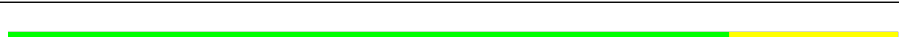


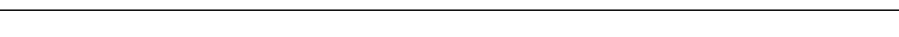
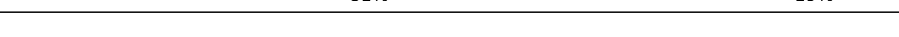
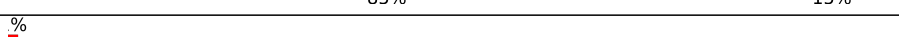


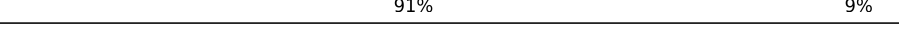
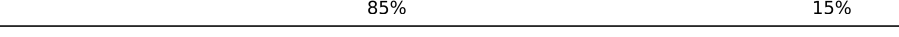





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Mol	Chain	Length	Quality of chain	
1	AE	113	94%	6%
1	AF	113	87%	13%
1	AG	113	89%	11%
1	AH	113	90%	10%
1	AI	113	84%	16%
1	AJ	113	88%	12%
1	AK	113	94%	6%
1	AL	113	83%	17%
1	AM	113	88%	12%
1	AN	113	93%	7%
1	AO	113	84%	16%
1	AP	113	88%	12%
1	AQ	113	92%	8%
1	AR	113	85%	15%
1	AS	113	87%	13%
1	AT	113	90%	10%
1	AU	113	88%	12%
1	AV	113	88%	12%
1	AW	113	91%	9%
1	AX	113	87%	13%
1	AY	113	88%	12%
1	AZ	113	88%	12%
1	BA	113	82%	18%
1	BB	113	82%	18%
1	BC	113	88%	12%


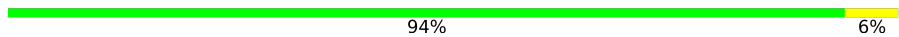








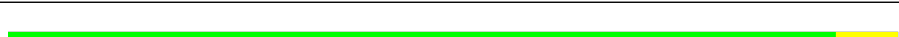


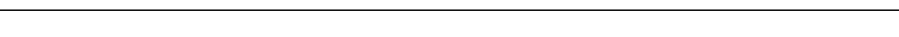
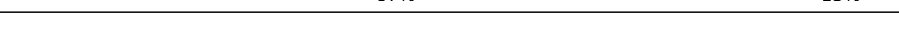
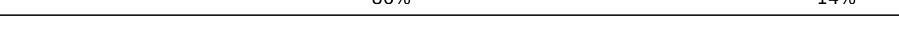



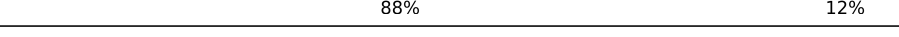





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Mol	Chain	Length	Quality of chain
1	BD	113	 88% 12%
1	BE	113	 87% 13%
1	BF	113	 92% 8%
1	BG	113	 86% 14%
1	BH	113	 86% 14%
1	BI	113	 89% 11%
1	BJ	113	 88% 12%
1	BK	113	 % 88% 12%
1	BL	113	 90% 10%
1	BM	113	 87% 13%
1	BN	113	 81% 19%
1	BO	113	 88% 12%
1	BP	113	 87% 13%
1	BQ	113	 81% 19%
1	BR	113	 85% 15%
1	BS	113	 % 86% 14%
1	BT	113	 89% 11%
1	BU	113	 91% 9%
1	BV	113	 85% 15%
1	BW	113	 88% 12%
1	BX	113	 91% 9%
1	BY	113	 % 87% 13%
1	BZ	113	 89% 11%
1	CA	113	 91% 9%
1	CB	113	 % 88% 12%



















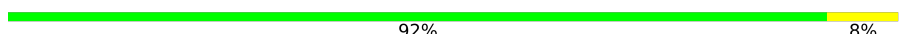






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Mol	Chain	Length	Quality of chain
1	CC	113	 87% 13%
1	CD	113	 94% 6%
1	CE	113	 87% 13%
1	CF	113	 88% 12%
1	CG	113	 93% 7%
1	CH	113	 86% 14%
1	CI	113	 88% 12%
1	CJ	113	 90% 10%
1	CK	113	 86% 14%
1	CL	113	 % 89% 11%
1	CM	113	 93% 7%
1	CN	113	 88% 12%
1	CO	113	 87% 13%
1	CP	113	 87% 13%
1	CQ	113	 86% 14%
1	CR	113	 90% 10%
1	CS	113	 90% 10%
1	CT	113	 % 85% 15%
1	CU	113	 88% 12%
1	CV	113	 90% 10%
1	CW	113	 88% 12%
1	CX	113	 % 81% 19%
1	CY	113	 90% 10%
1	CZ	113	 84% 16%
1	DA	113	 % 88% 12%












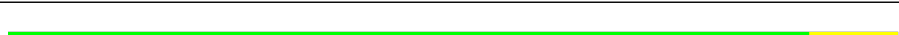

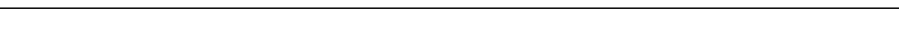
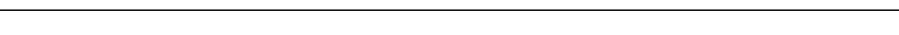
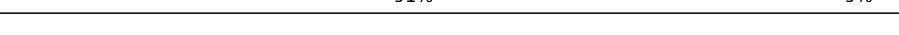

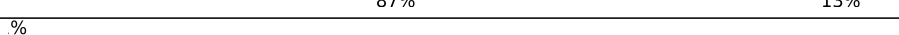







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Mol	Chain	Length	Quality of chain
1	DB	113	 90% 10%
1	DC	113	 87% 13%
1	DD	113	 88% 12%
1	DE	113	 89% 11%
1	DF	113	 86% 14%
1	DG	113	 90% 10%
1	DH	113	 90% 10%
1	DI	113	 84% 16%
1	DJ	113	 81% 19%
1	DK	113	 83% 17%
1	DL	113	 83% 17%
1	DM	113	 88% 12%
1	DN	113	 92% 8%
1	DO	113	 88% 12%
1	DP	113	 88% 12%
1	DQ	113	 91% 9%
1	DR	113	 87% 13%
1	DS	113	 89% 11%
1	DT	113	 92% 8%
1	DU	113	 86% 14%
1	DV	113	 89% 11%
1	DW	113	 91% 9%
1	DX	113	 87% 13%
1	DY	113	 88% 12%
1	DZ	113	 87% 13%

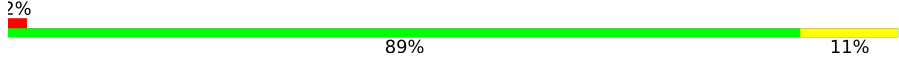



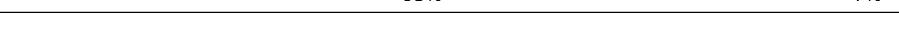
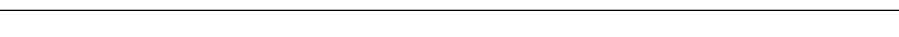
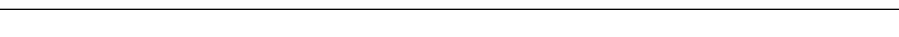



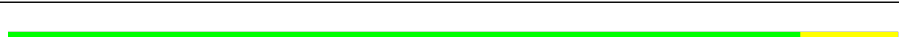

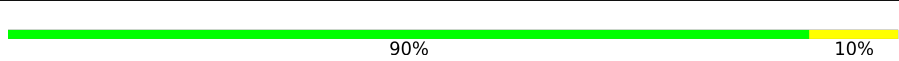


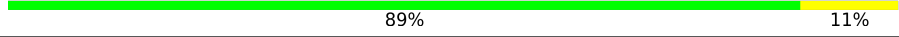

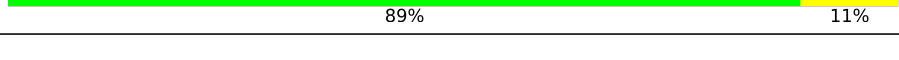







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Mol	Chain	Length	Quality of chain
1	EA	113	 86% 14%
1	EB	113	 88% 12%
1	EC	113	 86% 14%
1	ED	113	 87% 13%
1	EE	113	 88% 12%
1	EF	113	 92% 8%
1	EG	113	 % 88% 12%
1	EH	113	 88% 12%
1	EI	113	 90% 10%
1	EJ	113	 88% 12%
1	EK	113	 87% 13%
1	EL	113	 90% 10%
1	EM	113	 85% 15%
1	EN	113	 90% 10%
1	EO	113	 91% 9%
1	EP	113	 88% 12%
1	EQ	113	 87% 13%
1	ER	113	 % 89% 11%
1	ES	113	 85% 14%
1	ET	113	 89% 11%
1	EU	113	 90% 10%
1	EV	113	 88% 12%
1	EW	113	 % 86% 14%
1	EX	113	 88% 12%
1	EY	113	 % 88% 12%

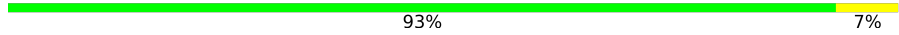





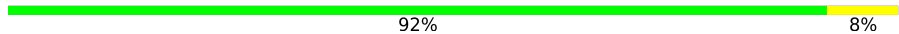


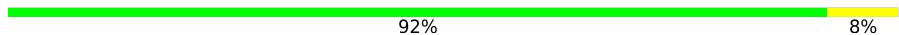








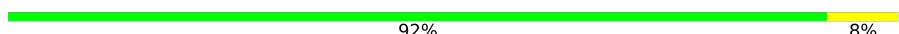






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Mol	Chain	Length	Quality of chain
1	EZ	113	 89% 11% 2%
1	FA	113	 91% 9%
1	FB	113	 88% 12%
1	FC	113	 88% 12% 2%
1	FD	113	 93% 7%
1	FE	113	 86% 14%
1	FF	113	 89% 11%
1	FG	113	 93% 7%
1	FH	113	 85% 15%
1	FI	113	 88% 12%
1	FJ	113	 90% 10%
1	FK	113	 89% 11%
1	FL	113	 88% 12% 2%
1	FM	113	 90% 10%
1	FN	113	 88% 12%
1	FO	113	 91% 9%
1	FP	113	 89% 11%
1	FQ	113	 88% 12% 2%
1	FR	113	 89% 11%
1	FS	113	 89% 11%
1	FT	113	 88% 12%
1	FU	113	 88% 12%
1	FV	113	 93% 7%
1	FW	113	 88% 12%
1	FX	113	 89% 11%


























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Mol	Chain	Length	Quality of chain
1	FY	113	 93% 7%
1	FZ	113	 86% 14%
1	GA	113	 89% 11%
1	GB	113	 89% 11%
1	GC	113	 87% 13%
1	GD	113	 87% 13%
1	GE	113	 92% 8%
1	GF	113	 86% 14%
1	GG	113	 88% 12%
1	GH	113	 92% 8%
1	GI	113	 88% 12%
1	GJ	113	 88% 12%
1	GK	113	 88% 12%
1	GL	113	 83% 17%
1	GM	113	 88% 12%
1	GN	113	 93% 7%
1	GO	113	 88% 12%
1	GP	113	 86% 14%
1	GQ	113	 92% 8%
1	GR	113	 87% 13%
1	GS	113	 90% 10%
1	GT	113	 91% 9%
1	GU	113	 84% 16%
1	GV	113	 88% 12%
1	GW	113	 89% 11%

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Mol	Chain	Length	Quality of chain
1	GX	113	 81% 19%
1	GY	113	 88% 12%
1	GZ	113	 91% 9%
1	HA	113	 82% 17%
1	HB	113	 89% 11%
1	HC	113	 91% 9%
1	HD	113	 87% 13%
1	HE	113	 84% 16%
1	HF	113	 91% 9%
1	HG	113	 89% 11%
1	HH	113	 87% 13%
1	HI	113	 86% 14%
1	HJ	113	 87% 13%
1	HK	113	 88% 12%
1	HL	113	 91% 9%
1	HM	113	 82% 18%
1	HN	113	 88% 12%
1	HO	113	 89% 11%
1	HP	113	 86% 14%
1	HQ	113	 90% 10%
1	HR	113	 91% 9%
1	HS	113	 88% 12%
1	HT	113	 89% 11%
1	HU	113	 92% 8%
1	HV	113	 87% 13%

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Mol	Chain	Length	Quality of chain
1	HW	113	88% 12%
1	HX	113	91% 9%
1	HY	113	88% 12%
1	HZ	113	88% 12%
1	IA	113	93% 7%
1	IB	113	84% 16%
1	IC	113	83% 17%
1	ID	113	84% 16%
1	IE	113	84% 16%
1	IF	113	90% 10%
1	IG	113	91% 9%
1	IH	113	85% 15%
1	II	113	87% 13%
1	IJ	113	88% 12%
1	IK	113	86% 14%
1	IL	113	89% 11%
1	IM	113	93% 7%
1	IN	113	86% 14%
1	IO	113	89% 11%
1	IP	113	91% 9%
1	IQ	113	84% 16%
1	IR	113	87% 13%
1	IS	113	90% 10%
1	IT	113	85% 15%
1	IU	113	89% 11%

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Mol	Chain	Length	Quality of chain
1	IV	113	90% 10%
1	IW	113	87% 13%
1	IX	113	88% 12%
1	IY	113	90% 10%
1	IZ	113	86% 14%
1	JA	113	88% 12%
1	JB	113	93% 7%
1	JC	113	85% 15%
1	JD	113	88% 12%
1	JE	113	87% 13%
1	JF	113	87% 13%
1	JG	113	89% 11%
1	JH	113	90% 10%
1	JI	113	84% 16%
1	JJ	113	85% 15%
1	JK	113	90% 10%
1	JL	113	87% 13%
1	JM	113	88% 12%
1	JN	113	88% 12%
1	JO	113	85% 15%
1	JP	113	89% 11%
1	JQ	113	92% 8%
1	JR	113	88% 12%
1	JS	113	88% 12%
1	JT	113	91% 9%

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Mol	Chain	Length	Quality of chain
1	JU	113	87% 13%
1	JV	113	89% 11%
1	JW	113	92% 8%
1	JX	113	87% 13%
1	JY	113	88% 12%
1	JZ	113	93% 7%
1	KA	113	87% 13%
1	KB	113	88% 12%
1	KC	113	92% 8%
1	KD	113	86% 14%
1	KE	113	88% 12%
1	KF	113	89% 11%
1	KG	113	87% 13%
1	KH	113	86% 14%
1	KI	113	91% 9%
1	KJ	113	85% 15%
1	KK	113	88% 12%
1	KL	113	92% 8%
1	KM	113	81% 19%
1	KN	113	88% 12%
1	KO	113	92% 8%
1	KP	113	88% 12%
1	KQ	113	88% 12%
1	KR	113	89% 11%
1	KS	113	88% 12%

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Mol	Chain	Length	Quality of chain
1	KT	113	88% 12%
1	KU	113	90% 10%
1	KV	113	86% 14%
1	KW	113	84% 16%
1	KX	113	92% 8%
1	KY	113	83% 17%
1	KZ	113	88% 12%
1	LA	113	93% 7%
1	LB	113	86% 14%
1	LC	113	86% 14%
1	LD	113	92% 8%
1	LE	113	88% 12%
1	LF	113	87% 13%
1	LG	113	92% 8%
1	LH	113	88% 12%
1	LI	113	88% 12%
1	LJ	113	93% 7%
1	LK	113	89% 11%
1	LL	113	88% 12%
1	LM	113	90% 10%
1	LN	113	85% 15%
1	LO	113	88% 12%
1	LP	113	92% 8%
1	LQ	113	83% 17%
1	LR	113	86% 14%



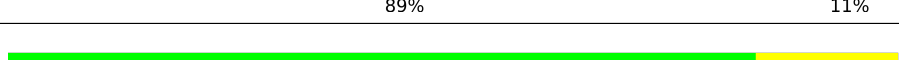
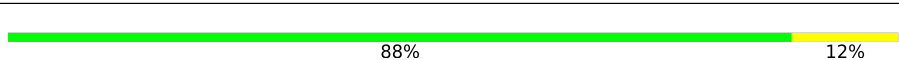
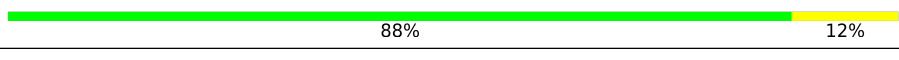

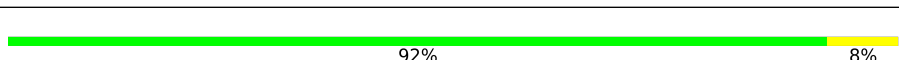
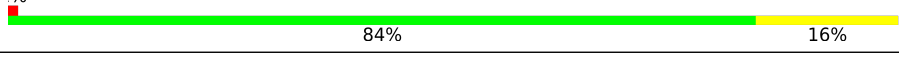
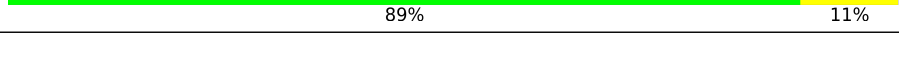
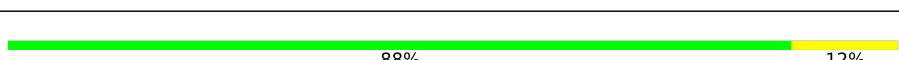
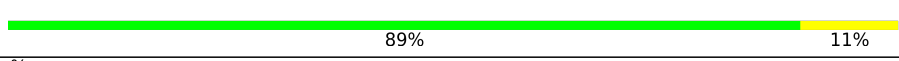
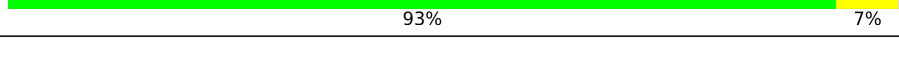



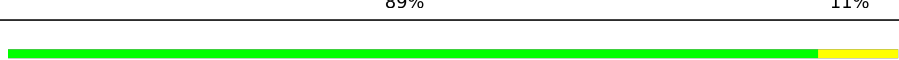


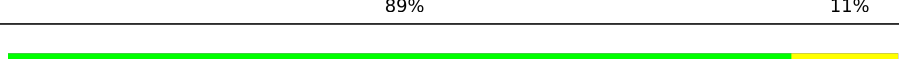



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Mol	Chain	Length	Quality of chain
1	LS	113	87% 13%
1	LT	113	83% 17%
1	LU	113	88% 12%
1	LV	113	92% 8%
1	LW	113	86% 14%
1	LX	113	89% 11%
1	LY	113	89% 11%
1	LZ	113	87% 13%
1	MA	113	89% 11%
1	MB	113	93% 7%
1	MC	113	82% 18%
1	MD	113	88% 12%
1	ME	113	88% 12%
1	MF	113	86% 14%
1	MG	113	88% 12%
1	MH	113	91% 9%
1	MI	113	87% 13%
1	MJ	113	87% 13%
1	MK	113	89% 11%
1	ML	113	85% 15%
1	MM	113	79% 21%
1	MN	113	87% 13%
1	MO	113	85% 15%
1	MP	113	88% 12%
1	MQ	113	90% 10%

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Mol	Chain	Length	Quality of chain
1	MR	113	 % 85% 15%
1	MS	113	 % 85% 15%
1	MT	113	 % 89% 11%
1	MU	113	 % 84% 16%
1	MV	113	 % 88% 12%
1	MW	113	 % 88% 12%
1	MX	113	 % 88% 12%
1	MY	113	 % 88% 12%
1	MZ	113	 % 92% 8%
1	NA	113	 % 84% 16%
1	NB	113	 % 89% 11%
1	NC	113	 % 92% 8%
1	ND	113	 % 88% 12%
1	NE	113	 % 89% 11%
1	NF	113	 % 93% 7%
1	NG	113	 % 87% 13%
1	NH	113	 % 89% 11%
1	NI	113	 % 89% 11%
1	NJ	113	 % 88% 12%
1	NK	113	 % 89% 11%
1	NL	113	 % 91% 9%
1	NM	113	 % 88% 12%
1	NN	113	% 88% 12%
1	NO	113	% 89% 11%
1	NP	113	% 88% 12%


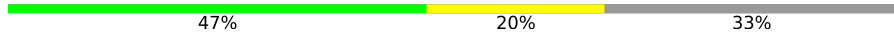
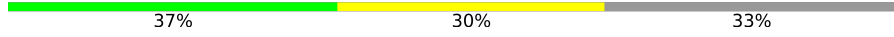

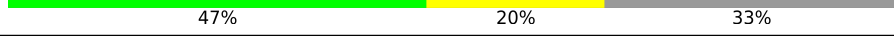
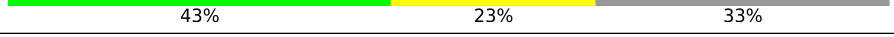
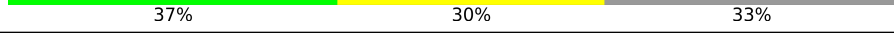

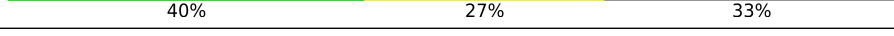

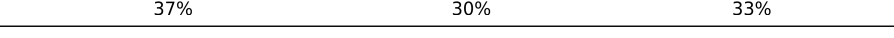
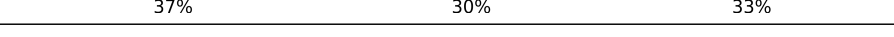

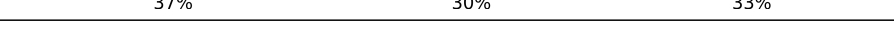

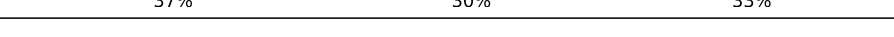
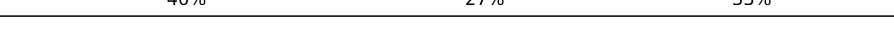
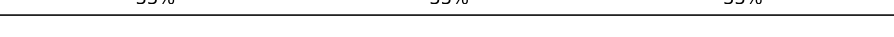
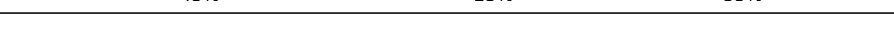




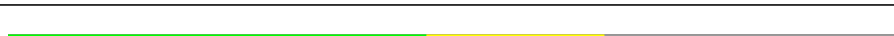

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Mol	Chain	Length	Quality of chain		
1	NQ	113			
1	NR	113			
1	NS	113			
1	NT	113			
1	NU	113			
1	NV	113			
2	RA	30		40%	27%
2	RB	30		37%	30%
2	RC	30		50%	17%
2	RD	30		50%	17%
2	RE	30		47%	20%
2	RF	30		40%	27%
2	RG	30		43%	23%
2	RH	30		47%	20%
2	RI	30		33%	33%
2	RJ	30		40%	27%
2	RK	30		40%	27%
2	RL	30		40%	27%
2	RM	30		50%	17%
2	RN	30		47%	20%
2	RO	30		40%	27%
2	RP	30		47%	20%
2	RQ	30		47%	20%
2	RR	30		43%	23%
2	RS	30		43%	23%

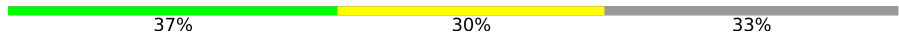
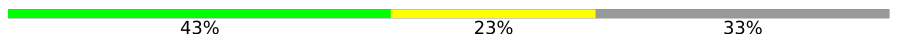
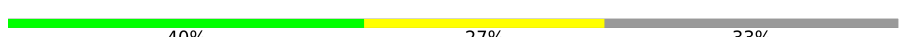
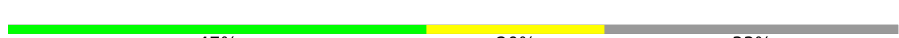
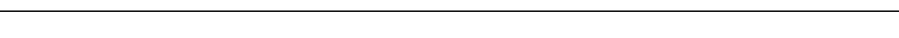
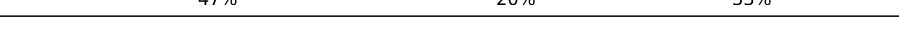
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Mol	Chain	Length	Quality of chain
2	RT	30	
2	RU	30	
2	RV	30	
2	RW	30	
2	RX	30	
2	RY	30	
2	RZ	30	
2	SA	30	
2	SB	30	
2	SC	30	
2	SD	30	
2	SE	30	
2	SF	30	
2	SG	30	
2	SH	30	
2	SI	30	
2	SJ	30	
2	SK	30	
2	SL	30	
2	SM	30	
2	SN	30	
2	SO	30	
2	SP	30	
2	SQ	30	
2	SR	30	

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Mol	Chain	Length	Quality of chain
2	SS	30	 37% 30% 33%
2	ST	30	 43% 23% 33%
2	SU	30	 43% 23% 33%
2	SV	30	 47% 20% 33%
2	SW	30	 40% 27% 33%
2	SX	30	 40% 27% 33%
2	SY	30	 43% 23% 33%
2	SZ	30	 47% 20% 33%
2	TA	30	 47% 20% 33%
2	TB	30	 43% 23% 33%
2	TC	30	 43% 23% 33%
2	TD	30	 43% 23% 33%
2	TE	30	 37% 30% 33%
2	TF	30	 47% 20% 33%
2	TG	30	 47% 20% 33%
2	TH	30	 37% 30% 33%

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 327240 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
			Total	C	N	O	S			
1	AA	113	839	529	146	163	1	0	0	0
1	AB	113	839	529	146	163	1	0	0	0
1	AC	113	839	529	146	163	1	0	0	0
1	AD	113	839	529	146	163	1	0	0	0
1	AE	113	839	529	146	163	1	0	0	0
1	AF	113	839	529	146	163	1	0	0	0
1	AG	113	839	529	146	163	1	0	0	0
1	AH	113	839	529	146	163	1	0	0	0
1	AI	113	839	529	146	163	1	0	0	0
1	AJ	113	839	529	146	163	1	0	0	0
1	AK	113	839	529	146	163	1	0	0	0
1	AL	113	839	529	146	163	1	0	0	0
1	AM	113	839	529	146	163	1	0	0	0
1	AN	113	839	529	146	163	1	0	0	0
1	AO	113	839	529	146	163	1	0	0	0
1	AP	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	AQ	113	839	529	146	163	1	0	0	0
1	AR	113	839	529	146	163	1	0	0	0
1	AS	113	839	529	146	163	1	0	0	0
1	AT	113	839	529	146	163	1	0	0	0
1	AU	113	839	529	146	163	1	0	0	0
1	AV	113	839	529	146	163	1	0	0	0
1	AW	113	839	529	146	163	1	0	0	0
1	AX	113	839	529	146	163	1	0	0	0
1	AY	113	839	529	146	163	1	0	0	0
1	AZ	113	839	529	146	163	1	0	0	0
1	BA	113	839	529	146	163	1	0	0	0
1	BB	113	839	529	146	163	1	0	0	0
1	BC	113	839	529	146	163	1	0	0	0
1	BD	113	839	529	146	163	1	0	0	0
1	BE	113	839	529	146	163	1	0	0	0
1	BF	113	839	529	146	163	1	0	0	0
1	BG	113	839	529	146	163	1	0	0	0
1	BH	113	839	529	146	163	1	0	0	0
1	BI	113	839	529	146	163	1	0	0	0
1	BJ	113	839	529	146	163	1	0	0	0
1	BK	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	BL	113	839	529	146	163	1	0	0	0
1	BM	113	839	529	146	163	1	0	0	0
1	BN	113	839	529	146	163	1	0	0	0
1	BO	113	839	529	146	163	1	0	0	0
1	BP	113	839	529	146	163	1	0	0	0
1	BQ	113	839	529	146	163	1	0	0	0
1	BR	113	839	529	146	163	1	0	0	0
1	BS	113	839	529	146	163	1	0	0	0
1	BT	113	839	529	146	163	1	0	0	0
1	BU	113	839	529	146	163	1	0	0	0
1	BV	113	839	529	146	163	1	0	0	0
1	BW	113	839	529	146	163	1	0	0	0
1	BX	113	839	529	146	163	1	0	0	0
1	BY	113	839	529	146	163	1	0	0	0
1	BZ	113	839	529	146	163	1	0	0	0
1	CA	113	839	529	146	163	1	0	0	0
1	CB	113	839	529	146	163	1	0	0	0
1	CC	113	839	529	146	163	1	0	0	0
1	CD	113	839	529	146	163	1	0	0	0
1	CE	113	839	529	146	163	1	0	0	0
1	CF	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	CG	113	839	529	146	163	1	0	0	0
1	CH	113	839	529	146	163	1	0	0	0
1	CI	113	839	529	146	163	1	0	0	0
1	CJ	113	839	529	146	163	1	0	0	0
1	CK	113	839	529	146	163	1	0	0	0
1	CL	113	839	529	146	163	1	0	0	0
1	CM	113	839	529	146	163	1	0	0	0
1	CN	113	839	529	146	163	1	0	0	0
1	CO	113	839	529	146	163	1	0	0	0
1	CP	113	839	529	146	163	1	0	0	0
1	CQ	113	839	529	146	163	1	0	0	0
1	CR	113	839	529	146	163	1	0	0	0
1	CS	113	839	529	146	163	1	0	0	0
1	CT	113	839	529	146	163	1	0	0	0
1	CU	113	839	529	146	163	1	0	0	0
1	CV	113	839	529	146	163	1	0	0	0
1	CW	113	839	529	146	163	1	0	0	0
1	CX	113	839	529	146	163	1	0	0	0
1	CY	113	839	529	146	163	1	0	0	0
1	CZ	113	839	529	146	163	1	0	0	0
1	DA	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	DB	113	839	529	146	163	1	0	0	0
1	DC	113	839	529	146	163	1	0	0	0
1	DD	113	839	529	146	163	1	0	0	0
1	DE	113	839	529	146	163	1	0	0	0
1	DF	113	839	529	146	163	1	0	0	0
1	DG	113	839	529	146	163	1	0	0	0
1	DH	113	839	529	146	163	1	0	0	0
1	DI	113	839	529	146	163	1	0	0	0
1	DJ	113	839	529	146	163	1	0	0	0
1	DK	113	839	529	146	163	1	0	0	0
1	DL	113	839	529	146	163	1	0	0	0
1	DM	113	839	529	146	163	1	0	0	0
1	DN	113	839	529	146	163	1	0	0	0
1	DO	113	839	529	146	163	1	0	0	0
1	DP	113	839	529	146	163	1	0	0	0
1	DQ	113	839	529	146	163	1	0	0	0
1	DR	113	839	529	146	163	1	0	0	0
1	DS	113	839	529	146	163	1	0	0	0
1	DT	113	839	529	146	163	1	0	0	0
1	DU	113	839	529	146	163	1	0	0	0
1	DV	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	DW	113	839	529	146	163	1	0	0	0
1	DX	113	839	529	146	163	1	0	0	0
1	DY	113	839	529	146	163	1	0	0	0
1	DZ	113	839	529	146	163	1	0	0	0
1	EA	113	839	529	146	163	1	0	0	0
1	EB	113	839	529	146	163	1	0	0	0
1	EC	113	839	529	146	163	1	0	0	0
1	ED	113	839	529	146	163	1	0	0	0
1	EE	113	839	529	146	163	1	0	0	0
1	EF	113	839	529	146	163	1	0	0	0
1	EG	113	839	529	146	163	1	0	0	0
1	EH	113	839	529	146	163	1	0	0	0
1	EI	113	839	529	146	163	1	0	0	0
1	EJ	113	839	529	146	163	1	0	0	0
1	EK	113	839	529	146	163	1	0	0	0
1	EL	113	839	529	146	163	1	0	0	0
1	EM	113	839	529	146	163	1	0	0	0
1	EN	113	839	529	146	163	1	0	0	0
1	EO	113	839	529	146	163	1	0	0	0
1	EP	113	839	529	146	163	1	0	0	0
1	EQ	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	ER	113	839	529	146	163	1	0	0	0
1	ES	113	839	529	146	163	1	0	0	0
1	ET	113	839	529	146	163	1	0	0	0
1	EU	113	839	529	146	163	1	0	0	0
1	EV	113	839	529	146	163	1	0	0	0
1	EW	113	839	529	146	163	1	0	0	0
1	EX	113	839	529	146	163	1	0	0	0
1	EY	113	839	529	146	163	1	0	0	0
1	EZ	113	839	529	146	163	1	0	0	0
1	FA	113	839	529	146	163	1	0	0	0
1	FB	113	839	529	146	163	1	0	0	0
1	FC	113	839	529	146	163	1	0	0	0
1	FD	113	839	529	146	163	1	0	0	0
1	FE	113	839	529	146	163	1	0	0	0
1	FF	113	839	529	146	163	1	0	0	0
1	FG	113	839	529	146	163	1	0	0	0
1	FH	113	839	529	146	163	1	0	0	0
1	FI	113	839	529	146	163	1	0	0	0
1	FJ	113	839	529	146	163	1	0	0	0
1	FK	113	839	529	146	163	1	0	0	0
1	FL	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	FM	113	839	529	146	163	1	0	0	0
1	FN	113	839	529	146	163	1	0	0	0
1	FO	113	839	529	146	163	1	0	0	0
1	FP	113	839	529	146	163	1	0	0	0
1	FQ	113	839	529	146	163	1	0	0	0
1	FR	113	839	529	146	163	1	0	0	0
1	FS	113	839	529	146	163	1	0	0	0
1	FT	113	839	529	146	163	1	0	0	0
1	FU	113	839	529	146	163	1	0	0	0
1	FV	113	839	529	146	163	1	0	0	0
1	FW	113	839	529	146	163	1	0	0	0
1	FX	113	839	529	146	163	1	0	0	0
1	FY	113	839	529	146	163	1	0	0	0
1	FZ	113	839	529	146	163	1	0	0	0
1	GA	113	839	529	146	163	1	0	0	0
1	GB	113	839	529	146	163	1	0	0	0
1	GC	113	839	529	146	163	1	0	0	0
1	GD	113	839	529	146	163	1	0	0	0
1	GE	113	839	529	146	163	1	0	0	0
1	GF	113	839	529	146	163	1	0	0	0
1	GG	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	GH	113	839	529	146	163	1	0	0	0
1	GI	113	839	529	146	163	1	0	0	0
1	GJ	113	839	529	146	163	1	0	0	0
1	GK	113	839	529	146	163	1	0	0	0
1	GL	113	839	529	146	163	1	0	0	0
1	GM	113	839	529	146	163	1	0	0	0
1	GN	113	839	529	146	163	1	0	0	0
1	GO	113	839	529	146	163	1	0	0	0
1	GP	113	839	529	146	163	1	0	0	0
1	GQ	113	839	529	146	163	1	0	0	0
1	GR	113	839	529	146	163	1	0	0	0
1	GS	113	839	529	146	163	1	0	0	0
1	GT	113	839	529	146	163	1	0	0	0
1	GU	113	839	529	146	163	1	0	0	0
1	GV	113	839	529	146	163	1	0	0	0
1	GW	113	839	529	146	163	1	0	0	0
1	GX	113	839	529	146	163	1	0	0	0
1	GY	113	839	529	146	163	1	0	0	0
1	GZ	113	839	529	146	163	1	0	0	0
1	HA	113	839	529	146	163	1	0	0	0
1	HB	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	HC	113	839	529	146	163	1	0	0	0
1	HD	113	839	529	146	163	1	0	0	0
1	HE	113	839	529	146	163	1	0	0	0
1	HF	113	839	529	146	163	1	0	0	0
1	HG	113	839	529	146	163	1	0	0	0
1	HH	113	839	529	146	163	1	0	0	0
1	HI	113	839	529	146	163	1	0	0	0
1	HJ	113	839	529	146	163	1	0	0	0
1	HK	113	839	529	146	163	1	0	0	0
1	HL	113	839	529	146	163	1	0	0	0
1	HM	113	839	529	146	163	1	0	0	0
1	HN	113	839	529	146	163	1	0	0	0
1	HO	113	839	529	146	163	1	0	0	0
1	HP	113	839	529	146	163	1	0	0	0
1	HQ	113	839	529	146	163	1	0	0	0
1	HR	113	839	529	146	163	1	0	0	0
1	HS	113	839	529	146	163	1	0	0	0
1	HT	113	839	529	146	163	1	0	0	0
1	HU	113	839	529	146	163	1	0	0	0
1	HV	113	839	529	146	163	1	0	0	0
1	HW	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	HX	113	839	529	146	163	1	0	0	0
1	HY	113	839	529	146	163	1	0	0	0
1	HZ	113	839	529	146	163	1	0	0	0
1	IA	113	839	529	146	163	1	0	0	0
1	IB	113	839	529	146	163	1	0	0	0
1	IC	113	839	529	146	163	1	0	0	0
1	ID	113	839	529	146	163	1	0	0	0
1	IE	113	839	529	146	163	1	0	0	0
1	IF	113	839	529	146	163	1	0	0	0
1	IG	113	839	529	146	163	1	0	0	0
1	IH	113	839	529	146	163	1	0	0	0
1	II	113	839	529	146	163	1	0	0	0
1	IJ	113	839	529	146	163	1	0	0	0
1	IK	113	839	529	146	163	1	0	0	0
1	IL	113	839	529	146	163	1	0	0	0
1	IM	113	839	529	146	163	1	0	0	0
1	IN	113	839	529	146	163	1	0	0	0
1	IO	113	839	529	146	163	1	0	0	0
1	IP	113	839	529	146	163	1	0	0	0
1	IQ	113	839	529	146	163	1	0	0	0
1	IR	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	IS	113	839	529	146	163	1	0	0	0
1	IT	113	839	529	146	163	1	0	0	0
1	IU	113	839	529	146	163	1	0	0	0
1	IV	113	839	529	146	163	1	0	0	0
1	IW	113	839	529	146	163	1	0	0	0
1	IX	113	839	529	146	163	1	0	0	0
1	IY	113	839	529	146	163	1	0	0	0
1	IZ	113	839	529	146	163	1	0	0	0
1	JA	113	839	529	146	163	1	0	0	0
1	JB	113	839	529	146	163	1	0	0	0
1	JC	113	839	529	146	163	1	0	0	0
1	JD	113	839	529	146	163	1	0	0	0
1	JE	113	839	529	146	163	1	0	0	0
1	JF	113	839	529	146	163	1	0	0	0
1	JG	113	839	529	146	163	1	0	0	0
1	JH	113	839	529	146	163	1	0	0	0
1	JI	113	839	529	146	163	1	0	0	0
1	JJ	113	839	529	146	163	1	0	0	0
1	JK	113	839	529	146	163	1	0	0	0
1	JL	113	839	529	146	163	1	0	0	0
1	JM	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	JN	113	839	529	146	163	1	0	0	0
1	JO	113	839	529	146	163	1	0	0	0
1	JP	113	839	529	146	163	1	0	0	0
1	JQ	113	839	529	146	163	1	0	0	0
1	JR	113	839	529	146	163	1	0	0	0
1	JS	113	839	529	146	163	1	0	0	0
1	JT	113	839	529	146	163	1	0	0	0
1	JU	113	839	529	146	163	1	0	0	0
1	JV	113	839	529	146	163	1	0	0	0
1	JW	113	839	529	146	163	1	0	0	0
1	JX	113	839	529	146	163	1	0	0	0
1	JY	113	839	529	146	163	1	0	0	0
1	JZ	113	839	529	146	163	1	0	0	0
1	KA	113	839	529	146	163	1	0	0	0
1	KB	113	839	529	146	163	1	0	0	0
1	KC	113	839	529	146	163	1	0	0	0
1	KD	113	839	529	146	163	1	0	0	0
1	KE	113	839	529	146	163	1	0	0	0
1	KF	113	839	529	146	163	1	0	0	0
1	KG	113	839	529	146	163	1	0	0	0
1	KH	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	KI	113	839	529	146	163	1	0	0	0
1	KJ	113	839	529	146	163	1	0	0	0
1	KK	113	839	529	146	163	1	0	0	0
1	KL	113	839	529	146	163	1	0	0	0
1	KM	113	839	529	146	163	1	0	0	0
1	KN	113	839	529	146	163	1	0	0	0
1	KO	113	839	529	146	163	1	0	0	0
1	KP	113	839	529	146	163	1	0	0	0
1	KQ	113	839	529	146	163	1	0	0	0
1	KR	113	839	529	146	163	1	0	0	0
1	KS	113	839	529	146	163	1	0	0	0
1	KT	113	839	529	146	163	1	0	0	0
1	KU	113	839	529	146	163	1	0	0	0
1	KV	113	839	529	146	163	1	0	0	0
1	KW	113	839	529	146	163	1	0	0	0
1	KX	113	839	529	146	163	1	0	0	0
1	KY	113	839	529	146	163	1	0	0	0
1	KZ	113	839	529	146	163	1	0	0	0
1	LA	113	839	529	146	163	1	0	0	0
1	LB	113	839	529	146	163	1	0	0	0
1	LC	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	LD	113	839	529	146	163	1	0	0	0
1	LE	113	839	529	146	163	1	0	0	0
1	LF	113	839	529	146	163	1	0	0	0
1	LG	113	839	529	146	163	1	0	0	0
1	LH	113	839	529	146	163	1	0	0	0
1	LI	113	839	529	146	163	1	0	0	0
1	LJ	113	839	529	146	163	1	0	0	0
1	LK	113	839	529	146	163	1	0	0	0
1	LL	113	839	529	146	163	1	0	0	0
1	LM	113	839	529	146	163	1	0	0	0
1	LN	113	839	529	146	163	1	0	0	0
1	LO	113	839	529	146	163	1	0	0	0
1	LP	113	839	529	146	163	1	0	0	0
1	LQ	113	839	529	146	163	1	0	0	0
1	LR	113	839	529	146	163	1	0	0	0
1	LS	113	839	529	146	163	1	0	0	0
1	LT	113	839	529	146	163	1	0	0	0
1	LU	113	839	529	146	163	1	0	0	0
1	LV	113	839	529	146	163	1	0	0	0
1	LW	113	839	529	146	163	1	0	0	0
1	LX	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	LY	113	839	529	146	163	1	0	0	0
1	LZ	113	839	529	146	163	1	0	0	0
1	MA	113	839	529	146	163	1	0	0	0
1	MB	113	839	529	146	163	1	0	0	0
1	MC	113	839	529	146	163	1	0	0	0
1	MD	113	839	529	146	163	1	0	0	0
1	ME	113	839	529	146	163	1	0	0	0
1	MF	113	839	529	146	163	1	0	0	0
1	MG	113	839	529	146	163	1	0	0	0
1	MH	113	839	529	146	163	1	0	0	0
1	MI	113	839	529	146	163	1	0	0	0
1	MJ	113	839	529	146	163	1	0	0	0
1	MK	113	839	529	146	163	1	0	0	0
1	ML	113	839	529	146	163	1	0	0	0
1	MM	113	839	529	146	163	1	0	0	0
1	MN	113	839	529	146	163	1	0	0	0
1	MO	113	839	529	146	163	1	0	0	0
1	MP	113	839	529	146	163	1	0	0	0
1	MQ	113	839	529	146	163	1	0	0	0
1	MR	113	839	529	146	163	1	0	0	0
1	MS	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	MT	113	839	529	146	163	1	0	0	0
1	MU	113	839	529	146	163	1	0	0	0
1	MV	113	839	529	146	163	1	0	0	0
1	MW	113	839	529	146	163	1	0	0	0
1	MX	113	839	529	146	163	1	0	0	0
1	MY	113	839	529	146	163	1	0	0	0
1	MZ	113	839	529	146	163	1	0	0	0
1	NA	113	839	529	146	163	1	0	0	0
1	NB	113	839	529	146	163	1	0	0	0
1	NC	113	839	529	146	163	1	0	0	0
1	ND	113	839	529	146	163	1	0	0	0
1	NE	113	839	529	146	163	1	0	0	0
1	NF	113	839	529	146	163	1	0	0	0
1	NG	113	839	529	146	163	1	0	0	0
1	NH	113	839	529	146	163	1	0	0	0
1	NI	113	839	529	146	163	1	0	0	0
1	NJ	113	839	529	146	163	1	0	0	0
1	NK	113	839	529	146	163	1	0	0	0
1	NL	113	839	529	146	163	1	0	0	0
1	NM	113	839	529	146	163	1	0	0	0
1	NN	113	839	529	146	163	1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	NO	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	NP	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	NQ	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	NR	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	NS	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	NT	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	NU	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	NV	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			

- Molecule 2 is a RNA chain called RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	RA	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RB	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RC	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RD	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RE	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RF	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RG	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RH	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RI	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RJ	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RK	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	RL	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RM	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RN	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RO	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RP	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RQ	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RR	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RS	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RT	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RU	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RV	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RW	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RX	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RY	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	RZ	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SA	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SB	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SC	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SD	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SE	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SF	20	Total 420	C 190	N 70	O 140	P 20	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	SG	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SH	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SI	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SJ	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SK	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SL	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SM	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SN	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SO	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SP	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SQ	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SR	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SS	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	ST	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SU	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SV	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SW	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SX	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SY	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	SZ	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	TA	20	Total 420	C 190	N 70	O 140	P 20	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	TB	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	TC	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	TD	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	TE	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	TF	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	TG	20	Total 420	C 190	N 70	O 140	P 20	0	0	0
2	TH	20	Total 420	C 190	N 70	O 140	P 20	0	0	0

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: coat protein

Chain AA:  87% 13%



- Molecule 1: coat protein

Chain AB:  92% 8%




- Molecule 1: coat protein

Chain AC:  89% 11%



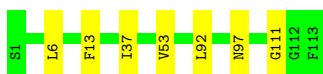
- Molecule 1: coat protein

Chain AD:  88% 12%




- Molecule 1: coat protein

Chain AE:  94% 6%



- Molecule 1: coat protein

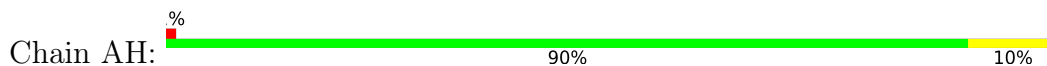
Chain AF:  87% 13%



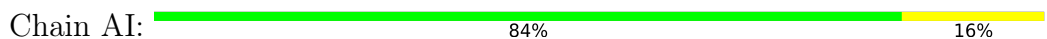
- Molecule 1: coat protein



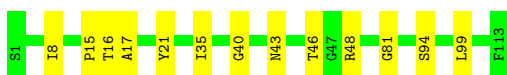
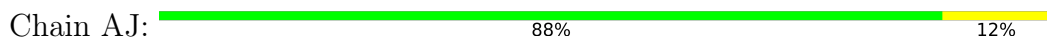
- Molecule 1: coat protein



- Molecule 1: coat protein



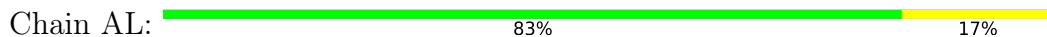
- Molecule 1: coat protein



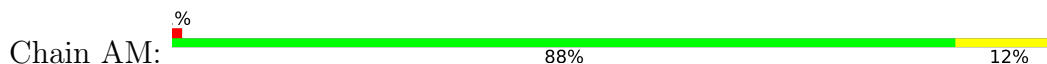
- Molecule 1: coat protein

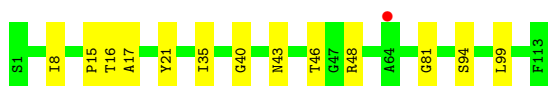


- Molecule 1: coat protein



- Molecule 1: coat protein





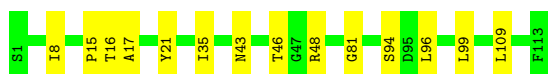
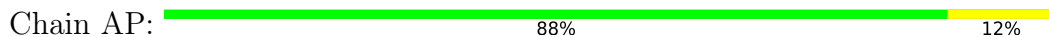
- Molecule 1: coat protein



- Molecule 1: coat protein



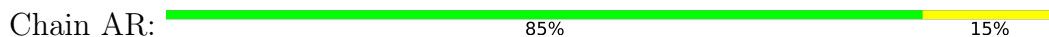
- Molecule 1: coat protein



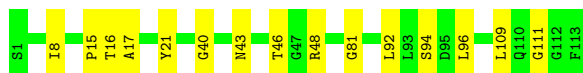
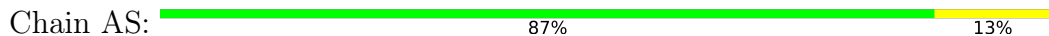
- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein

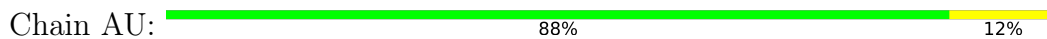


- Molecule 1: coat protein

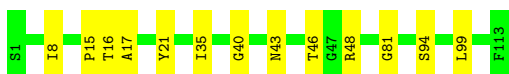
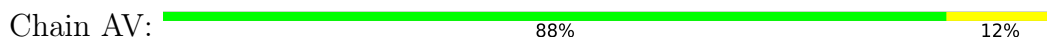




- Molecule 1: coat protein



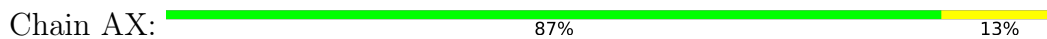
- Molecule 1: coat protein



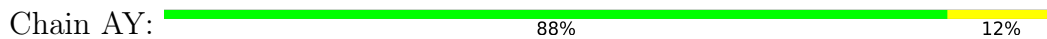
- Molecule 1: coat protein



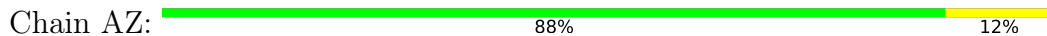
- Molecule 1: coat protein



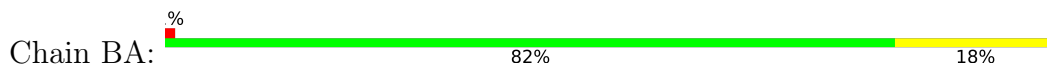
- Molecule 1: coat protein

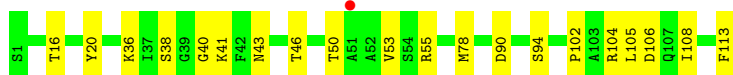


- Molecule 1: coat protein

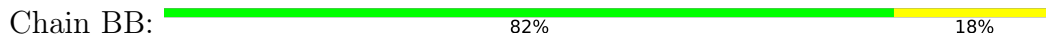


- Molecule 1: coat protein

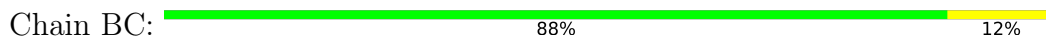




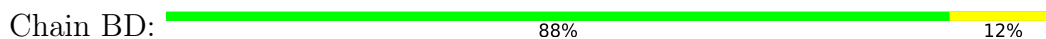
- Molecule 1: coat protein



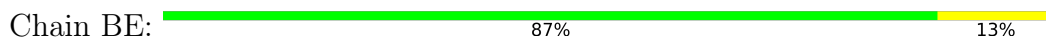
- Molecule 1: coat protein



- Molecule 1: coat protein



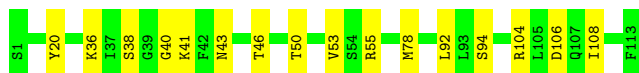
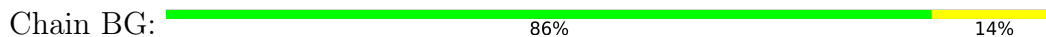
- Molecule 1: coat protein



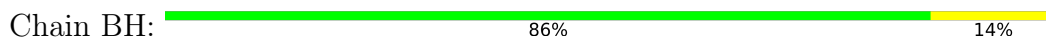
- Molecule 1: coat protein



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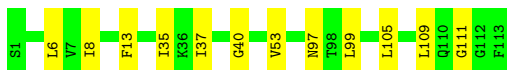
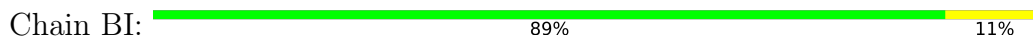


- Molecule 1: coat protein

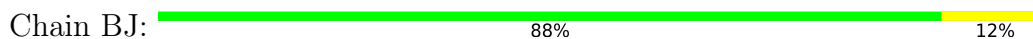




- Molecule 1: coat protein



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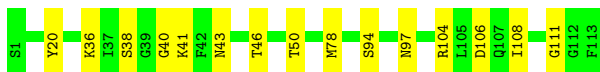
- Molecule 1: coat protein



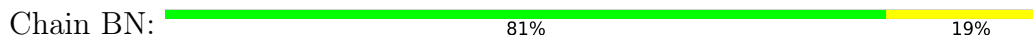
- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein

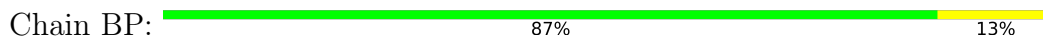


- Molecule 1: coat protein

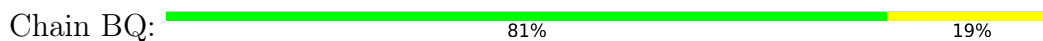




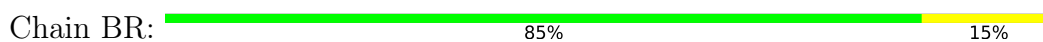
- Molecule 1: coat protein



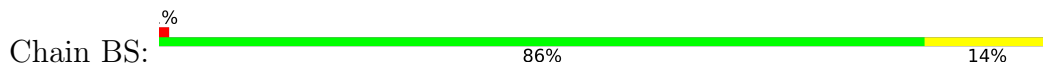
- Molecule 1: coat protein



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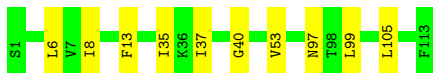
- Molecule 1: coat protein



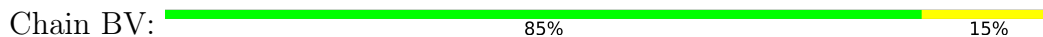
- Molecule 1: coat protein



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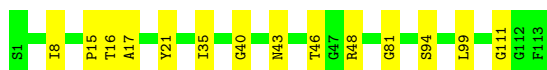


- Molecule 1: coat protein





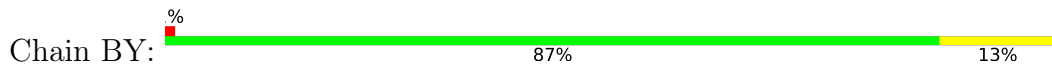
- Molecule 1: coat protein



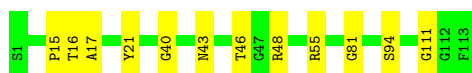
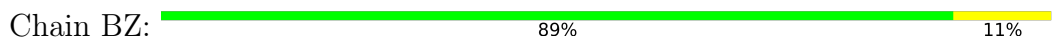
- Molecule 1: coat protein



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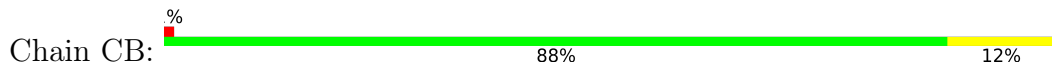
- Molecule 1: coat protein



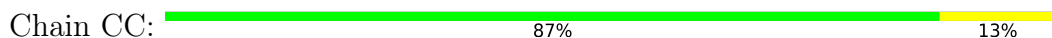
- Molecule 1: coat protein

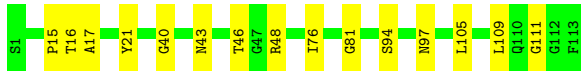


- Molecule 1: coat protein



- Molecule 1: coat protein





- Molecule 1: coat protein

Chain CD: 94% 6%



- Molecule 1: coat protein

Chain CE: 87% 13%



- Molecule 1: coat protein

Chain CF: 88% 12%



- Molecule 1: coat protein

Chain CG: 93% 7%



- Molecule 1: coat protein

Chain CH: 86% 14%



- Molecule 1: coat protein

Chain CI: 88% 12%

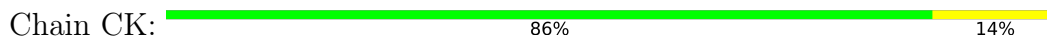


- Molecule 1: coat protein

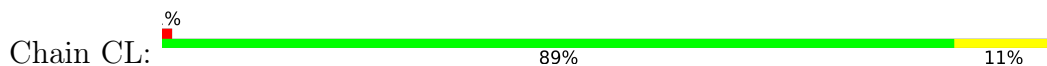
Chain CJ: 90% 10%



- Molecule 1: coat protein



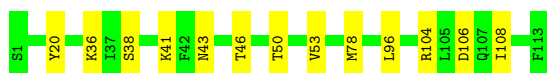
- Molecule 1: coat protein



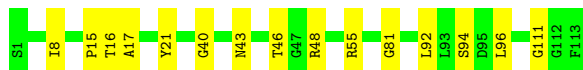
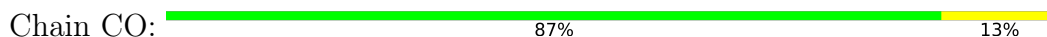
- Molecule 1: coat protein



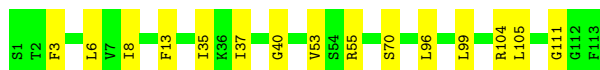
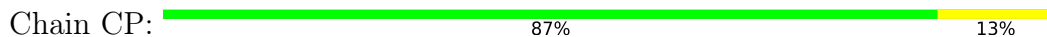
- Molecule 1: coat protein



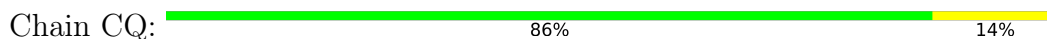
- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein





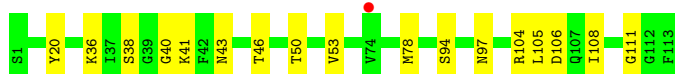
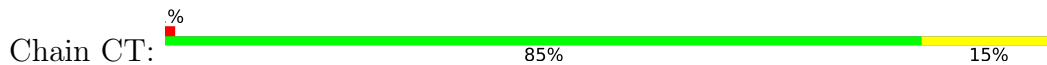
- Molecule 1: coat protein



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- Molecule 1: coat protein



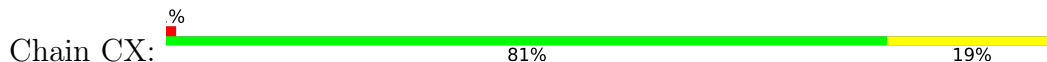
- Molecule 1: coat protein

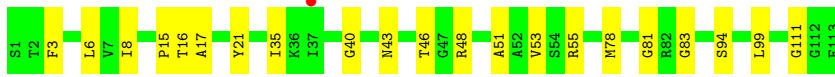


- Molecule 1: coat protein



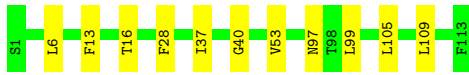
- Molecule 1: coat protein





- Molecule 1: coat protein

Chain CY: 90% 10%



- Molecule 1: coat protein

Chain CZ: 84% 16%



- Molecule 1: coat protein

Chain DA: 88% 12%



- Molecule 1: coat protein

Chain DB: 90% 10%



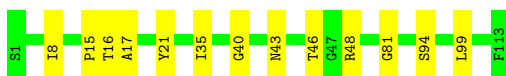
- Molecule 1: coat protein

Chain DC: 87% 13%



- Molecule 1: coat protein

Chain DD: 88% 12%

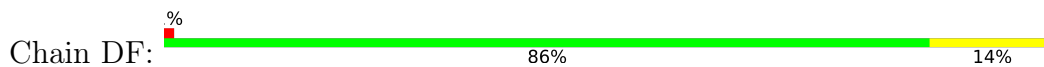


- Molecule 1: coat protein

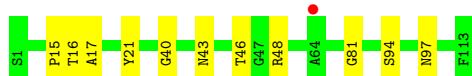
Chain DE: 89% 11%



- Molecule 1: coat protein



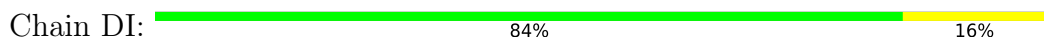
- Molecule 1: coat protein



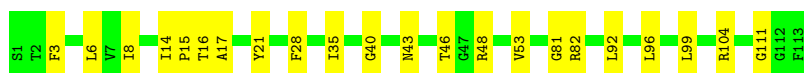
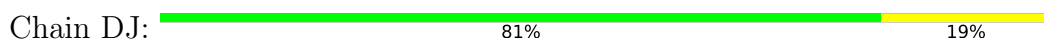
- Molecule 1: coat protein



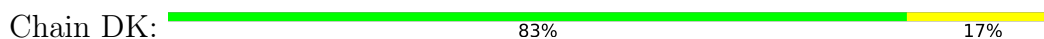
- Molecule 1: coat protein



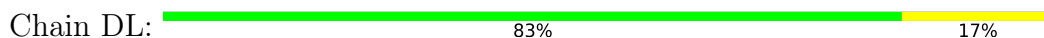
- Molecule 1: coat protein



- Molecule 1: coat protein

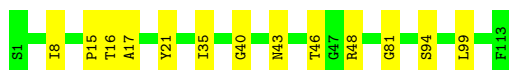


- Molecule 1: coat protein

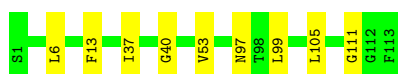




- Molecule 1: coat protein



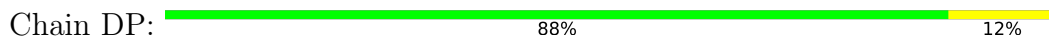
- Molecule 1: coat protein



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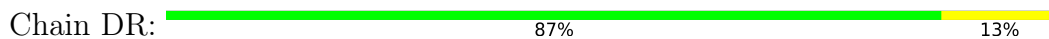
- Molecule 1: coat protein



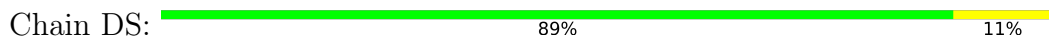
- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein

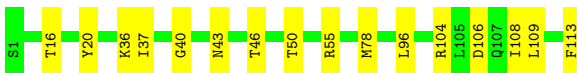
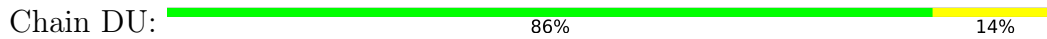




- Molecule 1: coat protein



- Molecule 1: coat protein



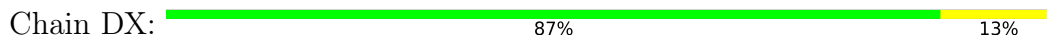
- Molecule 1: coat protein



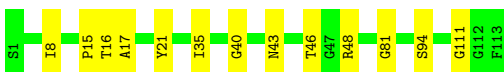
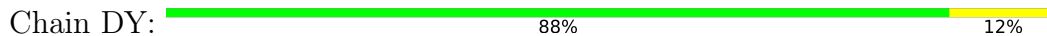
- Molecule 1: coat protein



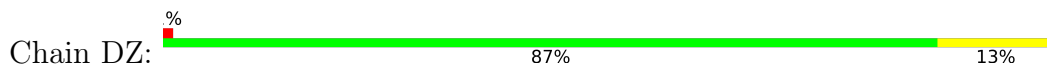
- Molecule 1: coat protein



- Molecule 1: coat protein

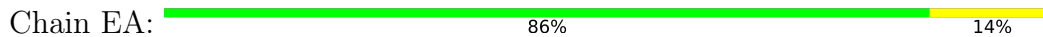


- Molecule 1: coat protein

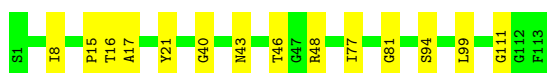




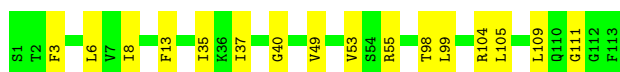
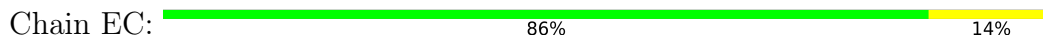
- Molecule 1: coat protein



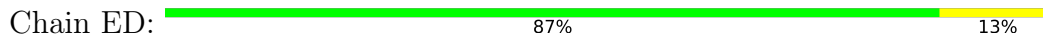
- Molecule 1: coat protein



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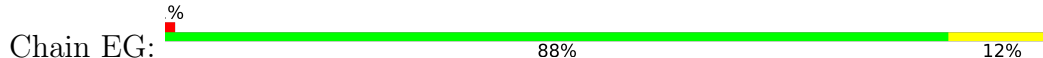
- Molecule 1: coat protein



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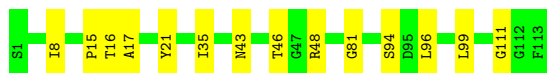
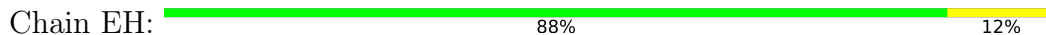


- Molecule 1: coat protein





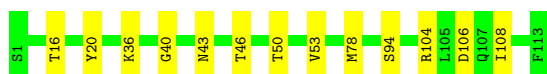
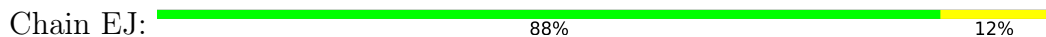
- Molecule 1: coat protein



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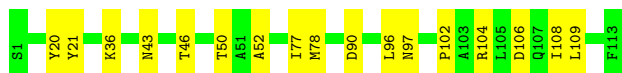
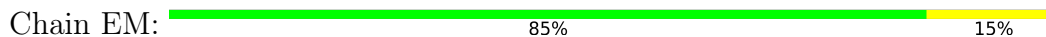
- Molecule 1: coat protein



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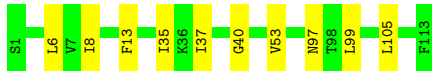


- Molecule 1: coat protein

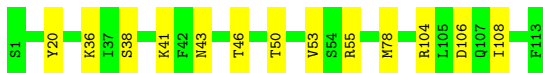
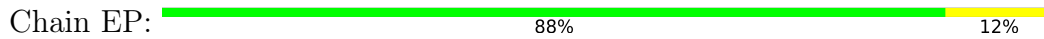




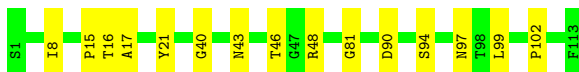
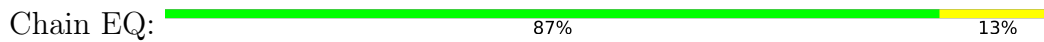
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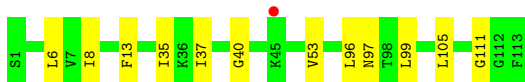
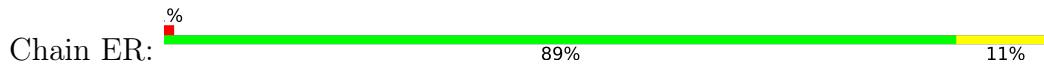
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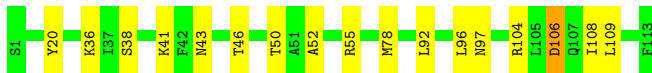
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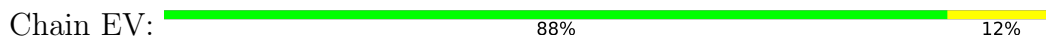


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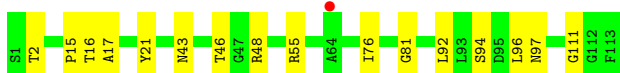
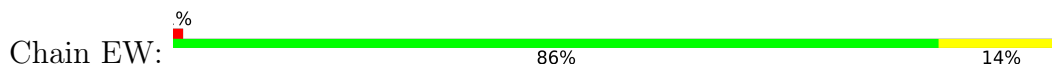




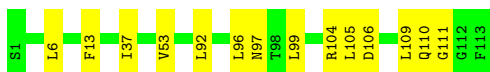
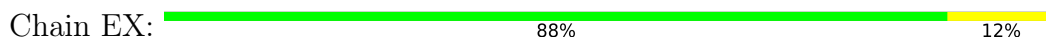
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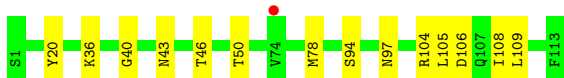
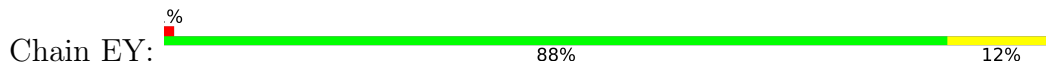
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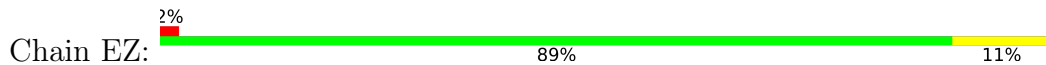
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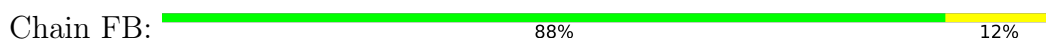
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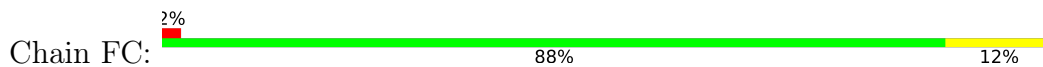


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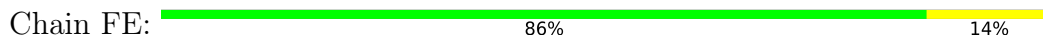
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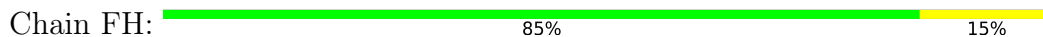
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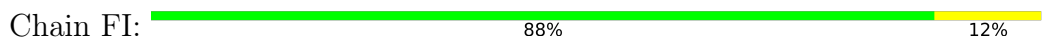
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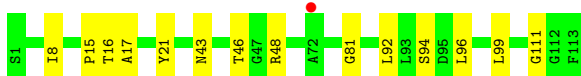
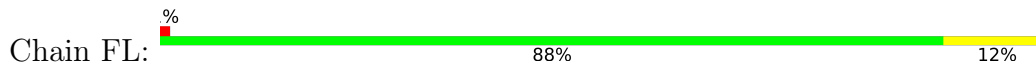
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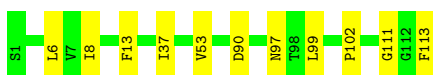
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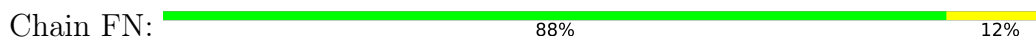
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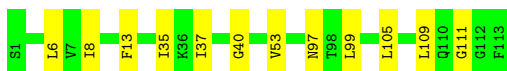


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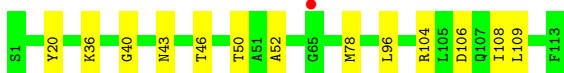
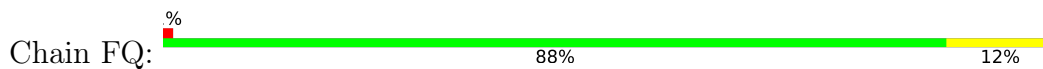


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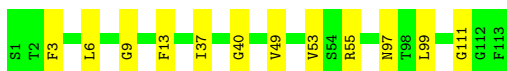
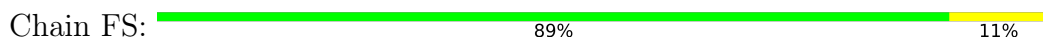
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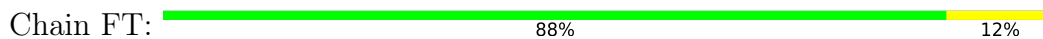
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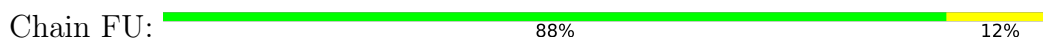
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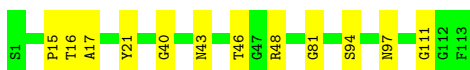


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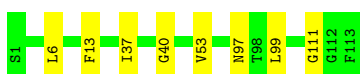




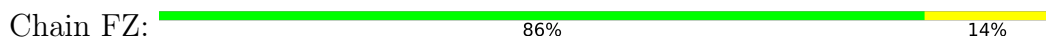
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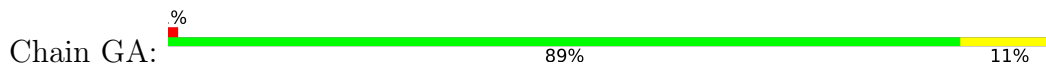
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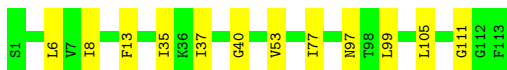
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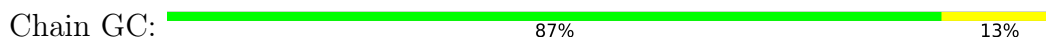
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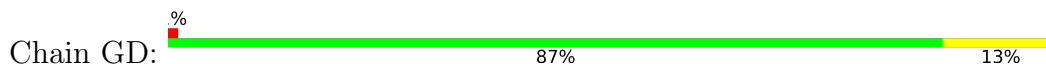
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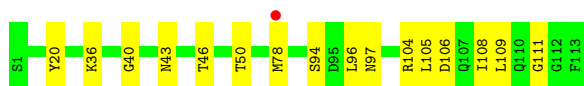
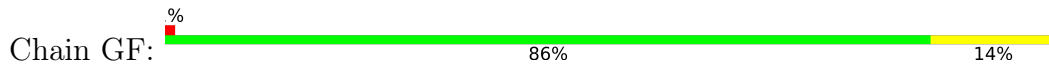




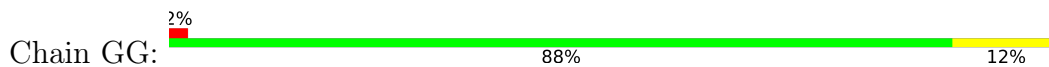
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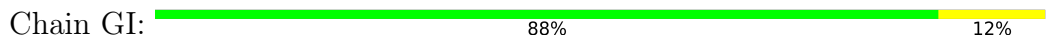
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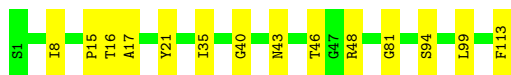
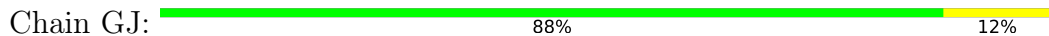
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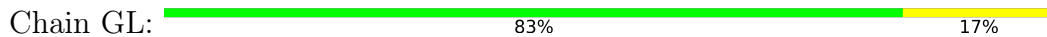


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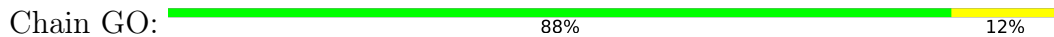
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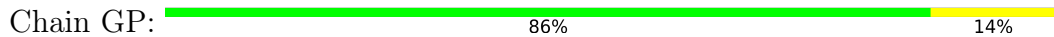
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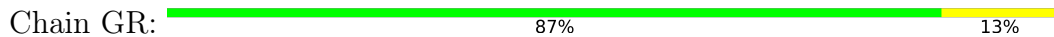
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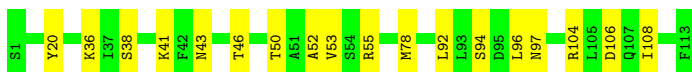
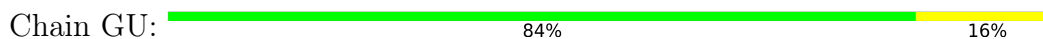
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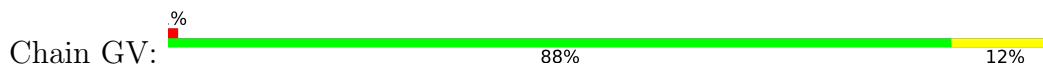
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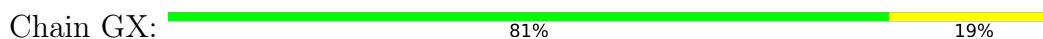
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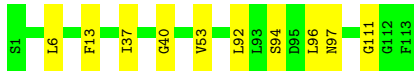


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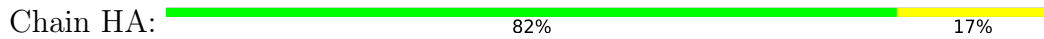




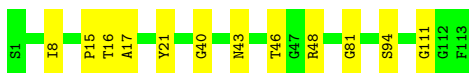
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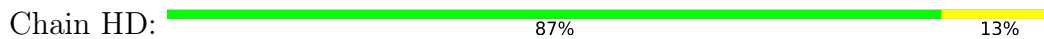
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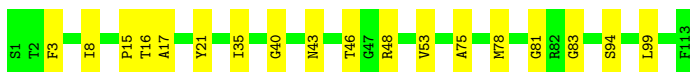
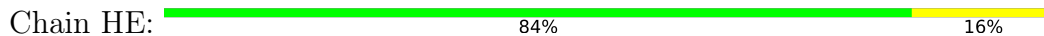
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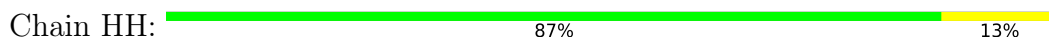




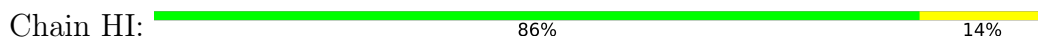
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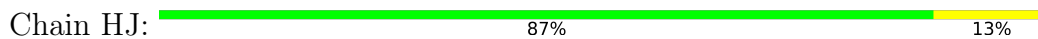
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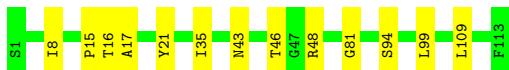
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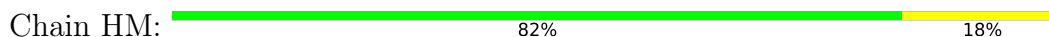
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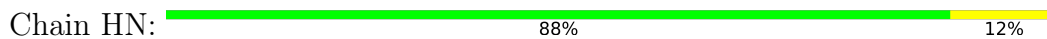


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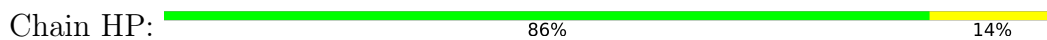
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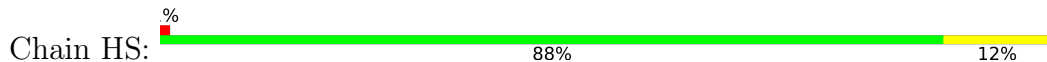
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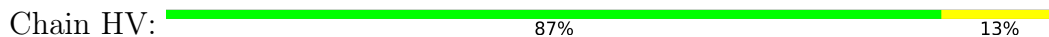




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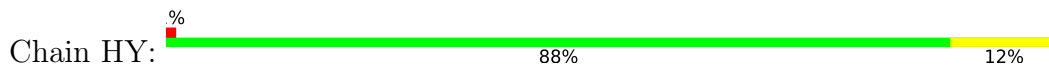
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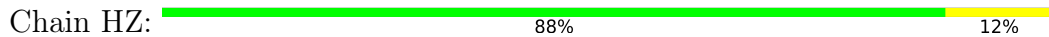
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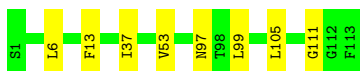


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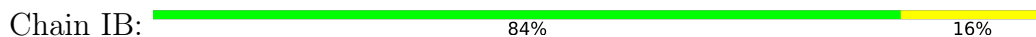


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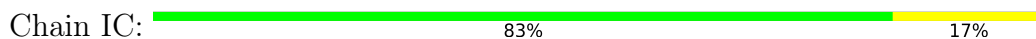




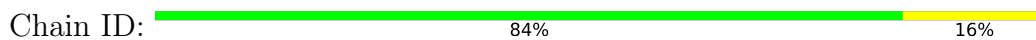
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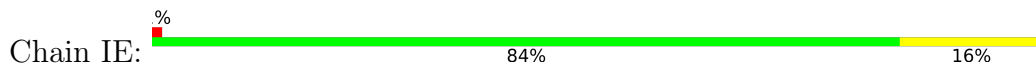
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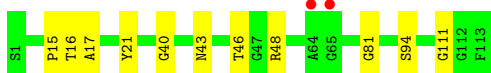
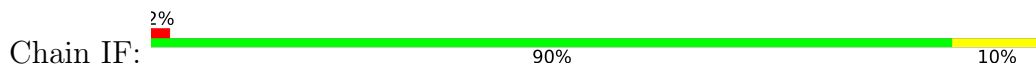
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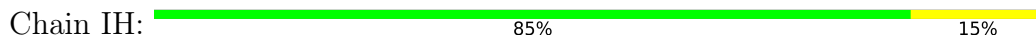
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- Molecule 1: coat protein

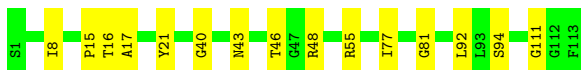
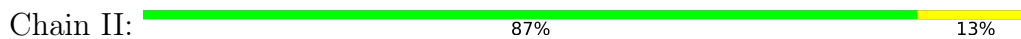


- Molecule 1: coat protein

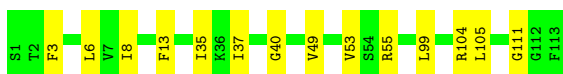
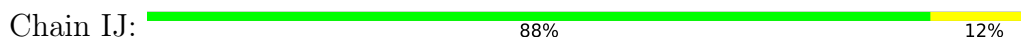




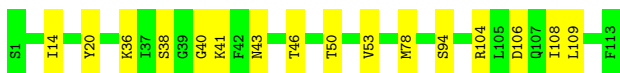
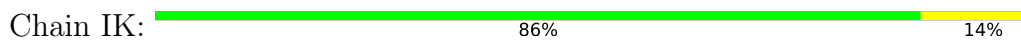
- Molecule 1: coat protein



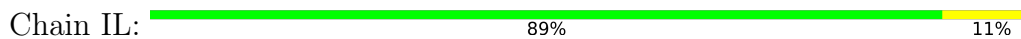
- Molecule 1: coat protein



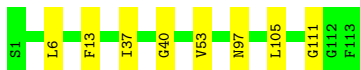
- Molecule 1: coat protein



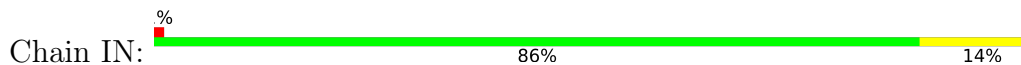
- Molecule 1: coat protein



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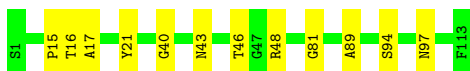


- Molecule 1: coat protein

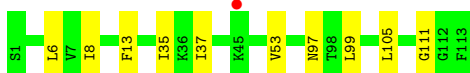
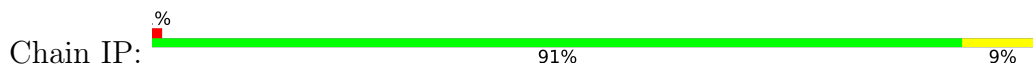


- Molecule 1: coat protein

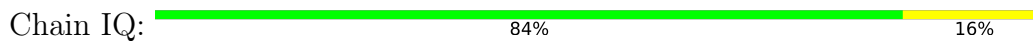




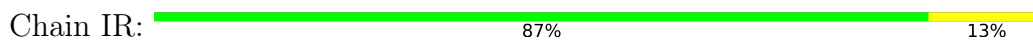
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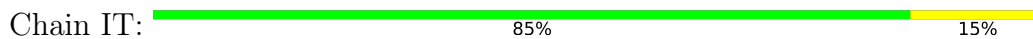
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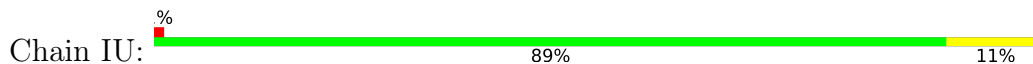
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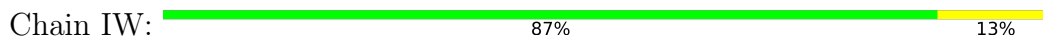


- Molecule 1: coat protein

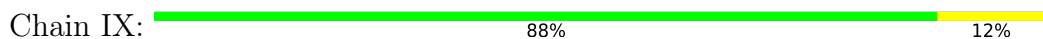




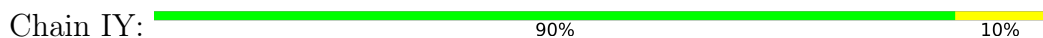
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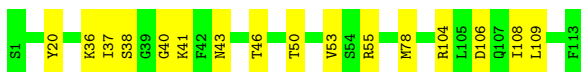
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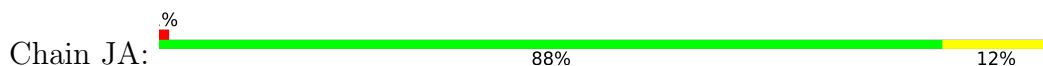
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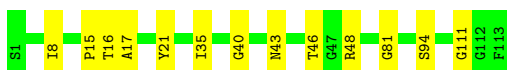
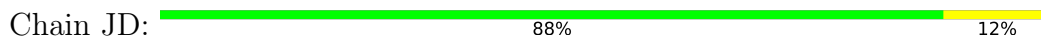


- Molecule 1: coat protein

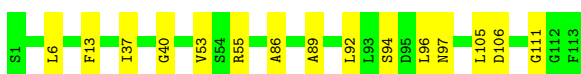
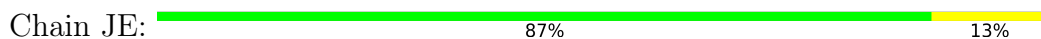




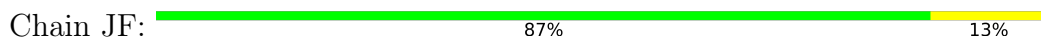
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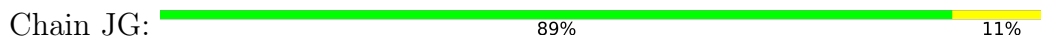
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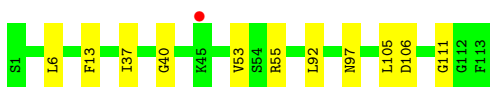
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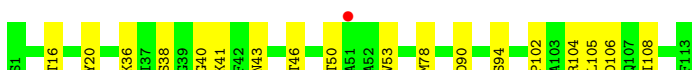
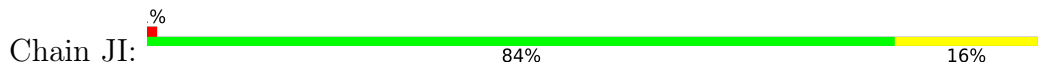
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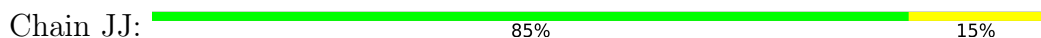
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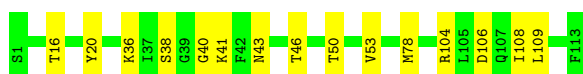
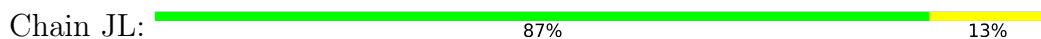




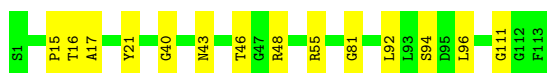
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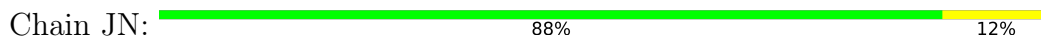
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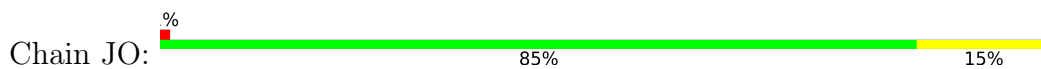
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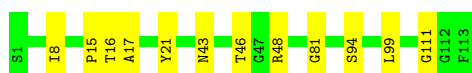
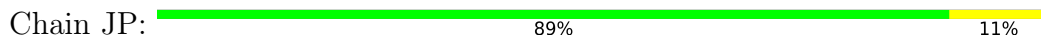
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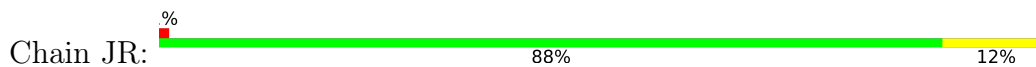


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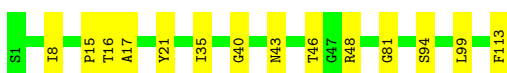




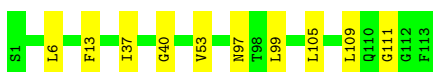
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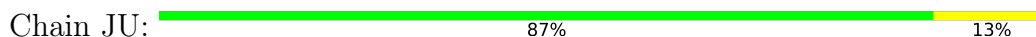
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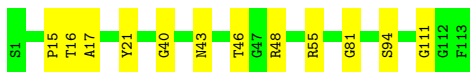
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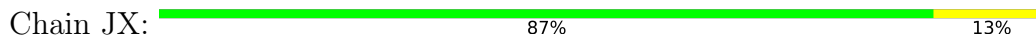
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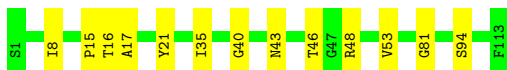
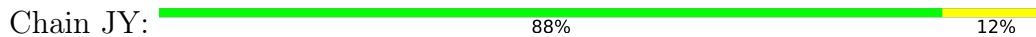


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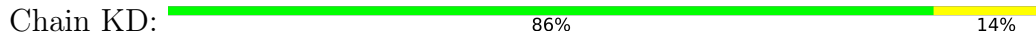
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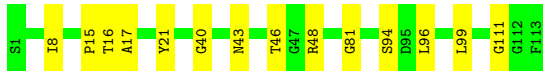


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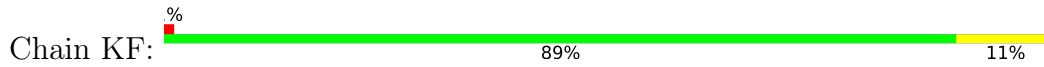


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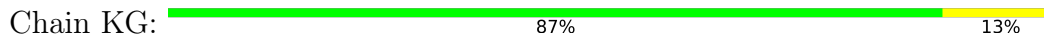




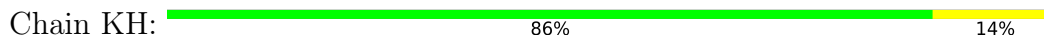
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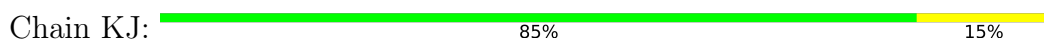
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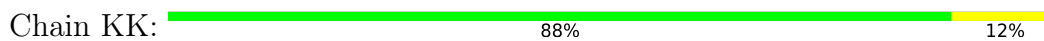
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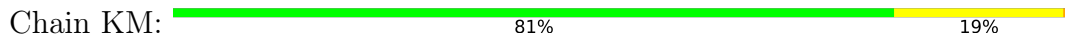


- Molecule 1: coat protein

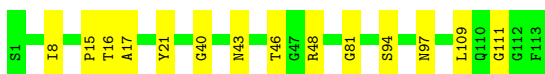




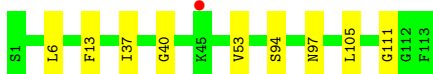
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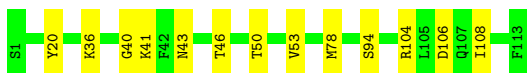
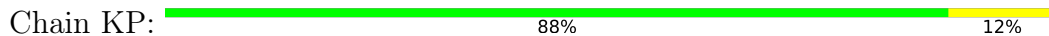
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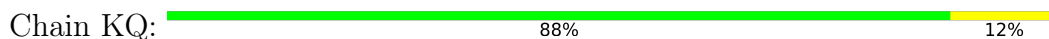
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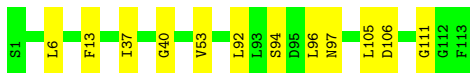
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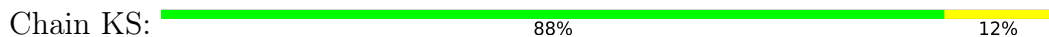
- Molecule 1: coat protein



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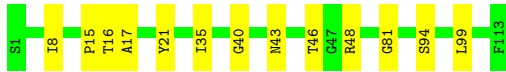
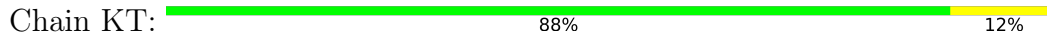


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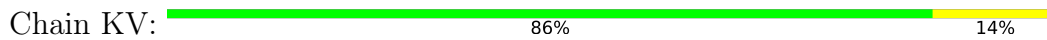
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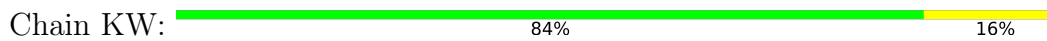
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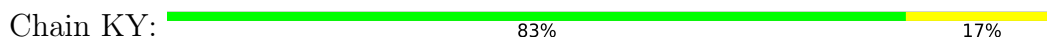
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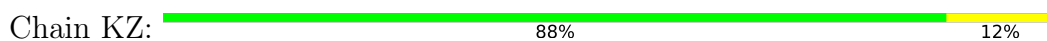
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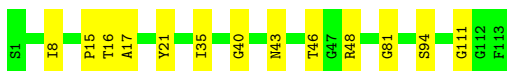


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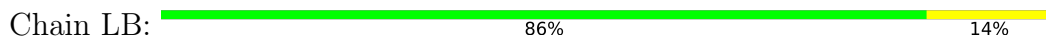




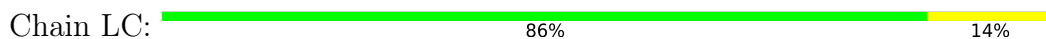
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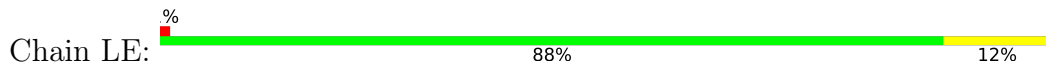
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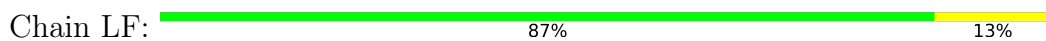
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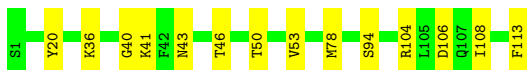
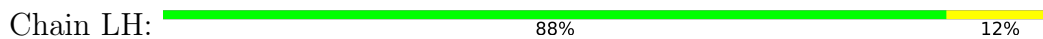


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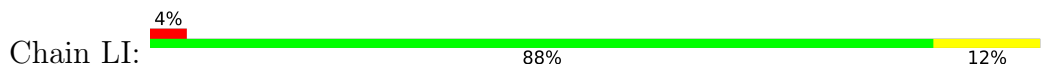




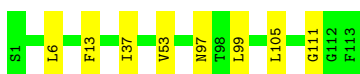
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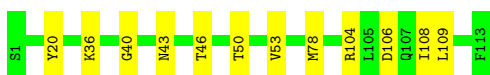
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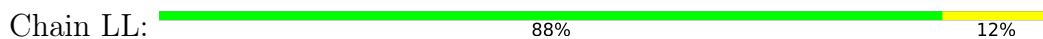
- Molecule 1: coat protein



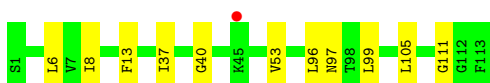
- Molecule 1: coat protein



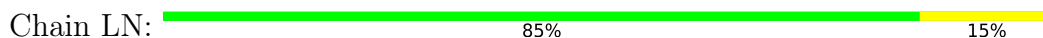
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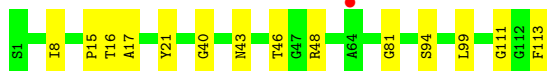
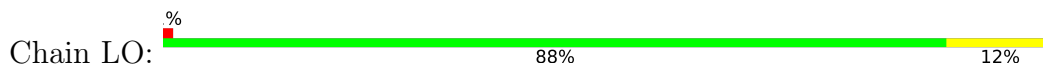


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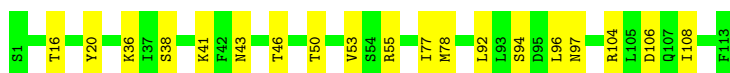
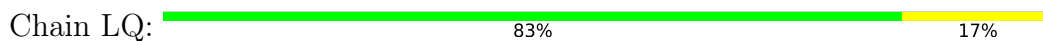
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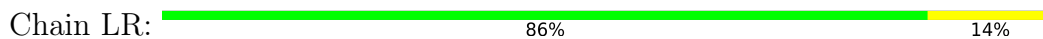
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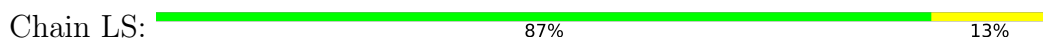
- Molecule 1: coat protein



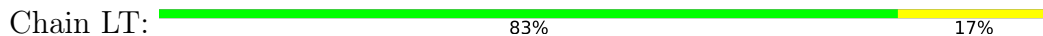
- Molecule 1: coat protein



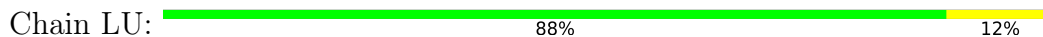
- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein

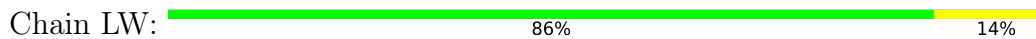




- Molecule 1: coat protein



- Molecule 1: coat protein



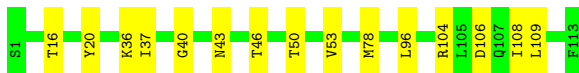
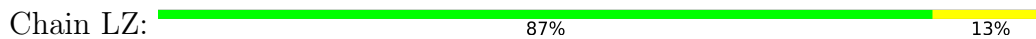
- Molecule 1: coat protein



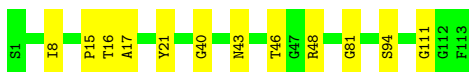
- Molecule 1: coat protein



- Molecule 1: coat protein

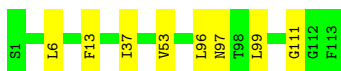


- Molecule 1: coat protein

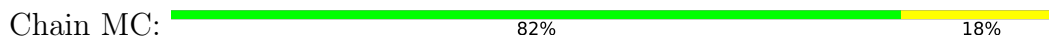


- Molecule 1: coat protein

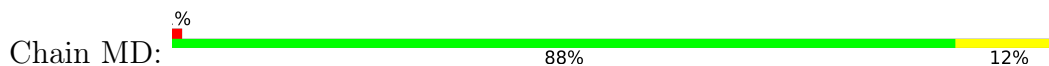




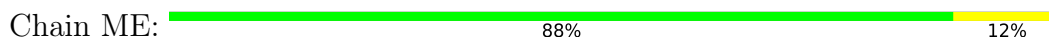
- Molecule 1: coat protein



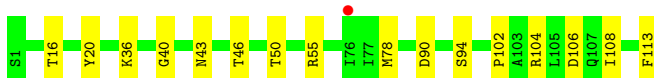
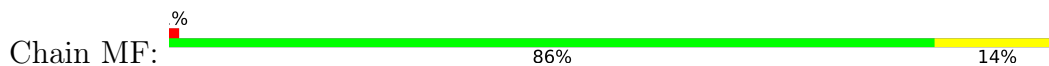
- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein



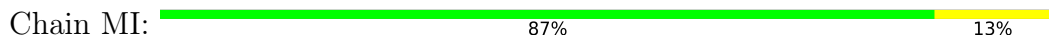
- Molecule 1: coat protein



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- Molecule 1: coat protein





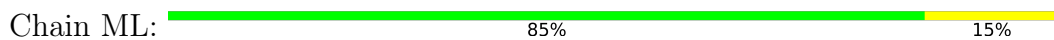
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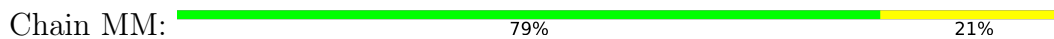
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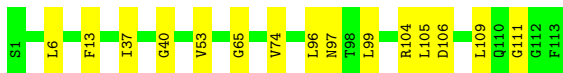
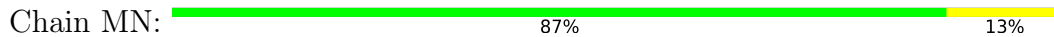
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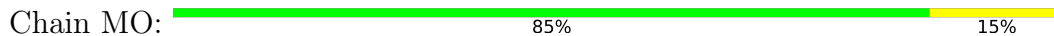
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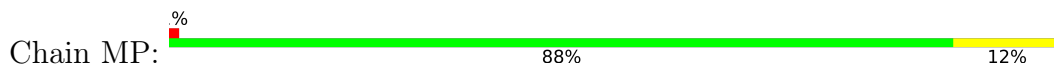
- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein

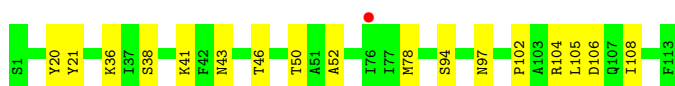
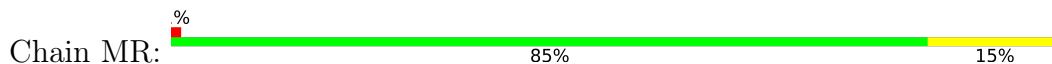




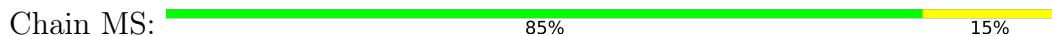
- Molecule 1: coat protein



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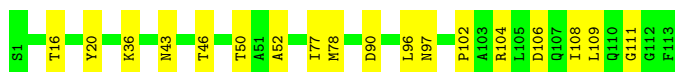
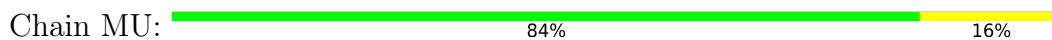
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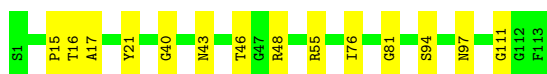
- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein





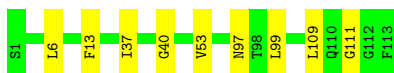
- Molecule 1: coat protein



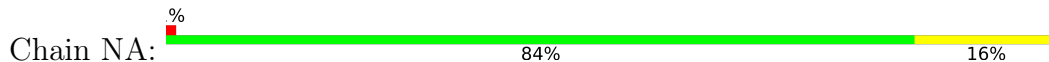
- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein

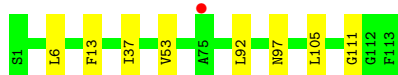




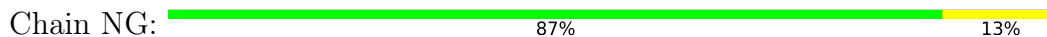
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- Molecule 1: coat protein



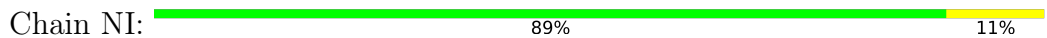
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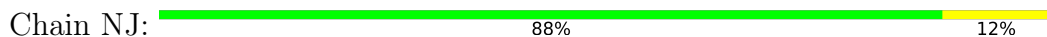
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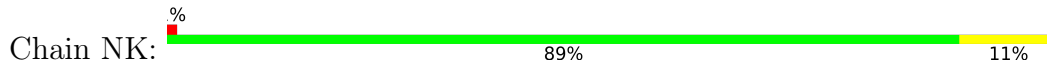
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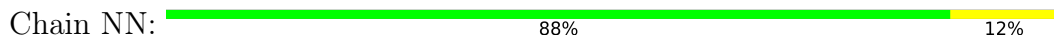
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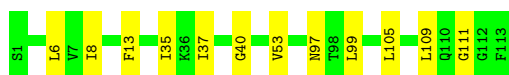
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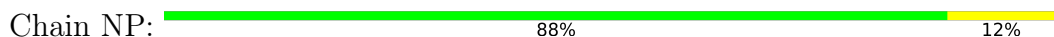
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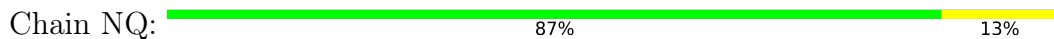
- Molecule 1: coat protein



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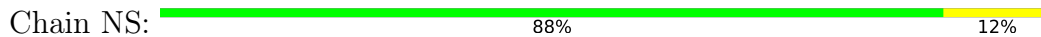


- Molecule 1: coat protein

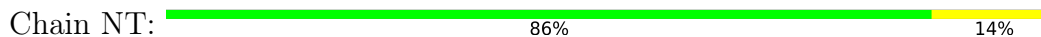




- Molecule 1: coat protein



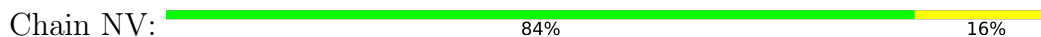
- Molecule 1: coat protein



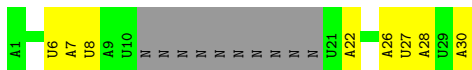
- Molecule 1: coat protein



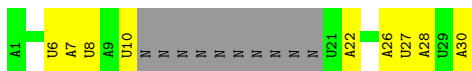
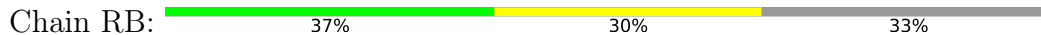
- Molecule 1: coat protein



- Molecule 2: RNA

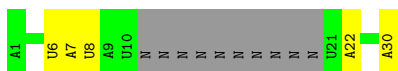


- Molecule 2: RNA

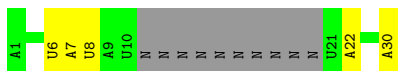


- Molecule 2: RNA





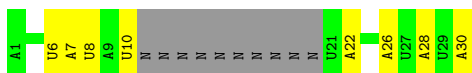
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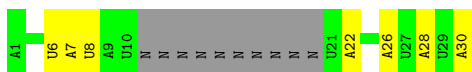
- Molecule 2: RNA



- Molecule 2: RNA



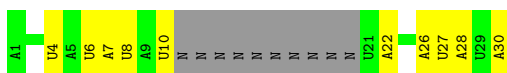
- Molecule 2: RNA



- Molecule 2: RNA

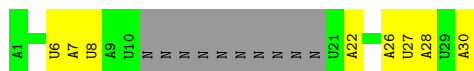


- Molecule 2: RNA

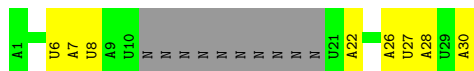


- Molecule 2: RNA

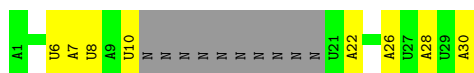




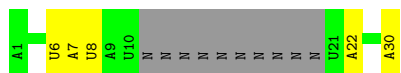
• Molecule 2: RNA



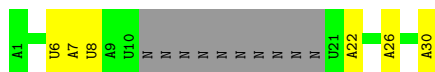
• Molecule 2: RNA



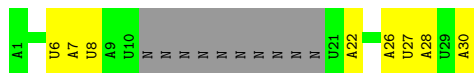
• Molecule 2: RNA



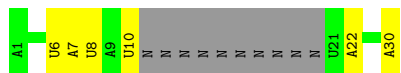
• Molecule 2: RNA



• Molecule 2: RNA

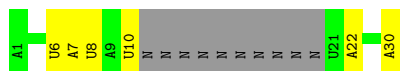


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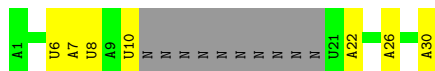


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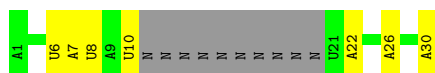




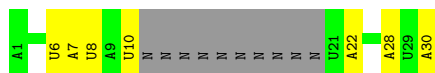
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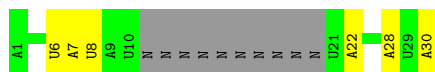
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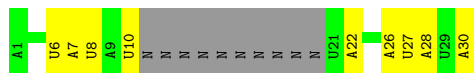
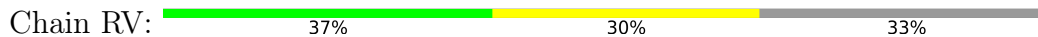
• Molecule 2: RNA



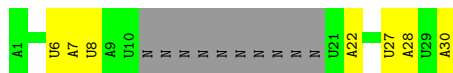
• Molecule 2: RNA



• Molecule 2: RNA

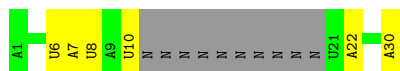


• Molecule 2: RNA

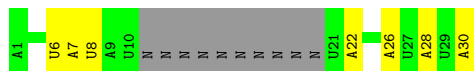


• Molecule 2: RNA

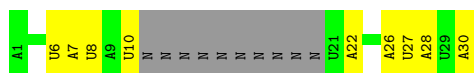
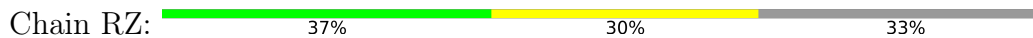




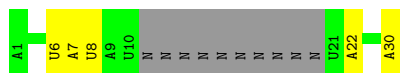
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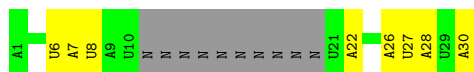
• Molecule 2: RNA



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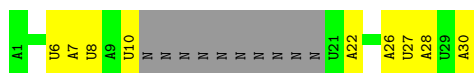
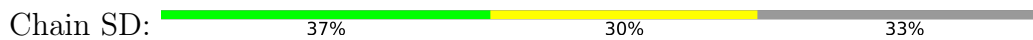
• Molecule 2: RNA



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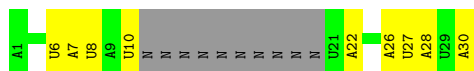


• Molecule 2: RNA

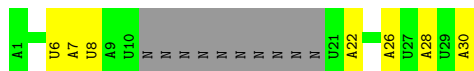


• Molecule 2: RNA

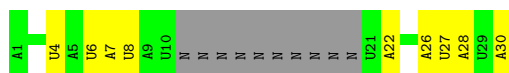
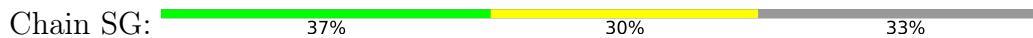




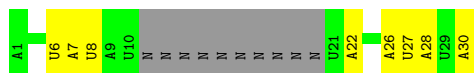
• Molecule 2: RNA



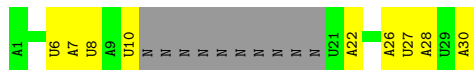
• Molecule 2: RNA



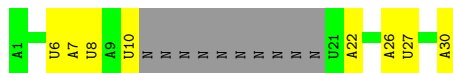
• Molecule 2: RNA



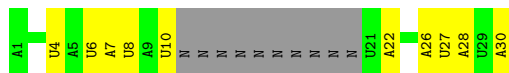
• Molecule 2: RNA



• Molecule 2: RNA

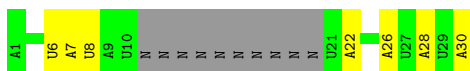


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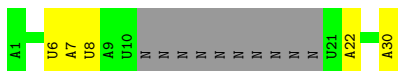


• Molecule 2: RNA

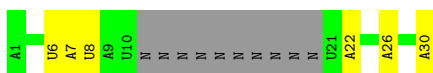




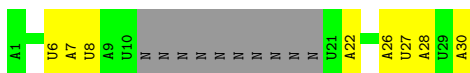
- Molecule 2: RNA



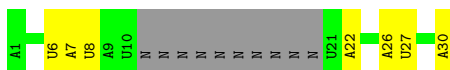
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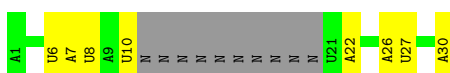
- Molecule 2: RNA



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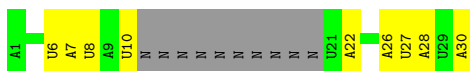


- Molecule 2: RNA

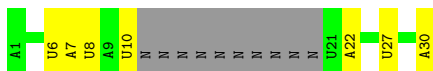


- Molecule 2: RNA





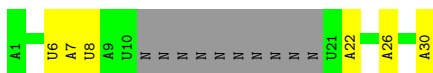
- Molecule 2: RNA



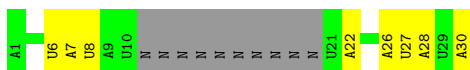
- Molecule 2: RNA



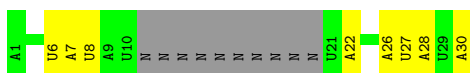
- Molecule 2: RNA



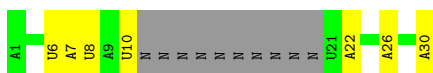
- Molecule 2: RNA



- Molecule 2: RNA



- Molecule 2: RNA



- Molecule 2: RNA

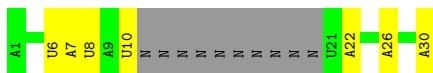




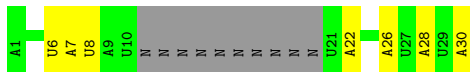
- Molecule 2: RNA



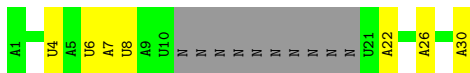
- Molecule 2: RNA



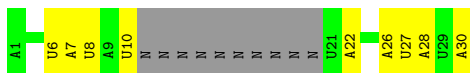
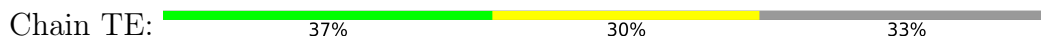
- Molecule 2: RNA



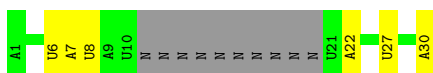
- Molecule 2: RNA



- Molecule 2: RNA

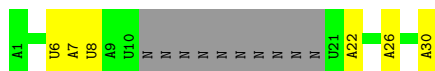


- Molecule 2: RNA



- Molecule 2: RNA

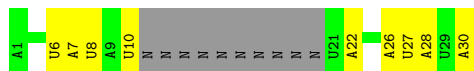




- Molecule 2: RNA

Chain TH:
37% 30% 33%

A horizontal bar chart showing the percentage distribution of validation status for Chain TH. The bar is divided into three segments: 37% green (good), 30% yellow (outliers), and 33% grey (not modeled).



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	277.47Å 396.64Å 399.87Å 69.66° 83.65° 83.49°	Depositor
Resolution (Å)	61.15 – 3.50 61.15 – 3.50	Depositor EDS
% Data completeness (in resolution range)	87.2 (61.15-3.50) 85.3 (61.15-3.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.31	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.26 (at 3.49Å)	Xtrriage
Refinement program	PHENIX 1.17.1_3660	Depositor
R, R_{free}	0.261 , 0.261 0.267 , 0.267	Depositor DCC
R_{free} test set	20000 reflections (1.14%)	wwPDB-VP
Wilson B-factor (Å ²)	72.4	Xtrriage
Anisotropy	0.317	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	(Not available) , (Not available)	EDS
L-test for twinning ²	$\langle L \rangle = 0.38$, $\langle L^2 \rangle = 0.20$	Xtrriage
Estimated twinning fraction	0.096 for -h,-l,-k	Xtrriage
F_o, F_c correlation	0.84	EDS
Total number of atoms	327240	wwPDB-VP
Average B, all atoms (Å ²)	100.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.13% 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	0.43	0/852	0.61	0/1158
1	AB	0.40	0/852	0.60	0/1158
1	AC	0.42	0/852	0.59	0/1158
1	AD	0.43	0/852	0.61	0/1158
1	AE	0.41	0/852	0.60	0/1158
1	AF	0.42	0/852	0.59	0/1158
1	AG	0.43	0/852	0.61	0/1158
1	AH	0.40	0/852	0.60	0/1158
1	AI	0.42	0/852	0.59	0/1158
1	AJ	0.43	0/852	0.61	0/1158
1	AK	0.41	0/852	0.60	0/1158
1	AL	0.42	0/852	0.59	0/1158
1	AM	0.43	0/852	0.61	0/1158
1	AN	0.41	0/852	0.60	0/1158
1	AO	0.42	0/852	0.59	0/1158
1	AP	0.43	0/852	0.61	0/1158
1	AQ	0.41	0/852	0.60	0/1158
1	AR	0.42	0/852	0.59	0/1158
1	AS	0.43	0/852	0.61	0/1158
1	AT	0.41	0/852	0.60	0/1158
1	AU	0.42	0/852	0.59	0/1158
1	AV	0.43	0/852	0.61	0/1158
1	AW	0.41	0/852	0.60	0/1158
1	AX	0.42	0/852	0.59	0/1158
1	AY	0.43	0/852	0.61	0/1158
1	AZ	0.41	0/852	0.60	0/1158
1	BA	0.42	0/852	0.59	0/1158
1	BB	0.43	0/852	0.61	0/1158
1	BC	0.40	0/852	0.60	0/1158
1	BD	0.42	0/852	0.59	0/1158
1	BE	0.43	0/852	0.61	0/1158
1	BF	0.40	0/852	0.60	0/1158
1	BG	0.42	0/852	0.59	0/1158
1	BH	0.43	0/852	0.61	0/1158

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	BI	0.40	0/852	0.60	0/1158
1	BJ	0.42	0/852	0.59	0/1158
1	BK	0.43	0/852	0.61	0/1158
1	BL	0.40	0/852	0.60	0/1158
1	BM	0.42	0/852	0.59	0/1158
1	BN	0.43	0/852	0.61	0/1158
1	BO	0.40	0/852	0.60	0/1158
1	BP	0.42	0/852	0.59	0/1158
1	BQ	0.43	0/852	0.61	0/1158
1	BR	0.41	0/852	0.60	0/1158
1	BS	0.42	0/852	0.59	0/1158
1	BT	0.43	0/852	0.61	0/1158
1	BU	0.40	0/852	0.60	0/1158
1	BV	0.42	0/852	0.59	0/1158
1	BW	0.43	0/852	0.61	0/1158
1	BX	0.40	0/852	0.60	0/1158
1	BY	0.42	0/852	0.59	0/1158
1	BZ	0.43	0/852	0.61	0/1158
1	CA	0.41	0/852	0.60	0/1158
1	CB	0.42	0/852	0.59	0/1158
1	CC	0.43	0/852	0.61	0/1158
1	CD	0.40	0/852	0.60	0/1158
1	CE	0.42	0/852	0.59	0/1158
1	CF	0.43	0/852	0.61	0/1158
1	CG	0.41	0/852	0.60	0/1158
1	CH	0.42	0/852	0.59	0/1158
1	CI	0.43	0/852	0.61	0/1158
1	CJ	0.40	0/852	0.60	0/1158
1	CK	0.42	0/852	0.59	0/1158
1	CL	0.43	0/852	0.61	0/1158
1	CM	0.40	0/852	0.60	0/1158
1	CN	0.42	0/852	0.59	0/1158
1	CO	0.43	0/852	0.61	0/1158
1	CP	0.41	0/852	0.60	0/1158
1	CQ	0.42	0/852	0.59	0/1158
1	CR	0.43	0/852	0.61	0/1158
1	CS	0.40	0/852	0.60	0/1158
1	CT	0.42	0/852	0.59	0/1158
1	CU	0.43	0/852	0.61	0/1158
1	CV	0.41	0/852	0.60	0/1158
1	CW	0.42	0/852	0.59	0/1158
1	CX	0.43	0/852	0.61	0/1158
1	CY	0.41	0/852	0.60	0/1158

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	CZ	0.42	0/852	0.59	0/1158
1	DA	0.43	0/852	0.61	0/1158
1	DB	0.41	0/852	0.60	0/1158
1	DC	0.42	0/852	0.59	0/1158
1	DD	0.43	0/852	0.61	0/1158
1	DE	0.40	0/852	0.60	0/1158
1	DF	0.42	0/852	0.59	0/1158
1	DG	0.43	0/852	0.61	0/1158
1	DH	0.41	0/852	0.60	0/1158
1	DI	0.42	0/852	0.59	0/1158
1	DJ	0.43	0/852	0.61	0/1158
1	DK	0.40	0/852	0.60	0/1158
1	DL	0.42	0/852	0.59	0/1158
1	DM	0.43	0/852	0.61	0/1158
1	DN	0.41	0/852	0.60	0/1158
1	DO	0.42	0/852	0.59	0/1158
1	DP	0.44	0/852	0.61	0/1158
1	DQ	0.41	0/852	0.60	0/1158
1	DR	0.42	0/852	0.59	0/1158
1	DS	0.43	0/852	0.61	0/1158
1	DT	0.40	0/852	0.60	0/1158
1	DU	0.42	0/852	0.59	0/1158
1	DV	0.43	0/852	0.61	0/1158
1	DW	0.40	0/852	0.60	0/1158
1	DX	0.42	0/852	0.59	0/1158
1	DY	0.43	0/852	0.61	0/1158
1	DZ	0.40	0/852	0.60	0/1158
1	EA	0.42	0/852	0.59	0/1158
1	EB	0.43	0/852	0.61	0/1158
1	EC	0.41	0/852	0.60	0/1158
1	ED	0.42	0/852	0.59	0/1158
1	EE	0.43	0/852	0.61	0/1158
1	EF	0.41	0/852	0.60	0/1158
1	EG	0.42	0/852	0.59	0/1158
1	EH	0.43	0/852	0.61	0/1158
1	EI	0.41	0/852	0.60	0/1158
1	EJ	0.42	0/852	0.59	0/1158
1	EK	0.44	0/852	0.61	0/1158
1	EL	0.40	0/852	0.60	0/1158
1	EM	0.42	0/852	0.59	0/1158
1	EN	0.43	0/852	0.61	0/1158
1	EO	0.40	0/852	0.60	0/1158
1	EP	0.42	0/852	0.59	0/1158

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	EQ	0.43	0/852	0.61	0/1158
1	ER	0.40	0/852	0.60	0/1158
1	ES	0.42	0/852	0.59	0/1158
1	ET	0.43	0/852	0.61	0/1158
1	EU	0.40	0/852	0.60	0/1158
1	EV	0.42	0/852	0.59	0/1158
1	EW	0.43	0/852	0.61	0/1158
1	EX	0.41	0/852	0.60	0/1158
1	EY	0.42	0/852	0.59	0/1158
1	EZ	0.43	0/852	0.61	0/1158
1	FA	0.40	0/852	0.60	0/1158
1	FB	0.42	0/852	0.59	0/1158
1	FC	0.43	0/852	0.61	0/1158
1	FD	0.41	0/852	0.60	0/1158
1	FE	0.42	0/852	0.59	0/1158
1	FF	0.43	0/852	0.61	0/1158
1	FG	0.41	0/852	0.60	0/1158
1	FH	0.42	0/852	0.59	0/1158
1	FI	0.43	0/852	0.61	0/1158
1	FJ	0.40	0/852	0.60	0/1158
1	FK	0.42	0/852	0.59	0/1158
1	FL	0.43	0/852	0.61	0/1158
1	FM	0.41	0/852	0.60	0/1158
1	FN	0.42	0/852	0.59	0/1158
1	FO	0.43	0/852	0.61	0/1158
1	FP	0.41	0/852	0.60	0/1158
1	FQ	0.42	0/852	0.59	0/1158
1	FR	0.43	0/852	0.61	0/1158
1	FS	0.41	0/852	0.60	0/1158
1	FT	0.42	0/852	0.59	0/1158
1	FU	0.43	0/852	0.61	0/1158
1	FV	0.40	0/852	0.60	0/1158
1	FW	0.42	0/852	0.59	0/1158
1	FX	0.43	0/852	0.61	0/1158
1	FY	0.40	0/852	0.60	0/1158
1	FZ	0.42	0/852	0.59	0/1158
1	GA	0.43	0/852	0.61	0/1158
1	GB	0.41	0/852	0.60	0/1158
1	GC	0.42	0/852	0.59	0/1158
1	GD	0.43	0/852	0.61	0/1158
1	GE	0.41	0/852	0.60	0/1158
1	GF	0.42	0/852	0.59	0/1158
1	GG	0.43	0/852	0.61	0/1158

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	GH	0.40	0/852	0.60	0/1158
1	GI	0.42	0/852	0.59	0/1158
1	GJ	0.43	0/852	0.61	0/1158
1	GK	0.40	0/852	0.60	0/1158
1	GL	0.42	0/852	0.59	0/1158
1	GM	0.43	0/852	0.61	0/1158
1	GN	0.40	0/852	0.60	0/1158
1	GO	0.42	0/852	0.59	0/1158
1	GP	0.43	0/852	0.61	0/1158
1	GQ	0.41	0/852	0.60	0/1158
1	GR	0.42	0/852	0.59	0/1158
1	GS	0.43	0/852	0.61	0/1158
1	GT	0.40	0/852	0.60	0/1158
1	GU	0.42	0/852	0.59	0/1158
1	GV	0.43	0/852	0.61	0/1158
1	GW	0.40	0/852	0.60	0/1158
1	GX	0.42	0/852	0.59	0/1158
1	GY	0.43	0/852	0.61	0/1158
1	GZ	0.41	0/852	0.60	0/1158
1	HA	0.42	0/852	0.59	0/1158
1	HB	0.43	0/852	0.61	0/1158
1	HC	0.40	0/852	0.60	0/1158
1	HD	0.42	0/852	0.59	0/1158
1	HE	0.43	0/852	0.61	0/1158
1	HF	0.40	0/852	0.60	0/1158
1	HG	0.42	0/852	0.59	0/1158
1	HH	0.43	0/852	0.61	0/1158
1	HI	0.41	0/852	0.60	0/1158
1	HJ	0.42	0/852	0.59	0/1158
1	HK	0.43	0/852	0.61	0/1158
1	HL	0.40	0/852	0.60	0/1158
1	HM	0.42	0/852	0.59	0/1158
1	HN	0.43	0/852	0.61	0/1158
1	HO	0.41	0/852	0.60	0/1158
1	HP	0.42	0/852	0.59	0/1158
1	HQ	0.43	0/852	0.61	0/1158
1	HR	0.40	0/852	0.60	0/1158
1	HS	0.42	0/852	0.59	0/1158
1	HT	0.43	0/852	0.61	0/1158
1	HU	0.41	0/852	0.60	0/1158
1	HV	0.42	0/852	0.59	0/1158
1	HW	0.43	0/852	0.61	0/1158
1	HX	0.41	0/852	0.60	0/1158

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	HY	0.42	0/852	0.59	0/1158
1	HZ	0.43	0/852	0.61	0/1158
1	IA	0.41	0/852	0.60	0/1158
1	IB	0.42	0/852	0.59	0/1158
1	IC	0.43	0/852	0.61	0/1158
1	ID	0.41	0/852	0.60	0/1158
1	IE	0.42	0/852	0.59	0/1158
1	IF	0.43	0/852	0.61	0/1158
1	IG	0.41	0/852	0.60	0/1158
1	IH	0.42	0/852	0.59	0/1158
1	II	0.43	0/852	0.61	0/1158
1	IJ	0.40	0/852	0.60	0/1158
1	IK	0.42	0/852	0.59	0/1158
1	IL	0.43	0/852	0.61	0/1158
1	IM	0.41	0/852	0.60	0/1158
1	IN	0.42	0/852	0.59	0/1158
1	IO	0.44	0/852	0.61	0/1158
1	IP	0.40	0/852	0.60	0/1158
1	IQ	0.42	0/852	0.59	0/1158
1	IR	0.43	0/852	0.61	0/1158
1	IS	0.41	0/852	0.60	0/1158
1	IT	0.42	0/852	0.59	0/1158
1	IU	0.43	0/852	0.61	0/1158
1	IV	0.41	0/852	0.60	0/1158
1	IW	0.42	0/852	0.59	0/1158
1	IX	0.43	0/852	0.61	0/1158
1	IY	0.41	0/852	0.60	0/1158
1	IZ	0.42	0/852	0.59	0/1158
1	JA	0.43	0/852	0.61	0/1158
1	JB	0.40	0/852	0.60	0/1158
1	JC	0.42	0/852	0.59	0/1158
1	JD	0.43	0/852	0.61	0/1158
1	JE	0.40	0/852	0.60	0/1158
1	JF	0.42	0/852	0.59	0/1158
1	JG	0.43	0/852	0.61	0/1158
1	JH	0.41	0/852	0.60	0/1158
1	JI	0.42	0/852	0.59	0/1158
1	JJ	0.43	0/852	0.61	0/1158
1	JK	0.41	0/852	0.60	0/1158
1	JL	0.42	0/852	0.59	0/1158
1	JM	0.43	0/852	0.61	0/1158
1	JN	0.40	0/852	0.60	0/1158
1	JO	0.42	0/852	0.59	0/1158

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	JP	0.43	0/852	0.61	0/1158
1	JQ	0.41	0/852	0.60	0/1158
1	JR	0.42	0/852	0.59	0/1158
1	JS	0.43	0/852	0.61	0/1158
1	JT	0.40	0/852	0.60	0/1158
1	JU	0.42	0/852	0.59	0/1158
1	JV	0.43	0/852	0.61	0/1158
1	JW	0.41	0/852	0.60	0/1158
1	JX	0.42	0/852	0.59	0/1158
1	JY	0.43	0/852	0.61	0/1158
1	JZ	0.40	0/852	0.60	0/1158
1	KA	0.42	0/852	0.59	0/1158
1	KB	0.43	0/852	0.61	0/1158
1	KC	0.40	0/852	0.60	0/1158
1	KD	0.42	0/852	0.59	0/1158
1	KE	0.43	0/852	0.61	0/1158
1	KF	0.41	0/852	0.60	0/1158
1	KG	0.42	0/852	0.59	0/1158
1	KH	0.43	0/852	0.61	0/1158
1	KI	0.40	0/852	0.60	0/1158
1	KJ	0.42	0/852	0.59	0/1158
1	KK	0.43	0/852	0.61	0/1158
1	KL	0.40	0/852	0.60	0/1158
1	KM	0.42	0/852	0.59	0/1158
1	KN	0.43	0/852	0.61	0/1158
1	KO	0.41	0/852	0.60	0/1158
1	KP	0.42	0/852	0.59	0/1158
1	KQ	0.43	0/852	0.61	0/1158
1	KR	0.41	0/852	0.60	0/1158
1	KS	0.42	0/852	0.59	0/1158
1	KT	0.43	0/852	0.61	0/1158
1	KU	0.40	0/852	0.60	0/1158
1	KV	0.42	0/852	0.59	0/1158
1	KW	0.43	0/852	0.61	0/1158
1	KX	0.41	0/852	0.60	0/1158
1	KY	0.42	0/852	0.59	0/1158
1	KZ	0.43	0/852	0.61	0/1158
1	LA	0.41	0/852	0.60	0/1158
1	LB	0.42	0/852	0.59	0/1158
1	LC	0.43	0/852	0.61	0/1158
1	LD	0.41	0/852	0.60	0/1158
1	LE	0.42	0/852	0.59	0/1158
1	LF	0.43	0/852	0.61	0/1158

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	LG	0.41	0/852	0.60	0/1158
1	LH	0.42	0/852	0.59	0/1158
1	LI	0.43	0/852	0.61	0/1158
1	LJ	0.41	0/852	0.60	0/1158
1	LK	0.42	0/852	0.59	0/1158
1	LL	0.43	0/852	0.61	0/1158
1	LM	0.41	0/852	0.60	0/1158
1	LN	0.42	0/852	0.59	0/1158
1	LO	0.43	0/852	0.61	0/1158
1	LP	0.41	0/852	0.60	0/1158
1	LQ	0.42	0/852	0.59	0/1158
1	LR	0.43	0/852	0.61	0/1158
1	LS	0.41	0/852	0.60	0/1158
1	LT	0.42	0/852	0.59	0/1158
1	LU	0.43	0/852	0.61	0/1158
1	LV	0.41	0/852	0.60	0/1158
1	LW	0.42	0/852	0.59	0/1158
1	LX	0.43	0/852	0.61	0/1158
1	LY	0.40	0/852	0.60	0/1158
1	LZ	0.42	0/852	0.59	0/1158
1	MA	0.43	0/852	0.61	0/1158
1	MB	0.41	0/852	0.60	0/1158
1	MC	0.42	0/852	0.59	0/1158
1	MD	0.43	0/852	0.61	0/1158
1	ME	0.40	0/852	0.60	0/1158
1	MF	0.42	0/852	0.59	0/1158
1	MG	0.43	0/852	0.61	0/1158
1	MH	0.41	0/852	0.60	0/1158
1	MI	0.42	0/852	0.59	0/1158
1	MJ	0.43	0/852	0.61	0/1158
1	MK	0.40	0/852	0.60	0/1158
1	ML	0.42	0/852	0.59	0/1158
1	MM	0.43	0/852	0.61	0/1158
1	MN	0.41	0/852	0.60	0/1158
1	MO	0.42	0/852	0.59	0/1158
1	MP	0.43	0/852	0.61	0/1158
1	MQ	0.40	0/852	0.60	0/1158
1	MR	0.42	0/852	0.59	0/1158
1	MS	0.43	0/852	0.61	0/1158
1	MT	0.40	0/852	0.60	0/1158
1	MU	0.42	0/852	0.59	0/1158
1	MV	0.43	0/852	0.61	0/1158
1	MW	0.41	0/852	0.60	0/1158

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	MX	0.42	0/852	0.59	0/1158
1	MY	0.43	0/852	0.61	0/1158
1	MZ	0.41	0/852	0.60	0/1158
1	NA	0.42	0/852	0.59	0/1158
1	NB	0.43	0/852	0.61	0/1158
1	NC	0.40	0/852	0.60	0/1158
1	ND	0.42	0/852	0.59	0/1158
1	NE	0.43	0/852	0.61	0/1158
1	NF	0.40	0/852	0.60	0/1158
1	NG	0.42	0/852	0.59	0/1158
1	NH	0.43	0/852	0.61	0/1158
1	NI	0.40	0/852	0.60	0/1158
1	NJ	0.42	0/852	0.59	0/1158
1	NK	0.43	0/852	0.61	0/1158
1	NL	0.40	0/852	0.60	0/1158
1	NM	0.42	0/852	0.59	0/1158
1	NN	0.43	0/852	0.61	0/1158
1	NO	0.40	0/852	0.60	0/1158
1	NP	0.42	0/852	0.59	0/1158
1	NQ	0.44	0/852	0.61	0/1158
1	NR	0.41	0/852	0.60	0/1158
1	NS	0.42	0/852	0.59	0/1158
1	NT	0.43	0/852	0.61	0/1158
1	NU	0.41	0/852	0.60	0/1158
1	NV	0.42	0/852	0.59	0/1158
2	RA	0.72	0/468	1.37	3/722 (0.4%)
2	RB	0.72	0/468	1.37	4/722 (0.6%)
2	RC	0.72	0/468	1.37	3/722 (0.4%)
2	RD	0.72	0/468	1.37	3/722 (0.4%)
2	RE	0.72	0/468	1.37	4/722 (0.6%)
2	RF	0.71	0/468	1.37	4/722 (0.6%)
2	RG	0.72	0/468	1.36	3/722 (0.4%)
2	RH	0.72	0/468	1.37	4/722 (0.6%)
2	RI	0.72	0/468	1.37	5/722 (0.7%)
2	RJ	0.72	0/468	1.37	3/722 (0.4%)
2	RK	0.72	0/468	1.37	3/722 (0.4%)
2	RL	0.72	0/468	1.37	4/722 (0.6%)
2	RM	0.72	0/468	1.37	3/722 (0.4%)
2	RN	0.72	0/468	1.37	3/722 (0.4%)
2	RO	0.72	0/468	1.37	3/722 (0.4%)
2	RP	0.72	0/468	1.37	4/722 (0.6%)
2	RQ	0.71	0/468	1.37	4/722 (0.6%)
2	RR	0.72	0/468	1.37	4/722 (0.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	RS	0.72	0/468	1.37	4/722 (0.6%)
2	RT	0.72	0/468	1.37	4/722 (0.6%)
2	RU	0.72	0/468	1.37	3/722 (0.4%)
2	RV	0.72	0/468	1.37	4/722 (0.6%)
2	RW	0.72	0/468	1.37	3/722 (0.4%)
2	RX	0.72	0/468	1.37	4/722 (0.6%)
2	RY	0.72	0/468	1.37	3/722 (0.4%)
2	RZ	0.72	0/468	1.37	4/722 (0.6%)
2	SA	0.72	0/468	1.37	3/722 (0.4%)
2	SB	0.72	0/468	1.37	3/722 (0.4%)
2	SC	0.72	0/468	1.37	3/722 (0.4%)
2	SD	0.72	0/468	1.37	4/722 (0.6%)
2	SE	0.72	0/468	1.37	4/722 (0.6%)
2	SF	0.72	0/468	1.37	3/722 (0.4%)
2	SG	0.72	0/468	1.37	4/722 (0.6%)
2	SH	0.72	0/468	1.37	3/722 (0.4%)
2	SI	0.72	0/468	1.37	4/722 (0.6%)
2	SJ	0.72	0/468	1.37	4/722 (0.6%)
2	SK	0.72	0/468	1.37	5/722 (0.7%)
2	SL	0.72	0/468	1.37	3/722 (0.4%)
2	SM	0.72	0/468	1.37	3/722 (0.4%)
2	SN	0.72	0/468	1.37	3/722 (0.4%)
2	SO	0.72	0/468	1.37	3/722 (0.4%)
2	SP	0.72	0/468	1.36	3/722 (0.4%)
2	SQ	0.72	0/468	1.37	4/722 (0.6%)
2	SR	0.72	0/468	1.37	4/722 (0.6%)
2	SS	0.72	0/468	1.36	4/722 (0.6%)
2	ST	0.72	0/468	1.36	4/722 (0.6%)
2	SU	0.72	0/468	1.37	4/722 (0.6%)
2	SV	0.72	0/468	1.37	3/722 (0.4%)
2	SW	0.72	0/468	1.37	3/722 (0.4%)
2	SX	0.72	0/468	1.37	3/722 (0.4%)
2	SY	0.72	0/468	1.37	4/722 (0.6%)
2	SZ	0.72	0/468	1.37	4/722 (0.6%)
2	TA	0.72	0/468	1.37	3/722 (0.4%)
2	TB	0.72	0/468	1.36	4/722 (0.6%)
2	TC	0.72	0/468	1.37	3/722 (0.4%)
2	TD	0.72	0/468	1.37	4/722 (0.6%)
2	TE	0.72	0/468	1.37	4/722 (0.6%)
2	TF	0.72	0/468	1.37	3/722 (0.4%)
2	TG	0.72	0/468	1.37	3/722 (0.4%)
2	TH	0.71	0/468	1.37	4/722 (0.6%)
All	All	0.45	0/334800	0.71	213/460200 (0.0%)

There are no bond length outliers.

The worst 5 of 213 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	SD	22	A	N9-C4-C5	-6.36	103.25	105.80
2	RW	22	A	N9-C4-C5	-6.36	103.26	105.80
2	RP	22	A	N9-C4-C5	-6.35	103.26	105.80
2	SN	22	A	N9-C4-C5	-6.34	103.27	105.80
2	RM	22	A	N9-C4-C5	-6.34	103.27	105.80

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	839	0	858	14	0
1	AB	839	0	858	8	0
1	AC	839	0	858	8	0
1	AD	839	0	858	12	0
1	AE	839	0	858	6	0
1	AF	839	0	858	13	0
1	AG	839	0	858	9	0
1	AH	839	0	858	12	0
1	AI	839	0	858	15	0
1	AJ	839	0	858	12	0
1	AK	839	0	858	6	0
1	AL	839	0	858	15	0
1	AM	839	0	858	11	0
1	AN	839	0	858	7	0
1	AO	839	0	858	16	0
1	AP	839	0	858	11	0
1	AQ	839	0	858	8	0
1	AR	839	0	858	14	0
1	AS	839	0	858	12	0
1	AT	839	0	858	10	0
1	AU	839	0	858	10	0
1	AV	839	0	858	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AW	839	0	858	10	0
1	AX	839	0	858	12	0
1	AY	839	0	858	12	0
1	AZ	839	0	858	15	2
1	BA	839	0	858	18	0
1	BB	839	0	858	20	0
1	BC	839	0	858	14	0
1	BD	839	0	858	10	0
1	BE	839	0	858	12	0
1	BF	839	0	858	8	0
1	BG	839	0	858	16	0
1	BH	839	0	858	16	0
1	BI	839	0	858	13	0
1	BJ	839	0	858	11	0
1	BK	839	0	858	10	0
1	BL	839	0	858	10	0
1	BM	839	0	858	13	0
1	BN	839	0	858	24	0
1	BO	839	0	858	15	0
1	BP	839	0	858	13	0
1	BQ	839	0	858	31	0
1	BR	839	0	858	21	0
1	BS	839	0	858	16	0
1	BT	839	0	858	9	0
1	BU	839	0	858	10	0
1	BV	839	0	858	16	0
1	BW	839	0	858	12	0
1	BX	839	0	858	10	0
1	BY	839	0	858	11	0
1	BZ	839	0	858	9	0
1	CA	839	0	858	10	0
1	CB	839	0	858	10	0
1	CC	839	0	858	12	0
1	CD	839	0	858	6	0
1	CE	839	0	858	11	0
1	CF	839	0	858	11	0
1	CG	839	0	858	7	0
1	CH	839	0	858	12	0
1	CI	839	0	858	10	0
1	CJ	839	0	858	12	0
1	CK	839	0	858	13	0
1	CL	839	0	858	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	CM	839	0	858	7	0
1	CN	839	0	858	9	0
1	CO	839	0	858	14	0
1	CP	839	0	858	18	0
1	CQ	839	0	858	15	0
1	CR	839	0	858	8	0
1	CS	839	0	858	11	0
1	CT	839	0	858	16	0
1	CU	839	0	858	12	0
1	CV	839	0	858	11	0
1	CW	839	0	858	11	0
1	CX	839	0	858	22	0
1	CY	839	0	858	11	0
1	CZ	839	0	858	16	0
1	DA	839	0	858	13	0
1	DB	839	0	858	11	0
1	DC	839	0	858	13	0
1	DD	839	0	858	12	0
1	DE	839	0	858	12	0
1	DF	839	0	858	13	0
1	DG	839	0	858	8	0
1	DH	839	0	858	11	0
1	DI	839	0	858	16	0
1	DJ	839	0	858	21	0
1	DK	839	0	858	23	0
1	DL	839	0	858	17	0
1	DM	839	0	858	11	0
1	DN	839	0	858	8	0
1	DO	839	0	858	9	0
1	DP	839	0	858	12	0
1	DQ	839	0	858	10	0
1	DR	839	0	858	13	0
1	DS	839	0	858	9	0
1	DT	839	0	858	8	0
1	DU	839	0	858	11	0
1	DV	839	0	858	10	0
1	DW	839	0	858	9	0
1	DX	839	0	858	12	0
1	DY	839	0	858	11	0
1	DZ	839	0	858	23	0
1	EA	839	0	858	13	0
1	EB	839	0	858	13	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	EC	839	0	858	23	0
1	ED	839	0	858	12	0
1	EE	839	0	858	10	0
1	EF	839	0	858	9	0
1	EG	839	0	858	9	0
1	EH	839	0	858	11	0
1	EI	839	0	858	11	0
1	EJ	839	0	858	9	0
1	EK	839	0	858	13	0
1	EL	839	0	858	11	0
1	EM	839	0	858	18	0
1	EN	839	0	858	9	0
1	EO	839	0	858	10	0
1	EP	839	0	858	10	0
1	EQ	839	0	858	13	0
1	ER	839	0	858	12	0
1	ES	839	0	858	18	0
1	ET	839	0	858	9	0
1	EU	839	0	858	9	1
1	EV	839	0	858	10	0
1	EW	839	0	858	16	0
1	EX	839	0	858	14	0
1	EY	839	0	858	11	0
1	EZ	839	0	858	10	0
1	FA	839	0	858	10	0
1	FB	839	0	858	11	0
1	FC	839	0	858	11	0
1	FD	839	0	858	7	0
1	FE	839	0	858	16	0
1	FF	839	0	858	9	0
1	FG	839	0	858	7	0
1	FH	839	0	858	15	0
1	FI	839	0	858	13	0
1	FJ	839	0	858	10	0
1	FK	839	0	858	7	0
1	FL	839	0	858	11	0
1	FM	839	0	858	11	0
1	FN	839	0	858	8	0
1	FO	839	0	858	7	0
1	FP	839	0	858	12	0
1	FQ	839	0	858	9	0
1	FR	839	0	858	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	FS	839	0	858	12	1
1	FT	839	0	858	9	0
1	FU	839	0	858	10	0
1	FV	839	0	858	7	0
1	FW	839	0	858	10	0
1	FX	839	0	858	9	0
1	FY	839	0	858	8	0
1	FZ	839	0	858	12	0
1	GA	839	0	858	9	0
1	GB	839	0	858	11	0
1	GC	839	0	858	15	0
1	GD	839	0	858	14	0
1	GE	839	0	858	8	0
1	GF	839	0	858	13	0
1	GG	839	0	858	10	0
1	GH	839	0	858	9	0
1	GI	839	0	858	11	0
1	GJ	839	0	858	11	0
1	GK	839	0	858	11	1
1	GL	839	0	858	17	0
1	GM	839	0	858	12	0
1	GN	839	0	858	8	0
1	GO	839	0	858	11	0
1	GP	839	0	858	14	0
1	GQ	839	0	858	8	0
1	GR	839	0	858	12	0
1	GS	839	0	858	8	0
1	GT	839	0	858	10	0
1	GU	839	0	858	15	0
1	GV	839	0	858	13	0
1	GW	839	0	858	11	0
1	GX	839	0	858	19	0
1	GY	839	0	858	12	0
1	GZ	839	0	858	9	0
1	HA	839	0	858	21	0
1	HB	839	0	858	9	0
1	HC	839	0	858	9	0
1	HD	839	0	858	11	0
1	HE	839	0	858	18	0
1	HF	839	0	858	10	0
1	HG	839	0	858	8	0
1	HH	839	0	858	12	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	HI	839	0	858	25	0
1	HJ	839	0	858	11	0
1	HK	839	0	858	11	0
1	HL	839	0	858	10	0
1	HM	839	0	858	20	0
1	HN	839	0	858	12	0
1	HO	839	0	858	16	0
1	HP	839	0	858	12	0
1	HQ	839	0	858	8	0
1	HR	839	0	858	8	1
1	HS	839	0	858	11	0
1	HT	839	0	858	9	0
1	HU	839	0	858	8	0
1	HV	839	0	858	11	0
1	HW	839	0	858	10	0
1	HX	839	0	858	10	0
1	HY	839	0	858	10	0
1	HZ	839	0	858	10	0
1	IA	839	0	858	7	0
1	IB	839	0	858	17	0
1	IC	839	0	858	22	0
1	ID	839	0	858	19	0
1	IE	839	0	858	16	0
1	IF	839	0	858	8	0
1	IG	839	0	858	10	0
1	IH	839	0	858	16	0
1	II	839	0	858	12	0
1	IJ	839	0	858	20	0
1	IK	839	0	858	12	0
1	IL	839	0	858	9	0
1	IM	839	0	858	7	0
1	IN	839	0	858	13	0
1	IO	839	0	858	9	0
1	IP	839	0	858	9	0
1	IQ	839	0	858	15	0
1	IR	839	0	858	13	0
1	IS	839	0	858	11	0
1	IT	839	0	858	13	0
1	IU	839	0	858	9	0
1	IV	839	0	858	11	0
1	IW	839	0	858	11	0
1	IX	839	0	858	11	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	IY	839	0	858	11	0
1	IZ	839	0	858	13	0
1	JA	839	0	858	13	0
1	JB	839	0	858	7	0
1	JC	839	0	858	15	0
1	JD	839	0	858	10	0
1	JE	839	0	858	17	0
1	JF	839	0	858	14	0
1	JG	839	0	858	9	0
1	JH	839	0	858	11	0
1	JI	839	0	858	16	0
1	JJ	839	0	858	17	0
1	JK	839	0	858	11	0
1	JL	839	0	858	12	0
1	JM	839	0	858	12	0
1	JN	839	0	858	18	0
1	JO	839	0	858	16	0
1	JP	839	0	858	9	0
1	JQ	839	0	858	9	0
1	JR	839	0	858	11	0
1	JS	839	0	858	13	0
1	JT	839	0	858	9	0
1	JU	839	0	858	11	0
1	JV	839	0	858	9	0
1	JW	839	0	858	8	0
1	JX	839	0	858	11	0
1	JY	839	0	858	11	0
1	JZ	839	0	858	7	0
1	KA	839	0	858	11	0
1	KB	839	0	858	10	0
1	KC	839	0	858	9	0
1	KD	839	0	858	12	0
1	KE	839	0	858	12	0
1	KF	839	0	858	12	0
1	KG	839	0	858	11	0
1	KH	839	0	858	18	0
1	KI	839	0	858	8	1
1	KJ	839	0	858	16	0
1	KK	839	0	858	11	0
1	KL	839	0	858	10	0
1	KM	839	0	858	23	0
1	KN	839	0	858	11	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	KO	839	0	858	8	0
1	KP	839	0	858	9	0
1	KQ	839	0	858	13	0
1	KR	839	0	858	11	0
1	KS	839	0	858	9	0
1	KT	839	0	858	11	0
1	KU	839	0	858	10	0
1	KV	839	0	858	13	0
1	KW	839	0	858	15	0
1	KX	839	0	858	8	0
1	KY	839	0	858	19	0
1	KZ	839	0	858	12	0
1	LA	839	0	858	8	0
1	LB	839	0	858	12	0
1	LC	839	0	858	14	0
1	LD	839	0	858	8	0
1	LE	839	0	858	11	0
1	LF	839	0	858	13	0
1	LG	839	0	858	9	0
1	LH	839	0	858	10	0
1	LI	839	0	858	10	0
1	LJ	839	0	858	7	0
1	LK	839	0	858	7	0
1	LL	839	0	858	11	0
1	LM	839	0	858	12	0
1	LN	839	0	858	14	0
1	LO	839	0	858	12	0
1	LP	839	0	858	8	0
1	LQ	839	0	858	17	0
1	LR	839	0	858	17	0
1	LS	839	0	858	14	0
1	LT	839	0	858	16	0
1	LU	839	0	858	11	0
1	LV	839	0	858	8	0
1	LW	839	0	858	12	0
1	LX	839	0	858	10	0
1	LY	839	0	858	12	0
1	LZ	839	0	858	10	0
1	MA	839	0	858	9	0
1	MB	839	0	858	8	0
1	MC	839	0	858	17	0
1	MD	839	0	858	11	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	ME	839	0	858	16	1
1	MF	839	0	858	12	0
1	MG	839	0	858	11	0
1	MH	839	0	858	9	0
1	MI	839	0	858	10	0
1	MJ	839	0	858	13	0
1	MK	839	0	858	11	0
1	ML	839	0	858	14	0
1	MM	839	0	858	32	0
1	MN	839	0	858	17	0
1	MO	839	0	858	15	0
1	MP	839	0	858	11	0
1	MQ	839	0	858	11	0
1	MR	839	0	858	19	0
1	MS	839	0	858	17	0
1	MT	839	0	858	11	0
1	MU	839	0	858	14	0
1	MV	839	0	858	11	0
1	MW	839	0	858	13	0
1	MX	839	0	858	9	0
1	MY	839	0	858	11	0
1	MZ	839	0	858	9	0
1	NA	839	0	858	15	0
1	NB	839	0	858	9	0
1	NC	839	0	858	9	0
1	ND	839	0	858	9	0
1	NE	839	0	858	10	0
1	NF	839	0	858	7	0
1	NG	839	0	858	11	0
1	NH	839	0	858	9	0
1	NI	839	0	858	12	0
1	NJ	839	0	858	9	0
1	NK	839	0	858	10	0
1	NL	839	0	858	9	2
1	NM	839	0	858	10	0
1	NN	839	0	858	12	0
1	NO	839	0	858	12	0
1	NP	839	0	858	9	0
1	NQ	839	0	858	12	0
1	NR	839	0	858	10	0
1	NS	839	0	858	8	0
1	NT	839	0	858	16	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	NU	839	0	858	12	0
1	NV	839	0	858	17	0
2	RA	420	0	212	7	0
2	RB	420	0	212	6	0
2	RC	420	0	212	3	0
2	RD	420	0	212	3	0
2	RE	420	0	212	3	0
2	RF	420	0	212	5	0
2	RG	420	0	212	6	0
2	RH	420	0	212	3	0
2	RI	420	0	212	8	0
2	RJ	420	0	212	6	0
2	RK	420	0	212	7	0
2	RL	420	0	212	5	0
2	RM	420	0	212	3	0
2	RN	420	0	212	4	0
2	RO	420	0	212	6	0
2	RP	420	0	212	3	0
2	RQ	420	0	212	3	0
2	RR	420	0	212	4	0
2	RS	420	0	212	4	0
2	RT	420	0	212	4	0
2	RU	420	0	212	4	0
2	RV	420	0	212	7	0
2	RW	420	0	212	5	0
2	RX	420	0	212	3	0
2	RY	420	0	212	6	0
2	RZ	420	0	212	7	0
2	SA	420	0	212	3	0
2	SB	420	0	212	7	0
2	SC	420	0	212	6	0
2	SD	420	0	212	6	0
2	SE	420	0	212	7	0
2	SF	420	0	212	5	0
2	SG	420	0	212	7	0
2	SH	420	0	212	7	0
2	SI	420	0	212	6	0
2	SJ	420	0	212	6	0
2	SK	420	0	212	7	0
2	SL	420	0	212	5	0
2	SM	420	0	212	3	0
2	SN	420	0	212	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	SO	420	0	212	6	0
2	SP	420	0	212	6	0
2	SQ	420	0	212	5	0
2	SR	420	0	212	3	0
2	SS	420	0	212	6	0
2	ST	420	0	212	4	0
2	SU	420	0	212	4	0
2	SV	420	0	212	5	0
2	SW	420	0	212	7	0
2	SX	420	0	212	10	0
2	SY	420	0	212	5	0
2	SZ	420	0	212	3	0
2	TA	420	0	212	4	0
2	TB	420	0	212	4	0
2	TC	420	0	212	5	0
2	TD	420	0	212	4	0
2	TE	420	0	212	6	0
2	TF	420	0	212	4	0
2	TG	420	0	212	4	0
2	TH	420	0	212	7	0
All	All	327240	0	321600	2968	5

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 5.

The worst 5 of 2968 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:EC:98:THR:HG23	1:MM:98:THR:HG23	1.36	1.05
1:EC:98:THR:CG2	1:MM:98:THR:HG23	1.95	0.96
1:CX:40:GLY:HA2	1:DK:109:LEU:O	1.71	0.90
1:EC:98:THR:HG23	1:MM:98:THR:CG2	2.06	0.83
1:HE:40:GLY:HA2	1:ID:109:LEU:O	1.78	0.83

All (5) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HR:10:SER:OG	1:KI:24:SER:CB[1_655]	1.58	0.62
1:AZ:101:ASP:OD2	1:NL:10:SER:N[1_545]	2.02	0.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:101:ASP:OD2	1:NL:10:SER:OG[1_545]	2.11	0.09
1:EU:10:SER:OG	1:GK:24:SER:CB[1_655]	2.13	0.07
1:FS:9:GLY:O	1:ME:104:ARG:NH2[1_446]	2.13	0.07

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	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AB	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AC	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	AD	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AE	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AF	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	AG	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AH	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AI	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	AJ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AK	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AL	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	AM	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AN	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AO	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	AP	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AQ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AR	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	AS	111/113 (98%)	109 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AT	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AU	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	AV	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AW	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AX	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	AY	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	AZ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BA	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	BB	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BC	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BD	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	BE	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BF	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BG	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	BH	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BI	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BJ	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	BK	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BL	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BM	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	BN	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BO	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BP	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	BQ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BR	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BS	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	BT	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BU	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BV	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	BW	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	BX	111/113 (98%)	109 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BY	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	BZ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CA	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CB	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	CC	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CD	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CE	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	CF	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CG	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CH	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	CI	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CJ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CK	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	CL	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CM	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CN	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	CO	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CP	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CQ	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	CR	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CS	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CT	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	CU	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CV	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CW	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	CX	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CY	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	CZ	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	DA	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DB	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DC	111/113 (98%)	110 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	DD	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DE	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DF	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	DG	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DH	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DI	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	DJ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DK	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DL	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	DM	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DN	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DO	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	DP	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DQ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DR	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	DS	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DT	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DU	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	DV	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DW	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DX	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	DY	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	DZ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	EA	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	EB	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	EC	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	ED	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	EE	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	EF	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	EG	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	EH	111/113 (98%)	109 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	EI	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	EJ	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	EK	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	EL	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	EM	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	EN	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	EO	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	EP	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	EQ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	ER	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	ES	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	ET	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	EU	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	EV	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	EW	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	EX	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	EY	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	EZ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FA	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FB	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	FC	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FD	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FE	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	FF	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FG	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FH	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	FI	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FJ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FK	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	FL	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FM	111/113 (98%)	109 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	FN	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	FO	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FP	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FQ	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	FR	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FS	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FT	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	FU	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FV	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FW	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	FX	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FY	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	FZ	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	GA	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GB	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GC	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	GD	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GE	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GF	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	GG	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GH	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GI	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	GJ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GK	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GL	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	GM	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GN	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GO	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	GP	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GQ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GR	111/113 (98%)	110 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	GS	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GT	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GU	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	GV	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GW	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GX	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	GY	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	GZ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HA	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	HB	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HC	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HD	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	HE	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HF	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HG	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	HH	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HI	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HJ	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	HK	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HL	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HM	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	HN	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HO	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HP	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	HQ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HR	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HS	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	HT	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HU	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HV	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	HW	111/113 (98%)	109 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	HX	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	HY	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	HZ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IA	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IB	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	IC	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	ID	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IE	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	IF	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IG	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IH	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	II	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IJ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IK	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	IL	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IM	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IN	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	IO	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IP	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IQ	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	IR	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IS	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IT	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	IU	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IV	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IW	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	IX	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IY	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	IZ	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	JA	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JB	111/113 (98%)	109 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	JC	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	JD	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JE	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JF	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	JG	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JH	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JI	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	JJ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JK	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JL	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	JM	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JN	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JO	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	JP	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JQ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JR	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	JS	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JT	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JU	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	JV	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JW	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JX	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	JY	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	JZ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KA	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	KB	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KC	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KD	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	KE	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KF	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KG	111/113 (98%)	110 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	KH	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KI	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KJ	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	KK	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KL	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KM	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	KN	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KO	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KP	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	KQ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KR	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KS	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	KT	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KU	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KV	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	KW	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KX	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	KY	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	KZ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LA	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LB	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	LC	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LD	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LE	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	LF	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LG	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LH	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	LI	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LJ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LK	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	LL	111/113 (98%)	109 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	LM	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LN	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	LO	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LP	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LQ	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	LR	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LS	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LT	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	LU	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LV	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LW	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	LX	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LY	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	LZ	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	MA	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MB	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MC	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	MD	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	ME	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MF	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	MG	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MH	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MI	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	MJ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MK	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	ML	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	MM	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MN	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MO	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	MP	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MQ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	MR	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	MS	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MT	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MU	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	MV	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MW	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MX	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	MY	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	MZ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NA	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	NB	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NC	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	ND	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	NE	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NF	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NG	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	NH	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NI	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NJ	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	NK	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NL	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NM	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	NN	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NO	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NP	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	NQ	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NR	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NS	111/113 (98%)	110 (99%)	1 (1%)	0	100	100
1	NT	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NU	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
1	NV	111/113 (98%)	110 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	39960/40680 (98%)	39360 (98%)	600 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AA	91/91 (100%)	91 (100%)	0	100	100
1	AB	91/91 (100%)	91 (100%)	0	100	100
1	AC	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	AD	91/91 (100%)	91 (100%)	0	100	100
1	AE	91/91 (100%)	91 (100%)	0	100	100
1	AF	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	AG	91/91 (100%)	91 (100%)	0	100	100
1	AH	91/91 (100%)	91 (100%)	0	100	100
1	AI	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	AJ	91/91 (100%)	91 (100%)	0	100	100
1	AK	91/91 (100%)	91 (100%)	0	100	100
1	AL	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	AM	91/91 (100%)	91 (100%)	0	100	100
1	AN	91/91 (100%)	91 (100%)	0	100	100
1	AO	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	AP	91/91 (100%)	91 (100%)	0	100	100
1	AQ	91/91 (100%)	91 (100%)	0	100	100
1	AR	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	AS	91/91 (100%)	91 (100%)	0	100	100
1	AT	91/91 (100%)	91 (100%)	0	100	100
1	AU	91/91 (100%)	90 (99%)	1 (1%)	73	88

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AV	91/91 (100%)	91 (100%)	0	100	100
1	AW	91/91 (100%)	91 (100%)	0	100	100
1	AX	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	AY	91/91 (100%)	91 (100%)	0	100	100
1	AZ	91/91 (100%)	91 (100%)	0	100	100
1	BA	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	BB	91/91 (100%)	91 (100%)	0	100	100
1	BC	91/91 (100%)	91 (100%)	0	100	100
1	BD	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	BE	91/91 (100%)	91 (100%)	0	100	100
1	BF	91/91 (100%)	91 (100%)	0	100	100
1	BG	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	BH	91/91 (100%)	91 (100%)	0	100	100
1	BI	91/91 (100%)	91 (100%)	0	100	100
1	BJ	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	BK	91/91 (100%)	91 (100%)	0	100	100
1	BL	91/91 (100%)	91 (100%)	0	100	100
1	BM	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	BN	91/91 (100%)	91 (100%)	0	100	100
1	BO	91/91 (100%)	91 (100%)	0	100	100
1	BP	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	BQ	91/91 (100%)	91 (100%)	0	100	100
1	BR	91/91 (100%)	91 (100%)	0	100	100
1	BS	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	BT	91/91 (100%)	91 (100%)	0	100	100
1	BU	91/91 (100%)	91 (100%)	0	100	100
1	BV	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	BW	91/91 (100%)	91 (100%)	0	100	100
1	BX	91/91 (100%)	91 (100%)	0	100	100
1	BY	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	BZ	91/91 (100%)	91 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	CA	91/91 (100%)	91 (100%)	0	100	100
1	CB	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	CC	91/91 (100%)	91 (100%)	0	100	100
1	CD	91/91 (100%)	91 (100%)	0	100	100
1	CE	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	CF	91/91 (100%)	91 (100%)	0	100	100
1	CG	91/91 (100%)	91 (100%)	0	100	100
1	CH	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	CI	91/91 (100%)	91 (100%)	0	100	100
1	CJ	91/91 (100%)	91 (100%)	0	100	100
1	CK	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	CL	91/91 (100%)	91 (100%)	0	100	100
1	CM	91/91 (100%)	91 (100%)	0	100	100
1	CN	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	CO	91/91 (100%)	91 (100%)	0	100	100
1	CP	91/91 (100%)	91 (100%)	0	100	100
1	CQ	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	CR	91/91 (100%)	91 (100%)	0	100	100
1	CS	91/91 (100%)	91 (100%)	0	100	100
1	CT	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	CU	91/91 (100%)	91 (100%)	0	100	100
1	CV	91/91 (100%)	91 (100%)	0	100	100
1	CW	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	CX	91/91 (100%)	91 (100%)	0	100	100
1	CY	91/91 (100%)	91 (100%)	0	100	100
1	CZ	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	DA	91/91 (100%)	91 (100%)	0	100	100
1	DB	91/91 (100%)	91 (100%)	0	100	100
1	DC	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	DD	91/91 (100%)	91 (100%)	0	100	100
1	DE	91/91 (100%)	91 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	DF	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	DG	91/91 (100%)	91 (100%)	0	100	100
1	DH	91/91 (100%)	91 (100%)	0	100	100
1	DI	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	DJ	91/91 (100%)	91 (100%)	0	100	100
1	DK	91/91 (100%)	91 (100%)	0	100	100
1	DL	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	DM	91/91 (100%)	91 (100%)	0	100	100
1	DN	91/91 (100%)	91 (100%)	0	100	100
1	DO	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	DP	91/91 (100%)	91 (100%)	0	100	100
1	DQ	91/91 (100%)	91 (100%)	0	100	100
1	DR	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	DS	91/91 (100%)	91 (100%)	0	100	100
1	DT	91/91 (100%)	91 (100%)	0	100	100
1	DU	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	DV	91/91 (100%)	91 (100%)	0	100	100
1	DW	91/91 (100%)	91 (100%)	0	100	100
1	DX	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	DY	91/91 (100%)	91 (100%)	0	100	100
1	DZ	91/91 (100%)	91 (100%)	0	100	100
1	EA	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	EB	91/91 (100%)	91 (100%)	0	100	100
1	EC	91/91 (100%)	91 (100%)	0	100	100
1	ED	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	EE	91/91 (100%)	91 (100%)	0	100	100
1	EF	91/91 (100%)	91 (100%)	0	100	100
1	EG	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	EH	91/91 (100%)	91 (100%)	0	100	100
1	EI	91/91 (100%)	91 (100%)	0	100	100
1	EJ	91/91 (100%)	90 (99%)	1 (1%)	73	88

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	EK	91/91 (100%)	91 (100%)	0	100	100
1	EL	91/91 (100%)	91 (100%)	0	100	100
1	EM	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	EN	91/91 (100%)	91 (100%)	0	100	100
1	EO	91/91 (100%)	91 (100%)	0	100	100
1	EP	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	EQ	91/91 (100%)	91 (100%)	0	100	100
1	ER	91/91 (100%)	91 (100%)	0	100	100
1	ES	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	ET	91/91 (100%)	91 (100%)	0	100	100
1	EU	91/91 (100%)	91 (100%)	0	100	100
1	EV	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	EW	91/91 (100%)	91 (100%)	0	100	100
1	EX	91/91 (100%)	91 (100%)	0	100	100
1	EY	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	EZ	91/91 (100%)	91 (100%)	0	100	100
1	FA	91/91 (100%)	91 (100%)	0	100	100
1	FB	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	FC	91/91 (100%)	91 (100%)	0	100	100
1	FD	91/91 (100%)	91 (100%)	0	100	100
1	FE	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	FF	91/91 (100%)	91 (100%)	0	100	100
1	FG	91/91 (100%)	91 (100%)	0	100	100
1	FH	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	FI	91/91 (100%)	91 (100%)	0	100	100
1	FJ	91/91 (100%)	91 (100%)	0	100	100
1	FK	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	FL	91/91 (100%)	91 (100%)	0	100	100
1	FM	91/91 (100%)	91 (100%)	0	100	100
1	FN	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	FO	91/91 (100%)	91 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	FP	91/91 (100%)	91 (100%)	0	100	100
1	FQ	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	FR	91/91 (100%)	91 (100%)	0	100	100
1	FS	91/91 (100%)	91 (100%)	0	100	100
1	FT	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	FU	91/91 (100%)	91 (100%)	0	100	100
1	FV	91/91 (100%)	91 (100%)	0	100	100
1	FW	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	FX	91/91 (100%)	91 (100%)	0	100	100
1	FY	91/91 (100%)	91 (100%)	0	100	100
1	FZ	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	GA	91/91 (100%)	91 (100%)	0	100	100
1	GB	91/91 (100%)	91 (100%)	0	100	100
1	GC	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	GD	91/91 (100%)	91 (100%)	0	100	100
1	GE	91/91 (100%)	91 (100%)	0	100	100
1	GF	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	GG	91/91 (100%)	91 (100%)	0	100	100
1	GH	91/91 (100%)	91 (100%)	0	100	100
1	GI	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	GJ	91/91 (100%)	91 (100%)	0	100	100
1	GK	91/91 (100%)	91 (100%)	0	100	100
1	GL	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	GM	91/91 (100%)	91 (100%)	0	100	100
1	GN	91/91 (100%)	91 (100%)	0	100	100
1	GO	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	GP	91/91 (100%)	91 (100%)	0	100	100
1	GQ	91/91 (100%)	91 (100%)	0	100	100
1	GR	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	GS	91/91 (100%)	91 (100%)	0	100	100
1	GT	91/91 (100%)	91 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	GU	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	GV	91/91 (100%)	91 (100%)	0	100	100
1	GW	91/91 (100%)	91 (100%)	0	100	100
1	GX	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	GY	91/91 (100%)	91 (100%)	0	100	100
1	GZ	91/91 (100%)	91 (100%)	0	100	100
1	HA	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	HB	91/91 (100%)	91 (100%)	0	100	100
1	HC	91/91 (100%)	91 (100%)	0	100	100
1	HD	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	HE	91/91 (100%)	91 (100%)	0	100	100
1	HF	91/91 (100%)	91 (100%)	0	100	100
1	HG	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	HH	91/91 (100%)	91 (100%)	0	100	100
1	HI	91/91 (100%)	91 (100%)	0	100	100
1	HJ	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	HK	91/91 (100%)	91 (100%)	0	100	100
1	HL	91/91 (100%)	91 (100%)	0	100	100
1	HM	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	HN	91/91 (100%)	91 (100%)	0	100	100
1	HO	91/91 (100%)	91 (100%)	0	100	100
1	HP	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	HQ	91/91 (100%)	91 (100%)	0	100	100
1	HR	91/91 (100%)	91 (100%)	0	100	100
1	HS	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	HT	91/91 (100%)	91 (100%)	0	100	100
1	HU	91/91 (100%)	91 (100%)	0	100	100
1	HV	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	HW	91/91 (100%)	91 (100%)	0	100	100
1	HX	91/91 (100%)	91 (100%)	0	100	100
1	HY	91/91 (100%)	90 (99%)	1 (1%)	73	88

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	HZ	91/91 (100%)	91 (100%)	0	100	100
1	IA	91/91 (100%)	91 (100%)	0	100	100
1	IB	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	IC	91/91 (100%)	91 (100%)	0	100	100
1	ID	91/91 (100%)	91 (100%)	0	100	100
1	IE	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	IF	91/91 (100%)	91 (100%)	0	100	100
1	IG	91/91 (100%)	91 (100%)	0	100	100
1	IH	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	II	91/91 (100%)	91 (100%)	0	100	100
1	IJ	91/91 (100%)	91 (100%)	0	100	100
1	IK	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	IL	91/91 (100%)	91 (100%)	0	100	100
1	IM	91/91 (100%)	91 (100%)	0	100	100
1	IN	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	IO	91/91 (100%)	91 (100%)	0	100	100
1	IP	91/91 (100%)	91 (100%)	0	100	100
1	IQ	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	IR	91/91 (100%)	91 (100%)	0	100	100
1	IS	91/91 (100%)	91 (100%)	0	100	100
1	IT	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	IU	91/91 (100%)	91 (100%)	0	100	100
1	IV	91/91 (100%)	91 (100%)	0	100	100
1	IW	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	IX	91/91 (100%)	91 (100%)	0	100	100
1	IY	91/91 (100%)	91 (100%)	0	100	100
1	IZ	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	JA	91/91 (100%)	91 (100%)	0	100	100
1	JB	91/91 (100%)	91 (100%)	0	100	100
1	JC	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	JD	91/91 (100%)	91 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	JE	91/91 (100%)	91 (100%)	0	100	100
1	JF	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	JG	91/91 (100%)	91 (100%)	0	100	100
1	JH	91/91 (100%)	91 (100%)	0	100	100
1	JI	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	JJ	91/91 (100%)	91 (100%)	0	100	100
1	JK	91/91 (100%)	91 (100%)	0	100	100
1	JL	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	JM	91/91 (100%)	91 (100%)	0	100	100
1	JN	91/91 (100%)	91 (100%)	0	100	100
1	JO	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	JP	91/91 (100%)	91 (100%)	0	100	100
1	JQ	91/91 (100%)	91 (100%)	0	100	100
1	JR	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	JS	91/91 (100%)	91 (100%)	0	100	100
1	JT	91/91 (100%)	91 (100%)	0	100	100
1	JU	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	JV	91/91 (100%)	91 (100%)	0	100	100
1	JW	91/91 (100%)	91 (100%)	0	100	100
1	JX	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	JY	91/91 (100%)	91 (100%)	0	100	100
1	JZ	91/91 (100%)	91 (100%)	0	100	100
1	KA	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	KB	91/91 (100%)	91 (100%)	0	100	100
1	KC	91/91 (100%)	91 (100%)	0	100	100
1	KD	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	KE	91/91 (100%)	91 (100%)	0	100	100
1	KF	91/91 (100%)	91 (100%)	0	100	100
1	KG	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	KH	91/91 (100%)	91 (100%)	0	100	100
1	KI	91/91 (100%)	91 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	KJ	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	KK	91/91 (100%)	91 (100%)	0	100	100
1	KL	91/91 (100%)	91 (100%)	0	100	100
1	KM	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	KN	91/91 (100%)	91 (100%)	0	100	100
1	KO	91/91 (100%)	91 (100%)	0	100	100
1	KP	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	KQ	91/91 (100%)	91 (100%)	0	100	100
1	KR	91/91 (100%)	91 (100%)	0	100	100
1	KS	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	KT	91/91 (100%)	91 (100%)	0	100	100
1	KU	91/91 (100%)	91 (100%)	0	100	100
1	KV	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	KW	91/91 (100%)	91 (100%)	0	100	100
1	KX	91/91 (100%)	91 (100%)	0	100	100
1	KY	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	KZ	91/91 (100%)	91 (100%)	0	100	100
1	LA	91/91 (100%)	91 (100%)	0	100	100
1	LB	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	LC	91/91 (100%)	91 (100%)	0	100	100
1	LD	91/91 (100%)	91 (100%)	0	100	100
1	LE	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	LF	91/91 (100%)	91 (100%)	0	100	100
1	LG	91/91 (100%)	91 (100%)	0	100	100
1	LH	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	LI	91/91 (100%)	91 (100%)	0	100	100
1	LJ	91/91 (100%)	91 (100%)	0	100	100
1	LK	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	LL	91/91 (100%)	91 (100%)	0	100	100
1	LM	91/91 (100%)	91 (100%)	0	100	100
1	LN	91/91 (100%)	90 (99%)	1 (1%)	73	88

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	LO	91/91 (100%)	91 (100%)	0	100	100
1	LP	91/91 (100%)	91 (100%)	0	100	100
1	LQ	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	LR	91/91 (100%)	91 (100%)	0	100	100
1	LS	91/91 (100%)	91 (100%)	0	100	100
1	LT	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	LU	91/91 (100%)	91 (100%)	0	100	100
1	LV	91/91 (100%)	91 (100%)	0	100	100
1	LW	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	LX	91/91 (100%)	91 (100%)	0	100	100
1	LY	91/91 (100%)	91 (100%)	0	100	100
1	LZ	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	MA	91/91 (100%)	91 (100%)	0	100	100
1	MB	91/91 (100%)	91 (100%)	0	100	100
1	MC	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	MD	91/91 (100%)	91 (100%)	0	100	100
1	ME	91/91 (100%)	91 (100%)	0	100	100
1	MF	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	MG	91/91 (100%)	91 (100%)	0	100	100
1	MH	91/91 (100%)	91 (100%)	0	100	100
1	MI	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	MJ	91/91 (100%)	91 (100%)	0	100	100
1	MK	91/91 (100%)	91 (100%)	0	100	100
1	ML	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	MM	91/91 (100%)	91 (100%)	0	100	100
1	MN	91/91 (100%)	91 (100%)	0	100	100
1	MO	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	MP	91/91 (100%)	91 (100%)	0	100	100
1	MQ	91/91 (100%)	91 (100%)	0	100	100
1	MR	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	MS	91/91 (100%)	91 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	MT	91/91 (100%)	91 (100%)	0	100	100
1	MU	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	MV	91/91 (100%)	91 (100%)	0	100	100
1	MW	91/91 (100%)	91 (100%)	0	100	100
1	MX	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	MY	91/91 (100%)	91 (100%)	0	100	100
1	MZ	91/91 (100%)	91 (100%)	0	100	100
1	NA	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	NB	91/91 (100%)	91 (100%)	0	100	100
1	NC	91/91 (100%)	91 (100%)	0	100	100
1	ND	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	NE	91/91 (100%)	91 (100%)	0	100	100
1	NF	91/91 (100%)	91 (100%)	0	100	100
1	NG	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	NH	91/91 (100%)	91 (100%)	0	100	100
1	NI	91/91 (100%)	91 (100%)	0	100	100
1	NJ	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	NK	91/91 (100%)	91 (100%)	0	100	100
1	NL	91/91 (100%)	91 (100%)	0	100	100
1	NM	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	NN	91/91 (100%)	91 (100%)	0	100	100
1	NO	91/91 (100%)	91 (100%)	0	100	100
1	NP	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	NQ	91/91 (100%)	91 (100%)	0	100	100
1	NR	91/91 (100%)	91 (100%)	0	100	100
1	NS	91/91 (100%)	90 (99%)	1 (1%)	73	88
1	NT	91/91 (100%)	91 (100%)	0	100	100
1	NU	91/91 (100%)	91 (100%)	0	100	100
1	NV	91/91 (100%)	90 (99%)	1 (1%)	73	88
All	All	32760/32760 (100%)	32640 (100%)	120 (0%)	91	96

5 of 120 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	GR	106	ASP
1	MU	106	ASP
1	IH	106	ASP
1	MR	106	ASP
1	NS	106	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 271 such sidechains are listed below:

Mol	Chain	Res	Type
1	LV	97	ASN
1	MC	97	ASN
1	NH	97	ASN
1	EZ	97	ASN
1	EW	97	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	RA	18/30 (60%)	0	0
2	RB	18/30 (60%)	0	0
2	RC	18/30 (60%)	0	0
2	RD	18/30 (60%)	0	0
2	RE	18/30 (60%)	0	0
2	RF	18/30 (60%)	0	0
2	RG	18/30 (60%)	0	0
2	RH	18/30 (60%)	0	0
2	RI	18/30 (60%)	0	0
2	RJ	18/30 (60%)	0	0
2	RK	18/30 (60%)	0	0
2	RL	18/30 (60%)	0	0
2	RM	18/30 (60%)	0	0
2	RN	18/30 (60%)	0	0
2	RO	18/30 (60%)	0	0
2	RP	18/30 (60%)	0	0
2	RQ	18/30 (60%)	0	0
2	RR	18/30 (60%)	0	0
2	RS	18/30 (60%)	0	0
2	RT	18/30 (60%)	0	0
2	RU	18/30 (60%)	0	0
2	RV	18/30 (60%)	0	0
2	RW	18/30 (60%)	0	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	RX	18/30 (60%)	0	0
2	RY	18/30 (60%)	0	0
2	RZ	18/30 (60%)	0	0
2	SA	18/30 (60%)	0	0
2	SB	18/30 (60%)	0	0
2	SC	18/30 (60%)	0	0
2	SD	18/30 (60%)	0	0
2	SE	18/30 (60%)	0	0
2	SF	18/30 (60%)	0	0
2	SG	18/30 (60%)	0	0
2	SH	18/30 (60%)	0	0
2	SI	18/30 (60%)	0	0
2	SJ	18/30 (60%)	0	0
2	SK	18/30 (60%)	0	0
2	SL	18/30 (60%)	0	0
2	SM	18/30 (60%)	0	0
2	SN	18/30 (60%)	0	0
2	SO	18/30 (60%)	0	0
2	SP	18/30 (60%)	0	0
2	SQ	18/30 (60%)	0	0
2	SR	18/30 (60%)	0	0
2	SS	18/30 (60%)	0	0
2	ST	18/30 (60%)	0	0
2	SU	18/30 (60%)	0	0
2	SV	18/30 (60%)	0	0
2	SW	18/30 (60%)	0	0
2	SX	18/30 (60%)	0	0
2	SY	18/30 (60%)	0	0
2	SZ	18/30 (60%)	0	0
2	TA	18/30 (60%)	0	0
2	TB	18/30 (60%)	0	0
2	TC	18/30 (60%)	0	0
2	TD	18/30 (60%)	0	0
2	TE	18/30 (60%)	0	0
2	TF	18/30 (60%)	0	0
2	TG	18/30 (60%)	0	0
2	TH	18/30 (60%)	0	0
All	All	1080/1800 (60%)	0	0

There are no RNA backbone outliers to report.

There are no RNA pucker outliers to report.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data i

6.1 Protein, DNA and RNA chains i

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	113/113 (100%)	-0.33	0 100 100	51, 87, 163, 193	0
1	AB	113/113 (100%)	-0.28	0 100 100	49, 83, 126, 154	0
1	AC	113/113 (100%)	-0.33	0 100 100	54, 96, 147, 177	0
1	AD	113/113 (100%)	-0.13	0 100 100	51, 87, 163, 193	0
1	AE	113/113 (100%)	-0.11	0 100 100	49, 83, 126, 154	0
1	AF	113/113 (100%)	-0.08	0 100 100	54, 96, 147, 177	0
1	AG	113/113 (100%)	-0.36	0 100 100	51, 87, 163, 193	0
1	AH	113/113 (100%)	-0.18	1 (0%) 84 79	49, 83, 126, 154	0
1	AI	113/113 (100%)	-0.14	0 100 100	54, 96, 147, 177	0
1	AJ	113/113 (100%)	-0.30	0 100 100	51, 87, 163, 193	0
1	AK	113/113 (100%)	-0.23	0 100 100	49, 83, 126, 154	0
1	AL	113/113 (100%)	-0.22	0 100 100	54, 96, 147, 177	0
1	AM	113/113 (100%)	-0.22	1 (0%) 84 79	51, 87, 163, 193	0
1	AN	113/113 (100%)	-0.27	0 100 100	49, 83, 126, 154	0
1	AO	113/113 (100%)	-0.10	0 100 100	54, 96, 147, 177	0
1	AP	113/113 (100%)	-0.20	0 100 100	51, 87, 163, 193	0
1	AQ	113/113 (100%)	-0.20	0 100 100	49, 83, 126, 154	0
1	AR	113/113 (100%)	-0.08	0 100 100	54, 96, 147, 177	0
1	AS	113/113 (100%)	-0.27	0 100 100	51, 87, 163, 193	0
1	AT	113/113 (100%)	-0.20	0 100 100	49, 83, 126, 154	0
1	AU	113/113 (100%)	-0.07	0 100 100	54, 96, 147, 177	0
1	AV	113/113 (100%)	-0.16	0 100 100	51, 87, 163, 193	0
1	AW	113/113 (100%)	-0.19	0 100 100	49, 83, 126, 154	0
1	AX	113/113 (100%)	-0.18	0 100 100	54, 96, 147, 177	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AY	113/113 (100%)	-0.29	0 100 100	51, 87, 163, 193	0
1	AZ	113/113 (100%)	-0.22	0 100 100	49, 83, 126, 154	0
1	BA	113/113 (100%)	-0.23	1 (0%) 84 79	54, 96, 147, 177	0
1	BB	113/113 (100%)	-0.12	0 100 100	51, 87, 163, 193	0
1	BC	113/113 (100%)	-0.13	0 100 100	49, 83, 126, 154	0
1	BD	113/113 (100%)	-0.13	0 100 100	54, 96, 147, 177	0
1	BE	113/113 (100%)	-0.27	0 100 100	51, 87, 163, 193	0
1	BF	113/113 (100%)	-0.24	0 100 100	49, 83, 126, 154	0
1	BG	113/113 (100%)	-0.30	0 100 100	54, 96, 147, 177	0
1	BH	113/113 (100%)	-0.18	0 100 100	51, 87, 163, 193	0
1	BI	113/113 (100%)	-0.24	0 100 100	49, 83, 126, 154	0
1	BJ	113/113 (100%)	-0.18	0 100 100	54, 96, 147, 177	0
1	BK	113/113 (100%)	-0.11	1 (0%) 84 79	51, 87, 163, 193	0
1	BL	113/113 (100%)	-0.21	0 100 100	49, 83, 126, 154	0
1	BM	113/113 (100%)	-0.20	0 100 100	54, 96, 147, 177	0
1	BN	113/113 (100%)	-0.21	0 100 100	51, 87, 163, 193	0
1	BO	113/113 (100%)	-0.21	0 100 100	49, 83, 126, 154	0
1	BP	113/113 (100%)	-0.27	0 100 100	54, 96, 147, 177	0
1	BQ	113/113 (100%)	-0.08	0 100 100	51, 87, 163, 193	0
1	BR	113/113 (100%)	-0.07	0 100 100	49, 83, 126, 154	0
1	BS	113/113 (100%)	-0.05	1 (0%) 84 79	54, 96, 147, 177	0
1	BT	113/113 (100%)	-0.31	0 100 100	51, 87, 163, 193	0
1	BU	113/113 (100%)	-0.27	0 100 100	49, 83, 126, 154	0
1	BV	113/113 (100%)	-0.14	0 100 100	54, 96, 147, 177	0
1	BW	113/113 (100%)	-0.27	0 100 100	51, 87, 163, 193	0
1	BX	113/113 (100%)	-0.18	0 100 100	49, 83, 126, 154	0
1	BY	113/113 (100%)	-0.18	1 (0%) 84 79	54, 96, 147, 177	0
1	BZ	113/113 (100%)	-0.37	0 100 100	51, 87, 163, 193	0
1	CA	113/113 (100%)	-0.18	0 100 100	49, 83, 126, 154	0
1	CB	113/113 (100%)	-0.28	1 (0%) 84 79	54, 96, 147, 177	0
1	CC	113/113 (100%)	-0.16	0 100 100	51, 87, 163, 193	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	CD	113/113 (100%)	-0.19	0 100 100	49, 83, 126, 154	0
1	CE	113/113 (100%)	-0.15	0 100 100	54, 96, 147, 177	0
1	CF	113/113 (100%)	-0.36	0 100 100	51, 87, 163, 193	0
1	CG	113/113 (100%)	-0.26	0 100 100	49, 83, 126, 154	0
1	CH	113/113 (100%)	-0.10	0 100 100	54, 96, 147, 177	0
1	CI	113/113 (100%)	-0.22	0 100 100	51, 87, 163, 193	0
1	CJ	113/113 (100%)	-0.17	0 100 100	49, 83, 126, 154	0
1	CK	113/113 (100%)	-0.15	0 100 100	54, 96, 147, 177	0
1	CL	113/113 (100%)	-0.27	1 (0%) 84 79	51, 87, 163, 193	0
1	CM	113/113 (100%)	-0.29	0 100 100	49, 83, 126, 154	0
1	CN	113/113 (100%)	-0.21	0 100 100	54, 96, 147, 177	0
1	CO	113/113 (100%)	-0.21	0 100 100	51, 87, 163, 193	0
1	CP	113/113 (100%)	0.05	0 100 100	49, 83, 126, 154	0
1	CQ	113/113 (100%)	-0.04	0 100 100	54, 96, 147, 177	0
1	CR	113/113 (100%)	-0.19	0 100 100	51, 87, 163, 193	0
1	CS	113/113 (100%)	-0.21	0 100 100	49, 83, 126, 154	0
1	CT	113/113 (100%)	-0.16	1 (0%) 84 79	54, 96, 147, 177	0
1	CU	113/113 (100%)	-0.33	0 100 100	51, 87, 163, 193	0
1	CV	113/113 (100%)	-0.27	0 100 100	49, 83, 126, 154	0
1	CW	113/113 (100%)	-0.24	0 100 100	54, 96, 147, 177	0
1	CX	113/113 (100%)	-0.17	1 (0%) 84 79	51, 87, 163, 193	0
1	CY	113/113 (100%)	-0.24	0 100 100	49, 83, 126, 154	0
1	CZ	113/113 (100%)	-0.08	0 100 100	54, 96, 147, 177	0
1	DA	113/113 (100%)	-0.20	1 (0%) 84 79	51, 87, 163, 193	0
1	DB	113/113 (100%)	-0.14	0 100 100	49, 83, 126, 154	0
1	DC	113/113 (100%)	-0.13	0 100 100	54, 96, 147, 177	0
1	DD	113/113 (100%)	-0.38	0 100 100	51, 87, 163, 193	0
1	DE	113/113 (100%)	-0.32	0 100 100	49, 83, 126, 154	0
1	DF	113/113 (100%)	-0.10	1 (0%) 84 79	54, 96, 147, 177	0
1	DG	113/113 (100%)	-0.28	1 (0%) 84 79	51, 87, 163, 193	0
1	DH	113/113 (100%)	-0.31	0 100 100	49, 83, 126, 154	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	DI	113/113 (100%)	-0.21	0 100 100	54, 96, 147, 177	0
1	DJ	113/113 (100%)	-0.00	0 100 100	51, 87, 163, 193	0
1	DK	113/113 (100%)	-0.07	0 100 100	49, 83, 126, 154	0
1	DL	113/113 (100%)	-0.13	0 100 100	54, 96, 147, 177	0
1	DM	113/113 (100%)	-0.27	0 100 100	51, 87, 163, 193	0
1	DN	113/113 (100%)	-0.37	0 100 100	49, 83, 126, 154	0
1	DO	113/113 (100%)	-0.16	0 100 100	54, 96, 147, 177	0
1	DP	113/113 (100%)	-0.09	0 100 100	51, 87, 163, 193	0
1	DQ	113/113 (100%)	-0.21	0 100 100	49, 83, 126, 154	0
1	DR	113/113 (100%)	-0.15	0 100 100	54, 96, 147, 177	0
1	DS	113/113 (100%)	-0.22	0 100 100	51, 87, 163, 193	0
1	DT	113/113 (100%)	-0.20	0 100 100	49, 83, 126, 154	0
1	DU	113/113 (100%)	-0.32	0 100 100	54, 96, 147, 177	0
1	DV	113/113 (100%)	-0.30	0 100 100	51, 87, 163, 193	0
1	DW	113/113 (100%)	-0.32	0 100 100	49, 83, 126, 154	0
1	DX	113/113 (100%)	-0.17	0 100 100	54, 96, 147, 177	0
1	DY	113/113 (100%)	-0.30	0 100 100	51, 87, 163, 193	0
1	DZ	113/113 (100%)	-0.15	1 (0%) 84 79	49, 83, 126, 154	0
1	EA	113/113 (100%)	-0.25	0 100 100	54, 96, 147, 177	0
1	EB	113/113 (100%)	-0.12	0 100 100	51, 87, 163, 193	0
1	EC	113/113 (100%)	-0.08	0 100 100	49, 83, 126, 154	0
1	ED	113/113 (100%)	-0.14	0 100 100	54, 96, 147, 177	0
1	EE	113/113 (100%)	-0.17	0 100 100	51, 87, 163, 193	0
1	EF	113/113 (100%)	-0.15	0 100 100	49, 83, 126, 154	0
1	EG	113/113 (100%)	-0.11	1 (0%) 84 79	54, 96, 147, 177	0
1	EH	113/113 (100%)	-0.20	0 100 100	51, 87, 163, 193	0
1	EI	113/113 (100%)	-0.18	0 100 100	49, 83, 126, 154	0
1	EJ	113/113 (100%)	-0.23	0 100 100	54, 96, 147, 177	0
1	EK	113/113 (100%)	-0.28	0 100 100	51, 87, 163, 193	0
1	EL	113/113 (100%)	-0.16	0 100 100	49, 83, 126, 154	0
1	EM	113/113 (100%)	-0.11	0 100 100	54, 96, 147, 177	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	EN	113/113 (100%)	-0.28	0 100 100	51, 87, 163, 193	0
1	EO	113/113 (100%)	-0.18	0 100 100	49, 83, 126, 154	0
1	EP	113/113 (100%)	-0.11	0 100 100	54, 96, 147, 177	0
1	EQ	113/113 (100%)	-0.19	0 100 100	51, 87, 163, 193	0
1	ER	113/113 (100%)	-0.20	1 (0%) 84 79	49, 83, 126, 154	0
1	ES	113/113 (100%)	-0.25	0 100 100	54, 96, 147, 177	0
1	ET	113/113 (100%)	-0.21	0 100 100	51, 87, 163, 193	0
1	EU	113/113 (100%)	-0.09	0 100 100	49, 83, 126, 154	0
1	EV	113/113 (100%)	-0.13	0 100 100	54, 96, 147, 177	0
1	EW	113/113 (100%)	-0.14	1 (0%) 84 79	51, 87, 163, 193	0
1	EX	113/113 (100%)	-0.20	0 100 100	49, 83, 126, 154	0
1	EY	113/113 (100%)	-0.24	1 (0%) 84 79	54, 96, 147, 177	0
1	EZ	113/113 (100%)	-0.09	2 (1%) 68 62	51, 87, 163, 193	0
1	FA	113/113 (100%)	-0.10	0 100 100	49, 83, 126, 154	0
1	FB	113/113 (100%)	-0.19	0 100 100	54, 96, 147, 177	0
1	FC	113/113 (100%)	-0.08	2 (1%) 68 62	51, 87, 163, 193	0
1	FD	113/113 (100%)	-0.16	0 100 100	49, 83, 126, 154	0
1	FE	113/113 (100%)	-0.11	0 100 100	54, 96, 147, 177	0
1	FF	113/113 (100%)	-0.11	0 100 100	51, 87, 163, 193	0
1	FG	113/113 (100%)	-0.20	0 100 100	49, 83, 126, 154	0
1	FH	113/113 (100%)	-0.14	0 100 100	54, 96, 147, 177	0
1	FI	113/113 (100%)	-0.22	0 100 100	51, 87, 163, 193	0
1	FJ	113/113 (100%)	-0.10	0 100 100	49, 83, 126, 154	0
1	FK	113/113 (100%)	-0.19	0 100 100	54, 96, 147, 177	0
1	FL	113/113 (100%)	-0.08	1 (0%) 84 79	51, 87, 163, 193	0
1	FM	113/113 (100%)	-0.24	0 100 100	49, 83, 126, 154	0
1	FN	113/113 (100%)	-0.28	0 100 100	54, 96, 147, 177	0
1	FO	113/113 (100%)	-0.30	0 100 100	51, 87, 163, 193	0
1	FP	113/113 (100%)	-0.15	0 100 100	49, 83, 126, 154	0
1	FQ	113/113 (100%)	-0.09	1 (0%) 84 79	54, 96, 147, 177	0
1	FR	113/113 (100%)	-0.31	0 100 100	51, 87, 163, 193	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	FS	113/113 (100%)	-0.27	0 100 100	49, 83, 126, 154	0
1	FT	113/113 (100%)	-0.13	0 100 100	54, 96, 147, 177	0
1	FU	113/113 (100%)	-0.26	0 100 100	51, 87, 163, 193	0
1	FV	113/113 (100%)	-0.17	0 100 100	49, 83, 126, 154	0
1	FW	113/113 (100%)	-0.07	0 100 100	54, 96, 147, 177	0
1	FX	113/113 (100%)	-0.32	0 100 100	51, 87, 163, 193	0
1	FY	113/113 (100%)	-0.34	0 100 100	49, 83, 126, 154	0
1	FZ	113/113 (100%)	-0.22	0 100 100	54, 96, 147, 177	0
1	GA	113/113 (100%)	-0.10	1 (0%) 84 79	51, 87, 163, 193	0
1	GB	113/113 (100%)	-0.03	0 100 100	49, 83, 126, 154	0
1	GC	113/113 (100%)	-0.09	0 100 100	54, 96, 147, 177	0
1	GD	113/113 (100%)	-0.28	1 (0%) 84 79	51, 87, 163, 193	0
1	GE	113/113 (100%)	-0.29	0 100 100	49, 83, 126, 154	0
1	GF	113/113 (100%)	-0.29	1 (0%) 84 79	54, 96, 147, 177	0
1	GG	113/113 (100%)	-0.20	2 (1%) 68 62	51, 87, 163, 193	0
1	GH	113/113 (100%)	-0.04	0 100 100	49, 83, 126, 154	0
1	GI	113/113 (100%)	-0.25	0 100 100	54, 96, 147, 177	0
1	GJ	113/113 (100%)	-0.21	0 100 100	51, 87, 163, 193	0
1	GK	113/113 (100%)	-0.19	0 100 100	49, 83, 126, 154	0
1	GL	113/113 (100%)	-0.22	0 100 100	54, 96, 147, 177	0
1	GM	113/113 (100%)	-0.21	0 100 100	51, 87, 163, 193	0
1	GN	113/113 (100%)	-0.29	0 100 100	49, 83, 126, 154	0
1	GO	113/113 (100%)	-0.31	0 100 100	54, 96, 147, 177	0
1	GP	113/113 (100%)	-0.20	0 100 100	51, 87, 163, 193	0
1	GQ	113/113 (100%)	-0.17	0 100 100	49, 83, 126, 154	0
1	GR	113/113 (100%)	-0.16	0 100 100	54, 96, 147, 177	0
1	GS	113/113 (100%)	-0.25	0 100 100	51, 87, 163, 193	0
1	GT	113/113 (100%)	-0.17	1 (0%) 84 79	49, 83, 126, 154	0
1	GU	113/113 (100%)	-0.32	0 100 100	54, 96, 147, 177	0
1	GV	113/113 (100%)	-0.10	1 (0%) 84 79	51, 87, 163, 193	0
1	GW	113/113 (100%)	-0.13	0 100 100	49, 83, 126, 154	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9	
1	GX	113/113 (100%)	-0.20	0	100 100	54, 96, 147, 177	0
1	GY	113/113 (100%)	-0.17	0	100 100	51, 87, 163, 193	0
1	GZ	113/113 (100%)	-0.27	0	100 100	49, 83, 126, 154	0
1	HA	113/113 (100%)	-0.19	0	100 100	54, 96, 147, 177	0
1	HB	113/113 (100%)	-0.34	0	100 100	51, 87, 163, 193	0
1	HC	113/113 (100%)	-0.28	0	100 100	49, 83, 126, 154	0
1	HD	113/113 (100%)	-0.26	0	100 100	54, 96, 147, 177	0
1	HE	113/113 (100%)	-0.03	0	100 100	51, 87, 163, 193	0
1	HF	113/113 (100%)	-0.09	0	100 100	49, 83, 126, 154	0
1	HG	113/113 (100%)	-0.23	0	100 100	54, 96, 147, 177	0
1	HH	113/113 (100%)	-0.22	0	100 100	51, 87, 163, 193	0
1	HI	113/113 (100%)	0.03	0	100 100	49, 83, 126, 154	0
1	HJ	113/113 (100%)	0.04	0	100 100	54, 96, 147, 177	0
1	HK	113/113 (100%)	-0.37	0	100 100	51, 87, 163, 193	0
1	HL	113/113 (100%)	-0.24	0	100 100	49, 83, 126, 154	0
1	HM	113/113 (100%)	-0.29	0	100 100	54, 96, 147, 177	0
1	HN	113/113 (100%)	-0.26	0	100 100	51, 87, 163, 193	0
1	HO	113/113 (100%)	-0.16	0	100 100	49, 83, 126, 154	0
1	HP	113/113 (100%)	-0.15	0	100 100	54, 96, 147, 177	0
1	HQ	113/113 (100%)	-0.24	0	100 100	51, 87, 163, 193	0
1	HR	113/113 (100%)	-0.04	1 (0%)	84 79	49, 83, 126, 154	0
1	HS	113/113 (100%)	-0.13	1 (0%)	84 79	54, 96, 147, 177	0
1	HT	113/113 (100%)	-0.24	0	100 100	51, 87, 163, 193	0
1	HU	113/113 (100%)	-0.07	0	100 100	49, 83, 126, 154	0
1	HV	113/113 (100%)	-0.33	0	100 100	54, 96, 147, 177	0
1	HW	113/113 (100%)	-0.25	0	100 100	51, 87, 163, 193	0
1	HX	113/113 (100%)	-0.17	0	100 100	49, 83, 126, 154	0
1	HY	113/113 (100%)	-0.13	1 (0%)	84 79	54, 96, 147, 177	0
1	HZ	113/113 (100%)	-0.27	0	100 100	51, 87, 163, 193	0
1	IA	113/113 (100%)	-0.22	0	100 100	49, 83, 126, 154	0
1	IB	113/113 (100%)	-0.29	0	100 100	54, 96, 147, 177	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	IC	113/113 (100%)	-0.07	0 100 100	51, 87, 163, 193	0
1	ID	113/113 (100%)	-0.02	0 100 100	49, 83, 126, 154	0
1	IE	113/113 (100%)	-0.11	1 (0%) 84 79	54, 96, 147, 177	0
1	IF	113/113 (100%)	-0.20	2 (1%) 68 62	51, 87, 163, 193	0
1	IG	113/113 (100%)	-0.14	0 100 100	49, 83, 126, 154	0
1	IH	113/113 (100%)	-0.19	0 100 100	54, 96, 147, 177	0
1	II	113/113 (100%)	-0.21	0 100 100	51, 87, 163, 193	0
1	IJ	113/113 (100%)	-0.08	0 100 100	49, 83, 126, 154	0
1	IK	113/113 (100%)	-0.02	0 100 100	54, 96, 147, 177	0
1	IL	113/113 (100%)	-0.31	0 100 100	51, 87, 163, 193	0
1	IM	113/113 (100%)	-0.22	0 100 100	49, 83, 126, 154	0
1	IN	113/113 (100%)	0.08	1 (0%) 84 79	54, 96, 147, 177	0
1	IO	113/113 (100%)	-0.23	0 100 100	51, 87, 163, 193	0
1	IP	113/113 (100%)	-0.23	1 (0%) 84 79	49, 83, 126, 154	0
1	IQ	113/113 (100%)	-0.35	0 100 100	54, 96, 147, 177	0
1	IR	113/113 (100%)	-0.25	0 100 100	51, 87, 163, 193	0
1	IS	113/113 (100%)	-0.11	0 100 100	49, 83, 126, 154	0
1	IT	113/113 (100%)	-0.19	0 100 100	54, 96, 147, 177	0
1	IU	113/113 (100%)	-0.21	1 (0%) 84 79	51, 87, 163, 193	0
1	IV	113/113 (100%)	-0.22	0 100 100	49, 83, 126, 154	0
1	IW	113/113 (100%)	-0.18	0 100 100	54, 96, 147, 177	0
1	IX	113/113 (100%)	-0.17	0 100 100	51, 87, 163, 193	0
1	IY	113/113 (100%)	-0.27	0 100 100	49, 83, 126, 154	0
1	IZ	113/113 (100%)	-0.18	0 100 100	54, 96, 147, 177	0
1	JA	113/113 (100%)	-0.13	1 (0%) 84 79	51, 87, 163, 193	0
1	JB	113/113 (100%)	-0.18	0 100 100	49, 83, 126, 154	0
1	JC	113/113 (100%)	-0.21	0 100 100	54, 96, 147, 177	0
1	JD	113/113 (100%)	-0.12	0 100 100	51, 87, 163, 193	0
1	JE	113/113 (100%)	-0.26	0 100 100	49, 83, 126, 154	0
1	JF	113/113 (100%)	-0.20	0 100 100	54, 96, 147, 177	0
1	JG	113/113 (100%)	-0.23	0 100 100	51, 87, 163, 193	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	JH	113/113 (100%)	-0.16	1 (0%) 84 79	49, 83, 126, 154	0
1	JI	113/113 (100%)	-0.18	1 (0%) 84 79	54, 96, 147, 177	0
1	JJ	113/113 (100%)	-0.32	0 100 100	51, 87, 163, 193	0
1	JK	113/113 (100%)	-0.11	0 100 100	49, 83, 126, 154	0
1	JL	113/113 (100%)	-0.26	0 100 100	54, 96, 147, 177	0
1	JM	113/113 (100%)	-0.11	0 100 100	51, 87, 163, 193	0
1	JN	113/113 (100%)	-0.23	0 100 100	49, 83, 126, 154	0
1	JO	113/113 (100%)	-0.06	1 (0%) 84 79	54, 96, 147, 177	0
1	JP	113/113 (100%)	-0.04	0 100 100	51, 87, 163, 193	0
1	JQ	113/113 (100%)	-0.10	0 100 100	49, 83, 126, 154	0
1	JR	113/113 (100%)	-0.11	1 (0%) 84 79	54, 96, 147, 177	0
1	JS	113/113 (100%)	-0.22	0 100 100	51, 87, 163, 193	0
1	JT	113/113 (100%)	-0.26	0 100 100	49, 83, 126, 154	0
1	JU	113/113 (100%)	-0.19	0 100 100	54, 96, 147, 177	0
1	JV	113/113 (100%)	-0.25	0 100 100	51, 87, 163, 193	0
1	JW	113/113 (100%)	-0.09	0 100 100	49, 83, 126, 154	0
1	JX	113/113 (100%)	-0.16	0 100 100	54, 96, 147, 177	0
1	JY	113/113 (100%)	-0.24	0 100 100	51, 87, 163, 193	0
1	JZ	113/113 (100%)	-0.16	0 100 100	49, 83, 126, 154	0
1	KA	113/113 (100%)	-0.15	0 100 100	54, 96, 147, 177	0
1	KB	113/113 (100%)	-0.22	0 100 100	51, 87, 163, 193	0
1	KC	113/113 (100%)	-0.18	0 100 100	49, 83, 126, 154	0
1	KD	113/113 (100%)	-0.23	0 100 100	54, 96, 147, 177	0
1	KE	113/113 (100%)	-0.33	0 100 100	51, 87, 163, 193	0
1	KF	113/113 (100%)	-0.03	1 (0%) 84 79	49, 83, 126, 154	0
1	KG	113/113 (100%)	-0.06	0 100 100	54, 96, 147, 177	0
1	KH	113/113 (100%)	-0.18	0 100 100	51, 87, 163, 193	0
1	KI	113/113 (100%)	-0.22	0 100 100	49, 83, 126, 154	0
1	KJ	113/113 (100%)	-0.17	0 100 100	54, 96, 147, 177	0
1	KK	113/113 (100%)	-0.21	0 100 100	51, 87, 163, 193	0
1	KL	113/113 (100%)	-0.29	0 100 100	49, 83, 126, 154	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	KM	113/113 (100%)	-0.14	0 100 100	54, 96, 147, 177	0
1	KN	113/113 (100%)	-0.30	0 100 100	51, 87, 163, 193	0
1	KO	113/113 (100%)	-0.10	1 (0%) 84 79	49, 83, 126, 154	0
1	KP	113/113 (100%)	-0.19	0 100 100	54, 96, 147, 177	0
1	KQ	113/113 (100%)	-0.22	0 100 100	51, 87, 163, 193	0
1	KR	113/113 (100%)	-0.26	0 100 100	49, 83, 126, 154	0
1	KS	113/113 (100%)	-0.11	0 100 100	54, 96, 147, 177	0
1	KT	113/113 (100%)	-0.12	0 100 100	51, 87, 163, 193	0
1	KU	113/113 (100%)	-0.10	0 100 100	49, 83, 126, 154	0
1	KV	113/113 (100%)	-0.10	0 100 100	54, 96, 147, 177	0
1	KW	113/113 (100%)	-0.26	0 100 100	51, 87, 163, 193	0
1	KX	113/113 (100%)	-0.21	1 (0%) 84 79	49, 83, 126, 154	0
1	KY	113/113 (100%)	-0.23	0 100 100	54, 96, 147, 177	0
1	KZ	113/113 (100%)	-0.31	0 100 100	51, 87, 163, 193	0
1	LA	113/113 (100%)	-0.26	1 (0%) 84 79	49, 83, 126, 154	0
1	LB	113/113 (100%)	-0.02	0 100 100	54, 96, 147, 177	0
1	LC	113/113 (100%)	-0.26	0 100 100	51, 87, 163, 193	0
1	LD	113/113 (100%)	-0.22	0 100 100	49, 83, 126, 154	0
1	LE	113/113 (100%)	-0.15	1 (0%) 84 79	54, 96, 147, 177	0
1	LF	113/113 (100%)	-0.20	0 100 100	51, 87, 163, 193	0
1	LG	113/113 (100%)	-0.36	0 100 100	49, 83, 126, 154	0
1	LH	113/113 (100%)	-0.17	0 100 100	54, 96, 147, 177	0
1	LI	113/113 (100%)	-0.01	4 (3%) 44 39	51, 87, 163, 193	0
1	LJ	113/113 (100%)	-0.12	0 100 100	49, 83, 126, 154	0
1	LK	113/113 (100%)	-0.20	0 100 100	54, 96, 147, 177	0
1	LL	113/113 (100%)	-0.29	0 100 100	51, 87, 163, 193	0
1	LM	113/113 (100%)	-0.21	1 (0%) 84 79	49, 83, 126, 154	0
1	LN	113/113 (100%)	-0.20	0 100 100	54, 96, 147, 177	0
1	LO	113/113 (100%)	-0.07	1 (0%) 84 79	51, 87, 163, 193	0
1	LP	113/113 (100%)	-0.16	0 100 100	49, 83, 126, 154	0
1	LQ	113/113 (100%)	-0.05	0 100 100	54, 96, 147, 177	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	LR	113/113 (100%)	-0.16	0 100 100	51, 87, 163, 193	0
1	LS	113/113 (100%)	-0.18	0 100 100	49, 83, 126, 154	0
1	LT	113/113 (100%)	-0.19	0 100 100	54, 96, 147, 177	0
1	LU	113/113 (100%)	-0.14	0 100 100	51, 87, 163, 193	0
1	LV	113/113 (100%)	-0.24	0 100 100	49, 83, 126, 154	0
1	LW	113/113 (100%)	-0.09	0 100 100	54, 96, 147, 177	0
1	LX	113/113 (100%)	-0.11	0 100 100	51, 87, 163, 193	0
1	LY	113/113 (100%)	-0.15	0 100 100	49, 83, 126, 154	0
1	LZ	113/113 (100%)	-0.22	0 100 100	54, 96, 147, 177	0
1	MA	113/113 (100%)	-0.24	0 100 100	51, 87, 163, 193	0
1	MB	113/113 (100%)	-0.22	0 100 100	49, 83, 126, 154	0
1	MC	113/113 (100%)	-0.31	0 100 100	54, 96, 147, 177	0
1	MD	113/113 (100%)	-0.19	1 (0%) 84 79	51, 87, 163, 193	0
1	ME	113/113 (100%)	-0.20	0 100 100	49, 83, 126, 154	0
1	MF	113/113 (100%)	-0.16	1 (0%) 84 79	54, 96, 147, 177	0
1	MG	113/113 (100%)	-0.26	0 100 100	51, 87, 163, 193	0
1	MH	113/113 (100%)	-0.17	0 100 100	49, 83, 126, 154	0
1	MI	113/113 (100%)	-0.17	0 100 100	54, 96, 147, 177	0
1	MJ	113/113 (100%)	-0.30	0 100 100	51, 87, 163, 193	0
1	MK	113/113 (100%)	-0.09	0 100 100	49, 83, 126, 154	0
1	ML	113/113 (100%)	-0.12	0 100 100	54, 96, 147, 177	0
1	MM	113/113 (100%)	0.03	0 100 100	51, 87, 163, 193	0
1	MN	113/113 (100%)	-0.11	0 100 100	49, 83, 126, 154	0
1	MO	113/113 (100%)	-0.13	0 100 100	54, 96, 147, 177	0
1	MP	113/113 (100%)	-0.29	1 (0%) 84 79	51, 87, 163, 193	0
1	MQ	113/113 (100%)	-0.22	0 100 100	49, 83, 126, 154	0
1	MR	113/113 (100%)	-0.18	1 (0%) 84 79	54, 96, 147, 177	0
1	MS	113/113 (100%)	-0.14	0 100 100	51, 87, 163, 193	0
1	MT	113/113 (100%)	-0.22	0 100 100	49, 83, 126, 154	0
1	MU	113/113 (100%)	-0.16	0 100 100	54, 96, 147, 177	0
1	MV	113/113 (100%)	-0.26	0 100 100	51, 87, 163, 193	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	MW	113/113 (100%)	-0.22	0 100 100	49, 83, 126, 154	0
1	MX	113/113 (100%)	-0.21	0 100 100	54, 96, 147, 177	0
1	MY	113/113 (100%)	-0.18	0 100 100	51, 87, 163, 193	0
1	MZ	113/113 (100%)	-0.21	0 100 100	49, 83, 126, 154	0
1	NA	113/113 (100%)	-0.12	1 (0%) 84 79	54, 96, 147, 177	0
1	NB	113/113 (100%)	-0.11	0 100 100	51, 87, 163, 193	0
1	NC	113/113 (100%)	-0.12	0 100 100	49, 83, 126, 154	0
1	ND	113/113 (100%)	-0.22	0 100 100	54, 96, 147, 177	0
1	NE	113/113 (100%)	-0.16	0 100 100	51, 87, 163, 193	0
1	NF	113/113 (100%)	-0.08	1 (0%) 84 79	49, 83, 126, 154	0
1	NG	113/113 (100%)	-0.33	0 100 100	54, 96, 147, 177	0
1	NH	113/113 (100%)	-0.20	1 (0%) 84 79	51, 87, 163, 193	0
1	NI	113/113 (100%)	-0.17	0 100 100	49, 83, 126, 154	0
1	NJ	113/113 (100%)	-0.19	0 100 100	54, 96, 147, 177	0
1	NK	113/113 (100%)	-0.19	1 (0%) 84 79	51, 87, 163, 193	0
1	NL	113/113 (100%)	-0.10	0 100 100	49, 83, 126, 154	0
1	NM	113/113 (100%)	-0.16	0 100 100	54, 96, 147, 177	0
1	NN	113/113 (100%)	-0.25	0 100 100	51, 87, 163, 193	0
1	NO	113/113 (100%)	-0.11	0 100 100	49, 83, 126, 154	0
1	NP	113/113 (100%)	-0.27	0 100 100	54, 96, 147, 177	0
1	NQ	113/113 (100%)	-0.08	0 100 100	51, 87, 163, 193	0
1	NR	113/113 (100%)	-0.17	0 100 100	49, 83, 126, 154	0
1	NS	113/113 (100%)	-0.28	0 100 100	54, 96, 147, 177	0
1	NT	113/113 (100%)	-0.13	0 100 100	51, 87, 163, 193	0
1	NU	113/113 (100%)	-0.14	0 100 100	49, 83, 126, 154	0
1	NV	113/113 (100%)	-0.06	0 100 100	54, 96, 147, 177	0
2	RA	20/30 (66%)	-0.64	0 100 100	137, 172, 234, 256	0
2	RB	20/30 (66%)	-0.42	0 100 100	137, 172, 234, 256	0
2	RC	20/30 (66%)	-0.64	0 100 100	137, 172, 234, 256	0
2	RD	20/30 (66%)	-0.66	0 100 100	137, 172, 234, 256	0
2	RE	20/30 (66%)	-0.87	0 100 100	137, 172, 234, 256	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9		
2	RF	20/30 (66%)	-0.56	0	100	100	137, 172, 234, 256	0
2	RG	20/30 (66%)	-0.81	0	100	100	137, 172, 234, 256	0
2	RH	20/30 (66%)	-0.83	0	100	100	137, 172, 234, 256	0
2	RI	20/30 (66%)	-0.50	0	100	100	137, 172, 234, 256	0
2	RJ	20/30 (66%)	-0.56	0	100	100	137, 172, 234, 256	0
2	RK	20/30 (66%)	-0.55	0	100	100	137, 172, 234, 256	0
2	RL	20/30 (66%)	-0.65	0	100	100	137, 172, 234, 256	0
2	RM	20/30 (66%)	-0.67	0	100	100	137, 172, 234, 256	0
2	RN	20/30 (66%)	-0.42	0	100	100	137, 172, 234, 256	0
2	RO	20/30 (66%)	-0.54	0	100	100	137, 172, 234, 256	0
2	RP	20/30 (66%)	-0.78	0	100	100	137, 172, 234, 256	0
2	RQ	20/30 (66%)	-0.60	0	100	100	137, 172, 234, 256	0
2	RR	20/30 (66%)	-0.81	0	100	100	137, 172, 234, 256	0
2	RS	20/30 (66%)	-0.77	0	100	100	137, 172, 234, 256	0
2	RT	20/30 (66%)	-0.76	0	100	100	137, 172, 234, 256	0
2	RU	20/30 (66%)	-0.73	0	100	100	137, 172, 234, 256	0
2	RV	20/30 (66%)	-0.80	0	100	100	137, 172, 234, 256	0
2	RW	20/30 (66%)	-0.59	0	100	100	137, 172, 234, 256	0
2	RX	20/30 (66%)	-0.77	0	100	100	137, 172, 234, 256	0
2	RY	20/30 (66%)	-0.70	0	100	100	137, 172, 234, 256	0
2	RZ	20/30 (66%)	-0.41	0	100	100	137, 172, 234, 256	0
2	SA	20/30 (66%)	-0.76	0	100	100	137, 172, 234, 256	0
2	SB	20/30 (66%)	-0.58	0	100	100	137, 172, 234, 256	0
2	SC	20/30 (66%)	-0.45	0	100	100	137, 172, 234, 256	0
2	SD	20/30 (66%)	-0.27	0	100	100	137, 172, 234, 256	0
2	SE	20/30 (66%)	-0.53	0	100	100	137, 172, 234, 256	0
2	SF	20/30 (66%)	-0.70	0	100	100	137, 172, 234, 256	0
2	SG	20/30 (66%)	-0.56	0	100	100	137, 172, 234, 256	0
2	SH	20/30 (66%)	-0.60	0	100	100	137, 172, 234, 256	0
2	SI	20/30 (66%)	-0.55	0	100	100	137, 172, 234, 256	0
2	SJ	20/30 (66%)	-0.79	0	100	100	137, 172, 234, 256	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9	
2	SK	20/30 (66%)	-0.39	0	100 100	137, 172, 234, 256	0
2	SL	20/30 (66%)	-0.53	0	100 100	137, 172, 234, 256	0
2	SM	20/30 (66%)	-0.54	0	100 100	137, 172, 234, 256	0
2	SN	20/30 (66%)	-0.47	0	100 100	137, 172, 234, 256	0
2	SO	20/30 (66%)	-0.44	0	100 100	137, 172, 234, 256	0
2	SP	20/30 (66%)	-0.50	0	100 100	137, 172, 234, 256	0
2	SQ	20/30 (66%)	-0.64	0	100 100	137, 172, 234, 256	0
2	SR	20/30 (66%)	-0.74	0	100 100	137, 172, 234, 256	0
2	SS	20/30 (66%)	-0.72	0	100 100	137, 172, 234, 256	0
2	ST	20/30 (66%)	-0.83	0	100 100	137, 172, 234, 256	0
2	SU	20/30 (66%)	-0.71	0	100 100	137, 172, 234, 256	0
2	SV	20/30 (66%)	-0.72	0	100 100	137, 172, 234, 256	0
2	SW	20/30 (66%)	-0.41	0	100 100	137, 172, 234, 256	0
2	SX	20/30 (66%)	-0.61	0	100 100	137, 172, 234, 256	0
2	SY	20/30 (66%)	-0.53	0	100 100	137, 172, 234, 256	0
2	SZ	20/30 (66%)	-0.65	0	100 100	137, 172, 234, 256	0
2	TA	20/30 (66%)	-0.74	0	100 100	137, 172, 234, 256	0
2	TB	20/30 (66%)	-0.57	0	100 100	137, 172, 234, 256	0
2	TC	20/30 (66%)	-0.74	0	100 100	137, 172, 234, 256	0
2	TD	20/30 (66%)	-0.66	0	100 100	137, 172, 234, 256	0
2	TE	20/30 (66%)	-0.74	0	100 100	137, 172, 234, 256	0
2	TF	20/30 (66%)	-0.76	0	100 100	137, 172, 234, 256	0
2	TG	20/30 (66%)	-0.81	0	100 100	137, 172, 234, 256	0
2	TH	20/30 (66%)	-0.63	0	100 100	137, 172, 234, 256	0
All	All	41880/42480 (98%)	-0.20	64 (0%)	95 93	49, 89, 154, 256	0

The worst 5 of 64 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	FC	64	ALA	4.1
1	CL	64	ALA	3.4
1	GG	64	ALA	3.4
1	IE	65	GLY	3.3
1	JH	45	LYS	3.2

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.