Full wwPDB X-ray Structure Validation 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 Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

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

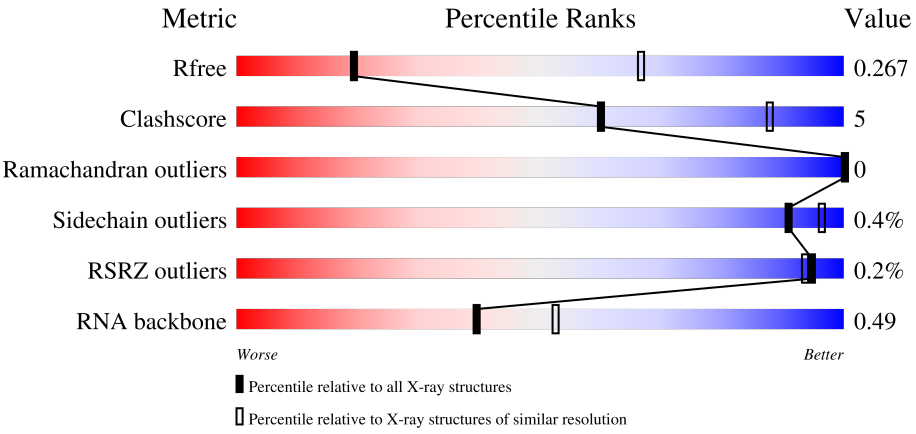
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.26
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0267
CCP4	:	7.1.010 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation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

1 Overall quality at a glance (i)

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 <=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	87% 13%
1	AB	113	92% 8%
1	AC	113	89% 11%
1	AD	113	88% 12%

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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	2% 89% 11%
1	FA	113	91% 9%
1	FB	113	88% 12%
1	FC	113	2% 88% 12%
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%
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%
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	2% 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	4% 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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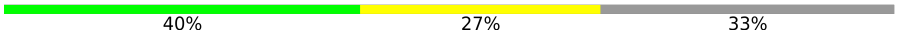
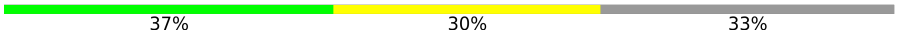
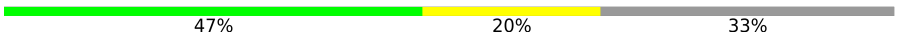
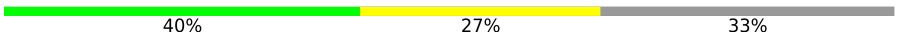
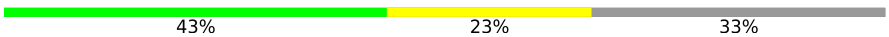
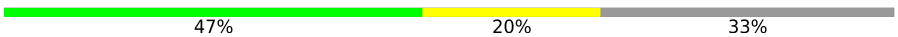
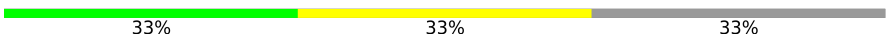
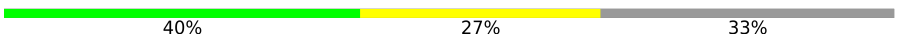
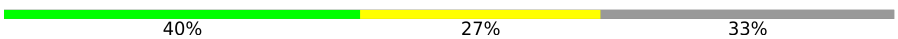
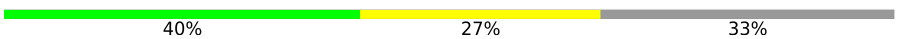
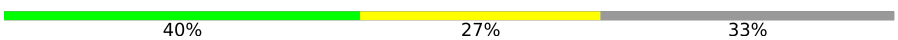
Mol	Chain	Length	Quality of chain
1	NQ	113	
1	NR	113	
1	NS	113	
1	NT	113	
1	NU	113	
1	NV	113	
2	RA	30	
2	RB	30	
2	RC	30	
2	RD	30	
2	RE	30	
2	RF	30	
2	RG	30	
2	RH	30	
2	RI	30	
2	RJ	30	
2	RK	30	
2	RL	30	
2	RM	30	
2	RN	30	
2	RO	30	
2	RP	30	
2	RQ	30	
2	RR	30	
2	RS	30	

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Mol	Chain	Length	Quality of chain
2	RT	30	43% 23% 33%
2	RU	30	47% 20% 33%
2	RV	30	37% 30% 33%
2	RW	30	43% 23% 33%
2	RX	30	47% 20% 33%
2	RY	30	43% 23% 33%
2	RZ	30	37% 30% 33%
2	SA	30	50% 17% 33%
2	SB	30	40% 27% 33%
2	SC	30	43% 23% 33%
2	SD	30	37% 30% 33%
2	SE	30	37% 30% 33%
2	SF	30	43% 23% 33%
2	SG	30	37% 30% 33%
2	SH	30	40% 27% 33%
2	SI	30	37% 30% 33%
2	SJ	30	40% 27% 33%
2	SK	30	33% 33% 33%
2	SL	30	43% 23% 33%
2	SM	30	50% 17% 33%
2	SN	30	47% 20% 33%
2	SO	30	40% 27% 33%
2	SP	30	43% 23% 33%
2	SQ	30	40% 27% 33%
2	SR	30	47% 20% 33%

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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
1	AA	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AB	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AC	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AD	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AE	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AF	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AG	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AH	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AI	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AJ	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AK	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AL	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AM	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AN	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AO	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			
1	AP	113	Total	C	N	O	S	0	0	0
			839	529	146	163	1			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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
2	RL	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RM	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RN	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RO	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RP	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RQ	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RR	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RS	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RT	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RU	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RV	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RW	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RX	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RY	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	RZ	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SA	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SB	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SC	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SD	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SE	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SF	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
2	SG	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SH	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SI	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SJ	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SK	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SL	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SM	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SN	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SO	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SP	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SQ	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SR	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SS	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	ST	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SU	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SV	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SW	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SX	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SY	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	SZ	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	TA	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			

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Continued from previous page...

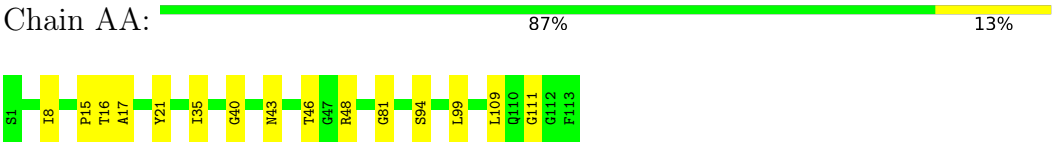
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	TB	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	TC	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	TD	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	TE	20	Total	C	N	O	P	0	0	0
			420	190	70	140	20			
2	TF	20	Total	C	N	O	P	0	0	0
			420	190	70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

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.

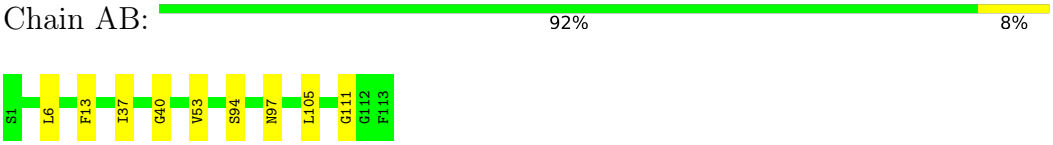
• Molecule 1: coat protein

Chain AA:



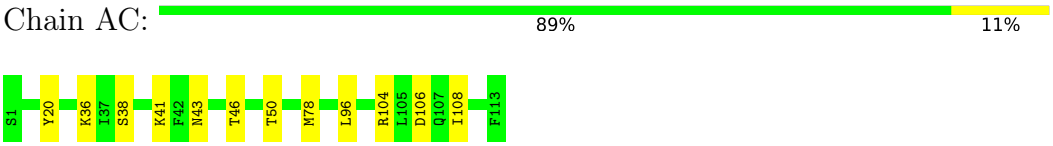
• Molecule 1: coat protein

Chain AB:



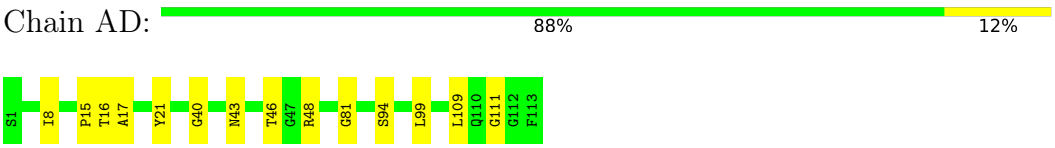
• Molecule 1: coat protein

Chain AC:



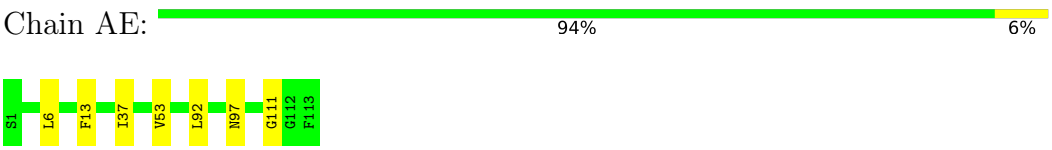
• Molecule 1: coat protein

Chain AD:



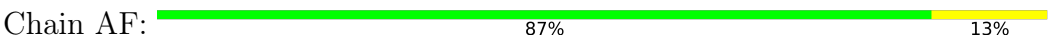
• Molecule 1: coat protein

Chain AE:



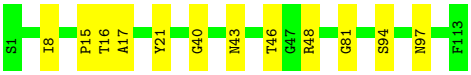
• Molecule 1: coat protein

Chain AF:



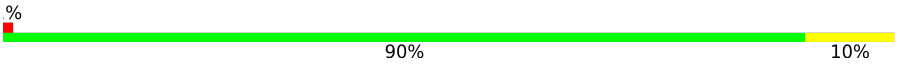
• Molecule 1: coat protein

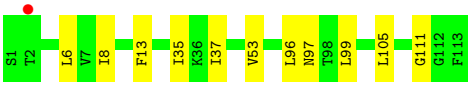
Chain AG:



• Molecule 1: coat protein

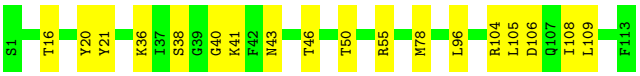
Chain AH:





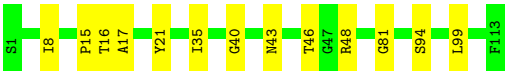
• Molecule 1: coat protein

Chain AI:



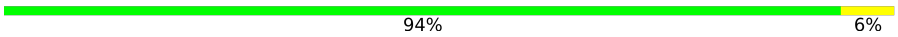
• Molecule 1: coat protein

Chain AJ:



• Molecule 1: coat protein

Chain AK:



• Molecule 1: coat protein

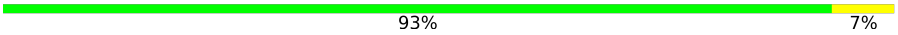
Chain AL:

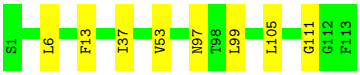
• Molecule 1: coat protein

Chain AM:

• Molecule 1: coat protein

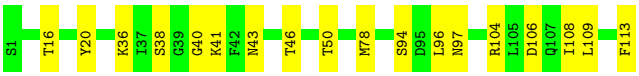
Chain AN:





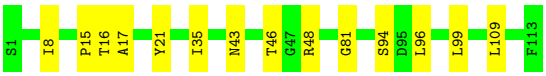
• Molecule 1: coat protein

Chain AO:



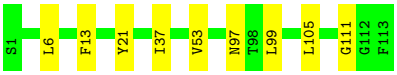
• Molecule 1: coat protein

Chain AP:



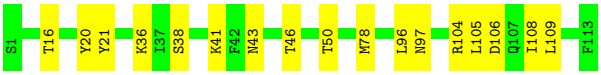
• Molecule 1: coat protein

Chain AQ:



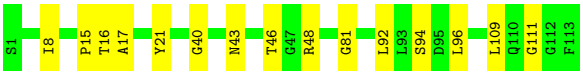
• Molecule 1: coat protein

Chain AR:



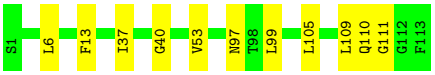
• Molecule 1: coat protein

Chain AS:



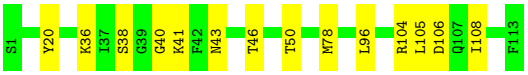
• Molecule 1: coat protein

Chain AT:



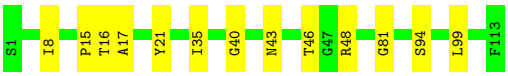
• Molecule 1: coat protein

Chain AU:



• Molecule 1: coat protein

Chain AV:

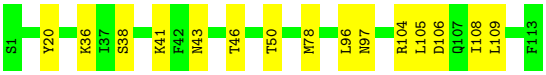


• Molecule 1: coat protein

Chain AW:

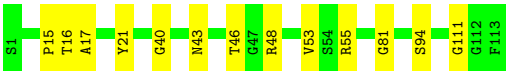
• Molecule 1: coat protein

Chain AX:



• Molecule 1: coat protein

Chain AY:

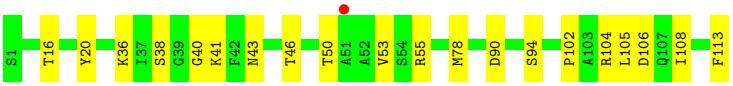


• Molecule 1: coat protein

Chain AZ:

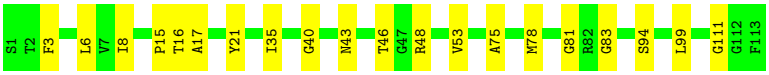
• Molecule 1: coat protein

Chain BA:



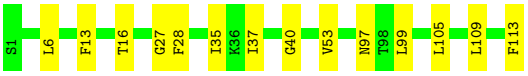
• Molecule 1: coat protein

Chain BB:



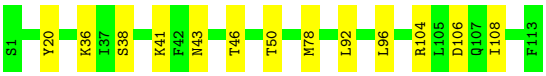
• Molecule 1: coat protein

Chain BC:



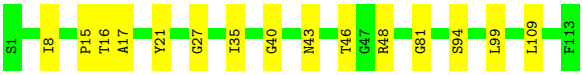
• Molecule 1: coat protein

Chain BD:



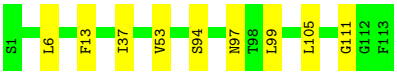
• Molecule 1: coat protein

Chain BE:



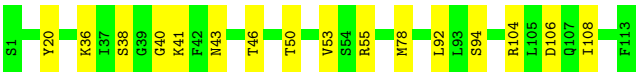
• Molecule 1: coat protein

Chain BF:



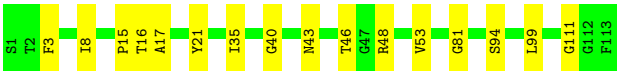
• Molecule 1: coat protein

Chain BG:



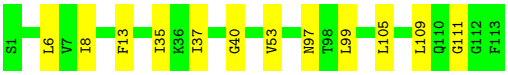
• Molecule 1: coat protein

Chain BH:



• Molecule 1: coat protein

Chain BI:

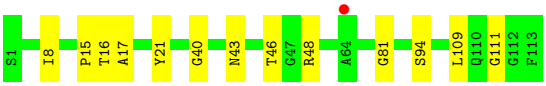


• Molecule 1: coat protein

Chain BJ:

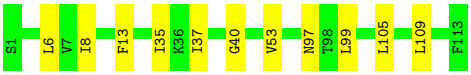
• Molecule 1: coat protein

Chain BK:



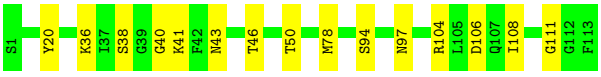
• Molecule 1: coat protein

Chain BL:



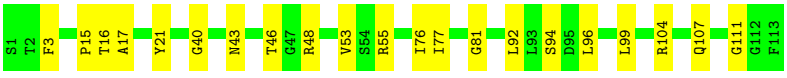
• Molecule 1: coat protein

Chain BM:



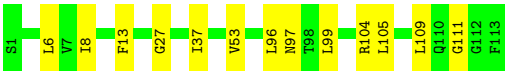
• Molecule 1: coat protein

Chain BN:



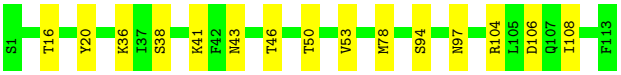
• Molecule 1: coat protein

Chain BO:



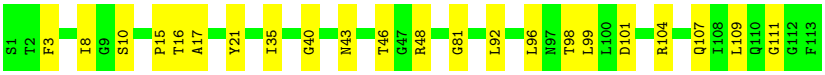
• Molecule 1: coat protein

Chain BP:



• Molecule 1: coat protein

Chain BQ:

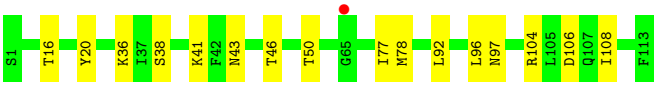


• Molecule 1: coat protein

Chain BR:

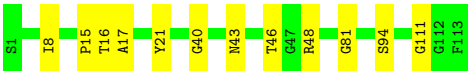
• Molecule 1: coat protein

Chain BS:



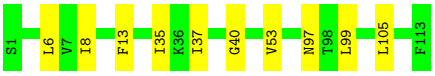
• Molecule 1: coat protein

Chain BT:



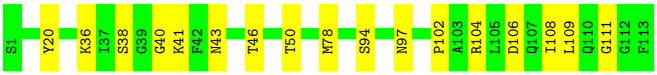
• Molecule 1: coat protein

Chain BU:



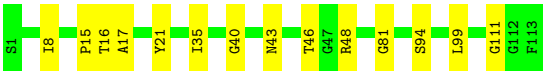
• Molecule 1: coat protein

Chain BV:



• Molecule 1: coat protein

Chain BW:

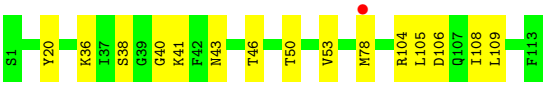


• Molecule 1: coat protein

Chain BX:

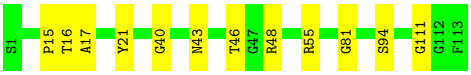
• Molecule 1: coat protein

Chain BY:



• Molecule 1: coat protein

Chain BZ:

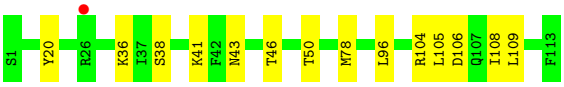


• Molecule 1: coat protein

Chain CA:

• Molecule 1: coat protein

Chain CB:

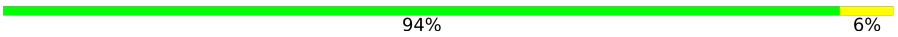


• Molecule 1: coat protein

Chain CC:

• Molecule 1: coat protein

Chain CD:



• Molecule 1: coat protein

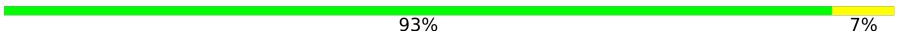
Chain CE:

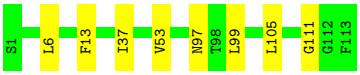
• Molecule 1: coat protein

Chain CF:

• Molecule 1: coat protein

Chain CG:



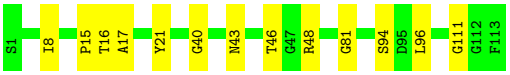


• Molecule 1: coat protein

Chain CH:

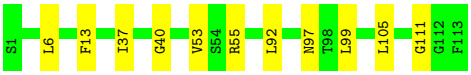
• Molecule 1: coat protein

Chain CI:



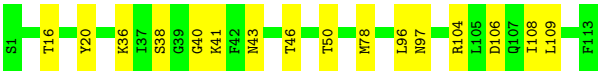
• Molecule 1: coat protein

Chain CJ:



• Molecule 1: coat protein

Chain CK:

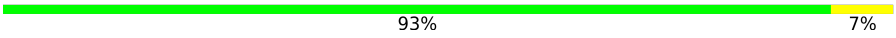


• Molecule 1: coat protein

Chain CL:

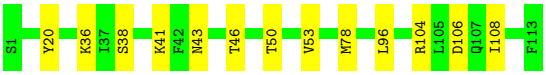
• Molecule 1: coat protein

Chain CM:



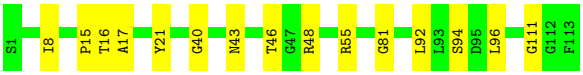
• Molecule 1: coat protein

Chain CN:



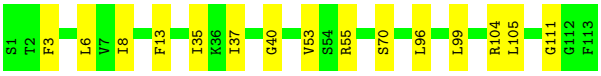
• Molecule 1: coat protein

Chain CO:



• Molecule 1: coat protein

Chain CP:

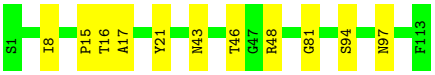


• Molecule 1: coat protein

Chain CQ:

• Molecule 1: coat protein

Chain CR:

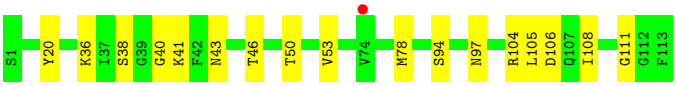


• Molecule 1: coat protein

Chain CS:

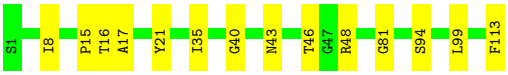
• Molecule 1: coat protein

Chain CT:



• Molecule 1: coat protein

Chain CU:



• Molecule 1: coat protein

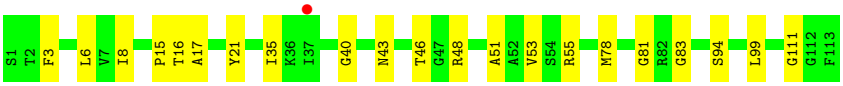
Chain CV:

• Molecule 1: coat protein

Chain CW:

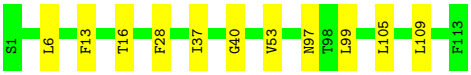
• Molecule 1: coat protein

Chain CX:



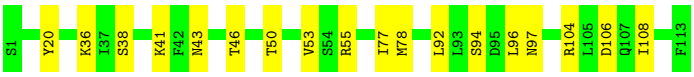
• Molecule 1: coat protein

Chain CY:



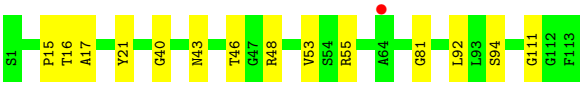
• Molecule 1: coat protein

Chain CZ:



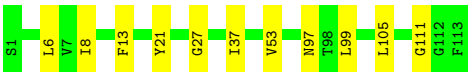
• Molecule 1: coat protein

Chain DA:



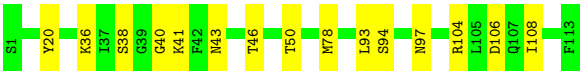
• Molecule 1: coat protein

Chain DB:



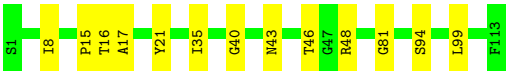
• Molecule 1: coat protein

Chain DC:



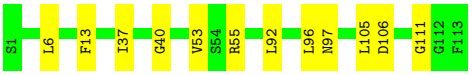
• Molecule 1: coat protein

Chain DD:



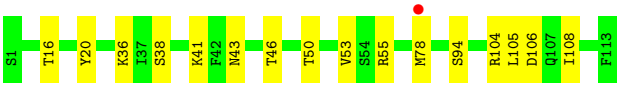
• Molecule 1: coat protein

Chain DE:



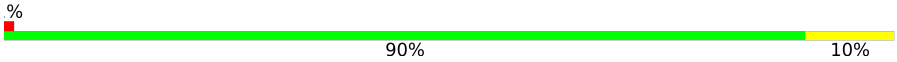
• Molecule 1: coat protein

Chain DF:



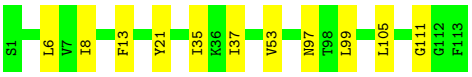
• Molecule 1: coat protein

Chain DG:



• Molecule 1: coat protein

Chain DH:

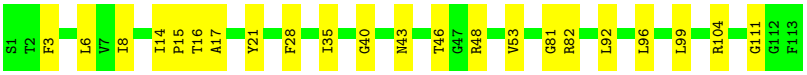


• Molecule 1: coat protein

Chain DI:

• Molecule 1: coat protein

Chain DJ:



• Molecule 1: coat protein

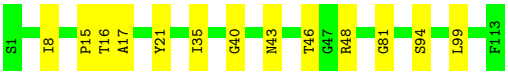
Chain DK:

• Molecule 1: coat protein

Chain DL:

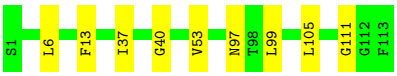
• Molecule 1: coat protein

Chain DM:



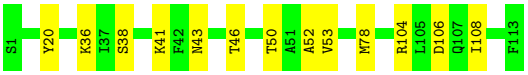
• Molecule 1: coat protein

Chain DN:



• Molecule 1: coat protein

Chain DO:



• Molecule 1: coat protein

Chain DP:

• Molecule 1: coat protein

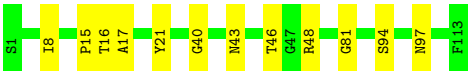
Chain DQ:

• Molecule 1: coat protein

Chain DR:

• Molecule 1: coat protein

Chain DS:

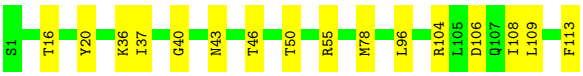


• Molecule 1: coat protein

Chain DT:

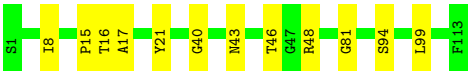
• Molecule 1: coat protein

Chain DU:



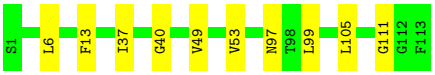
• Molecule 1: coat protein

Chain DV:



• Molecule 1: coat protein

Chain DW:

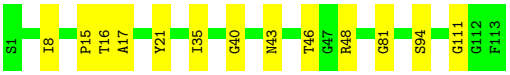


• Molecule 1: coat protein

Chain DX:

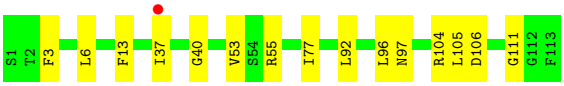
• Molecule 1: coat protein

Chain DY:



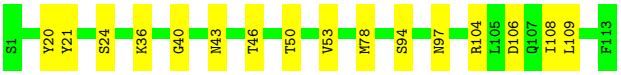
• Molecule 1: coat protein

Chain DZ:



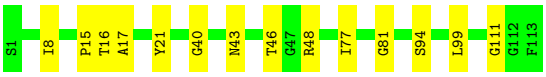
• Molecule 1: coat protein

Chain EA:



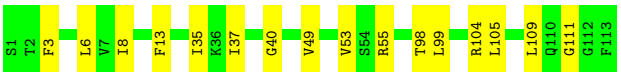
• Molecule 1: coat protein

Chain EB:



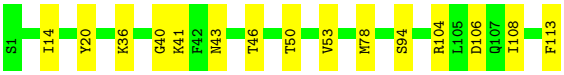
• Molecule 1: coat protein

Chain EC:



• Molecule 1: coat protein

Chain ED:



• Molecule 1: coat protein

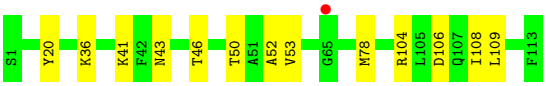
Chain EE:

• Molecule 1: coat protein

Chain EF:

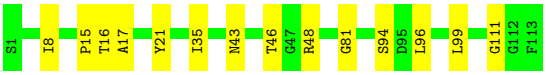
• Molecule 1: coat protein

Chain EG:



• Molecule 1: coat protein

Chain EH:

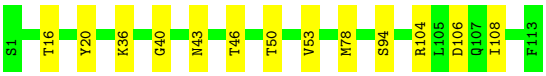


• Molecule 1: coat protein

Chain EI:

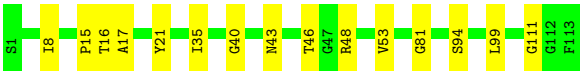
• Molecule 1: coat protein

Chain EJ:



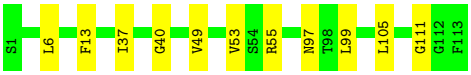
• Molecule 1: coat protein

Chain EK:



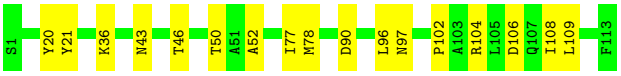
• Molecule 1: coat protein

Chain EL:



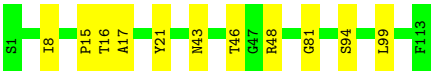
• Molecule 1: coat protein

Chain EM:



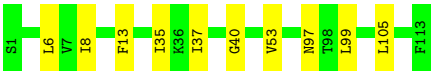
• Molecule 1: coat protein

Chain EN:



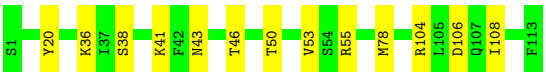
• Molecule 1: coat protein

Chain EO:



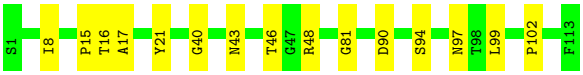
• Molecule 1: coat protein

Chain EP:



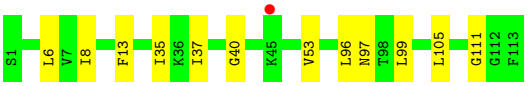
• Molecule 1: coat protein

Chain EQ:



• Molecule 1: coat protein

Chain ER:



• Molecule 1: coat protein

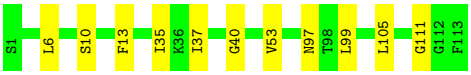
Chain ES:

• Molecule 1: coat protein

Chain ET:

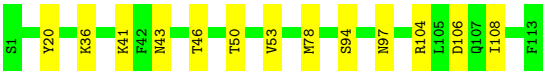
• Molecule 1: coat protein

Chain EU:



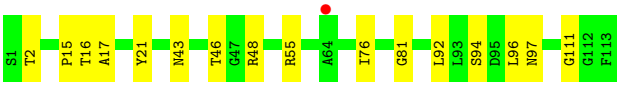
• Molecule 1: coat protein

Chain EV:



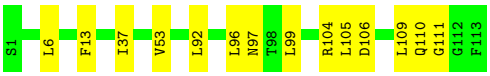
• Molecule 1: coat protein

Chain EW:



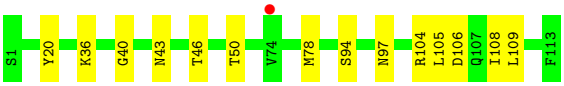
• Molecule 1: coat protein

Chain EX:



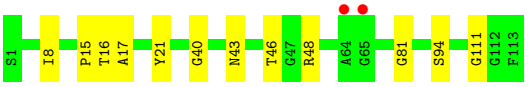
• Molecule 1: coat protein

Chain EY:



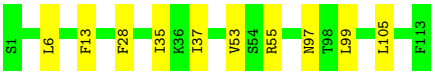
• Molecule 1: coat protein

Chain EZ:



• Molecule 1: coat protein

Chain FA:

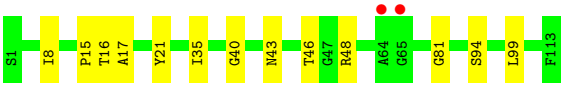


• Molecule 1: coat protein

Chain FB:

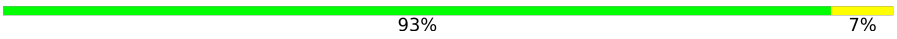
• Molecule 1: coat protein

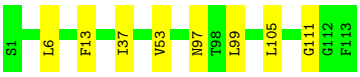
Chain FC:



• Molecule 1: coat protein

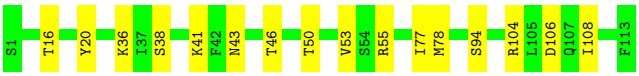
Chain FD:





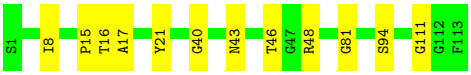
• Molecule 1: coat protein

Chain FE:



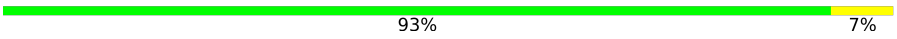
• Molecule 1: coat protein

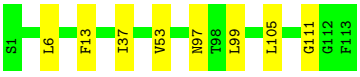
Chain FF:



• Molecule 1: coat protein

Chain FG:



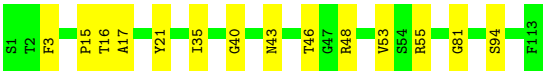


• Molecule 1: coat protein

Chain FH:

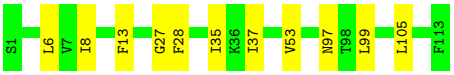
• Molecule 1: coat protein

Chain FI:



• Molecule 1: coat protein

Chain FJ:

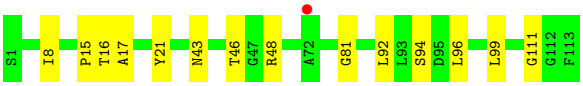


• Molecule 1: coat protein

Chain FK:

• Molecule 1: coat protein

Chain FL:



• Molecule 1: coat protein

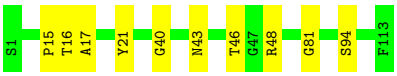
Chain FM:

• Molecule 1: coat protein

Chain FN:

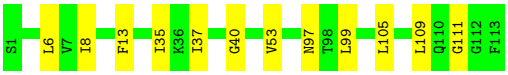
• Molecule 1: coat protein

Chain FO:



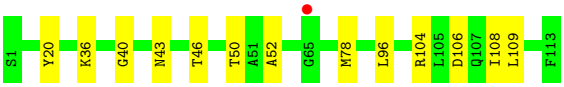
• Molecule 1: coat protein

Chain FP:



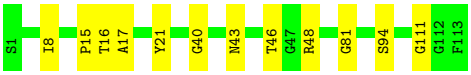
• Molecule 1: coat protein

Chain FQ:



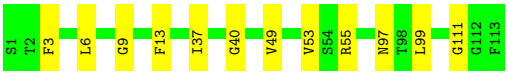
• Molecule 1: coat protein

Chain FR:



• Molecule 1: coat protein

Chain FS:

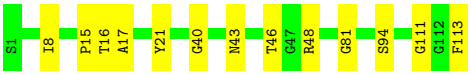


• Molecule 1: coat protein

Chain FT:

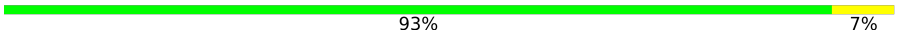
• Molecule 1: coat protein

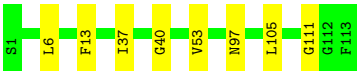
Chain FU:



• Molecule 1: coat protein

Chain FV:



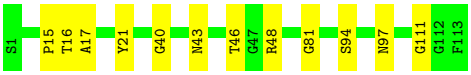


• Molecule 1: coat protein

Chain FW:

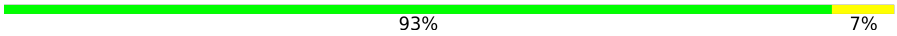
• Molecule 1: coat protein

Chain FX:



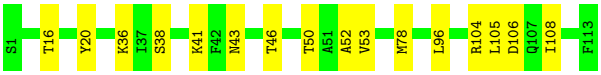
• Molecule 1: coat protein

Chain FY:



• Molecule 1: coat protein

Chain FZ:

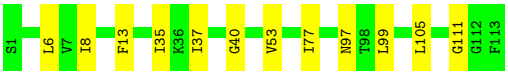


• Molecule 1: coat protein

Chain GA:

• Molecule 1: coat protein

Chain GB:

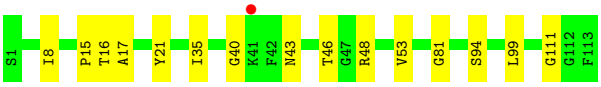


• Molecule 1: coat protein

Chain GC:

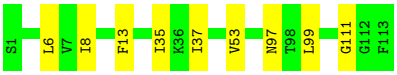
• Molecule 1: coat protein

Chain GD:



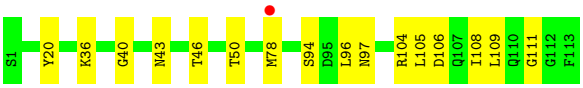
• Molecule 1: coat protein

Chain GE:



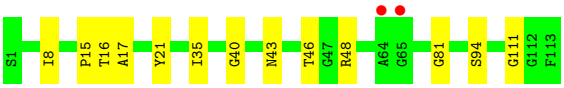
• Molecule 1: coat protein

Chain GF:



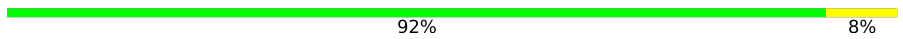
• Molecule 1: coat protein

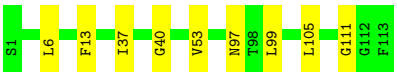
Chain GG:



• Molecule 1: coat protein

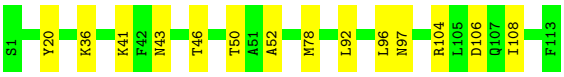
Chain GH:





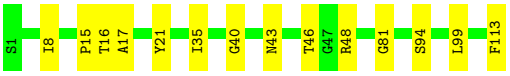
• Molecule 1: coat protein

Chain GI:



• Molecule 1: coat protein

Chain GJ:



• Molecule 1: coat protein

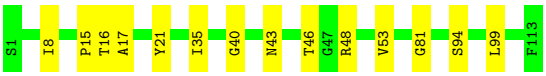
Chain GK:

• Molecule 1: coat protein

Chain GL:

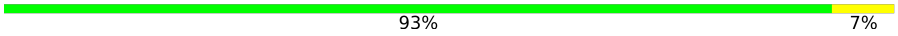
• Molecule 1: coat protein

Chain GM:



• Molecule 1: coat protein

Chain GN:

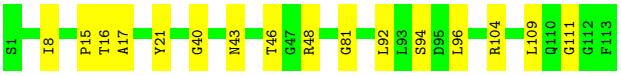


• Molecule 1: coat protein

Chain GO:

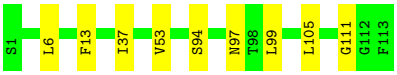
• Molecule 1: coat protein

Chain GP:



• Molecule 1: coat protein

Chain GQ:

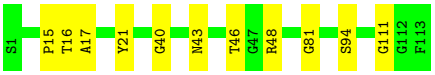


• Molecule 1: coat protein

Chain GR:

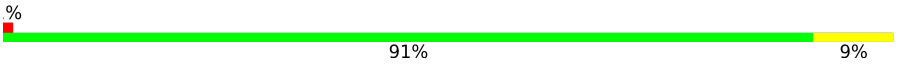
• Molecule 1: coat protein

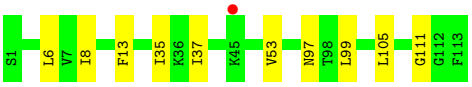
Chain GS:



• Molecule 1: coat protein

Chain GT:





• Molecule 1: coat protein

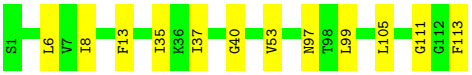
Chain GU:

• Molecule 1: coat protein

Chain GV:

• Molecule 1: coat protein

Chain GW:



• Molecule 1: coat protein

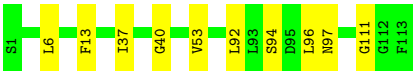
Chain GX:

• Molecule 1: coat protein

Chain GY:

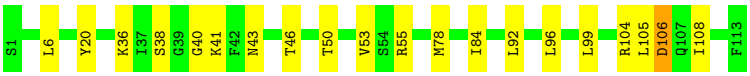
• Molecule 1: coat protein

Chain GZ:



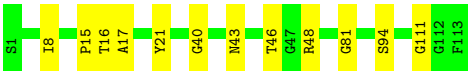
• Molecule 1: coat protein

Chain HA:



• Molecule 1: coat protein

Chain HB:



• Molecule 1: coat protein

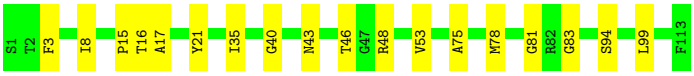
Chain HC:

• Molecule 1: coat protein

Chain HD:

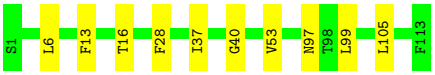
• Molecule 1: coat protein

Chain HE:



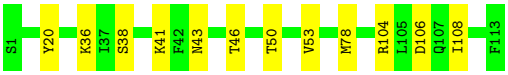
• Molecule 1: coat protein

Chain HF:



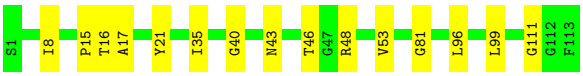
• Molecule 1: coat protein

Chain HG:



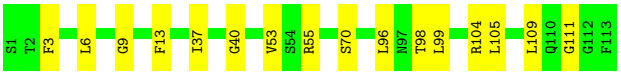
• Molecule 1: coat protein

Chain HH:



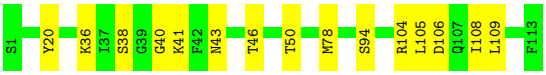
• Molecule 1: coat protein

Chain HI:



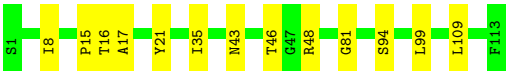
• Molecule 1: coat protein

Chain HJ:



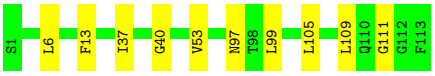
• Molecule 1: coat protein

Chain HK:



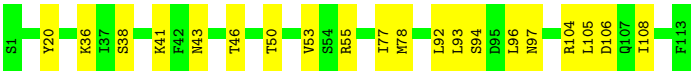
• Molecule 1: coat protein

Chain HL:



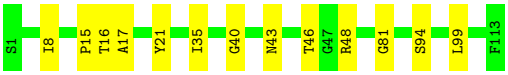
• Molecule 1: coat protein

Chain HM:



• Molecule 1: coat protein

Chain HN:

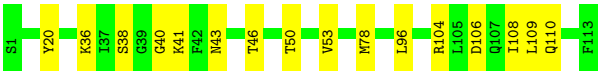


• Molecule 1: coat protein

Chain HO:

• Molecule 1: coat protein

Chain HP:



• Molecule 1: coat protein

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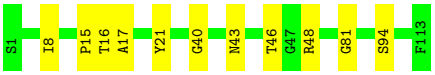
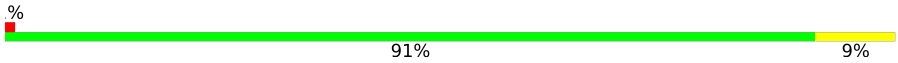
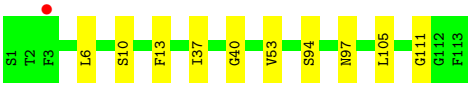


• Molecule 1: coat protein

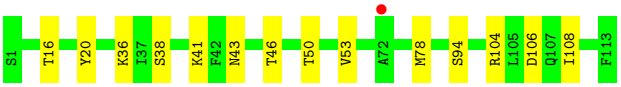
Chain HR:





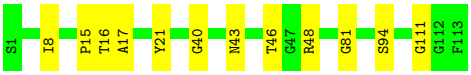
• Molecule 1: coat protein

Chain HS:



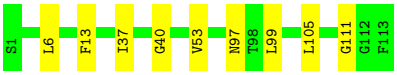
• Molecule 1: coat protein

Chain HT:



• Molecule 1: coat protein

Chain HU:



• Molecule 1: coat protein

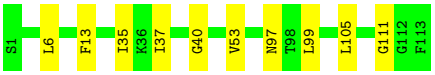
Chain HV:

• Molecule 1: coat protein

Chain HW:

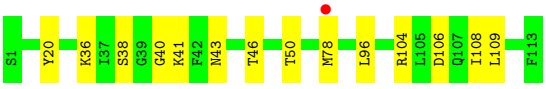
• Molecule 1: coat protein

Chain HX:



• Molecule 1: coat protein

Chain HY:

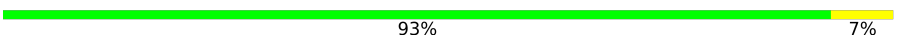


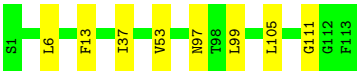
• Molecule 1: coat protein

Chain HZ:

• Molecule 1: coat protein

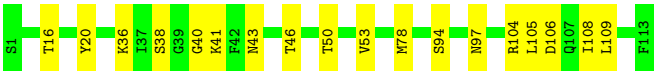
Chain IA:





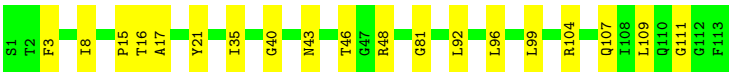
• Molecule 1: coat protein

Chain IB:



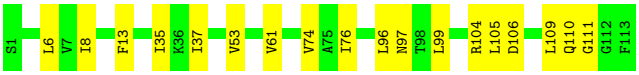
• Molecule 1: coat protein

Chain IC:



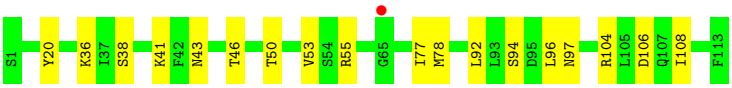
• Molecule 1: coat protein

Chain ID:



• Molecule 1: coat protein

Chain IE:



• Molecule 1: coat protein

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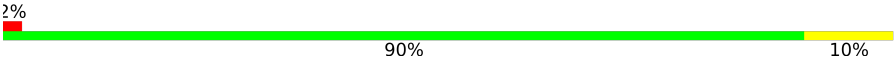
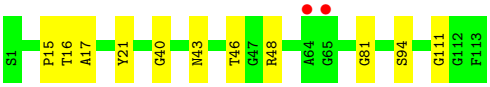
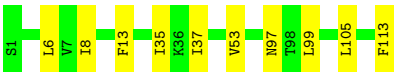




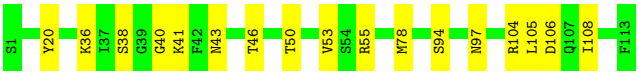
• Molecule 1: coat protein

Chain IG:



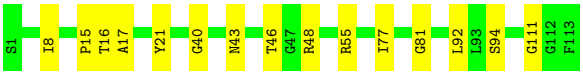
• Molecule 1: coat protein

Chain IH:



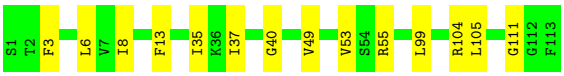
• Molecule 1: coat protein

Chain II:



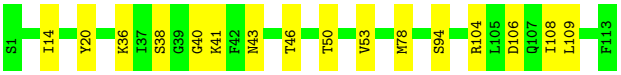
• Molecule 1: coat protein

Chain IJ:



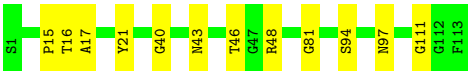
• Molecule 1: coat protein

Chain IK:



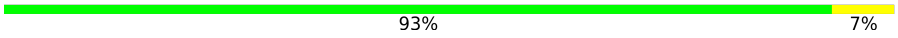
• Molecule 1: coat protein

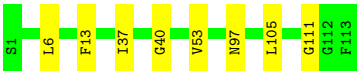
Chain IL:



• Molecule 1: coat protein

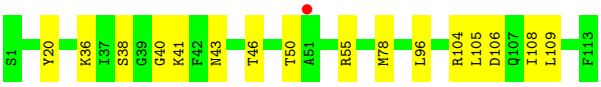
Chain IM:





• Molecule 1: coat protein

Chain IN:



• Molecule 1: coat protein

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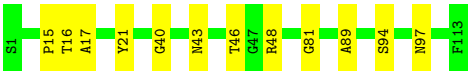

• Molecule 1: coat protein

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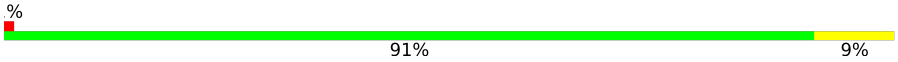
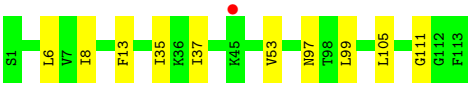
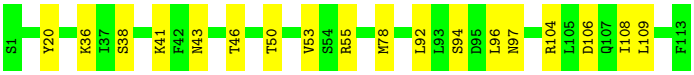




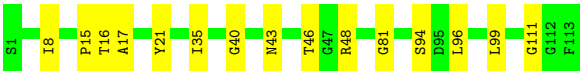
• Molecule 1: coat protein

Chain IQ:



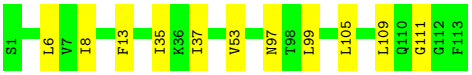
• Molecule 1: coat protein

Chain IR:



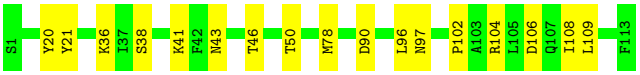
• Molecule 1: coat protein

Chain IS:



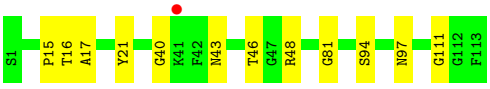
• Molecule 1: coat protein

Chain IT:



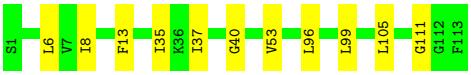
• Molecule 1: coat protein

Chain IU:



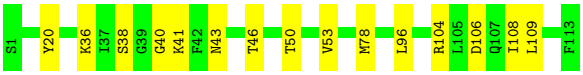
• Molecule 1: coat protein

Chain IV:



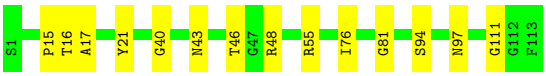
• Molecule 1: coat protein

Chain IW:



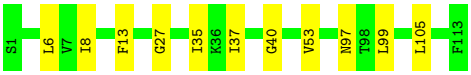
• Molecule 1: coat protein

Chain IX:



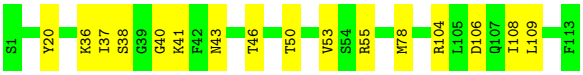
• Molecule 1: coat protein

Chain IY:



• Molecule 1: coat protein

Chain IZ:

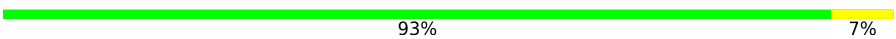


• Molecule 1: coat protein

Chain JA:

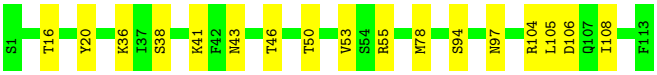
• Molecule 1: coat protein

Chain JB:



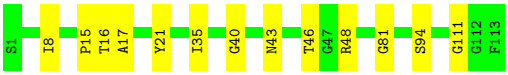
• Molecule 1: coat protein

Chain JC:



• Molecule 1: coat protein

Chain JD:

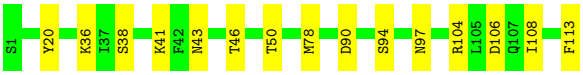


• Molecule 1: coat protein

Chain JE:

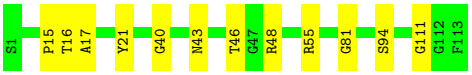
• Molecule 1: coat protein

Chain JF:



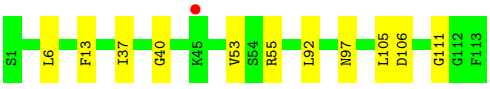
• Molecule 1: coat protein

Chain JG:



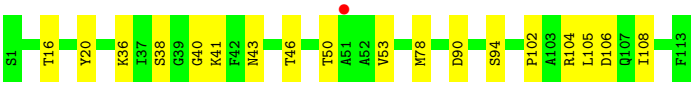
• Molecule 1: coat protein

Chain JH:



• Molecule 1: coat protein

Chain JI:

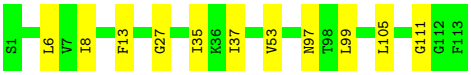


• Molecule 1: coat protein

Chain JJ:

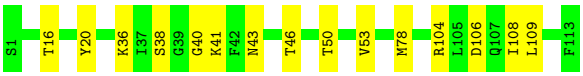
• Molecule 1: coat protein

Chain JK:



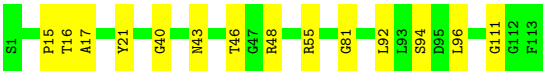
• Molecule 1: coat protein

Chain JL:



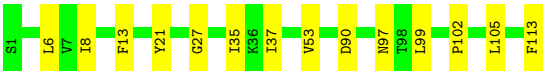
• Molecule 1: coat protein

Chain JM:



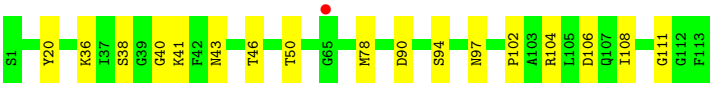
• Molecule 1: coat protein

Chain JN:



• Molecule 1: coat protein

Chain JO:

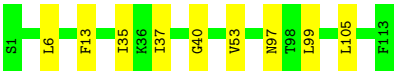


• Molecule 1: coat protein

Chain JP:

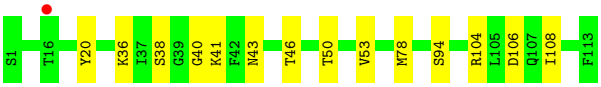
• Molecule 1: coat protein

Chain JQ:



• Molecule 1: coat protein

Chain JR:

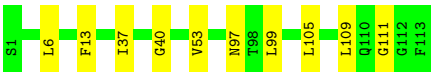


• Molecule 1: coat protein

Chain JS:

• Molecule 1: coat protein

Chain JT:

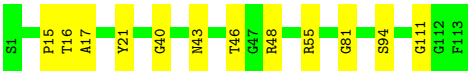


• Molecule 1: coat protein

Chain JU:

• Molecule 1: coat protein

Chain JV:

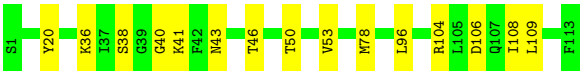


• Molecule 1: coat protein

Chain JW:

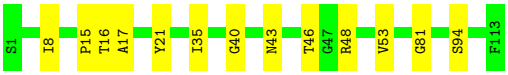
• Molecule 1: coat protein

Chain JX:



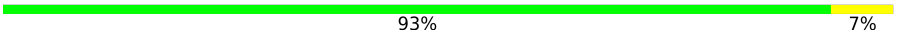
• Molecule 1: coat protein

Chain JY:



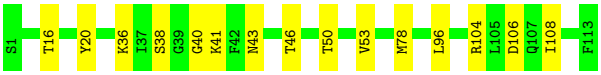
• Molecule 1: coat protein

Chain JZ:



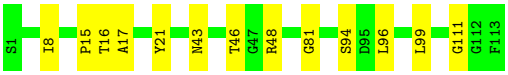
• Molecule 1: coat protein

Chain KA:



• Molecule 1: coat protein

Chain KB:



• Molecule 1: coat protein

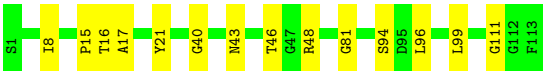
Chain KC:

• Molecule 1: coat protein

Chain KD:

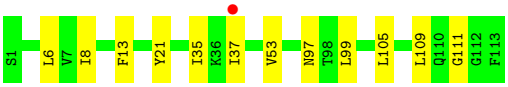
• Molecule 1: coat protein

Chain KE:



• Molecule 1: coat protein

Chain KF:

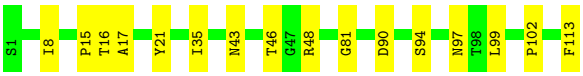


• Molecule 1: coat protein

Chain KG:

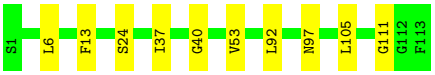
• Molecule 1: coat protein

Chain KH:



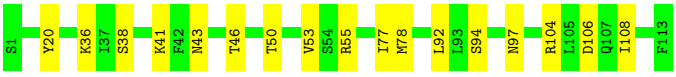
• Molecule 1: coat protein

Chain KI:



• Molecule 1: coat protein

Chain KJ:

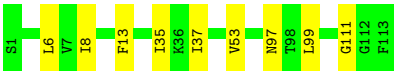


• Molecule 1: coat protein

Chain KK:

• Molecule 1: coat protein

Chain KL:

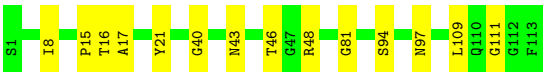


• Molecule 1: coat protein

Chain KM:

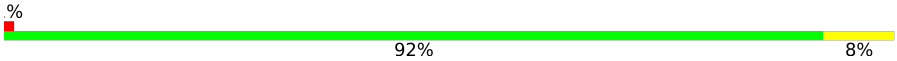
• Molecule 1: coat protein

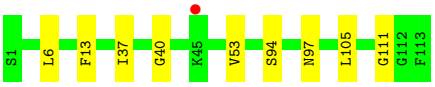
Chain KN:



• Molecule 1: coat protein

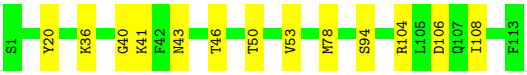
Chain KO:





• Molecule 1: coat protein

Chain KP:

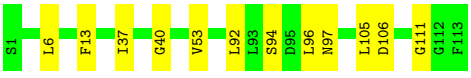


• Molecule 1: coat protein

Chain KQ:

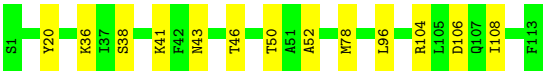
• Molecule 1: coat protein

Chain KR:



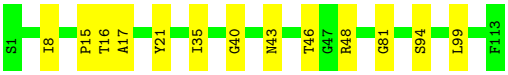
• Molecule 1: coat protein

Chain KS:



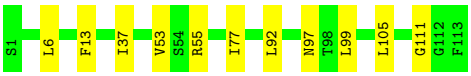
• Molecule 1: coat protein

Chain KT:



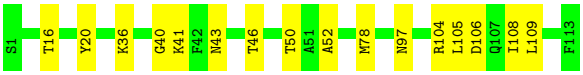
• Molecule 1: coat protein

Chain KU:



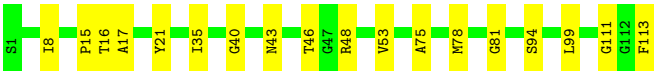
• Molecule 1: coat protein

Chain KV:



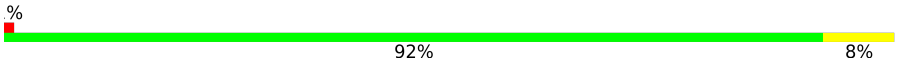
• Molecule 1: coat protein

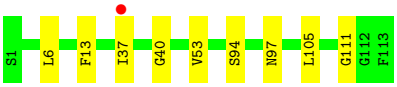
Chain KW:



• Molecule 1: coat protein

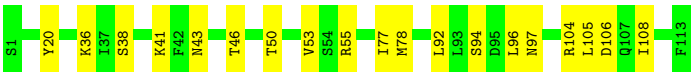
Chain KX:





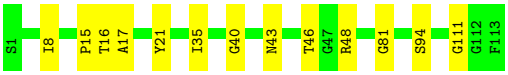
• Molecule 1: coat protein

Chain KY:



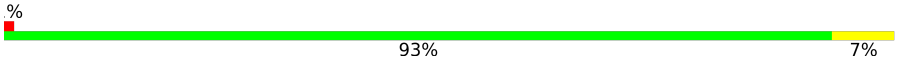
• Molecule 1: coat protein

Chain KZ:



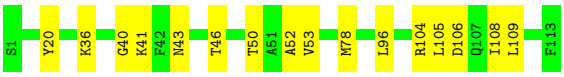
• Molecule 1: coat protein

Chain LA:



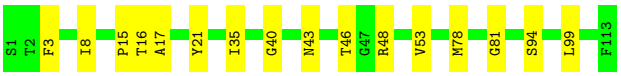
• Molecule 1: coat protein

Chain LB:



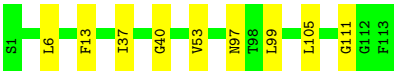
• Molecule 1: coat protein

Chain LC:



• Molecule 1: coat protein

Chain LD:

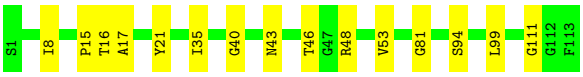


• Molecule 1: coat protein

Chain LE:

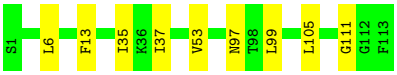
• Molecule 1: coat protein

Chain LF:



• Molecule 1: coat protein

Chain LG:

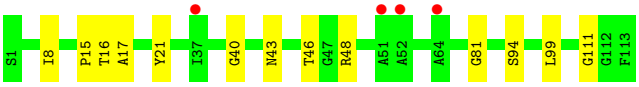


• Molecule 1: coat protein

Chain LH:

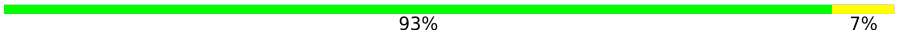
• Molecule 1: coat protein

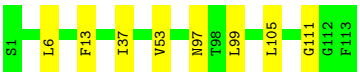
Chain LI:



• Molecule 1: coat protein

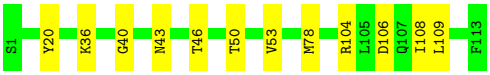
Chain LJ:





• Molecule 1: coat protein

Chain LK:

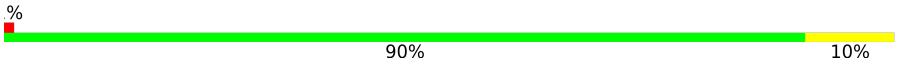


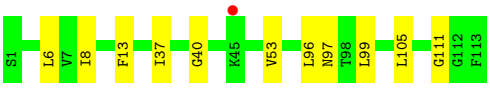
• Molecule 1: coat protein

Chain LL:

• Molecule 1: coat protein

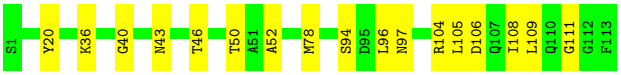
Chain LM:





• Molecule 1: coat protein

Chain LN:

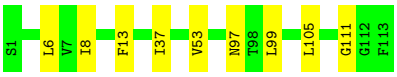


• Molecule 1: coat protein

Chain LO:

• Molecule 1: coat protein

Chain LP:

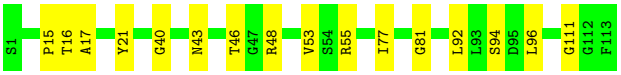


• Molecule 1: coat protein

Chain LQ:

• Molecule 1: coat protein

Chain LR:

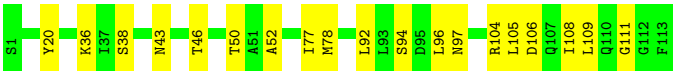


• Molecule 1: coat protein

Chain LS:

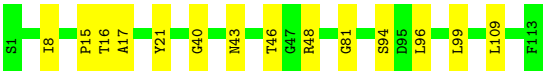
• Molecule 1: coat protein

Chain LT:



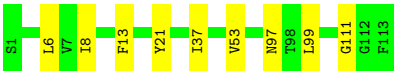
• Molecule 1: coat protein

Chain LU:



• Molecule 1: coat protein

Chain LV:

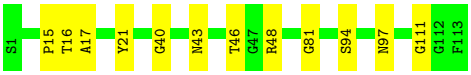


• Molecule 1: coat protein

Chain LW:

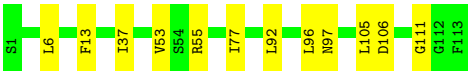
• Molecule 1: coat protein

Chain LX:



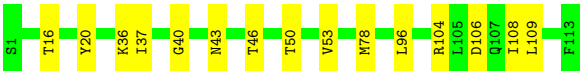
• Molecule 1: coat protein

Chain LY:



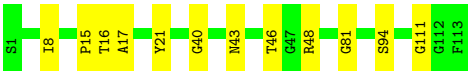
• Molecule 1: coat protein

Chain LZ:



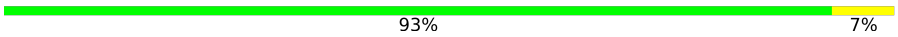
• Molecule 1: coat protein

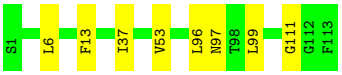
Chain MA:



• Molecule 1: coat protein

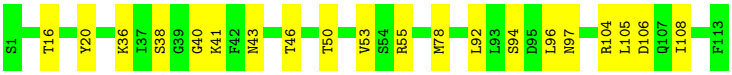
Chain MB:





• Molecule 1: coat protein

Chain MC:

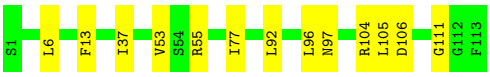


• Molecule 1: coat protein

Chain MD:

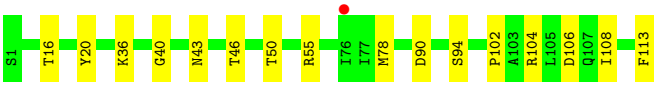
• Molecule 1: coat protein

Chain ME:



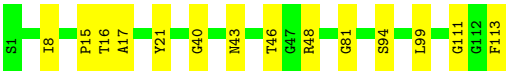
• Molecule 1: coat protein

Chain MF:



• Molecule 1: coat protein

Chain MG:

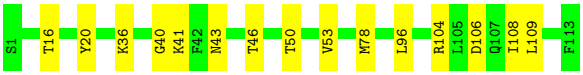


• Molecule 1: coat protein

Chain MH:

• Molecule 1: coat protein

Chain MI:



• Molecule 1: coat protein

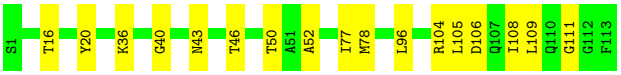
Chain MJ:

• Molecule 1: coat protein

Chain MK:

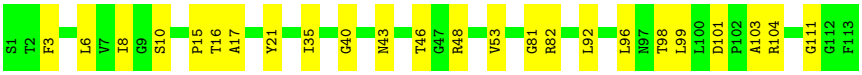
• Molecule 1: coat protein

Chain ML:



• Molecule 1: coat protein

Chain MM:

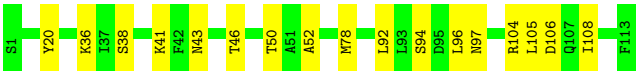


• Molecule 1: coat protein

Chain MN:

• Molecule 1: coat protein

Chain MO:

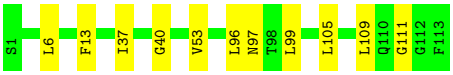


• Molecule 1: coat protein

Chain MP:

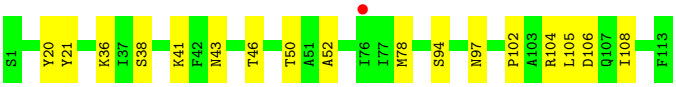
• Molecule 1: coat protein

Chain MQ:



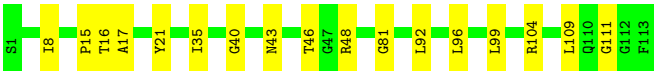
• Molecule 1: coat protein

Chain MR:



• Molecule 1: coat protein

Chain MS:

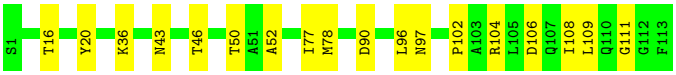


• Molecule 1: coat protein

Chain MT:

• Molecule 1: coat protein

Chain MU:

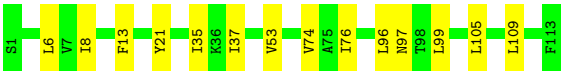


• Molecule 1: coat protein

Chain MV:

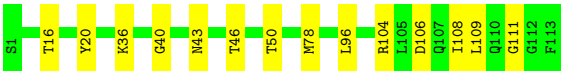
• Molecule 1: coat protein

Chain MW:



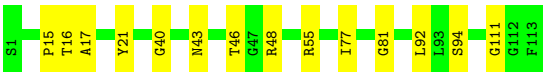
• Molecule 1: coat protein

Chain MX:



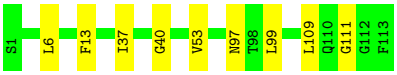
• Molecule 1: coat protein

Chain MY:



• Molecule 1: coat protein

Chain MZ:



• Molecule 1: coat protein

Chain NA:

• Molecule 1: coat protein

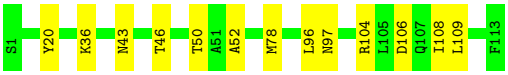
Chain NB:

• Molecule 1: coat protein

Chain NC:

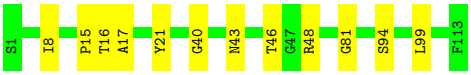
• Molecule 1: coat protein

Chain ND:



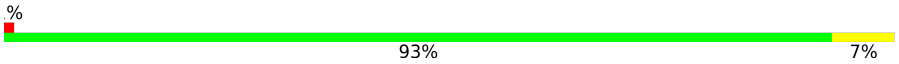
• Molecule 1: coat protein

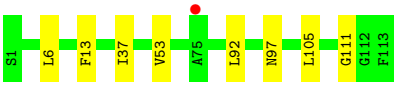
Chain NE:



• Molecule 1: coat protein

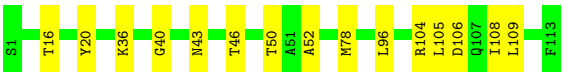
Chain NF:





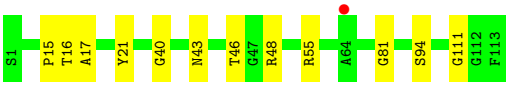
• Molecule 1: coat protein

Chain NG:



• Molecule 1: coat protein

Chain NH:



• Molecule 1: coat protein

Chain NI:

• Molecule 1: coat protein

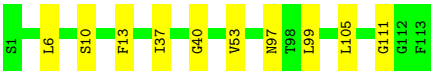
Chain NJ:

• Molecule 1: coat protein

Chain NK:

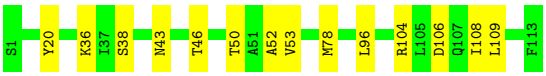
• Molecule 1: coat protein

Chain NL:



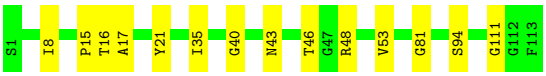
• Molecule 1: coat protein

Chain NM:



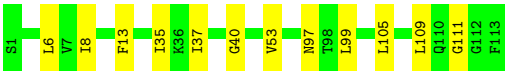
• Molecule 1: coat protein

Chain NN:



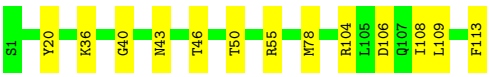
• Molecule 1: coat protein

Chain NO:



• Molecule 1: coat protein

Chain NP:



• Molecule 1: coat protein

Chain NQ:

• Molecule 1: coat protein

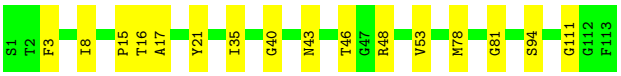
Chain NR:

• Molecule 1: coat protein

Chain NS:

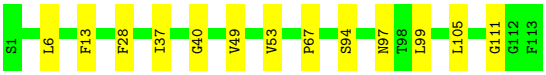
• Molecule 1: coat protein

Chain NT:



• Molecule 1: coat protein

Chain NU:

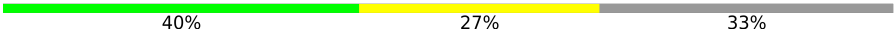


• Molecule 1: coat protein

Chain NV:

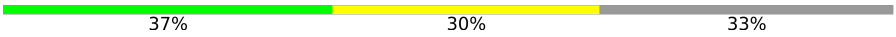
• Molecule 2: RNA

Chain RA:



• Molecule 2: RNA

Chain RB:



• Molecule 2: RNA

Chain RC:

• Molecule 2: RNA

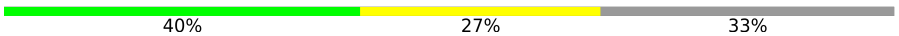
Chain RD:

• Molecule 2: RNA

Chain RE:

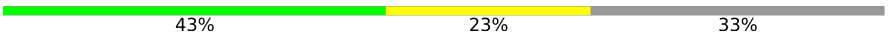
• Molecule 2: RNA

Chain RF:



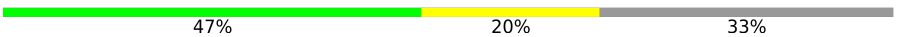
• Molecule 2: RNA

Chain RG:



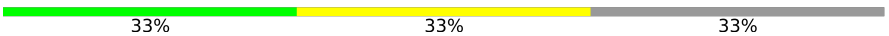
• Molecule 2: RNA

Chain RH:



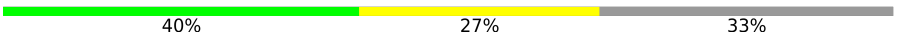
• Molecule 2: RNA

Chain RI:



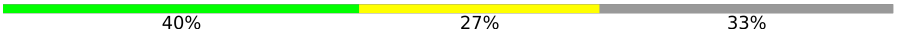
• Molecule 2: RNA

Chain RJ:



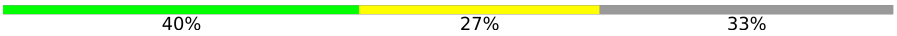
• Molecule 2: RNA

Chain RK:



• Molecule 2: RNA

Chain RL:

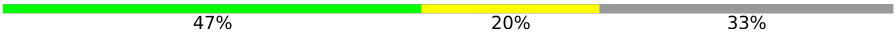


• Molecule 2: RNA

Chain RM:

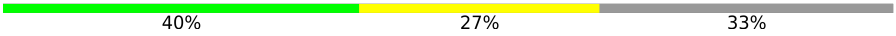
• Molecule 2: RNA

Chain RN:



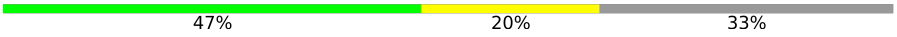
• Molecule 2: RNA

Chain RO:



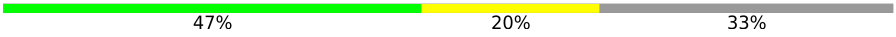
• Molecule 2: RNA

Chain RP:



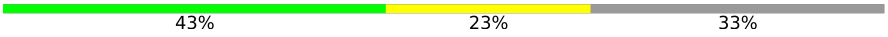
• Molecule 2: RNA

Chain RQ:



• Molecule 2: RNA

Chain RR:

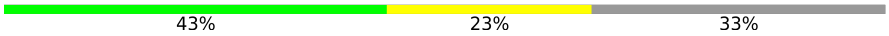


• Molecule 2: RNA

Chain RS:

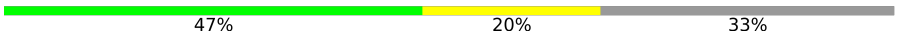
• Molecule 2: RNA

Chain RT:



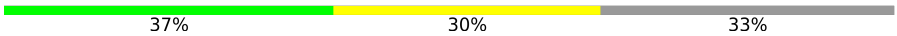
• Molecule 2: RNA

Chain RU:



• Molecule 2: RNA

Chain RV:

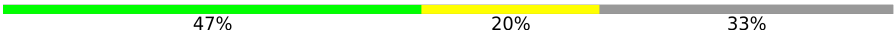


• Molecule 2: RNA

Chain RW:

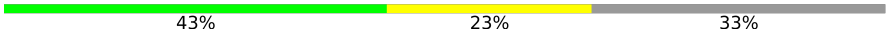
• Molecule 2: RNA

Chain RX:



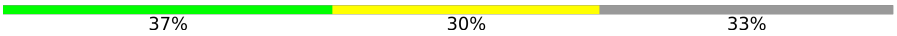
• Molecule 2: RNA

Chain RY:



• Molecule 2: RNA

Chain RZ:

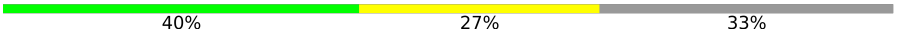


• Molecule 2: RNA

Chain SA:

• Molecule 2: RNA

Chain SB:

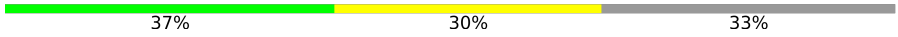


• Molecule 2: RNA

Chain SC:

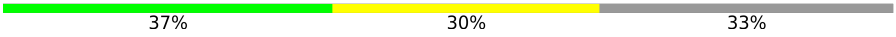
• Molecule 2: RNA

Chain SD:



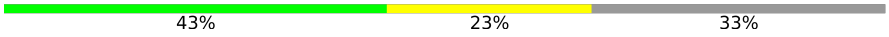
• Molecule 2: RNA

Chain SE:



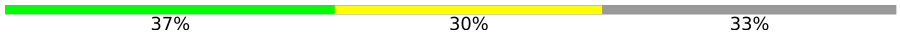
• Molecule 2: RNA

Chain SF:



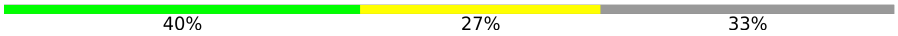
• Molecule 2: RNA

Chain SG:



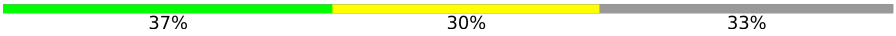
• Molecule 2: RNA

Chain SH:



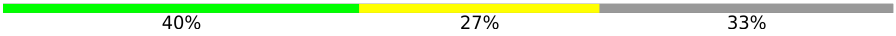
• Molecule 2: RNA

Chain SI:



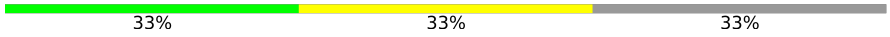
• Molecule 2: RNA

Chain SJ:



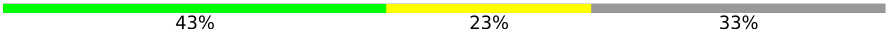
• Molecule 2: RNA

Chain SK:



• Molecule 2: RNA

Chain SL:



• Molecule 2: RNA

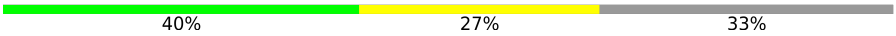
Chain SM:

• Molecule 2: RNA

Chain SN:

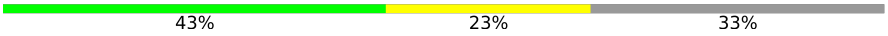
• Molecule 2: RNA

Chain SO:



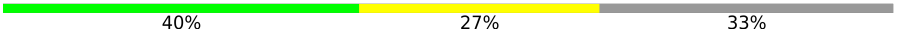
• Molecule 2: RNA

Chain SP:



• Molecule 2: RNA

Chain SQ:

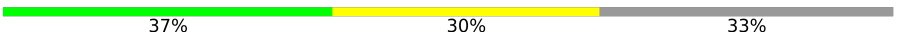


• Molecule 2: RNA

Chain SR:

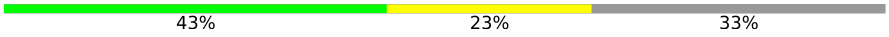
• Molecule 2: RNA

Chain SS:



• Molecule 2: RNA

Chain ST:

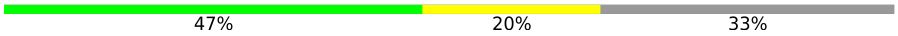


• Molecule 2: RNA

Chain SU:

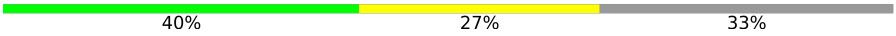
• Molecule 2: RNA

Chain SV:



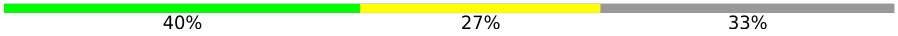
• Molecule 2: RNA

Chain SW:



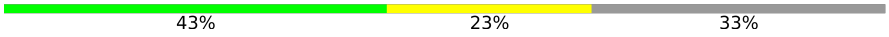
• Molecule 2: RNA

Chain SX:



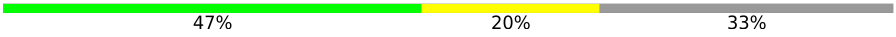
• Molecule 2: RNA

Chain SY:



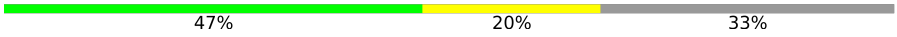
• Molecule 2: RNA

Chain SZ:



• Molecule 2: RNA

Chain TA:

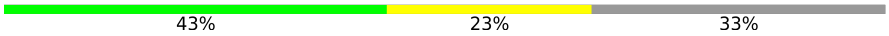


• Molecule 2: RNA

Chain TB:

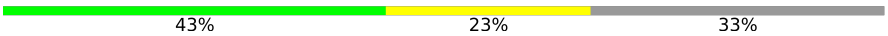
• Molecule 2: RNA

Chain TC:



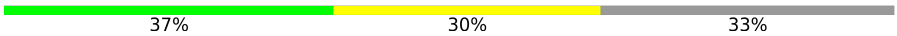
• Molecule 2: RNA

Chain TD:



• Molecule 2: RNA

Chain TE:

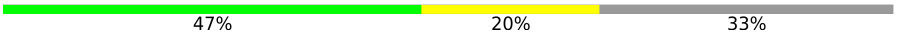


• Molecule 2: RNA

Chain TF:

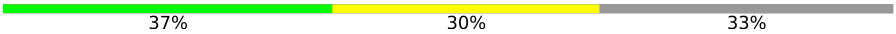
• Molecule 2: RNA

Chain TG:



• Molecule 2: RNA

Chain TH:



4 Data and refinement statistics (i)

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
$< I/\sigma(I) >$ [1]	1.26 (at 3.49Å)	Xtriage
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	Xtriage
Anisotropy	0.317	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	(Not available) , (Not available)	EDS
L-test for twinning[2]	$< \|L\| > = 0.38$, $< L^2 > = 0.20$	Xtriage
Estimated twinning fraction	0.096 for -h,-l,-k	Xtriage
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

Xtriage'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.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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.

All (213) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
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
2	TG	22	A	N9-C4-C5	-6.34	103.27	105.80
2	RN	22	A	N9-C4-C5	-6.33	103.27	105.80
2	SV	22	A	N9-C4-C5	-6.33	103.27	105.80
2	RK	22	A	N9-C4-C5	-6.32	103.27	105.80
2	SP	22	A	N9-C4-C5	-6.32	103.27	105.80
2	RU	22	A	N9-C4-C5	-6.32	103.27	105.80
2	RC	22	A	N9-C4-C5	-6.31	103.28	105.80
2	RX	22	A	N9-C4-C5	-6.30	103.28	105.80
2	SB	22	A	N9-C4-C5	-6.30	103.28	105.80
2	RO	22	A	N9-C4-C5	-6.29	103.28	105.80
2	RV	22	A	N9-C4-C5	-6.29	103.28	105.80
2	TF	22	A	N9-C4-C5	-6.29	103.28	105.80
2	SA	22	A	N9-C4-C5	-6.29	103.28	105.80
2	RD	22	A	N9-C4-C5	-6.29	103.29	105.80
2	TE	22	A	N9-C4-C5	-6.29	103.29	105.80
2	RF	22	A	N9-C4-C5	-6.27	103.29	105.80
2	SA	22	A	N1-C6-N6	6.27	122.36	118.60
2	RM	22	A	N1-C6-N6	6.26	122.36	118.60
2	SU	22	A	N9-C4-C5	-6.26	103.29	105.80
2	SZ	22	A	N9-C4-C5	-6.26	103.29	105.80
2	TE	22	A	N1-C6-N6	6.26	122.36	118.60
2	SK	22	A	N9-C4-C5	-6.26	103.30	105.80
2	RA	22	A	N9-C4-C5	-6.26	103.30	105.80
2	RL	22	A	N9-C4-C5	-6.26	103.30	105.80
2	RF	22	A	N1-C6-N6	6.26	122.35	118.60
2	RJ	22	A	N9-C4-C5	-6.26	103.30	105.80
2	SJ	22	A	N9-C4-C5	-6.26	103.30	105.80
2	SI	22	A	N9-C4-C5	-6.25	103.30	105.80
2	SB	22	A	N1-C6-N6	6.25	122.35	118.60
2	SM	22	A	N9-C4-C5	-6.25	103.30	105.80
2	RH	22	A	N9-C4-C5	-6.25	103.30	105.80
2	RZ	22	A	N9-C4-C5	-6.25	103.30	105.80
2	SF	22	A	N9-C4-C5	-6.25	103.30	105.80
2	TD	22	A	N9-C4-C5	-6.24	103.30	105.80
2	SG	22	A	N1-C6-N6	6.24	122.34	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	TA	22	A	N9-C4-C5	-6.24	103.30	105.80
2	TB	22	A	N9-C4-C5	-6.24	103.30	105.80
2	TH	22	A	N9-C4-C5	-6.24	103.31	105.80
2	RB	22	A	N9-C4-C5	-6.24	103.31	105.80
2	RG	22	A	N9-C4-C5	-6.24	103.31	105.80
2	RP	22	A	N1-C6-N6	6.24	122.34	118.60
2	RT	22	A	N9-C4-C5	-6.23	103.31	105.80
2	ST	22	A	N9-C4-C5	-6.23	103.31	105.80
2	SU	22	A	N1-C6-N6	6.23	122.34	118.60
2	SC	22	A	N1-C6-N6	6.23	122.33	118.60
2	SX	22	A	N1-C6-N6	6.22	122.33	118.60
2	SW	22	A	N1-C6-N6	6.22	122.33	118.60
2	RT	22	A	N1-C6-N6	6.22	122.33	118.60
2	RX	22	A	N1-C6-N6	6.22	122.33	118.60
2	RG	22	A	N1-C6-N6	6.22	122.33	118.60
2	TA	22	A	N1-C6-N6	6.22	122.33	118.60
2	RS	22	A	N9-C4-C5	-6.21	103.31	105.80
2	SG	22	A	N9-C4-C5	-6.21	103.31	105.80
2	SS	22	A	N9-C4-C5	-6.21	103.32	105.80
2	SN	22	A	N1-C6-N6	6.21	122.33	118.60
2	SO	22	A	N1-C6-N6	6.21	122.33	118.60
2	SQ	22	A	N9-C4-C5	-6.21	103.32	105.80
2	RH	22	A	N1-C6-N6	6.21	122.32	118.60
2	SR	22	A	N1-C6-N6	6.21	122.32	118.60
2	RE	22	A	N9-C4-C5	-6.20	103.32	105.80
2	RR	22	A	N1-C6-N6	6.20	122.32	118.60
2	RY	22	A	N9-C4-C5	-6.20	103.32	105.80
2	SP	22	A	N1-C6-N6	6.20	122.32	118.60
2	TC	22	A	N9-C4-C5	-6.20	103.32	105.80
2	RW	22	A	N1-C6-N6	6.20	122.32	118.60
2	RI	22	A	N9-C4-C5	-6.20	103.32	105.80
2	RN	22	A	N1-C6-N6	6.20	122.32	118.60
2	SH	22	A	N9-C4-C5	-6.20	103.32	105.80
2	SY	22	A	N9-C4-C5	-6.20	103.32	105.80
2	RQ	22	A	N1-C6-N6	6.19	122.32	118.60
2	SL	22	A	N9-C4-C5	-6.19	103.32	105.80
2	RQ	22	A	N9-C4-C5	-6.19	103.32	105.80
2	RZ	22	A	N1-C6-N6	6.19	122.31	118.60
2	SJ	22	A	N1-C6-N6	6.19	122.31	118.60
2	RL	22	A	N1-C6-N6	6.19	122.31	118.60
2	SR	22	A	N9-C4-C5	-6.19	103.33	105.80
2	RJ	22	A	N1-C6-N6	6.18	122.31	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	SY	22	A	N1-C6-N6	6.18	122.31	118.60
2	RB	22	A	N1-C6-N6	6.18	122.31	118.60
2	SC	22	A	N9-C4-C5	-6.18	103.33	105.80
2	ST	22	A	N1-C6-N6	6.18	122.31	118.60
2	RE	22	A	N1-C6-N6	6.18	122.31	118.60
2	RD	22	A	N1-C6-N6	6.18	122.31	118.60
2	TD	22	A	N1-C6-N6	6.17	122.31	118.60
2	RR	22	A	N9-C4-C5	-6.17	103.33	105.80
2	RA	22	A	N1-C6-N6	6.17	122.30	118.60
2	RI	22	A	N1-C6-N6	6.17	122.30	118.60
2	SW	22	A	N9-C4-C5	-6.17	103.33	105.80
2	TF	22	A	N1-C6-N6	6.17	122.30	118.60
2	TC	22	A	N1-C6-N6	6.17	122.30	118.60
2	TG	22	A	N1-C6-N6	6.17	122.30	118.60
2	RO	22	A	N1-C6-N6	6.17	122.30	118.60
2	SO	22	A	N9-C4-C5	-6.16	103.34	105.80
2	SS	22	A	N1-C6-N6	6.16	122.29	118.60
2	RC	22	A	N1-C6-N6	6.15	122.29	118.60
2	SK	22	A	N1-C6-N6	6.15	122.29	118.60
2	SE	22	A	N1-C6-N6	6.15	122.29	118.60
2	RS	22	A	N1-C6-N6	6.14	122.29	118.60
2	SZ	22	A	N1-C6-N6	6.14	122.29	118.60
2	RK	22	A	N1-C6-N6	6.14	122.29	118.60
2	RY	22	A	N1-C6-N6	6.14	122.29	118.60
2	SX	22	A	N9-C4-C5	-6.14	103.34	105.80
2	TH	22	A	N1-C6-N6	6.14	122.28	118.60
2	SH	22	A	N1-C6-N6	6.14	122.28	118.60
2	TB	22	A	N1-C6-N6	6.13	122.28	118.60
2	SF	22	A	N1-C6-N6	6.13	122.28	118.60
2	SV	22	A	N1-C6-N6	6.12	122.27	118.60
2	SQ	22	A	N1-C6-N6	6.12	122.27	118.60
2	SI	22	A	N1-C6-N6	6.12	122.27	118.60
2	SM	22	A	N1-C6-N6	6.12	122.27	118.60
2	RU	22	A	N1-C6-N6	6.11	122.27	118.60
2	RV	22	A	N1-C6-N6	6.11	122.27	118.60
2	SE	22	A	N9-C4-C5	-6.11	103.36	105.80
2	SD	22	A	N1-C6-N6	6.10	122.26	118.60
2	SL	22	A	N1-C6-N6	6.10	122.26	118.60
2	SU	30	A	C2-N3-C4	-5.50	107.85	110.60
2	RK	30	A	C2-N3-C4	-5.49	107.86	110.60
2	RU	30	A	C2-N3-C4	-5.48	107.86	110.60
2	RI	30	A	C2-N3-C4	-5.47	107.86	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	RB	30	A	C2-N3-C4	-5.47	107.87	110.60
2	TE	30	A	C2-N3-C4	-5.45	107.87	110.60
2	RF	30	A	C2-N3-C4	-5.45	107.87	110.60
2	SN	30	A	C2-N3-C4	-5.45	107.87	110.60
2	TD	30	A	C2-N3-C4	-5.44	107.88	110.60
2	SG	30	A	C2-N3-C4	-5.43	107.88	110.60
2	RY	30	A	C2-N3-C4	-5.42	107.89	110.60
2	SD	30	A	C2-N3-C4	-5.42	107.89	110.60
2	SA	30	A	C2-N3-C4	-5.42	107.89	110.60
2	SJ	30	A	C2-N3-C4	-5.42	107.89	110.60
2	TH	30	A	C2-N3-C4	-5.42	107.89	110.60
2	SF	30	A	C2-N3-C4	-5.42	107.89	110.60
2	SO	30	A	C2-N3-C4	-5.42	107.89	110.60
2	RQ	30	A	C2-N3-C4	-5.41	107.89	110.60
2	RV	30	A	C2-N3-C4	-5.41	107.90	110.60
2	RC	30	A	C2-N3-C4	-5.40	107.90	110.60
2	SV	30	A	C2-N3-C4	-5.40	107.90	110.60
2	TF	30	A	C2-N3-C4	-5.40	107.90	110.60
2	RJ	30	A	C2-N3-C4	-5.40	107.90	110.60
2	RL	30	A	C2-N3-C4	-5.40	107.90	110.60
2	ST	30	A	C2-N3-C4	-5.40	107.90	110.60
2	TA	30	A	C2-N3-C4	-5.40	107.90	110.60
2	RS	30	A	C2-N3-C4	-5.39	107.91	110.60
2	SW	30	A	C2-N3-C4	-5.39	107.91	110.60
2	SK	30	A	C2-N3-C4	-5.39	107.91	110.60
2	RW	30	A	C2-N3-C4	-5.38	107.91	110.60
2	SX	30	A	C2-N3-C4	-5.38	107.91	110.60
2	RA	30	A	C2-N3-C4	-5.38	107.91	110.60
2	RT	30	A	C2-N3-C4	-5.38	107.91	110.60
2	SR	30	A	C2-N3-C4	-5.38	107.91	110.60
2	RH	30	A	C2-N3-C4	-5.38	107.91	110.60
2	RX	30	A	C2-N3-C4	-5.38	107.91	110.60
2	RN	30	A	C2-N3-C4	-5.37	107.91	110.60
2	SP	30	A	C2-N3-C4	-5.37	107.91	110.60
2	SL	30	A	C2-N3-C4	-5.37	107.92	110.60
2	RP	30	A	C2-N3-C4	-5.37	107.92	110.60
2	SH	30	A	C2-N3-C4	-5.37	107.92	110.60
2	SY	30	A	C2-N3-C4	-5.37	107.92	110.60
2	SC	30	A	C2-N3-C4	-5.36	107.92	110.60
2	RM	30	A	C2-N3-C4	-5.36	107.92	110.60
2	TB	30	A	C2-N3-C4	-5.36	107.92	110.60
2	RZ	30	A	C2-N3-C4	-5.35	107.93	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	RO	30	A	C2-N3-C4	-5.34	107.93	110.60
2	RD	30	A	C2-N3-C4	-5.34	107.93	110.60
2	SI	30	A	C2-N3-C4	-5.33	107.93	110.60
2	SE	30	A	C2-N3-C4	-5.33	107.93	110.60
2	RR	30	A	C2-N3-C4	-5.32	107.94	110.60
2	SZ	30	A	C2-N3-C4	-5.32	107.94	110.60
2	TC	30	A	C2-N3-C4	-5.32	107.94	110.60
2	TG	30	A	C2-N3-C4	-5.31	107.94	110.60
2	RE	30	A	C2-N3-C4	-5.31	107.95	110.60
2	RG	30	A	C2-N3-C4	-5.29	107.95	110.60
2	SM	30	A	C2-N3-C4	-5.27	107.96	110.60
2	SQ	30	A	C2-N3-C4	-5.27	107.97	110.60
2	SS	30	A	C2-N3-C4	-5.26	107.97	110.60
2	SB	30	A	C2-N3-C4	-5.23	107.99	110.60
2	SD	10	U	C5-C6-N1	-5.10	120.15	122.70
2	SY	10	U	C5-C6-N1	-5.09	120.16	122.70
2	RB	10	U	C5-C6-N1	-5.08	120.16	122.70
2	TB	10	U	C5-C6-N1	-5.08	120.16	122.70
2	SZ	10	U	C5-C6-N1	-5.07	120.17	122.70
2	TH	10	U	C5-C6-N1	-5.05	120.17	122.70
2	SR	10	U	C5-C6-N1	-5.05	120.17	122.70
2	SK	4	U	C2-N3-C4	-5.04	123.97	127.00
2	RV	10	U	C5-C6-N1	-5.04	120.18	122.70
2	SE	10	U	C5-C6-N1	-5.04	120.18	122.70
2	RF	10	U	C5-C6-N1	-5.04	120.18	122.70
2	SJ	10	U	C5-C6-N1	-5.04	120.18	122.70
2	TE	10	U	C5-C6-N1	-5.04	120.18	122.70
2	RL	10	U	C5-C6-N1	-5.04	120.18	122.70
2	RE	10	U	C5-C6-N1	-5.03	120.18	122.70
2	RI	10	U	C5-C6-N1	-5.03	120.18	122.70
2	RT	10	U	C5-C6-N1	-5.03	120.19	122.70
2	ST	10	U	C5-C6-N1	-5.03	120.18	122.70
2	RS	10	U	C5-C6-N1	-5.03	120.19	122.70
2	RX	10	U	C5-C6-N1	-5.02	120.19	122.70
2	SI	10	U	C5-C6-N1	-5.02	120.19	122.70
2	RR	10	U	C5-C6-N1	-5.02	120.19	122.70
2	SG	4	U	C2-N3-C4	-5.02	123.99	127.00
2	SU	10	U	C5-C6-N1	-5.02	120.19	122.70
2	RH	10	U	C5-C6-N1	-5.01	120.19	122.70
2	SS	10	U	C5-C6-N1	-5.01	120.19	122.70
2	RZ	10	U	C5-C6-N1	-5.01	120.20	122.70
2	SK	10	U	C5-C6-N1	-5.01	120.20	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	SQ	10	U	C5-C6-N1	-5.01	120.19	122.70
2	RQ	10	U	C5-C6-N1	-5.01	120.20	122.70
2	TD	4	U	C2-N3-C4	-5.00	124.00	127.00
2	RI	4	U	C2-N3-C4	-5.00	124.00	127.00
2	RP	10	U	C5-C6-N1	-5.00	120.20	122.70

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
1	AW	839	0	858	10	0
1	AX	839	0	858	12	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
1	CM	839	0	858	7	0
1	CN	839	0	858	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
1	EC	839	0	858	23	0
1	ED	839	0	858	12	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
1	FS	839	0	858	12	1
1	FT	839	0	858	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
1	HI	839	0	858	25	0
1	HJ	839	0	858	11	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
1	IY	839	0	858	11	0
1	IZ	839	0	858	13	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
1	KO	839	0	858	8	0
1	KP	839	0	858	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
1	ME	839	0	858	16	1
1	MF	839	0	858	12	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
1	NU	839	0	858	12	0
1	NV	839	0	858	17	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
2	SO	420	0	212	6	0
2	SP	420	0	212	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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.

All (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
1:IO:94:SER:HA	1:LA:97:ASN:HD21	1.44	0.82
1:BQ:98:THR:HG23	1:HI:98:THR:HG23	1.62	0.81
1:MN:109:LEU:O	1:NT:40:GLY:HA2	1.83	0.79
1:CX:35:ILE:HD13	1:DK:99:LEU:HD22	1.66	0.78
1:BB:40:GLY:HA2	1:BR:109:LEU:O	1.86	0.76
1:AK:97:ASN:HD21	1:FO:94:SER:HA	1.50	0.76
1:BQ:10:SER:HB3	1:MM:101:ASP:OD2	1.86	0.76
1:JE:97:ASN:ND2	1:JJ:94:SER:HA	2.00	0.75
1:AI:109:LEU:O	1:DU:40:GLY:HA2	1.87	0.75
1:AY:94:SER:HA	1:EI:97:ASN:HD21	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:97:ASN:HD21	1:FU:94:SER:HA	1.53	0.73
1:BQ:10:SER:CB	1:MM:101:ASP:OD2	2.36	0.73
1:HR:97:ASN:HD21	1:LX:94:SER:HA	1.54	0.73
1:GZ:97:ASN:HD21	1:MV:94:SER:HA	1.54	0.73
1:JE:97:ASN:HD21	1:JJ:94:SER:HA	1.52	0.72
1:IL:94:SER:HA	1:KX:97:ASN:HD21	1.55	0.72
1:BQ:8:ILE:HD11	1:EC:99:LEU:HB2	1.72	0.72
1:EM:52:ALA:HB2	2:RI:26:A:H4'	1.72	0.72
1:HE:35:ILE:HD13	1:ID:99:LEU:HD22	1.72	0.71
1:IO:94:SER:HA	1:LA:97:ASN:ND2	2.04	0.71
1:AG:94:SER:HA	1:BF:97:ASN:HD21	1.55	0.71
1:EQ:94:SER:HA	1:FM:97:ASN:HD21	1.56	0.71
1:EP:20:TYR:OH	2:RJ:28:A:OP1	2.06	0.70
1:KS:20:TYR:OH	2:SG:28:A:OP1	2.09	0.70
1:IX:94:SER:HA	1:KR:97:ASN:HD21	1.57	0.70
1:CC:94:SER:HA	1:GK:97:ASN:HD21	1.57	0.69
1:JW:97:ASN:HD21	1:NE:94:SER:HA	1.58	0.69
1:GL:20:TYR:OH	2:RZ:28:A:OP1	2.08	0.69
1:IC:8:ILE:HD11	1:IJ:99:LEU:HB2	1.74	0.69
1:BQ:10:SER:N	1:MM:101:ASP:OD2	2.26	0.69
1:CM:97:ASN:HD21	1:DG:94:SER:HA	1.58	0.69
1:BG:53:VAL:HG12	1:ES:96:LEU:HD22	1.76	0.68
1:AE:97:ASN:HD21	1:GA:94:SER:HA	1.58	0.68
1:AT:97:ASN:HD21	1:EZ:94:SER:HA	1.57	0.68
1:DL:97:ASN:HD21	1:GX:94:SER:HA	1.58	0.68
1:HB:94:SER:HA	1:IA:97:ASN:HD21	1.59	0.68
1:AB:97:ASN:HD21	1:FX:94:SER:HA	1.58	0.68
1:KK:94:SER:HA	1:NR:97:ASN:HD21	1.58	0.67
1:DS:94:SER:HA	1:GQ:97:ASN:HD21	1.58	0.67
1:CC:94:SER:HA	1:GK:97:ASN:ND2	2.10	0.67
1:HL:97:ASN:HD21	1:MP:94:SER:HA	1.57	0.67
1:LY:97:ASN:HD21	1:MJ:94:SER:HA	1.59	0.67
1:HH:8:ILE:HD11	1:IV:99:LEU:HB2	1.76	0.67
1:IX:40:GLY:HA3	1:KR:111:GLY:HA2	1.76	0.67
1:EX:111:GLY:HA2	1:FI:40:GLY:HA3	1.76	0.67
1:IH:94:SER:HA	1:LT:97:ASN:HD21	1.60	0.67
1:IN:109:LEU:O	1:LZ:40:GLY:HA2	1.95	0.67
1:IF:94:SER:HA	1:IM:97:ASN:HD21	1.59	0.67
1:GZ:97:ASN:ND2	1:MV:94:SER:HA	2.09	0.67
1:AK:97:ASN:ND2	1:FO:94:SER:HA	2.10	0.66
1:DL:97:ASN:ND2	1:GX:94:SER:HA	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BQ:35:ILE:HD13	1:EC:99:LEU:HD22	1.78	0.66
1:LQ:20:TYR:OH	2:SO:28:A:OP1	2.10	0.66
1:LL:94:SER:HA	1:MH:97:ASN:HD21	1.59	0.66
1:BT:94:SER:HA	1:DN:97:ASN:HD21	1.60	0.66
1:IN:40:GLY:HA2	1:LZ:109:LEU:O	1.96	0.66
1:IC:96:LEU:HD22	1:IJ:53:VAL:HG12	1.78	0.66
1:HR:97:ASN:ND2	1:LX:94:SER:HA	2.11	0.66
1:IH:94:SER:HA	1:LT:97:ASN:ND2	2.11	0.66
1:MR:20:TYR:OH	2:SX:28:A:OP1	2.12	0.66
1:LC:35:ILE:HD13	1:LS:99:LEU:HD22	1.78	0.66
1:JY:94:SER:HA	1:KC:97:ASN:HD21	1.60	0.65
1:AV:94:SER:HA	1:EF:97:ASN:HD21	1.61	0.65
1:GR:52:ALA:HB2	2:SB:26:A:H4'	1.79	0.65
1:CC:40:GLY:HA3	1:GK:111:GLY:HA2	1.79	0.65
1:JN:97:ASN:HD21	1:KH:94:SER:HA	1.62	0.65
1:CD:97:ASN:HD21	1:CR:94:SER:HA	1.62	0.65
1:IX:94:SER:HA	1:KR:97:ASN:ND2	2.12	0.65
1:JL:40:GLY:HA2	1:MX:109:LEU:O	1.97	0.65
1:LV:97:ASN:HD21	1:MG:94:SER:HA	1.62	0.65
1:AY:94:SER:HA	1:EI:97:ASN:ND2	2.11	0.65
1:BZ:94:SER:HA	1:DT:97:ASN:HD21	1.60	0.65
1:EH:8:ILE:HD11	1:EO:99:LEU:HB2	1.79	0.64
1:IL:94:SER:HA	1:KX:97:ASN:ND2	2.12	0.64
1:IU:94:SER:HA	1:KO:97:ASN:HD21	1.60	0.64
1:CM:97:ASN:ND2	1:DG:94:SER:HA	2.13	0.64
1:EC:104:ARG:NH2	1:HI:9:GLY:O	2.30	0.64
1:MR:52:ALA:HB2	2:SX:26:A:H4'	1.79	0.64
1:CX:3:PHE:CE1	1:DK:104:ARG:HG2	2.32	0.64
1:JT:97:ASN:HD21	1:NK:94:SER:HA	1.61	0.64
1:BB:35:ILE:HD13	1:BR:99:LEU:HD22	1.80	0.64
1:IZ:40:GLY:HA2	1:ML:109:LEU:O	1.98	0.64
1:AM:94:SER:HA	1:CA:97:ASN:HD21	1.63	0.64
1:CY:97:ASN:HD21	1:GG:94:SER:HA	1.62	0.64
1:HL:111:GLY:HA2	1:MP:40:GLY:HA3	1.80	0.64
1:BQ:99:LEU:HD22	1:EC:35:ILE:HD13	1.80	0.64
1:BS:96:LEU:HD22	1:FE:53:VAL:HG12	1.80	0.64
1:FE:20:TYR:OH	2:RO:28:A:OP1	2.13	0.64
1:HQ:94:SER:HA	1:LJ:97:ASN:HD21	1.63	0.64
1:CU:8:ILE:HD11	1:DH:99:LEU:HB2	1.79	0.63
1:FS:40:GLY:HA3	1:GP:111:GLY:HA2	1.80	0.63
1:BK:94:SER:HA	1:DW:97:ASN:HD21	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JS:8:ILE:HD11	1:KF:99:LEU:HB2	1.80	0.63
1:MT:97:ASN:HD21	1:NQ:94:SER:HA	1.63	0.63
1:BB:53:VAL:HG12	1:BR:96:LEU:HD22	1.81	0.63
1:FV:97:ASN:HD21	1:GS:94:SER:HA	1.64	0.63
1:EE:94:SER:HA	1:EU:97:ASN:HD21	1.63	0.63
1:LY:97:ASN:ND2	1:MJ:94:SER:HA	2.14	0.63
1:AL:40:GLY:HA2	1:DX:109:LEU:O	1.99	0.63
1:DB:97:ASN:HD21	1:GJ:94:SER:HA	1.62	0.63
1:EX:97:ASN:HD21	1:FI:94:SER:HA	1.63	0.63
1:LI:94:SER:HA	1:LP:97:ASN:HD21	1.62	0.63
1:ES:20:TYR:OH	2:RK:28:A:OP1	2.16	0.63
1:JG:94:SER:HA	1:NF:97:ASN:HD21	1.63	0.63
1:DS:94:SER:HA	1:GQ:97:ASN:ND2	2.14	0.63
1:AG:94:SER:HA	1:BF:97:ASN:ND2	2.13	0.63
1:DV:94:SER:HA	1:GE:97:ASN:HD21	1.63	0.63
1:JV:40:GLY:HA3	1:KI:111:GLY:HA2	1.81	0.63
1:NV:20:TYR:OH	2:TH:28:A:OP1	2.17	0.63
1:IC:99:LEU:HD22	1:IJ:35:ILE:HD13	1.81	0.62
1:LC:8:ILE:HD11	1:LS:99:LEU:HB2	1.80	0.62
1:CE:40:GLY:HA2	1:FQ:109:LEU:O	1.99	0.62
1:CG:97:ASN:HD21	1:CL:94:SER:HA	1.64	0.62
1:DA:94:SER:HA	1:DE:97:ASN:HD21	1.64	0.62
1:HH:35:ILE:HD13	1:IV:99:LEU:HD22	1.82	0.62
1:IK:40:GLY:HA2	1:LW:109:LEU:O	1.98	0.62
1:AQ:97:ASN:ND2	1:FU:94:SER:HA	2.15	0.62
1:JZ:97:ASN:HD21	1:NH:94:SER:HA	1.64	0.62
1:AB:97:ASN:ND2	1:FX:94:SER:HA	2.14	0.62
1:AN:97:ASN:HD21	1:FR:94:SER:HA	1.65	0.62
1:BQ:98:THR:HG23	1:HI:98:THR:CG2	2.28	0.62
1:HE:8:ILE:HD11	1:ID:99:LEU:HB2	1.82	0.62
1:LF:40:GLY:HA3	1:LM:111:GLY:HA2	1.82	0.62
1:CX:8:ILE:HD11	1:DK:99:LEU:HB2	1.81	0.62
1:HU:97:ASN:HD21	1:MA:94:SER:HA	1.64	0.62
1:IU:94:SER:HA	1:KO:97:ASN:ND2	2.15	0.62
1:DY:94:SER:HA	1:FY:97:ASN:HD21	1.65	0.61
1:GX:41:LYS:HD2	2:SD:26:A:OP1	1.99	0.61
1:BZ:94:SER:HA	1:DT:97:ASN:ND2	2.16	0.61
1:AA:8:ILE:HD11	1:BI:99:LEU:HB2	1.83	0.61
1:AE:97:ASN:ND2	1:GA:94:SER:HA	2.16	0.61
1:AI:40:GLY:HA2	1:DU:109:LEU:O	2.00	0.61
1:HZ:8:ILE:HD11	1:IP:99:LEU:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DR:20:TYR:OH	2:RB:28:A:OP1	2.15	0.61
1:HA:53:VAL:HG12	1:KM:96:LEU:HD22	1.83	0.61
1:AZ:97:ASN:ND2	1:EW:94:SER:HA	2.16	0.61
1:MN:97:ASN:HD21	1:NT:94:SER:HA	1.65	0.61
1:IC:35:ILE:HD13	1:IJ:99:LEU:HD22	1.83	0.61
1:BQ:101:ASP:OD2	1:MM:10:SER:N	2.34	0.61
1:ET:94:SER:HA	1:FG:97:ASN:HD21	1.64	0.61
1:BE:8:ILE:HD11	1:BL:99:LEU:HB2	1.83	0.61
1:CC:111:GLY:HA2	1:GK:40:GLY:HA3	1.83	0.60
1:JF:113:PHE:C	1:MR:21:TYR:HH	2.04	0.60
1:CS:99:LEU:HB2	1:DD:8:ILE:HD11	1.82	0.60
1:GZ:111:GLY:HA2	1:MV:40:GLY:HA3	1.82	0.60
1:JH:97:ASN:HD21	1:JM:94:SER:HA	1.66	0.60
1:JV:94:SER:HA	1:KI:97:ASN:HD21	1.65	0.60
1:EG:20:TYR:OH	2:RG:28:A:OP1	2.16	0.60
1:KN:111:GLY:HA2	1:NU:40:GLY:HA3	1.84	0.60
1:LQ:38:SER:OG	2:SO:27:U:OP1	2.17	0.60
1:HO:40:GLY:HA3	1:MS:111:GLY:HA2	1.83	0.60
1:AX:109:LEU:O	1:EJ:40:GLY:HA2	2.02	0.60
1:AJ:94:SER:HA	1:BX:97:ASN:HD21	1.66	0.60
1:BK:111:GLY:HA2	1:DW:40:GLY:HA3	1.83	0.60
1:IF:40:GLY:HA3	1:IM:111:GLY:HA2	1.83	0.60
1:II:94:SER:HA	1:KU:97:ASN:HD21	1.67	0.60
1:JD:94:SER:HA	1:NL:97:ASN:HD21	1.66	0.60
1:BB:3:PHE:CE1	1:BR:104:ARG:HG2	2.37	0.60
1:DF:53:VAL:HG12	1:GR:96:LEU:HD22	1.82	0.60
1:BQ:96:LEU:HD22	1:EC:53:VAL:HG12	1.84	0.60
1:FZ:20:TYR:OH	2:RV:28:A:OP1	2.12	0.60
1:KZ:94:SER:HA	1:MZ:97:ASN:HD21	1.66	0.60
1:BD:96:LEU:HD22	1:EP:53:VAL:HG12	1.84	0.60
1:GL:38:SER:OG	2:RZ:27:U:OP1	2.16	0.60
1:LO:94:SER:HA	1:MK:97:ASN:HD21	1.67	0.60
1:MQ:111:GLY:HA2	1:NN:40:GLY:HA3	1.84	0.60
1:AT:97:ASN:ND2	1:EZ:94:SER:HA	2.16	0.59
1:JE:94:SER:HA	1:JJ:97:ASN:ND2	2.16	0.59
1:JG:94:SER:HA	1:NF:97:ASN:ND2	2.17	0.59
1:LQ:41:LYS:HD2	2:SO:26:A:OP1	2.02	0.59
1:MQ:97:ASN:HD21	1:NN:94:SER:HA	1.67	0.59
1:AD:94:SER:HA	1:BC:97:ASN:HD21	1.66	0.59
1:BQ:101:ASP:OD2	1:MM:10:SER:HB3	2.02	0.59
1:IC:104:ARG:NH1	1:IJ:3:PHE:CD1	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:97:ASN:ND2	1:CR:94:SER:HA	2.18	0.59
1:ES:52:ALA:HB2	2:RK:26:A:H4'	1.84	0.59
1:JB:97:ASN:HD21	1:JP:94:SER:HA	1.66	0.59
1:JL:109:LEU:O	1:MX:40:GLY:HA2	2.03	0.59
1:KM:20:TYR:OH	2:SE:28:A:OP1	2.13	0.59
1:KT:94:SER:HA	1:NC:97:ASN:HD21	1.66	0.59
1:IF:94:SER:HA	1:IM:97:ASN:ND2	2.16	0.59
1:BB:3:PHE:CD1	1:BR:104:ARG:NH1	2.71	0.59
1:JA:94:SER:HA	1:NI:97:ASN:HD21	1.67	0.59
1:KD:109:LEU:O	1:NP:40:GLY:HA2	2.03	0.59
1:LF:94:SER:HA	1:LM:97:ASN:HD21	1.68	0.59
1:CX:3:PHE:CD1	1:DK:104:ARG:NH1	2.71	0.59
1:DO:20:TYR:OH	2:RA:28:A:OP1	2.15	0.59
1:JN:99:LEU:HB2	1:KH:8:ILE:HD11	1.84	0.59
1:AF:96:LEU:HD22	1:DR:53:VAL:HG12	1.85	0.59
1:BQ:111:GLY:HA2	1:EC:40:GLY:HA3	1.83	0.59
1:HI:40:GLY:HA3	1:MM:111:GLY:HA2	1.85	0.59
1:KN:94:SER:HA	1:NU:97:ASN:HD21	1.67	0.59
1:HC:97:ASN:HD21	1:MY:94:SER:HA	1.68	0.59
1:JZ:97:ASN:ND2	1:NH:94:SER:HA	2.18	0.59
1:AZ:97:ASN:HD21	1:EW:94:SER:HA	1.67	0.59
1:FE:41:LYS:HD2	2:RO:26:A:OP1	2.02	0.59
1:IO:40:GLY:HA3	1:LA:111:GLY:HA2	1.85	0.59
1:JS:35:ILE:HD13	1:KF:99:LEU:HD22	1.84	0.59
1:BT:94:SER:HA	1:DN:97:ASN:ND2	2.18	0.58
1:DM:8:ILE:HD11	1:GT:99:LEU:HB2	1.85	0.58
1:HN:8:ILE:HD11	1:IS:99:LEU:HB2	1.84	0.58
1:BK:40:GLY:HA3	1:DW:111:GLY:HA2	1.85	0.58
1:BZ:40:GLY:HA3	1:DT:111:GLY:HA2	1.85	0.58
1:KW:8:ILE:HD11	1:MW:99:LEU:HB2	1.85	0.58
1:IE:96:LEU:HD22	1:LQ:53:VAL:HG12	1.85	0.58
1:JS:94:SER:HA	1:KF:97:ASN:HD21	1.69	0.58
1:MN:99:LEU:HD22	1:NT:35:ILE:HD13	1.85	0.58
1:AT:111:GLY:HA2	1:EZ:40:GLY:HA3	1.84	0.58
1:GI:20:TYR:OH	2:RY:28:A:OP1	2.19	0.58
1:GX:20:TYR:OH	2:SD:28:A:OP1	2.16	0.58
1:JF:94:SER:HA	1:MR:97:ASN:HD21	1.67	0.58
1:BN:40:GLY:HA3	1:DZ:111:GLY:HA2	1.84	0.58
1:BN:92:LEU:HD22	1:DZ:55:ARG:CG	2.34	0.58
1:IT:109:LEU:O	1:MF:40:GLY:HA2	2.04	0.58
1:AW:97:ASN:HD21	1:FC:94:SER:HA	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CP:99:LEU:HB2	1:DJ:8:ILE:HD11	1.86	0.58
1:DL:94:SER:HA	1:GX:97:ASN:ND2	2.18	0.58
1:FP:111:GLY:HA2	1:GV:40:GLY:HA3	1.85	0.58
1:LY:111:GLY:HA2	1:MJ:40:GLY:HA3	1.86	0.58
1:MN:111:GLY:HA2	1:NT:40:GLY:HA3	1.86	0.58
1:EP:41:LYS:HD2	2:RJ:26:A:OP1	2.03	0.57
1:HA:96:LEU:HD22	1:KM:53:VAL:HG12	1.86	0.57
1:AS:111:GLY:HA2	1:EL:40:GLY:HA3	1.85	0.57
1:BA:113:PHE:OXT	1:EM:21:TYR:OH	2.20	0.57
1:BN:96:LEU:HD22	1:DZ:53:VAL:HG12	1.85	0.57
1:GR:20:TYR:OH	2:SB:28:A:OP1	2.16	0.57
1:HO:53:VAL:HG12	1:MS:96:LEU:HD22	1.85	0.57
1:BW:94:SER:HA	1:DQ:97:ASN:HD21	1.68	0.57
1:FP:97:ASN:HD21	1:GV:94:SER:HA	1.70	0.57
1:HB:94:SER:HA	1:IA:97:ASN:ND2	2.17	0.57
1:LE:52:ALA:HB2	2:SK:26:A:H4'	1.87	0.57
1:CT:94:SER:HA	1:GF:97:ASN:ND2	2.19	0.57
1:EK:40:GLY:HA3	1:ER:111:GLY:HA2	1.86	0.57
1:LT:52:ALA:HB2	2:SP:26:A:H4'	1.87	0.57
1:AK:111:GLY:HA2	1:FO:40:GLY:HA3	1.86	0.57
1:CI:94:SER:HA	1:GH:97:ASN:HD21	1.68	0.57
1:JT:97:ASN:ND2	1:NK:94:SER:HA	2.19	0.57
1:LH:20:TYR:OH	2:SL:28:A:OP1	2.17	0.57
1:NV:38:SER:OG	2:TH:27:U:OP1	2.22	0.57
1:BK:94:SER:HA	1:DW:97:ASN:ND2	2.20	0.57
1:EE:40:GLY:HA3	1:EU:111:GLY:HA2	1.86	0.57
1:FE:38:SER:OG	2:RO:27:U:OP1	2.21	0.57
1:GX:38:SER:OG	2:SD:27:U:OP1	2.19	0.57
1:HK:8:ILE:HD11	1:IY:99:LEU:HB2	1.85	0.57
1:IC:111:GLY:HA2	1:IJ:40:GLY:HA3	1.85	0.57
1:JT:111:GLY:HA2	1:NK:40:GLY:HA3	1.85	0.57
1:JW:97:ASN:ND2	1:NE:94:SER:HA	2.19	0.57
1:DA:94:SER:HA	1:DE:97:ASN:ND2	2.19	0.57
1:ES:38:SER:OG	2:RK:27:U:OP1	2.22	0.57
1:FV:111:GLY:HA2	1:GS:40:GLY:HA3	1.86	0.57
1:HI:99:LEU:HD22	1:MM:35:ILE:HD13	1.86	0.57
1:IH:97:ASN:ND2	1:LT:94:SER:HA	2.19	0.57
1:KM:38:SER:OG	2:SE:27:U:OP1	2.22	0.57
1:AO:109:LEU:O	1:EA:40:GLY:HA2	2.05	0.57
1:JH:97:ASN:ND2	1:JM:94:SER:HA	2.20	0.57
1:CS:99:LEU:HD22	1:DD:35:ILE:HD13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FV:97:ASN:ND2	1:GS:94:SER:HA	2.20	0.57
1:JN:21:TYR:OH	1:KH:113:PHE:OXT	2.22	0.57
1:EK:8:ILE:HD11	1:ER:99:LEU:HB2	1.85	0.56
1:CY:97:ASN:ND2	1:GG:94:SER:HA	2.20	0.56
1:JA:8:ILE:HD11	1:NI:99:LEU:HB2	1.86	0.56
1:CH:40:GLY:HA2	1:FT:109:LEU:O	2.05	0.56
1:DP:94:SER:HA	1:GW:97:ASN:HD21	1.70	0.56
1:HE:3:PHE:CE1	1:ID:104:ARG:HG2	2.40	0.56
1:KK:94:SER:HA	1:NR:97:ASN:ND2	2.20	0.56
1:EQ:94:SER:HA	1:FM:97:ASN:ND2	2.19	0.56
1:FD:97:ASN:HD21	1:FF:94:SER:HA	1.70	0.56
1:KQ:94:SER:HA	1:NO:97:ASN:HD21	1.70	0.56
1:AL:109:LEU:O	1:DX:40:GLY:HA2	2.04	0.56
1:BH:35:ILE:HD13	1:BO:99:LEU:HD22	1.87	0.56
1:BN:111:GLY:HA2	1:DZ:40:GLY:HA3	1.87	0.56
1:CS:97:ASN:HD21	1:DD:94:SER:HA	1.70	0.56
1:CU:99:LEU:HB2	1:DH:8:ILE:HD11	1.87	0.56
1:HO:99:LEU:HB2	1:MS:8:ILE:HD11	1.88	0.56
1:HT:94:SER:HA	1:LD:97:ASN:HD21	1.71	0.56
1:IC:99:LEU:HD11	1:IJ:6:LEU:HD22	1.88	0.56
1:BQ:104:ARG:NH1	1:EC:3:PHE:CD1	2.73	0.56
1:FS:111:GLY:HA2	1:GP:40:GLY:HA3	1.86	0.56
1:HI:104:ARG:HG2	1:MM:3:PHE:CE1	2.41	0.56
1:HQ:94:SER:HA	1:LJ:97:ASN:ND2	2.21	0.56
1:IX:111:GLY:HA2	1:KR:40:GLY:HA3	1.86	0.56
1:JF:94:SER:HA	1:MR:97:ASN:ND2	2.20	0.56
1:JF:113:PHE:OXT	1:MR:21:TYR:OH	2.21	0.56
1:BN:104:ARG:NH1	1:DZ:3:PHE:CD1	2.73	0.56
1:CT:94:SER:HA	1:GF:97:ASN:HD21	1.69	0.56
1:DA:40:GLY:HA3	1:DE:111:GLY:HA2	1.87	0.56
1:EE:94:SER:HA	1:EU:97:ASN:ND2	2.21	0.56
1:HH:99:LEU:HD22	1:IV:35:ILE:HD13	1.88	0.56
1:HL:97:ASN:ND2	1:MP:94:SER:HA	2.21	0.56
1:AR:96:LEU:HD22	1:ED:53:VAL:HG12	1.86	0.56
1:CV:97:ASN:HD21	1:GM:94:SER:HA	1.70	0.56
1:EK:35:ILE:HD13	1:ER:99:LEU:HD22	1.87	0.56
1:DV:94:SER:HA	1:GE:97:ASN:ND2	2.21	0.56
1:KS:52:ALA:HB2	2:SG:26:A:H4'	1.87	0.56
1:DO:41:LYS:HD2	2:RA:26:A:OP1	2.06	0.56
1:JO:94:SER:HA	1:NA:97:ASN:HD21	1.70	0.56
1:KN:94:SER:HA	1:NU:97:ASN:ND2	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:8:ILE:HD11	1:CA:99:LEU:HB2	1.88	0.55
1:BA:94:SER:HA	1:EM:97:ASN:HD21	1.70	0.55
1:CG:97:ASN:ND2	1:CL:94:SER:HA	2.21	0.55
1:LL:94:SER:HA	1:MH:97:ASN:ND2	2.21	0.55
1:AJ:8:ILE:HD11	1:BX:99:LEU:HB2	1.86	0.55
1:CI:94:SER:HA	1:GH:97:ASN:ND2	2.21	0.55
1:CQ:109:LEU:O	1:GC:40:GLY:HA2	2.06	0.55
1:CX:53:VAL:HG12	1:DK:96:LEU:HD22	1.88	0.55
1:JV:94:SER:HA	1:KI:97:ASN:ND2	2.21	0.55
1:BH:94:SER:HA	1:BO:97:ASN:HD21	1.71	0.55
1:CU:35:ILE:HD13	1:DH:99:LEU:HD22	1.89	0.55
1:GL:41:LYS:HD2	2:RZ:26:A:OP1	2.06	0.55
1:HU:97:ASN:ND2	1:MA:94:SER:HA	2.21	0.55
1:HX:97:ASN:HD21	1:LU:94:SER:HA	1.72	0.55
1:MB:97:ASN:HD21	1:MD:94:SER:HA	1.72	0.55
1:HI:3:PHE:CD1	1:MM:104:ARG:NH1	2.75	0.55
1:HZ:99:LEU:HB2	1:IP:8:ILE:HD11	1.89	0.55
1:BM:97:ASN:ND2	1:EY:94:SER:HA	2.22	0.55
1:CT:97:ASN:ND2	1:GF:94:SER:HA	2.22	0.55
1:CX:40:GLY:HA3	1:DK:111:GLY:HA2	1.88	0.55
1:EP:38:SER:OG	2:RJ:27:U:OP1	2.20	0.55
1:HJ:20:TYR:OH	2:SH:8:U:OP1	2.21	0.55
1:JH:111:GLY:HA2	1:JM:40:GLY:HA3	1.88	0.55
1:LC:99:LEU:HB2	1:LS:8:ILE:HD11	1.89	0.55
1:GY:8:ILE:HD11	1:IG:99:LEU:HB2	1.88	0.55
1:IQ:96:LEU:HD22	1:MC:53:VAL:HG12	1.89	0.55
1:JO:94:SER:HA	1:NA:97:ASN:ND2	2.22	0.55
1:JY:94:SER:HA	1:KC:97:ASN:ND2	2.21	0.55
1:LH:41:LYS:HD2	2:SL:26:A:OP1	2.07	0.55
1:LV:97:ASN:ND2	1:MG:94:SER:HA	2.22	0.55
1:BH:40:GLY:HA3	1:BO:111:GLY:HA2	1.89	0.55
1:CK:109:LEU:O	1:FW:40:GLY:HA2	2.07	0.55
1:DM:94:SER:HA	1:GT:97:ASN:HD21	1.71	0.55
1:MT:97:ASN:ND2	1:NQ:94:SER:HA	2.22	0.55
1:BQ:98:THR:CG2	1:HI:98:THR:HG23	2.36	0.55
1:CH:109:LEU:O	1:FT:40:GLY:HA2	2.07	0.55
1:EN:94:SER:HA	1:FJ:97:ASN:HD21	1.71	0.55
1:JN:21:TYR:HH	1:KH:113:PHE:C	2.10	0.55
1:JU:20:TYR:OH	2:TC:8:U:OP1	2.21	0.55
1:DB:99:LEU:HB2	1:GJ:8:ILE:HD11	1.88	0.55
1:MO:38:SER:OG	2:SW:27:U:OP1	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BM:94:SER:HA	1:EY:97:ASN:ND2	2.22	0.55
1:CF:8:ILE:HD11	1:GN:99:LEU:HB2	1.89	0.55
1:HM:92:LEU:HD22	1:KY:55:ARG:HG2	1.89	0.55
1:EM:20:TYR:OH	2:RI:28:A:OP1	2.24	0.54
1:NV:52:ALA:HB2	2:TH:26:A:H4'	1.88	0.54
1:AR:109:LEU:O	1:ED:40:GLY:HA2	2.07	0.54
1:AS:94:SER:HA	1:EL:97:ASN:HD21	1.71	0.54
1:BE:99:LEU:HB2	1:BL:8:ILE:HD11	1.90	0.54
1:BM:94:SER:HA	1:EY:97:ASN:HD21	1.71	0.54
1:IH:20:TYR:OH	2:SP:8:U:OP1	2.21	0.54
1:KQ:8:ILE:HD11	1:NO:99:LEU:HB2	1.89	0.54
1:KY:38:SER:OG	2:SI:27:U:OP1	2.23	0.54
1:MO:20:TYR:OH	2:SW:28:A:OP1	2.18	0.54
1:BT:40:GLY:HA3	1:DN:111:GLY:HA2	1.88	0.54
1:HM:55:ARG:HG2	1:KY:92:LEU:HD22	1.89	0.54
1:HN:94:SER:HA	1:IS:97:ASN:HD21	1.72	0.54
1:AY:40:GLY:HA3	1:EI:111:GLY:HA2	1.90	0.54
1:BM:97:ASN:HD21	1:EY:94:SER:HA	1.72	0.54
1:II:94:SER:HA	1:KU:97:ASN:ND2	2.23	0.54
1:LI:94:SER:HA	1:LP:97:ASN:ND2	2.22	0.54
1:DD:43:ASN:OD1	1:DD:46:THR:OG1	2.24	0.54
1:JD:8:ILE:HD11	1:NL:99:LEU:HB2	1.90	0.54
1:LR:94:SER:HA	1:ME:97:ASN:HD21	1.71	0.54
1:BH:40:GLY:HA2	1:BO:109:LEU:O	2.07	0.54
1:BH:53:VAL:HG12	1:BO:96:LEU:HD22	1.90	0.54
1:CI:111:GLY:HA2	1:GH:40:GLY:HA3	1.88	0.54
1:JU:53:VAL:HG12	1:NG:96:LEU:HD22	1.90	0.54
1:BV:97:ASN:HD21	1:FH:94:SER:HA	1.72	0.54
1:HM:96:LEU:HD22	1:KY:53:VAL:HG12	1.90	0.54
1:IW:109:LEU:O	1:MI:40:GLY:HA2	2.08	0.54
1:JE:40:GLY:HA3	1:JJ:111:GLY:HA2	1.90	0.54
1:LC:40:GLY:HA2	1:LS:109:LEU:O	2.07	0.54
1:AV:8:ILE:HD11	1:EF:99:LEU:HB2	1.90	0.54
1:EB:94:SER:HA	1:GB:97:ASN:HD21	1.73	0.54
1:IB:40:GLY:HA2	1:LN:109:LEU:O	2.08	0.54
1:JE:111:GLY:HA2	1:JJ:40:GLY:HA3	1.90	0.54
1:KZ:8:ILE:HD11	1:MZ:99:LEU:HB2	1.90	0.54
1:EN:8:ILE:HD11	1:FJ:99:LEU:HB2	1.88	0.54
1:HF:97:ASN:HD21	1:NB:94:SER:HA	1.72	0.54
1:JO:97:ASN:ND2	1:NA:94:SER:HA	2.23	0.54
1:KJ:53:VAL:HG12	1:NV:96:LEU:HD22	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NV:41:LYS:HD2	2:TH:26:A:OP1	2.07	0.54
1:AP:8:ILE:HD11	1:BU:99:LEU:HB2	1.90	0.54
1:FP:99:LEU:HB2	1:GV:8:ILE:HD11	1.90	0.54
1:KJ:55:ARG:HG2	1:NV:92:LEU:HD22	1.90	0.54
1:KW:35:ILE:HD13	1:MW:99:LEU:HD22	1.90	0.54
1:MR:41:LYS:HD2	2:SX:26:A:OP1	2.08	0.54
1:AA:40:GLY:HA2	1:BI:109:LEU:O	2.08	0.53
1:AD:8:ILE:HD11	1:BC:99:LEU:HB2	1.90	0.53
1:LE:20:TYR:OH	2:SK:28:A:OP1	2.18	0.53
1:AS:94:SER:HA	1:EL:97:ASN:ND2	2.23	0.53
1:BB:78:MET:HG2	1:BR:74:VAL:HG22	1.90	0.53
1:BG:55:ARG:HG2	1:ES:92:LEU:HD22	1.89	0.53
1:BN:92:LEU:HD22	1:DZ:55:ARG:HG3	1.90	0.53
1:HE:53:VAL:HG12	1:ID:96:LEU:HD22	1.90	0.53
1:HW:94:SER:HA	1:LG:97:ASN:HD21	1.73	0.53
1:IT:20:TYR:OH	2:ST:8:U:OP1	2.21	0.53
1:AH:99:LEU:HB2	1:GD:8:ILE:HD11	1.90	0.53
1:AN:97:ASN:ND2	1:FR:94:SER:HA	2.23	0.53
1:CV:99:LEU:HB2	1:GM:8:ILE:HD11	1.89	0.53
1:HL:99:LEU:HD22	1:MP:35:ILE:HD13	1.91	0.53
1:AD:94:SER:HA	1:BC:97:ASN:ND2	2.23	0.53
1:AL:20:TYR:OH	2:RD:8:U:OP1	2.21	0.53
1:AO:20:TYR:OH	2:RE:8:U:OP1	2.21	0.53
1:BG:40:GLY:HA2	1:ES:109:LEU:O	2.09	0.53
1:BN:55:ARG:HG2	1:DZ:92:LEU:HD22	1.90	0.53
1:BQ:10:SER:HB3	1:MM:103:ALA:HB3	1.91	0.53
1:BQ:99:LEU:HD11	1:EC:6:LEU:HD22	1.91	0.53
1:ET:94:SER:HA	1:FG:97:ASN:ND2	2.23	0.53
1:HI:96:LEU:HD22	1:MM:53:VAL:HG12	1.89	0.53
1:HK:94:SER:HA	1:IY:97:ASN:HD21	1.74	0.53
1:EK:94:SER:HA	1:ER:97:ASN:HD21	1.74	0.53
1:EX:96:LEU:HD22	1:FI:53:VAL:HG12	1.91	0.53
1:HH:99:LEU:HB2	1:IV:8:ILE:HD11	1.90	0.53
1:HP:53:VAL:HG12	1:LB:96:LEU:HD22	1.90	0.53
1:HZ:99:LEU:HD22	1:IP:35:ILE:HD13	1.91	0.53
1:BB:94:SER:HA	1:BR:97:ASN:HD21	1.73	0.53
1:GY:48:ARG:HG2	1:GY:81:GLY:HA2	1.91	0.53
1:HG:38:SER:OG	2:SG:7:A:OP1	2.26	0.53
1:KA:20:TYR:OH	2:TE:8:U:OP1	2.21	0.53
1:AB:40:GLY:HA3	1:FX:111:GLY:HA2	1.91	0.53
1:ED:20:TYR:OH	2:RF:28:A:OP1	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EX:97:ASN:ND2	1:FI:94:SER:HA	2.23	0.53
1:FL:48:ARG:HG2	1:FL:81:GLY:HA2	1.91	0.53
1:HI:99:LEU:HB2	1:MM:8:ILE:HD11	1.90	0.53
1:IH:53:VAL:HG12	1:LT:96:LEU:HD22	1.91	0.53
1:JB:97:ASN:ND2	1:JP:94:SER:HA	2.23	0.53
1:JW:99:LEU:HB2	1:NE:8:ILE:HD11	1.91	0.53
1:KM:41:LYS:HD2	2:SE:26:A:OP1	2.09	0.53
1:LX:48:ARG:HG2	1:LX:81:GLY:HA2	1.91	0.53
1:MN:104:ARG:NH1	1:NT:3:PHE:CD1	2.77	0.53
1:CS:8:ILE:HD11	1:DD:99:LEU:HB2	1.90	0.53
1:EE:48:ARG:HG2	1:EE:81:GLY:HA2	1.91	0.53
1:HA:92:LEU:HD22	1:KM:55:ARG:HG2	1.91	0.53
1:HO:3:PHE:CD1	1:MS:104:ARG:NH1	2.77	0.53
1:KG:40:GLY:HA2	1:NS:109:LEU:O	2.09	0.53
1:MG:48:ARG:HG2	1:MG:81:GLY:HA2	1.91	0.53
1:MY:48:ARG:HG2	1:MY:81:GLY:HA2	1.91	0.53
1:AL:53:VAL:HG12	1:DX:96:LEU:HD22	1.91	0.53
1:BA:113:PHE:C	1:EM:21:TYR:HH	2.12	0.53
1:ET:48:ARG:HG2	1:ET:81:GLY:HA2	1.91	0.53
1:FU:48:ARG:HG2	1:FU:81:GLY:HA2	1.91	0.53
1:GM:48:ARG:HG2	1:GM:81:GLY:HA2	1.91	0.53
1:HI:55:ARG:CG	1:MM:92:LEU:HD22	2.39	0.53
1:HQ:48:ARG:HG2	1:HQ:81:GLY:HA2	1.91	0.53
1:II:77:ILE:HD12	1:KU:77:ILE:HD12	1.91	0.53
1:MC:41:LYS:HD2	2:SS:26:A:OP1	2.08	0.53
1:BB:48:ARG:HG2	1:BB:81:GLY:HA2	1.91	0.53
1:BS:92:LEU:HD22	1:FE:55:ARG:HG2	1.90	0.53
1:CF:94:SER:HA	1:GN:97:ASN:HD21	1.73	0.53
1:CP:99:LEU:HD22	1:DJ:35:ILE:HD13	1.90	0.53
1:CR:48:ARG:HG2	1:CR:81:GLY:HA2	1.91	0.53
1:CT:97:ASN:HD21	1:GF:94:SER:HA	1.74	0.53
1:CU:94:SER:HA	1:DH:97:ASN:HD21	1.73	0.53
1:DP:8:ILE:HD11	1:GW:99:LEU:HB2	1.90	0.53
1:DY:94:SER:HA	1:FY:97:ASN:ND2	2.24	0.53
1:FC:48:ARG:HG2	1:FC:81:GLY:HA2	1.91	0.53
1:FF:48:ARG:HG2	1:FF:81:GLY:HA2	1.91	0.53
1:GD:48:ARG:HG2	1:GD:81:GLY:HA2	1.91	0.53
1:JX:20:TYR:OH	2:TD:8:U:OP1	2.21	0.53
1:KZ:40:GLY:HA2	1:MZ:109:LEU:O	2.08	0.53
1:LI:48:ARG:HG2	1:LI:81:GLY:HA2	1.91	0.53
1:NE:48:ARG:HG2	1:NE:81:GLY:HA2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:48:ARG:HG2	1:AP:81:GLY:HA2	1.91	0.52
1:DG:48:ARG:HG2	1:DG:81:GLY:HA2	1.91	0.52
1:DR:38:SER:OG	2:RB:27:U:OP1	2.24	0.52
1:EH:99:LEU:HD22	1:EO:35:ILE:HD13	1.92	0.52
1:EQ:48:ARG:HG2	1:EQ:81:GLY:HA2	1.91	0.52
1:HK:48:ARG:HG2	1:HK:81:GLY:HA2	1.91	0.52
1:HZ:48:ARG:HG2	1:HZ:81:GLY:HA2	1.91	0.52
1:IC:48:ARG:HG2	1:IC:81:GLY:HA2	1.91	0.52
1:IE:92:LEU:HD22	1:LQ:55:ARG:HG2	1.90	0.52
1:JS:48:ARG:HG2	1:JS:81:GLY:HA2	1.91	0.52
1:KS:41:LYS:HD2	2:SG:26:A:OP1	2.10	0.52
1:LO:48:ARG:HG2	1:LO:81:GLY:HA2	1.91	0.52
1:AR:38:SER:OG	2:RF:7:A:OP1	2.26	0.52
1:AY:48:ARG:HG2	1:AY:81:GLY:HA2	1.91	0.52
1:BQ:48:ARG:HG2	1:BQ:81:GLY:HA2	1.91	0.52
1:BT:48:ARG:HG2	1:BT:81:GLY:HA2	1.91	0.52
1:DY:48:ARG:HG2	1:DY:81:GLY:HA2	1.91	0.52
1:HE:48:ARG:HG2	1:HE:81:GLY:HA2	1.91	0.52
1:HI:104:ARG:NH1	1:MM:3:PHE:CD1	2.77	0.52
1:HW:48:ARG:HG2	1:HW:81:GLY:HA2	1.91	0.52
1:IL:40:GLY:HA3	1:KX:111:GLY:HA2	1.92	0.52
1:DJ:48:ARG:HG2	1:DJ:81:GLY:HA2	1.91	0.52
1:HI:53:VAL:HG12	1:MM:96:LEU:HD22	1.90	0.52
1:HV:96:LEU:HD22	1:LH:53:VAL:HG12	1.91	0.52
1:JV:111:GLY:HA2	1:KI:40:GLY:HA3	1.92	0.52
1:LR:94:SER:HA	1:ME:97:ASN:ND2	2.24	0.52
1:LR:111:GLY:HA3	1:MF:16:THR:HB	1.91	0.52
1:MD:48:ARG:HG2	1:MD:81:GLY:HA2	1.91	0.52
1:MM:48:ARG:HG2	1:MM:81:GLY:HA2	1.91	0.52
1:MV:48:ARG:HG2	1:MV:81:GLY:HA2	1.91	0.52
1:NT:48:ARG:HG2	1:NT:81:GLY:HA2	1.91	0.52
1:BZ:48:ARG:HG2	1:BZ:81:GLY:HA2	1.91	0.52
1:CO:48:ARG:HG2	1:CO:81:GLY:HA2	1.91	0.52
1:CU:48:ARG:HG2	1:CU:81:GLY:HA2	1.91	0.52
1:CX:48:ARG:HG2	1:CX:81:GLY:HA2	1.91	0.52
1:DL:92:LEU:HD22	1:GX:55:ARG:HG2	1.91	0.52
1:EH:48:ARG:HG2	1:EH:81:GLY:HA2	1.91	0.52
1:HB:48:ARG:HG2	1:HB:81:GLY:HA2	1.91	0.52
1:HL:99:LEU:HB2	1:MP:8:ILE:HD11	1.92	0.52
1:IX:48:ARG:HG2	1:IX:81:GLY:HA2	1.91	0.52
1:JD:94:SER:HA	1:NL:97:ASN:ND2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:48:ARG:HG2	1:KE:81:GLY:HA2	1.91	0.52
1:KJ:94:SER:HA	1:NV:97:ASN:HD21	1.75	0.52
1:KJ:94:SER:HA	1:NV:97:ASN:ND2	2.23	0.52
1:KK:48:ARG:HG2	1:KK:81:GLY:HA2	1.91	0.52
1:LU:48:ARG:HG2	1:LU:81:GLY:HA2	1.91	0.52
1:NK:48:ARG:HG2	1:NK:81:GLY:HA2	1.91	0.52
1:NN:43:ASN:OD1	1:NN:46:THR:OG1	2.24	0.52
1:AH:111:GLY:HA2	1:GD:40:GLY:HA3	1.90	0.52
1:CC:48:ARG:HG2	1:CC:81:GLY:HA2	1.91	0.52
1:CH:20:TYR:OH	2:RT:8:U:OP1	2.21	0.52
1:CQ:38:SER:OG	2:RW:7:A:OP1	2.26	0.52
1:DG:43:ASN:OD1	1:DG:46:THR:OG1	2.24	0.52
1:HJ:38:SER:OG	2:SH:7:A:OP1	2.26	0.52
1:HK:99:LEU:HD22	1:IY:35:ILE:HD13	1.92	0.52
1:HZ:43:ASN:OD1	1:HZ:46:THR:OG1	2.24	0.52
1:IB:94:SER:HA	1:LN:97:ASN:HD21	1.74	0.52
1:IF:48:ARG:HG2	1:IF:81:GLY:HA2	1.91	0.52
1:IN:20:TYR:OH	2:SR:8:U:OP1	2.21	0.52
1:JR:38:SER:OG	2:TB:7:A:OP1	2.26	0.52
1:KW:94:SER:HA	1:MW:97:ASN:HD21	1.74	0.52
1:MC:20:TYR:OH	2:SS:28:A:OP1	2.17	0.52
1:AA:48:ARG:HG2	1:AA:81:GLY:HA2	1.91	0.52
1:AC:38:SER:OG	2:RA:7:A:OP1	2.26	0.52
1:DM:48:ARG:HG2	1:DM:81:GLY:HA2	1.91	0.52
1:HH:48:ARG:HG2	1:HH:81:GLY:HA2	1.91	0.52
1:HV:38:SER:OG	2:SL:7:A:OP1	2.26	0.52
1:KA:53:VAL:HG12	1:NM:96:LEU:HD22	1.92	0.52
1:KK:8:ILE:HD11	1:NR:99:LEU:HB2	1.91	0.52
1:MN:104:ARG:HG2	1:NT:3:PHE:CE1	2.45	0.52
1:NN:48:ARG:HG2	1:NN:81:GLY:HA2	1.91	0.52
1:AG:48:ARG:HG2	1:AG:81:GLY:HA2	1.91	0.52
1:AM:94:SER:HA	1:CA:97:ASN:ND2	2.24	0.52
1:BH:48:ARG:HG2	1:BH:81:GLY:HA2	1.91	0.52
1:DV:48:ARG:HG2	1:DV:81:GLY:HA2	1.91	0.52
1:EZ:48:ARG:HG2	1:EZ:81:GLY:HA2	1.91	0.52
1:GL:52:ALA:HB2	2:RZ:26:A:H4'	1.92	0.52
1:HA:20:TYR:OH	2:SE:8:U:OP1	2.21	0.52
1:HT:48:ARG:HG2	1:HT:81:GLY:HA2	1.91	0.52
1:KT:8:ILE:HD11	1:NC:99:LEU:HB2	1.91	0.52
1:LC:48:ARG:HG2	1:LC:81:GLY:HA2	1.91	0.52
1:AH:99:LEU:HD22	1:GD:35:ILE:HD13	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BW:48:ARG:HG2	1:BW:81:GLY:HA2	1.91	0.52
1:BY:40:GLY:HA2	1:FK:109:LEU:O	2.09	0.52
1:CJ:40:GLY:HA3	1:CO:111:GLY:HA2	1.91	0.52
1:FS:97:ASN:HD21	1:GP:94:SER:HA	1.75	0.52
1:JF:97:ASN:ND2	1:MR:94:SER:HA	2.24	0.52
1:JS:99:LEU:HB2	1:KF:8:ILE:HD11	1.92	0.52
1:JV:48:ARG:HG2	1:JV:81:GLY:HA2	1.91	0.52
1:DD:48:ARG:HG2	1:DD:81:GLY:HA2	1.91	0.52
1:DF:38:SER:OG	2:SB:7:A:OP1	2.26	0.52
1:EK:48:ARG:HG2	1:EK:81:GLY:HA2	1.91	0.52
1:FB:16:THR:HB	1:FL:111:GLY:HA3	1.90	0.52
1:FE:16:THR:HB	1:FF:111:GLY:HA3	1.92	0.52
1:FI:48:ARG:HG2	1:FI:81:GLY:HA2	1.91	0.52
1:FX:48:ARG:HG2	1:FX:81:GLY:HA2	1.91	0.52
1:GG:48:ARG:HG2	1:GG:81:GLY:HA2	1.91	0.52
1:HF:99:LEU:HB2	1:NB:8:ILE:HD11	1.91	0.52
1:IR:8:ILE:HD11	1:KL:99:LEU:HB2	1.91	0.52
1:IX:43:ASN:OD1	1:IX:46:THR:OG1	2.24	0.52
1:JM:48:ARG:HG2	1:JM:81:GLY:HA2	1.91	0.52
1:JO:97:ASN:HD21	1:NA:94:SER:HA	1.74	0.52
1:KB:48:ARG:HG2	1:KB:81:GLY:HA2	1.91	0.52
1:KK:40:GLY:HA3	1:NR:111:GLY:HA2	1.91	0.52
1:KZ:94:SER:HA	1:MZ:97:ASN:ND2	2.25	0.52
1:LF:48:ARG:HG2	1:LF:81:GLY:HA2	1.91	0.52
1:MP:48:ARG:HG2	1:MP:81:GLY:HA2	1.91	0.52
1:MU:16:THR:HB	1:NQ:111:GLY:HA3	1.91	0.52
1:AM:48:ARG:HG2	1:AM:81:GLY:HA2	1.91	0.52
1:BS:38:SER:OG	2:RO:7:A:OP1	2.26	0.52
1:CF:48:ARG:HG2	1:CF:81:GLY:HA2	1.91	0.52
1:HI:111:GLY:HA2	1:MM:40:GLY:HA3	1.92	0.52
1:IR:48:ARG:HG2	1:IR:81:GLY:HA2	1.91	0.52
1:JG:48:ARG:HG2	1:JG:81:GLY:HA2	1.91	0.52
1:JI:38:SER:OG	2:SY:7:A:OP1	2.26	0.52
1:KZ:48:ARG:HG2	1:KZ:81:GLY:HA2	1.91	0.52
1:MN:96:LEU:HD22	1:NT:53:VAL:HG12	1.92	0.52
1:ND:52:ALA:HB2	2:TB:26:A:H4'	1.92	0.52
1:BB:53:VAL:HG12	1:BR:96:LEU:CD2	2.40	0.51
1:BG:20:TYR:OH	2:RK:8:U:OP1	2.21	0.51
1:BV:97:ASN:ND2	1:FH:94:SER:HA	2.25	0.51
1:CI:40:GLY:HA3	1:GH:111:GLY:HA2	1.92	0.51
1:DA:43:ASN:OD1	1:DA:46:THR:OG1	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DS:48:ARG:HG2	1:DS:81:GLY:HA2	1.91	0.51
1:EH:43:ASN:OD1	1:EH:46:THR:OG1	2.24	0.51
1:EQ:8:ILE:HD11	1:FM:99:LEU:HB2	1.91	0.51
1:GG:43:ASN:OD1	1:GG:46:THR:OG1	2.24	0.51
1:GS:48:ARG:HG2	1:GS:81:GLY:HA2	1.91	0.51
1:HA:38:SER:OG	2:SE:7:A:OP1	2.26	0.51
1:HI:55:ARG:HG3	1:MM:92:LEU:HD22	1.92	0.51
1:HN:48:ARG:HG2	1:HN:81:GLY:HA2	1.91	0.51
1:HP:38:SER:OG	2:SJ:7:A:OP1	2.26	0.51
1:IE:38:SER:OG	2:SO:7:A:OP1	2.26	0.51
1:II:111:GLY:HA3	1:KV:16:THR:HB	1.91	0.51
1:IL:48:ARG:HG2	1:IL:81:GLY:HA2	1.91	0.51
1:JU:40:GLY:HA2	1:NG:109:LEU:O	2.10	0.51
1:LL:48:ARG:HG2	1:LL:81:GLY:HA2	1.91	0.51
1:MA:48:ARG:HG2	1:MA:81:GLY:HA2	1.91	0.51
1:MS:48:ARG:HG2	1:MS:81:GLY:HA2	1.91	0.51
1:AS:48:ARG:HG2	1:AS:81:GLY:HA2	1.91	0.51
1:AW:99:LEU:HB2	1:FC:8:ILE:HD11	1.92	0.51
1:AX:20:TYR:OH	2:RH:8:U:OP1	2.21	0.51
1:BE:35:ILE:HD13	1:BL:99:LEU:HD22	1.91	0.51
1:CK:38:SER:OG	2:RU:7:A:OP1	2.26	0.51
1:DA:48:ARG:HG2	1:DA:81:GLY:HA2	1.91	0.51
1:DL:96:LEU:HD22	1:GX:53:VAL:HG12	1.92	0.51
1:DP:99:LEU:HD22	1:GW:35:ILE:HD13	1.92	0.51
1:EB:48:ARG:HG2	1:EB:81:GLY:HA2	1.91	0.51
1:GP:48:ARG:HG2	1:GP:81:GLY:HA2	1.91	0.51
1:HA:55:ARG:HG2	1:KM:92:LEU:HD22	1.91	0.51
1:II:48:ARG:HG2	1:II:81:GLY:HA2	1.91	0.51
1:IW:38:SER:OG	2:SU:7:A:OP1	2.26	0.51
1:JI:20:TYR:OH	2:SY:8:U:OP1	2.21	0.51
1:JJ:43:ASN:OD1	1:JJ:46:THR:OG1	2.24	0.51
1:JP:48:ARG:HG2	1:JP:81:GLY:HA2	1.91	0.51
1:KN:48:ARG:HG2	1:KN:81:GLY:HA2	1.91	0.51
1:NB:48:ARG:HG2	1:NB:81:GLY:HA2	1.91	0.51
1:NQ:48:ARG:HG2	1:NQ:81:GLY:HA2	1.91	0.51
1:AD:48:ARG:HG2	1:AD:81:GLY:HA2	1.91	0.51
1:AI:20:TYR:OH	2:RC:8:U:OP1	2.21	0.51
1:AJ:48:ARG:HG2	1:AJ:81:GLY:HA2	1.91	0.51
1:AX:97:ASN:HD21	1:EJ:94:SER:HA	1.75	0.51
1:BB:8:ILE:HD11	1:BR:99:LEU:HB2	1.92	0.51
1:BE:99:LEU:HD22	1:BL:35:ILE:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BN:48:ARG:HG2	1:BN:81:GLY:HA2	1.91	0.51
1:BQ:40:GLY:HA2	1:EC:109:LEU:O	2.10	0.51
1:DP:48:ARG:HG2	1:DP:81:GLY:HA2	1.91	0.51
1:EW:48:ARG:HG2	1:EW:81:GLY:HA2	1.91	0.51
1:FR:48:ARG:HG2	1:FR:81:GLY:HA2	1.91	0.51
1:HC:97:ASN:ND2	1:MY:94:SER:HA	2.24	0.51
1:JY:48:ARG:HG2	1:JY:81:GLY:HA2	1.91	0.51
1:KG:20:TYR:OH	2:TG:8:U:OP1	2.21	0.51
1:AA:94:SER:HA	1:BI:97:ASN:HD21	1.74	0.51
1:AD:21:TYR:HH	1:BC:113:PHE:C	2.14	0.51
1:BP:38:SER:OG	2:RN:7:A:OP1	2.26	0.51
1:DR:41:LYS:HD2	2:RB:26:A:OP1	2.11	0.51
1:EB:8:ILE:HD11	1:GB:99:LEU:HB2	1.92	0.51
1:FZ:41:LYS:HD2	2:RV:26:A:OP1	2.09	0.51
1:GA:48:ARG:HG2	1:GA:81:GLY:HA2	1.91	0.51
1:HD:109:LEU:O	1:KP:40:GLY:HA2	2.10	0.51
1:IB:94:SER:HA	1:LN:97:ASN:ND2	2.26	0.51
1:JM:43:ASN:OD1	1:JM:46:THR:OG1	2.24	0.51
1:KT:48:ARG:HG2	1:KT:81:GLY:HA2	1.91	0.51
1:KV:20:TYR:OH	2:SH:28:A:OP1	2.23	0.51
1:KW:48:ARG:HG2	1:KW:81:GLY:HA2	1.91	0.51
1:KW:99:LEU:HB2	1:MW:8:ILE:HD11	1.91	0.51
1:AE:111:GLY:HA2	1:GA:40:GLY:HA3	1.92	0.51
1:AO:97:ASN:HD21	1:EA:94:SER:HA	1.76	0.51
1:BK:48:ARG:HG2	1:BK:81:GLY:HA2	1.91	0.51
1:CI:48:ARG:HG2	1:CI:81:GLY:HA2	1.91	0.51
1:CN:20:TYR:OH	2:RV:8:U:OP1	2.21	0.51
1:EN:48:ARG:HG2	1:EN:81:GLY:HA2	1.91	0.51
1:HC:111:GLY:HA2	1:MY:40:GLY:HA3	1.93	0.51
1:IO:43:ASN:OD1	1:IO:46:THR:OG1	2.24	0.51
1:JL:20:TYR:OH	2:SZ:8:U:OP1	2.21	0.51
1:JY:40:GLY:HA2	1:KC:109:LEU:O	2.10	0.51
1:KH:43:ASN:OD1	1:KH:46:THR:OG1	2.24	0.51
1:KH:48:ARG:HG2	1:KH:81:GLY:HA2	1.91	0.51
1:KN:43:ASN:OD1	1:KN:46:THR:OG1	2.24	0.51
1:AV:94:SER:HA	1:EF:97:ASN:ND2	2.23	0.51
1:DC:38:SER:OG	2:SA:7:A:OP1	2.26	0.51
1:DJ:43:ASN:OD1	1:DJ:46:THR:OG1	2.24	0.51
1:GJ:48:ARG:HG2	1:GJ:81:GLY:HA2	1.91	0.51
1:HN:35:ILE:HD13	1:IS:99:LEU:HD22	1.93	0.51
1:HP:109:LEU:O	1:LB:40:GLY:HA2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IO:48:ARG:HG2	1:IO:81:GLY:HA2	1.91	0.51
1:JA:48:ARG:HG2	1:JA:81:GLY:HA2	1.91	0.51
1:JD:48:ARG:HG2	1:JD:81:GLY:HA2	1.91	0.51
1:JN:8:ILE:HD11	1:KH:99:LEU:HB2	1.90	0.51
1:KQ:48:ARG:HG2	1:KQ:81:GLY:HA2	1.91	0.51
1:LI:40:GLY:HA3	1:LP:111:GLY:HA2	1.92	0.51
1:MB:99:LEU:HB2	1:MD:8:ILE:HD11	1.93	0.51
1:MM:43:ASN:OD1	1:MM:46:THR:OG1	2.24	0.51
1:MO:52:ALA:HB2	2:SW:26:A:H4'	1.92	0.51
1:AA:35:ILE:HD13	1:BI:99:LEU:HD22	1.92	0.51
1:AX:96:LEU:HD22	1:EJ:53:VAL:HG12	1.92	0.51
1:BM:40:GLY:HA2	1:EY:109:LEU:O	2.09	0.51
1:CL:48:ARG:HG2	1:CL:81:GLY:HA2	1.91	0.51
1:CS:111:GLY:HA2	1:DD:40:GLY:HA3	1.93	0.51
1:DB:97:ASN:ND2	1:GJ:94:SER:HA	2.24	0.51
1:HE:3:PHE:CD1	1:ID:104:ARG:NH1	2.79	0.51
1:IQ:20:TYR:OH	2:SS:8:U:OP1	2.21	0.51
1:IU:48:ARG:HG2	1:IU:81:GLY:HA2	1.91	0.51
1:LL:8:ILE:HD11	1:MH:99:LEU:HB2	1.93	0.51
1:LX:43:ASN:OD1	1:LX:46:THR:OG1	2.24	0.51
1:LY:92:LEU:HD22	1:MJ:55:ARG:HG2	1.93	0.51
1:BE:48:ARG:HG2	1:BE:81:GLY:HA2	1.91	0.51
1:BV:109:LEU:O	1:FH:40:GLY:HA2	2.10	0.51
1:CJ:55:ARG:CG	1:CO:92:LEU:HD22	2.41	0.51
1:CL:43:ASN:OD1	1:CL:46:THR:OG1	2.24	0.51
1:DL:20:TYR:OH	2:SD:8:U:OP1	2.21	0.51
1:DM:43:ASN:OD1	1:DM:46:THR:OG1	2.24	0.51
1:EE:43:ASN:OD1	1:EE:46:THR:OG1	2.24	0.51
1:GV:48:ARG:HG2	1:GV:81:GLY:HA2	1.91	0.51
1:JJ:48:ARG:HG2	1:JJ:81:GLY:HA2	1.91	0.51
1:KZ:40:GLY:HA3	1:MZ:111:GLY:HA2	1.91	0.51
1:LO:8:ILE:HD11	1:MK:99:LEU:HB2	1.93	0.51
1:LR:48:ARG:HG2	1:LR:81:GLY:HA2	1.91	0.51
1:MO:41:LYS:HD2	2:SW:26:A:OP1	2.10	0.51
1:AH:97:ASN:HD21	1:GD:94:SER:HA	1.75	0.51
1:AV:48:ARG:HG2	1:AV:81:GLY:HA2	1.91	0.51
1:BO:27:GLY:HA2	1:DZ:106:ASP:OD2	2.11	0.51
1:DF:20:TYR:OH	2:SB:8:U:OP1	2.21	0.51
1:KS:38:SER:OG	2:SG:27:U:OP1	2.24	0.51
1:MJ:48:ARG:HG2	1:MJ:81:GLY:HA2	1.91	0.51
1:BA:40:GLY:HA2	1:EM:109:LEU:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DL:2:THR:OG1	1:GX:113:PHE:O	2.20	0.51
1:HR:111:GLY:HA2	1:LX:40:GLY:HA3	1.93	0.51
1:HS:38:SER:OG	2:SK:7:A:OP1	2.26	0.51
1:IU:43:ASN:OD1	1:IU:46:THR:OG1	2.24	0.51
1:BE:43:ASN:OD1	1:BE:46:THR:OG1	2.24	0.50
1:BG:38:SER:OG	2:RK:7:A:OP1	2.26	0.50
1:CB:96:LEU:HD22	1:FN:53:VAL:HG12	1.92	0.50
1:CI:43:ASN:OD1	1:CI:46:THR:OG1	2.24	0.50
1:EQ:40:GLY:HA3	1:FM:111:GLY:HA2	1.93	0.50
1:GR:38:SER:OG	2:SB:27:U:OP1	2.25	0.50
1:HB:40:GLY:HA3	1:IA:111:GLY:HA2	1.92	0.50
1:HE:94:SER:HA	1:ID:97:ASN:HD21	1.76	0.50
1:IH:55:ARG:HG2	1:LT:92:LEU:HD22	1.92	0.50
1:LF:43:ASN:OD1	1:LF:46:THR:OG1	2.24	0.50
1:AA:111:GLY:HA2	1:BI:40:GLY:HA3	1.93	0.50
1:AC:96:LEU:HD22	1:DO:53:VAL:HG12	1.93	0.50
1:BA:90:ASP:OD2	1:EM:102:PRO:HD3	2.11	0.50
1:BH:8:ILE:HD11	1:BO:99:LEU:HB2	1.92	0.50
1:CJ:97:ASN:HD21	1:CO:94:SER:HA	1.75	0.50
1:DY:8:ILE:HD11	1:FY:99:LEU:HB2	1.93	0.50
1:EN:99:LEU:HB2	1:FJ:8:ILE:HD11	1.92	0.50
1:HE:78:MET:HG2	1:ID:74:VAL:HG22	1.93	0.50
1:HL:40:GLY:HA3	1:MP:111:GLY:HA2	1.92	0.50
1:HT:43:ASN:OD1	1:HT:46:THR:OG1	2.24	0.50
1:JN:97:ASN:ND2	1:KH:94:SER:HA	2.26	0.50
1:KN:40:GLY:HA3	1:NU:111:GLY:HA2	1.92	0.50
1:KY:41:LYS:HD2	2:SI:26:A:OP1	2.11	0.50
1:LR:55:ARG:HG2	1:ME:92:LEU:HD22	1.93	0.50
1:MN:40:GLY:HA3	1:NT:111:GLY:HA2	1.93	0.50
1:GJ:43:ASN:OD1	1:GJ:46:THR:OG1	2.24	0.50
1:HZ:35:ILE:HD13	1:IP:99:LEU:HD22	1.93	0.50
1:IZ:38:SER:OG	2:SV:7:A:OP1	2.26	0.50
1:JL:38:SER:OG	2:SZ:7:A:OP1	2.26	0.50
1:JQ:99:LEU:HB2	1:KB:8:ILE:HD11	1.93	0.50
1:JR:53:VAL:HG12	1:ND:96:LEU:HD22	1.94	0.50
1:MC:38:SER:OG	2:SS:27:U:OP1	2.26	0.50
1:NH:48:ARG:HG2	1:NH:81:GLY:HA2	1.91	0.50
1:CE:53:VAL:HG12	1:FQ:96:LEU:HD22	1.93	0.50
1:FD:97:ASN:ND2	1:FF:94:SER:HA	2.26	0.50
1:FO:48:ARG:HG2	1:FO:81:GLY:HA2	1.91	0.50
1:HJ:40:GLY:HA2	1:KV:109:LEU:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HP:20:TYR:OH	2:SJ:8:U:OP1	2.21	0.50
1:JC:20:TYR:OH	2:SW:8:U:OP1	2.21	0.50
1:EW:43:ASN:OD1	1:EW:46:THR:OG1	2.24	0.50
1:GY:94:SER:HA	1:IG:97:ASN:HD21	1.77	0.50
1:HT:94:SER:HA	1:LD:97:ASN:ND2	2.26	0.50
1:JA:99:LEU:HB2	1:NI:8:ILE:HD11	1.93	0.50
1:MQ:97:ASN:ND2	1:NN:94:SER:HA	2.26	0.50
1:AP:99:LEU:HD22	1:BU:35:ILE:HD13	1.93	0.50
1:CB:20:TYR:OH	2:RR:8:U:OP1	2.21	0.50
1:FF:43:ASN:OD1	1:FF:46:THR:OG1	2.24	0.50
1:JA:40:GLY:HA2	1:NI:109:LEU:O	2.12	0.50
1:JK:97:ASN:HD21	1:KE:94:SER:HA	1.76	0.50
1:JQ:97:ASN:HD21	1:KB:94:SER:HA	1.76	0.50
1:KT:94:SER:HA	1:NC:97:ASN:ND2	2.27	0.50
1:KW:43:ASN:OD1	1:KW:46:THR:OG1	2.24	0.50
1:LI:43:ASN:OD1	1:LI:46:THR:OG1	2.24	0.50
1:BW:94:SER:HA	1:DQ:97:ASN:ND2	2.27	0.50
1:FA:97:ASN:HD21	1:FL:94:SER:HA	1.76	0.50
1:GI:41:LYS:HD2	2:RY:26:A:OP1	2.12	0.50
1:GI:52:ALA:HB2	2:RY:26:A:H4'	1.93	0.50
1:HD:16:THR:HB	1:MY:111:GLY:HA3	1.94	0.50
1:HI:99:LEU:HD11	1:MM:6:LEU:HD22	1.94	0.50
1:HX:97:ASN:ND2	1:LU:94:SER:HA	2.26	0.50
1:IK:109:LEU:O	1:LW:40:GLY:HA2	2.10	0.50
1:KA:16:THR:HB	1:NH:111:GLY:HA3	1.94	0.50
1:KZ:43:ASN:OD1	1:KZ:46:THR:OG1	2.24	0.50
1:LC:40:GLY:HA3	1:LS:111:GLY:HA2	1.94	0.50
1:LR:92:LEU:HD22	1:ME:55:ARG:CG	2.42	0.50
1:LT:38:SER:OG	2:SP:27:U:OP1	2.27	0.50
1:MN:97:ASN:ND2	1:NT:94:SER:HA	2.26	0.50
1:AL:96:LEU:HD22	1:DX:53:VAL:HG12	1.93	0.50
1:AU:38:SER:OG	2:RG:7:A:OP1	2.26	0.50
1:BM:38:SER:OG	2:RM:7:A:OP1	2.26	0.50
1:BQ:99:LEU:HB2	1:EC:8:ILE:HD11	1.94	0.50
1:CP:53:VAL:HG12	1:DJ:96:LEU:HD22	1.92	0.50
1:DI:38:SER:OG	2:SC:7:A:OP1	2.26	0.50
1:JF:97:ASN:HD21	1:MR:94:SER:HA	1.76	0.50
1:JR:20:TYR:OH	2:TB:8:U:OP1	2.21	0.50
1:BY:38:SER:OG	2:RQ:7:A:OP1	2.26	0.50
1:CF:43:ASN:OD1	1:CF:46:THR:OG1	2.24	0.50
1:CM:111:GLY:HA2	1:DG:40:GLY:HA3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GP:43:ASN:OD1	1:GP:46:THR:OG1	2.24	0.50
1:HI:6:LEU:HD22	1:MM:99:LEU:HD11	1.93	0.50
1:HM:53:VAL:HG12	1:KY:96:LEU:HD22	1.94	0.50
1:JF:38:SER:OG	2:SX:7:A:OP1	2.26	0.50
1:LC:53:VAL:HG12	1:LS:96:LEU:HD22	1.93	0.50
1:AD:43:ASN:OD1	1:AD:46:THR:OG1	2.24	0.49
1:BT:43:ASN:OD1	1:BT:46:THR:OG1	2.24	0.49
1:CY:16:THR:HG21	1:DK:110:GLN:OE1	2.12	0.49
1:EH:35:ILE:HD13	1:EO:99:LEU:HD22	1.92	0.49
1:LC:99:LEU:HD22	1:LS:35:ILE:HD13	1.93	0.49
1:LF:35:ILE:HD13	1:LM:99:LEU:HD22	1.94	0.49
1:AA:99:LEU:HD22	1:BI:35:ILE:HD13	1.94	0.49
1:AH:96:LEU:HD22	1:GD:53:VAL:HG12	1.94	0.49
1:AL:20:TYR:CZ	1:AL:36:LYS:HD3	2.48	0.49
1:BW:8:ILE:HD11	1:DQ:99:LEU:HB2	1.92	0.49
1:CG:111:GLY:HA2	1:CL:40:GLY:HA3	1.94	0.49
1:CJ:111:GLY:HA2	1:CO:40:GLY:HA3	1.93	0.49
1:CK:20:TYR:OH	2:RU:8:U:OP1	2.21	0.49
1:CX:111:GLY:HA2	1:DK:40:GLY:HA3	1.94	0.49
1:CY:28:PHE:HB3	1:DK:106:ASP:OD1	2.12	0.49
1:DC:20:TYR:CZ	1:DC:36:LYS:HD3	2.48	0.49
1:DI:94:SER:HA	1:GU:97:ASN:ND2	2.27	0.49
1:EN:43:ASN:OD1	1:EN:46:THR:OG1	2.24	0.49
1:FZ:20:TYR:CZ	1:FZ:36:LYS:HD3	2.48	0.49
1:GY:99:LEU:HD22	1:IG:35:ILE:HD13	1.94	0.49
1:HE:40:GLY:HA3	1:ID:111:GLY:HA2	1.94	0.49
1:HG:53:VAL:HG12	1:KS:96:LEU:HD22	1.94	0.49
1:IN:38:SER:OG	2:SR:7:A:OP1	2.26	0.49
1:KQ:40:GLY:HA3	1:NO:111:GLY:HA2	1.94	0.49
1:NB:43:ASN:OD1	1:NB:46:THR:OG1	2.24	0.49
1:AF:92:LEU:HD22	1:DR:55:ARG:HG2	1.92	0.49
1:CW:20:TYR:CZ	1:CW:36:LYS:HD3	2.48	0.49
1:GI:20:TYR:CZ	1:GI:36:LYS:HD3	2.48	0.49
1:HD:20:TYR:CZ	1:HD:36:LYS:HD3	2.48	0.49
1:HW:43:ASN:OD1	1:HW:46:THR:OG1	2.24	0.49
1:IW:20:TYR:OH	2:SU:8:U:OP1	2.21	0.49
1:JI:40:GLY:HA2	1:MU:109:LEU:O	2.12	0.49
1:KA:20:TYR:CZ	1:KA:36:LYS:HD3	2.48	0.49
1:KG:38:SER:OG	2:TG:7:A:OP1	2.26	0.49
1:KQ:43:ASN:OD1	1:KQ:46:THR:OG1	2.24	0.49
1:MC:20:TYR:CZ	1:MC:36:LYS:HD3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MR:20:TYR:CZ	1:MR:36:LYS:HD3	2.48	0.49
1:AF:20:TYR:CZ	1:AF:36:LYS:HD3	2.48	0.49
1:CQ:20:TYR:CZ	1:CQ:36:LYS:HD3	2.48	0.49
1:CZ:20:TYR:CZ	1:CZ:36:LYS:HD3	2.48	0.49
1:EK:43:ASN:OD1	1:EK:46:THR:OG1	2.24	0.49
1:EY:20:TYR:CZ	1:EY:36:LYS:HD3	2.48	0.49
1:FK:20:TYR:CZ	1:FK:36:LYS:HD3	2.48	0.49
1:FS:97:ASN:ND2	1:GP:94:SER:HA	2.28	0.49
1:FW:20:TYR:CZ	1:FW:36:LYS:HD3	2.48	0.49
1:HJ:20:TYR:CZ	1:HJ:36:LYS:HD3	2.48	0.49
1:HK:99:LEU:HB2	1:IY:8:ILE:HD11	1.93	0.49
1:JG:40:GLY:HA3	1:NF:111:GLY:HA2	1.95	0.49
1:JO:20:TYR:CZ	1:JO:36:LYS:HD3	2.48	0.49
1:KD:21:TYR:HH	1:NP:113:PHE:C	2.15	0.49
1:KP:20:TYR:CZ	1:KP:36:LYS:HD3	2.48	0.49
1:LB:20:TYR:CZ	1:LB:36:LYS:HD3	2.48	0.49
1:MI:20:TYR:CZ	1:MI:36:LYS:HD3	2.48	0.49
1:MP:43:ASN:OD1	1:MP:46:THR:OG1	2.24	0.49
1:MS:43:ASN:OD1	1:MS:46:THR:OG1	2.24	0.49
1:ND:20:TYR:CZ	1:ND:36:LYS:HD3	2.48	0.49
1:NV:20:TYR:CZ	1:NV:36:LYS:HD3	2.48	0.49
1:BA:20:TYR:CZ	1:BA:36:LYS:HD3	2.48	0.49
1:BV:94:SER:HA	1:FH:97:ASN:ND2	2.27	0.49
1:CH:20:TYR:CZ	1:CH:36:LYS:HD3	2.48	0.49
1:CT:20:TYR:CZ	1:CT:36:LYS:HD3	2.48	0.49
1:DP:21:TYR:HH	1:GW:113:PHE:C	2.16	0.49
1:HM:20:TYR:CZ	1:HM:36:LYS:HD3	2.48	0.49
1:IR:94:SER:HA	1:KL:97:ASN:HD21	1.77	0.49
1:KZ:111:GLY:HA2	1:MZ:40:GLY:HA3	1.94	0.49
1:NP:20:TYR:CZ	1:NP:36:LYS:HD3	2.48	0.49
1:DC:40:GLY:HA2	1:GO:109:LEU:O	2.13	0.49
1:DL:94:SER:HA	1:GX:97:ASN:HD21	1.77	0.49
1:IK:20:TYR:CZ	1:IK:36:LYS:HD3	2.48	0.49
1:JL:20:TYR:CZ	1:JL:36:LYS:HD3	2.48	0.49
1:JO:20:TYR:OH	2:TA:8:U:OP1	2.21	0.49
1:MN:106:ASP:OD1	1:NU:28:PHE:HB3	2.12	0.49
1:NG:20:TYR:CZ	1:NG:36:LYS:HD3	2.48	0.49
1:AI:38:SER:OG	2:RC:7:A:OP1	2.26	0.49
1:AX:20:TYR:CZ	1:AX:36:LYS:HD3	2.48	0.49
1:AZ:53:VAL:HG12	1:EW:96:LEU:HD22	1.93	0.49
1:BD:20:TYR:CZ	1:BD:36:LYS:HD3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:20:TYR:OH	2:RJ:8:U:OP1	2.21	0.49
1:BG:20:TYR:CZ	1:BG:36:LYS:HD3	2.48	0.49
1:BP:94:SER:HA	1:FB:97:ASN:ND2	2.28	0.49
1:CK:20:TYR:CZ	1:CK:36:LYS:HD3	2.48	0.49
1:CN:53:VAL:HG12	1:FZ:96:LEU:HD22	1.95	0.49
1:CV:99:LEU:HD22	1:GM:35:ILE:HD13	1.94	0.49
1:DF:20:TYR:CZ	1:DF:36:LYS:HD3	2.48	0.49
1:ED:20:TYR:CZ	1:ED:36:LYS:HD3	2.48	0.49
1:EE:111:GLY:HA2	1:EU:40:GLY:HA3	1.95	0.49
1:GO:20:TYR:CZ	1:GO:36:LYS:HD3	2.48	0.49
1:GU:20:TYR:CZ	1:GU:36:LYS:HD3	2.48	0.49
1:HG:20:TYR:CZ	1:HG:36:LYS:HD3	2.48	0.49
1:HG:20:TYR:OH	2:SG:8:U:OP1	2.21	0.49
1:IW:20:TYR:CZ	1:IW:36:LYS:HD3	2.48	0.49
1:JI:20:TYR:CZ	1:JI:36:LYS:HD3	2.48	0.49
1:JW:37:ILE:HG12	1:JW:53:VAL:HG22	1.95	0.49
1:JX:20:TYR:CZ	1:JX:36:LYS:HD3	2.48	0.49
1:JY:8:ILE:HD11	1:KC:99:LEU:HB2	1.94	0.49
1:KJ:38:SER:OG	2:TH:7:A:OP1	2.26	0.49
1:KM:20:TYR:CZ	1:KM:36:LYS:HD3	2.48	0.49
1:LF:53:VAL:HG12	1:LM:96:LEU:HD22	1.95	0.49
1:LN:20:TYR:CZ	1:LN:36:LYS:HD3	2.48	0.49
1:ML:20:TYR:CZ	1:ML:36:LYS:HD3	2.48	0.49
1:NJ:20:TYR:CZ	1:NJ:36:LYS:HD3	2.48	0.49
1:AT:37:ILE:HG12	1:AT:53:VAL:HG22	1.95	0.49
1:CD:37:ILE:HG12	1:CD:53:VAL:HG22	1.95	0.49
1:CE:20:TYR:CZ	1:CE:36:LYS:HD3	2.48	0.49
1:CJ:37:ILE:HG12	1:CJ:53:VAL:HG22	1.95	0.49
1:DH:37:ILE:HG12	1:DH:53:VAL:HG22	1.95	0.49
1:DY:40:GLY:HA3	1:FY:111:GLY:HA2	1.95	0.49
1:FO:43:ASN:OD1	1:FO:46:THR:OG1	2.24	0.49
1:FQ:20:TYR:CZ	1:FQ:36:LYS:HD3	2.48	0.49
1:HM:97:ASN:ND2	1:KY:94:SER:HA	2.27	0.49
1:IA:37:ILE:HG12	1:IA:53:VAL:HG22	1.95	0.49
1:IV:37:ILE:HG12	1:IV:53:VAL:HG22	1.95	0.49
1:JF:20:TYR:CZ	1:JF:36:LYS:HD3	2.48	0.49
1:MX:20:TYR:CZ	1:MX:36:LYS:HD3	2.48	0.49
1:NA:20:TYR:CZ	1:NA:36:LYS:HD3	2.48	0.49
1:NU:37:ILE:HG12	1:NU:53:VAL:HG22	1.95	0.49
1:AF:43:ASN:OD1	1:AF:46:THR:OG1	2.31	0.49
1:BN:96:LEU:HD22	1:DZ:53:VAL:CG1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BV:20:TYR:CZ	1:BV:36:LYS:HD3	2.48	0.49
1:CB:20:TYR:CZ	1:CB:36:LYS:HD3	2.48	0.49
1:CX:78:MET:HG2	1:DK:74:VAL:HG22	1.95	0.49
1:CY:37:ILE:HG12	1:CY:53:VAL:HG22	1.95	0.49
1:DK:37:ILE:HG12	1:DK:53:VAL:HG22	1.95	0.49
1:DO:20:TYR:CZ	1:DO:36:LYS:HD3	2.48	0.49
1:DU:20:TYR:CZ	1:DU:36:LYS:HD3	2.48	0.49
1:DX:20:TYR:CZ	1:DX:36:LYS:HD3	2.48	0.49
1:DY:43:ASN:OD1	1:DY:46:THR:OG1	2.24	0.49
1:ES:20:TYR:CZ	1:ES:36:LYS:HD3	2.48	0.49
1:EV:20:TYR:CZ	1:EV:36:LYS:HD3	2.48	0.49
1:EZ:43:ASN:OD1	1:EZ:46:THR:OG1	2.24	0.49
1:FJ:37:ILE:HG12	1:FJ:53:VAL:HG22	1.95	0.49
1:HS:20:TYR:CZ	1:HS:36:LYS:HD3	2.48	0.49
1:HT:8:ILE:HD11	1:LD:99:LEU:HB2	1.95	0.49
1:HY:20:TYR:CZ	1:HY:36:LYS:HD3	2.48	0.49
1:IM:37:ILE:HG12	1:IM:53:VAL:HG22	1.95	0.49
1:IW:43:ASN:OD1	1:IW:46:THR:OG1	2.31	0.49
1:KG:53:VAL:HG12	1:NS:96:LEU:HD22	1.95	0.49
1:KY:20:TYR:CZ	1:KY:36:LYS:HD3	2.48	0.49
1:LS:37:ILE:HG12	1:LS:53:VAL:HG22	1.95	0.49
1:LV:99:LEU:HB2	1:MG:8:ILE:HD11	1.94	0.49
1:MN:37:ILE:HG12	1:MN:53:VAL:HG22	1.95	0.49
1:ND:43:ASN:OD1	1:ND:46:THR:OG1	2.31	0.49
1:NO:37:ILE:HG12	1:NO:53:VAL:HG22	1.95	0.49
1:NS:20:TYR:CZ	1:NS:36:LYS:HD3	2.48	0.49
1:AI:20:TYR:CZ	1:AI:36:LYS:HD3	2.48	0.49
1:BE:40:GLY:HA2	1:BL:109:LEU:O	2.13	0.49
1:BM:20:TYR:CZ	1:BM:36:LYS:HD3	2.48	0.49
1:CK:43:ASN:OD1	1:CK:46:THR:OG1	2.31	0.49
1:CO:43:ASN:OD1	1:CO:46:THR:OG1	2.24	0.49
1:CP:35:ILE:HD13	1:DJ:99:LEU:HD22	1.93	0.49
1:CP:111:GLY:HA2	1:DJ:40:GLY:HA3	1.95	0.49
1:CY:99:LEU:HB2	1:GG:8:ILE:HD11	1.94	0.49
1:EA:20:TYR:CZ	1:EA:36:LYS:HD3	2.48	0.49
1:EM:20:TYR:CZ	1:EM:36:LYS:HD3	2.48	0.49
1:EO:37:ILE:HG12	1:EO:53:VAL:HG22	1.95	0.49
1:FE:20:TYR:CZ	1:FE:36:LYS:HD3	2.48	0.49
1:FT:43:ASN:OD1	1:FT:46:THR:OG1	2.31	0.49
1:FY:37:ILE:HG12	1:FY:53:VAL:HG22	1.95	0.49
1:HD:38:SER:OG	2:SF:7:A:OP1	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HF:97:ASN:ND2	1:NB:94:SER:HA	2.28	0.49
1:HJ:109:LEU:O	1:KV:40:GLY:HA2	2.13	0.49
1:HP:43:ASN:OD1	1:HP:46:THR:OG1	2.31	0.49
1:HV:43:ASN:OD1	1:HV:46:THR:OG1	2.31	0.49
1:IN:43:ASN:OD1	1:IN:46:THR:OG1	2.31	0.49
1:JE:94:SER:HA	1:JJ:97:ASN:HD21	1.77	0.49
1:KG:20:TYR:CZ	1:KG:36:LYS:HD3	2.48	0.49
1:KR:37:ILE:HG12	1:KR:53:VAL:HG22	1.95	0.49
1:LH:20:TYR:CZ	1:LH:36:LYS:HD3	2.48	0.49
1:MB:37:ILE:HG12	1:MB:53:VAL:HG22	1.95	0.49
1:MF:20:TYR:CZ	1:MF:36:LYS:HD3	2.48	0.49
1:MG:43:ASN:OD1	1:MG:46:THR:OG1	2.24	0.49
1:NM:20:TYR:CZ	1:NM:36:LYS:HD3	2.48	0.49
1:AC:43:ASN:OD1	1:AC:46:THR:OG1	2.31	0.48
1:AU:43:ASN:OD1	1:AU:46:THR:OG1	2.31	0.48
1:BC:37:ILE:HG12	1:BC:53:VAL:HG22	1.95	0.48
1:BO:37:ILE:HG12	1:BO:53:VAL:HG22	1.95	0.48
1:BP:94:SER:HA	1:FB:97:ASN:HD21	1.78	0.48
1:BS:43:ASN:OD1	1:BS:46:THR:OG1	2.31	0.48
1:BU:37:ILE:HG12	1:BU:53:VAL:HG22	1.95	0.48
1:DC:20:TYR:OH	2:SA:8:U:OP1	2.21	0.48
1:DI:20:TYR:CZ	1:DI:36:LYS:HD3	2.48	0.48
1:DT:37:ILE:HG12	1:DT:53:VAL:HG22	1.95	0.48
1:DV:8:ILE:HD11	1:GE:99:LEU:HB2	1.95	0.48
1:ES:43:ASN:OD1	1:ES:46:THR:OG1	2.31	0.48
1:EX:37:ILE:HG12	1:EX:53:VAL:HG22	1.95	0.48
1:EX:96:LEU:CD2	1:FI:53:VAL:HG12	2.43	0.48
1:FN:20:TYR:CZ	1:FN:36:LYS:HD3	2.48	0.48
1:GC:20:TYR:CZ	1:GC:36:LYS:HD3	2.48	0.48
1:GI:43:ASN:OD1	1:GI:46:THR:OG1	2.31	0.48
1:GR:20:TYR:CZ	1:GR:36:LYS:HD3	2.48	0.48
1:GR:43:ASN:OD1	1:GR:46:THR:OG1	2.31	0.48
1:HA:20:TYR:CZ	1:HA:36:LYS:HD3	2.48	0.48
1:HS:53:VAL:HG12	1:LE:96:LEU:HD22	1.95	0.48
1:IB:20:TYR:CZ	1:IB:36:LYS:HD3	2.48	0.48
1:IE:43:ASN:OD1	1:IE:46:THR:OG1	2.31	0.48
1:IQ:20:TYR:CZ	1:IQ:36:LYS:HD3	2.48	0.48
1:IR:111:GLY:HA3	1:KM:16:THR:HB	1.95	0.48
1:IY:37:ILE:HG12	1:IY:53:VAL:HG22	1.95	0.48
1:JC:16:THR:HB	1:JP:111:GLY:HA3	1.95	0.48
1:JL:43:ASN:OD1	1:JL:46:THR:OG1	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KP:43:ASN:OD1	1:KP:46:THR:OG1	2.31	0.48
1:KV:20:TYR:CZ	1:KV:36:LYS:HD3	2.48	0.48
1:LA:37:ILE:HG12	1:LA:53:VAL:HG22	1.95	0.48
1:LP:37:ILE:HG12	1:LP:53:VAL:HG22	1.95	0.48
1:LQ:43:ASN:OD1	1:LQ:46:THR:OG1	2.31	0.48
1:MD:43:ASN:OD1	1:MD:46:THR:OG1	2.24	0.48
1:MU:20:TYR:CZ	1:MU:36:LYS:HD3	2.48	0.48
1:MU:43:ASN:OD1	1:MU:46:THR:OG1	2.31	0.48
1:MW:37:ILE:HG12	1:MW:53:VAL:HG22	1.95	0.48
1:MX:43:ASN:OD1	1:MX:46:THR:OG1	2.31	0.48
1:NH:43:ASN:OD1	1:NH:46:THR:OG1	2.24	0.48
1:AB:111:GLY:HA2	1:FX:40:GLY:HA3	1.95	0.48
1:AC:20:TYR:CZ	1:AC:36:LYS:HD3	2.48	0.48
1:AH:37:ILE:HG12	1:AH:53:VAL:HG22	1.95	0.48
1:BY:20:TYR:CZ	1:BY:36:LYS:HD3	2.48	0.48
1:CE:38:SER:OG	2:RS:7:A:OP1	2.26	0.48
1:CG:37:ILE:HG12	1:CG:53:VAL:HG22	1.95	0.48
1:CJ:97:ASN:ND2	1:CO:94:SER:HA	2.27	0.48
1:CT:40:GLY:HA3	1:GF:111:GLY:HA2	1.95	0.48
1:CV:111:GLY:HA2	1:GM:40:GLY:HA3	1.95	0.48
1:DB:37:ILE:HG12	1:DB:53:VAL:HG22	1.95	0.48
1:DR:43:ASN:OD1	1:DR:46:THR:OG1	2.31	0.48
1:EI:37:ILE:HG12	1:EI:53:VAL:HG22	1.95	0.48
1:EM:43:ASN:OD1	1:EM:46:THR:OG1	2.31	0.48
1:EP:20:TYR:CZ	1:EP:36:LYS:HD3	2.48	0.48
1:ER:37:ILE:HG12	1:ER:53:VAL:HG22	1.95	0.48
1:FD:37:ILE:HG12	1:FD:53:VAL:HG22	1.95	0.48
1:FE:43:ASN:OD1	1:FE:46:THR:OG1	2.31	0.48
1:GF:20:TYR:CZ	1:GF:36:LYS:HD3	2.48	0.48
1:GK:37:ILE:HG12	1:GK:53:VAL:HG22	1.95	0.48
1:GN:37:ILE:HG12	1:GN:53:VAL:HG22	1.95	0.48
1:HF:37:ILE:HG12	1:HF:53:VAL:HG22	1.95	0.48
1:HH:43:ASN:OD1	1:HH:46:THR:OG1	2.24	0.48
1:HP:40:GLY:HA2	1:LB:109:LEU:O	2.14	0.48
1:HV:20:TYR:CZ	1:HV:36:LYS:HD3	2.48	0.48
1:HW:94:SER:HA	1:LG:97:ASN:ND2	2.28	0.48
1:HX:37:ILE:HG12	1:HX:53:VAL:HG22	1.95	0.48
1:JC:94:SER:HA	1:MO:97:ASN:ND2	2.29	0.48
1:JE:37:ILE:HG12	1:JE:53:VAL:HG22	1.95	0.48
1:JR:43:ASN:OD1	1:JR:46:THR:OG1	2.31	0.48
1:KD:20:TYR:CZ	1:KD:36:LYS:HD3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KF:37:ILE:HG12	1:KF:53:VAL:HG22	1.95	0.48
1:KI:37:ILE:HG12	1:KI:53:VAL:HG22	1.95	0.48
1:KP:20:TYR:OH	2:SF:28:A:OP1	2.28	0.48
1:KS:20:TYR:CZ	1:KS:36:LYS:HD3	2.48	0.48
1:LQ:20:TYR:CZ	1:LQ:36:LYS:HD3	2.48	0.48
1:LZ:16:THR:HB	1:MJ:111:GLY:HA3	1.95	0.48
1:AJ:43:ASN:OD1	1:AJ:46:THR:OG1	2.24	0.48
1:AJ:94:SER:HA	1:BX:97:ASN:ND2	2.27	0.48
1:AO:43:ASN:OD1	1:AO:46:THR:OG1	2.31	0.48
1:AO:97:ASN:ND2	1:EA:94:SER:HA	2.28	0.48
1:AU:20:TYR:OH	2:RG:8:U:OP1	2.21	0.48
1:AW:37:ILE:HG12	1:AW:53:VAL:HG22	1.95	0.48
1:BB:40:GLY:HA3	1:BR:111:GLY:HA2	1.95	0.48
1:BG:43:ASN:OD1	1:BG:46:THR:OG1	2.31	0.48
1:BP:20:TYR:CZ	1:BP:36:LYS:HD3	2.48	0.48
1:CN:20:TYR:CZ	1:CN:36:LYS:HD3	2.48	0.48
1:CW:38:SER:OG	2:RY:7:A:OP1	2.26	0.48
1:DI:97:ASN:ND2	1:GU:94:SER:HA	2.29	0.48
1:DP:99:LEU:HB2	1:GW:8:ILE:HD11	1.95	0.48
1:EY:43:ASN:OD1	1:EY:46:THR:OG1	2.31	0.48
1:FB:20:TYR:CZ	1:FB:36:LYS:HD3	2.48	0.48
1:FS:37:ILE:HG12	1:FS:53:VAL:HG22	1.95	0.48
1:FS:53:VAL:HG12	1:GP:96:LEU:HD22	1.93	0.48
1:FW:43:ASN:OD1	1:FW:46:THR:OG1	2.31	0.48
1:GL:20:TYR:CZ	1:GL:36:LYS:HD3	2.48	0.48
1:HD:43:ASN:OD1	1:HD:46:THR:OG1	2.31	0.48
1:IP:37:ILE:HG12	1:IP:53:VAL:HG22	1.95	0.48
1:IZ:20:TYR:CZ	1:IZ:36:LYS:HD3	2.48	0.48
1:IZ:20:TYR:OH	2:SV:8:U:OP1	2.21	0.48
1:JK:111:GLY:HA2	1:KE:40:GLY:HA3	1.95	0.48
1:JN:37:ILE:HG12	1:JN:53:VAL:HG22	1.95	0.48
1:JR:94:SER:HA	1:ND:97:ASN:HD21	1.78	0.48
1:JY:43:ASN:OD1	1:JY:46:THR:OG1	2.24	0.48
1:LT:20:TYR:CZ	1:LT:36:LYS:HD3	2.48	0.48
1:MQ:37:ILE:HG12	1:MQ:53:VAL:HG22	1.95	0.48
1:MZ:37:ILE:HG12	1:MZ:53:VAL:HG22	1.95	0.48
1:NR:37:ILE:HG12	1:NR:53:VAL:HG22	1.95	0.48
1:AJ:35:ILE:HD13	1:BX:99:LEU:HD22	1.95	0.48
1:AJ:40:GLY:HA3	1:BX:111:GLY:HA2	1.96	0.48
1:AQ:105:LEU:HD23	1:AQ:105:LEU:HA	1.64	0.48
1:BI:37:ILE:HG12	1:BI:53:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:20:TYR:OH	2:RS:8:U:OP1	2.21	0.48
1:CH:43:ASN:OD1	1:CH:46:THR:OG1	2.31	0.48
1:CQ:97:ASN:HD21	1:GC:94:SER:HA	1.78	0.48
1:CW:43:ASN:OD1	1:CW:46:THR:OG1	2.31	0.48
1:DC:43:ASN:OD1	1:DC:46:THR:OG1	2.31	0.48
1:DO:43:ASN:OD1	1:DO:46:THR:OG1	2.31	0.48
1:DP:94:SER:HA	1:GW:97:ASN:ND2	2.28	0.48
1:DX:43:ASN:OD1	1:DX:46:THR:OG1	2.31	0.48
1:EC:37:ILE:HG12	1:EC:53:VAL:HG22	1.95	0.48
1:EG:20:TYR:CZ	1:EG:36:LYS:HD3	2.48	0.48
1:FH:43:ASN:OD1	1:FH:46:THR:OG1	2.31	0.48
1:FU:43:ASN:OD1	1:FU:46:THR:OG1	2.24	0.48
1:FV:105:LEU:HD23	1:FV:105:LEU:HA	1.64	0.48
1:GT:37:ILE:HG12	1:GT:53:VAL:HG22	1.95	0.48
1:GU:43:ASN:OD1	1:GU:46:THR:OG1	2.31	0.48
1:HC:37:ILE:HG12	1:HC:53:VAL:HG22	1.95	0.48
1:HH:40:GLY:HA3	1:IV:111:GLY:HA2	1.95	0.48
1:HO:37:ILE:HG12	1:HO:53:VAL:HG22	1.95	0.48
1:HP:20:TYR:CZ	1:HP:36:LYS:HD3	2.48	0.48
1:HX:105:LEU:HD23	1:HX:105:LEU:HA	1.64	0.48
1:IC:92:LEU:HD22	1:IJ:55:ARG:HG3	1.94	0.48
1:IH:20:TYR:CZ	1:IH:36:LYS:HD3	2.48	0.48
1:IN:20:TYR:CZ	1:IN:36:LYS:HD3	2.48	0.48
1:IS:105:LEU:HD23	1:IS:105:LEU:HA	1.64	0.48
1:IT:43:ASN:OD1	1:IT:46:THR:OG1	2.31	0.48
1:JE:96:LEU:HD13	1:JJ:76:ILE:CD1	2.43	0.48
1:JF:43:ASN:OD1	1:JF:46:THR:OG1	2.31	0.48
1:JU:20:TYR:CZ	1:JU:36:LYS:HD3	2.48	0.48
1:KJ:20:TYR:CZ	1:KJ:36:LYS:HD3	2.48	0.48
1:KR:105:LEU:HD23	1:KR:105:LEU:HA	1.64	0.48
1:KY:43:ASN:OD1	1:KY:46:THR:OG1	2.31	0.48
1:LF:94:SER:HA	1:LM:97:ASN:ND2	2.28	0.48
1:LH:43:ASN:OD1	1:LH:46:THR:OG1	2.31	0.48
1:LK:43:ASN:OD1	1:LK:46:THR:OG1	2.31	0.48
1:LM:37:ILE:HG12	1:LM:53:VAL:HG22	1.95	0.48
1:LN:43:ASN:OD1	1:LN:46:THR:OG1	2.31	0.48
1:LZ:20:TYR:CZ	1:LZ:36:LYS:HD3	2.48	0.48
1:MI:43:ASN:OD1	1:MI:46:THR:OG1	2.31	0.48
1:MK:37:ILE:HG12	1:MK:53:VAL:HG22	1.95	0.48
1:NI:37:ILE:HG12	1:NI:53:VAL:HG22	1.95	0.48
1:NM:43:ASN:OD1	1:NM:46:THR:OG1	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:38:SER:OG	2:RB:7:A:OP1	2.26	0.48
1:AN:105:LEU:HD23	1:AN:105:LEU:HA	1.64	0.48
1:AO:20:TYR:CZ	1:AO:36:LYS:HD3	2.48	0.48
1:AS:96:LEU:HD22	1:EL:53:VAL:HG12	1.95	0.48
1:BL:37:ILE:HG12	1:BL:53:VAL:HG22	1.95	0.48
1:CW:53:VAL:HG12	1:GI:96:LEU:HD22	1.95	0.48
1:DI:53:VAL:HG12	1:GU:96:LEU:HD22	1.95	0.48
1:DN:37:ILE:HG12	1:DN:53:VAL:HG22	1.95	0.48
1:EO:105:LEU:HA	1:EO:105:LEU:HD23	1.64	0.48
1:FP:37:ILE:HG12	1:FP:53:VAL:HG22	1.95	0.48
1:FT:20:TYR:CZ	1:FT:36:LYS:HD3	2.48	0.48
1:GB:37:ILE:HG12	1:GB:53:VAL:HG22	1.95	0.48
1:GR:41:LYS:HD2	2:SB:26:A:OP1	2.12	0.48
1:HO:35:ILE:HD13	1:MS:99:LEU:HD22	1.95	0.48
1:IF:43:ASN:OD1	1:IF:46:THR:OG1	2.23	0.48
1:IJ:37:ILE:HG12	1:IJ:53:VAL:HG22	1.95	0.48
1:JR:20:TYR:CZ	1:JR:36:LYS:HD3	2.48	0.48
1:JX:38:SER:OG	2:TD:7:A:OP1	2.26	0.48
1:LB:43:ASN:OD1	1:LB:46:THR:OG1	2.31	0.48
1:LD:37:ILE:HG12	1:LD:53:VAL:HG22	1.95	0.48
1:LG:37:ILE:HG12	1:LG:53:VAL:HG22	1.95	0.48
1:MR:43:ASN:OD1	1:MR:46:THR:OG1	2.31	0.48
1:AR:20:TYR:CZ	1:AR:36:LYS:HD3	2.48	0.48
1:BM:43:ASN:OD1	1:BM:46:THR:OG1	2.31	0.48
1:CM:37:ILE:HG12	1:CM:53:VAL:HG22	1.95	0.48
1:CU:99:LEU:HD22	1:DH:35:ILE:HD13	1.95	0.48
1:CV:37:ILE:HG12	1:CV:53:VAL:HG22	1.95	0.48
1:CX:99:LEU:HB2	1:DK:8:ILE:HD11	1.95	0.48
1:DL:20:TYR:CZ	1:DL:36:LYS:HD3	2.48	0.48
1:DO:38:SER:OG	2:RA:27:U:OP1	2.29	0.48
1:DR:20:TYR:CZ	1:DR:36:LYS:HD3	2.48	0.48
1:EA:43:ASN:OD1	1:EA:46:THR:OG1	2.31	0.48
1:EJ:20:TYR:CZ	1:EJ:36:LYS:HD3	2.48	0.48
1:FH:20:TYR:CZ	1:FH:36:LYS:HD3	2.48	0.48
1:FM:37:ILE:HG12	1:FM:53:VAL:HG22	1.95	0.48
1:GC:20:TYR:OH	2:RW:28:A:OP1	2.26	0.48
1:GO:43:ASN:OD1	1:GO:46:THR:OG1	2.31	0.48
1:HD:20:TYR:OH	2:SF:8:U:OP1	2.21	0.48
1:HJ:43:ASN:OD1	1:HJ:46:THR:OG1	2.31	0.48
1:IT:20:TYR:CZ	1:IT:36:LYS:HD3	2.48	0.48
1:JD:111:GLY:HA2	1:NL:40:GLY:HA3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JN:21:TYR:OH	1:KH:113:PHE:O	2.30	0.48
1:JO:43:ASN:OD1	1:JO:46:THR:OG1	2.31	0.48
1:KA:43:ASN:OD1	1:KA:46:THR:OG1	2.31	0.48
1:KD:43:ASN:OD1	1:KD:46:THR:OG1	2.31	0.48
1:KJ:97:ASN:ND2	1:NV:94:SER:HA	2.28	0.48
1:KU:37:ILE:HG12	1:KU:53:VAL:HG22	1.95	0.48
1:LK:20:TYR:CZ	1:LK:36:LYS:HD3	2.48	0.48
1:LW:52:ALA:HB2	2:SQ:26:A:H4'	1.96	0.48
1:MF:43:ASN:OD1	1:MF:46:THR:OG1	2.31	0.48
1:MO:20:TYR:CZ	1:MO:36:LYS:HD3	2.48	0.48
1:NA:43:ASN:OD1	1:NA:46:THR:OG1	2.31	0.48
1:AL:43:ASN:OD1	1:AL:46:THR:OG1	2.31	0.48
1:BD:43:ASN:OD1	1:BD:46:THR:OG1	2.31	0.48
1:BE:94:SER:HA	1:BL:97:ASN:HD21	1.78	0.48
1:BJ:20:TYR:CZ	1:BJ:36:LYS:HD3	2.48	0.48
1:BY:43:ASN:OD1	1:BY:46:THR:OG1	2.31	0.48
1:BY:109:LEU:O	1:FK:40:GLY:HA2	2.13	0.48
1:CQ:43:ASN:OD1	1:CQ:46:THR:OG1	2.31	0.48
1:CT:43:ASN:OD1	1:CT:46:THR:OG1	2.31	0.48
1:ED:43:ASN:OD1	1:ED:46:THR:OG1	2.31	0.48
1:GZ:37:ILE:HG12	1:GZ:53:VAL:HG22	1.95	0.48
1:HG:43:ASN:OD1	1:HG:46:THR:OG1	2.31	0.48
1:HU:37:ILE:HG12	1:HU:53:VAL:HG22	1.95	0.48
1:HW:8:ILE:HD11	1:LG:99:LEU:HB2	1.94	0.48
1:IK:43:ASN:OD1	1:IK:46:THR:OG1	2.31	0.48
1:JB:37:ILE:HG12	1:JB:53:VAL:HG22	1.95	0.48
1:LE:20:TYR:CZ	1:LE:36:LYS:HD3	2.48	0.48
1:LO:94:SER:HA	1:MK:97:ASN:ND2	2.27	0.48
1:AB:37:ILE:HG12	1:AB:53:VAL:HG22	1.95	0.48
1:AL:38:SER:OG	2:RD:7:A:OP1	2.26	0.48
1:AU:20:TYR:CZ	1:AU:36:LYS:HD3	2.48	0.48
1:AZ:94:SER:HA	1:EW:97:ASN:ND2	2.28	0.48
1:BV:43:ASN:OD1	1:BV:46:THR:OG1	2.31	0.48
1:BV:111:GLY:HA2	1:FH:40:GLY:HA3	1.96	0.48
1:CC:43:ASN:OD1	1:CC:46:THR:OG1	2.24	0.48
1:CY:109:LEU:O	1:GG:40:GLY:HA2	2.13	0.48
1:EG:43:ASN:OD1	1:EG:46:THR:OG1	2.31	0.48
1:EN:99:LEU:HD22	1:FJ:35:ILE:HD13	1.94	0.48
1:GW:37:ILE:HG12	1:GW:53:VAL:HG22	1.95	0.48
1:HE:99:LEU:HB2	1:ID:8:ILE:HD11	1.94	0.48
1:HQ:8:ILE:HD11	1:LJ:99:LEU:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IB:20:TYR:OH	2:SN:8:U:OP1	2.21	0.48
1:IB:97:ASN:ND2	1:LN:94:SER:HA	2.28	0.48
1:IT:96:LEU:HD21	1:MF:55:ARG:HB2	1.96	0.48
1:JK:97:ASN:ND2	1:KE:94:SER:HA	2.29	0.48
1:JT:37:ILE:HG12	1:JT:53:VAL:HG22	1.95	0.48
1:KE:43:ASN:OD1	1:KE:46:THR:OG1	2.24	0.48
1:LW:20:TYR:CZ	1:LW:36:LYS:HD3	2.48	0.48
1:LZ:43:ASN:OD1	1:LZ:46:THR:OG1	2.31	0.48
1:MA:43:ASN:OD1	1:MA:46:THR:OG1	2.24	0.48
1:NG:43:ASN:OD1	1:NG:46:THR:OG1	2.31	0.48
1:NQ:43:ASN:OD1	1:NQ:46:THR:OG1	2.24	0.48
1:BB:6:LEU:HD22	1:BR:99:LEU:HD11	1.96	0.48
1:BS:20:TYR:CZ	1:BS:36:LYS:HD3	2.48	0.48
1:CU:113:PHE:OXT	1:DH:21:TYR:OH	2.32	0.48
1:CZ:43:ASN:OD1	1:CZ:46:THR:OG1	2.31	0.48
1:DS:43:ASN:OD1	1:DS:46:THR:OG1	2.24	0.48
1:ED:41:LYS:HD2	2:RF:26:A:OP1	2.14	0.48
1:GE:37:ILE:HG12	1:GE:53:VAL:HG22	1.95	0.48
1:HO:111:GLY:HA2	1:MS:40:GLY:HA3	1.95	0.48
1:HY:20:TYR:OH	2:SM:8:U:OP1	2.21	0.48
1:HY:38:SER:OG	2:SM:7:A:OP1	2.26	0.48
1:HY:43:ASN:OD1	1:HY:46:THR:OG1	2.31	0.48
1:JH:37:ILE:HG12	1:JH:53:VAL:HG22	1.95	0.48
1:JQ:35:ILE:HD13	1:KB:99:LEU:HD22	1.95	0.48
1:MC:43:ASN:OD1	1:MC:46:THR:OG1	2.31	0.48
1:MU:52:ALA:HB2	2:SY:26:A:H4'	1.95	0.48
1:AI:43:ASN:OD1	1:AI:46:THR:OG1	2.31	0.48
1:AZ:37:ILE:HG12	1:AZ:53:VAL:HG22	1.95	0.48
1:BS:97:ASN:HD21	1:FE:94:SER:HA	1.78	0.48
1:BU:105:LEU:HA	1:BU:105:LEU:HD23	1.64	0.48
1:CB:109:LEU:O	1:FN:40:GLY:HA2	2.14	0.48
1:CP:37:ILE:HG12	1:CP:53:VAL:HG22	1.95	0.48
1:CW:20:TYR:OH	2:RY:8:U:OP1	2.21	0.48
1:DB:8:ILE:HD11	1:GJ:99:LEU:HB2	1.96	0.48
1:DE:37:ILE:HG12	1:DE:53:VAL:HG22	1.95	0.48
1:EF:37:ILE:HG12	1:EF:53:VAL:HG22	1.95	0.48
1:EU:37:ILE:HG12	1:EU:53:VAL:HG22	1.95	0.48
1:FX:43:ASN:OD1	1:FX:46:THR:OG1	2.24	0.48
1:FZ:43:ASN:OD1	1:FZ:46:THR:OG1	2.31	0.48
1:GF:43:ASN:OD1	1:GF:46:THR:OG1	2.31	0.48
1:GH:37:ILE:HG12	1:GH:53:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GX:43:ASN:OD1	1:GX:46:THR:OG1	2.31	0.48
1:HL:37:ILE:HG12	1:HL:53:VAL:HG22	1.95	0.48
1:HR:37:ILE:HG12	1:HR:53:VAL:HG22	1.95	0.48
1:HU:40:GLY:HA3	1:MA:111:GLY:HA2	1.96	0.48
1:IC:99:LEU:HB2	1:IJ:8:ILE:HD11	1.96	0.48
1:IE:20:TYR:CZ	1:IE:36:LYS:HD3	2.48	0.48
1:IQ:92:LEU:HD22	1:MC:55:ARG:HG2	1.96	0.48
1:JC:20:TYR:CZ	1:JC:36:LYS:HD3	2.48	0.48
1:JU:43:ASN:OD1	1:JU:46:THR:OG1	2.31	0.48
1:KA:38:SER:OG	2:TE:7:A:OP1	2.26	0.48
1:LJ:105:LEU:HA	1:LJ:105:LEU:HD23	1.64	0.48
1:LY:37:ILE:HG12	1:LY:53:VAL:HG22	1.95	0.48
1:NV:43:ASN:OD1	1:NV:46:THR:OG1	2.31	0.48
1:AN:37:ILE:HG12	1:AN:53:VAL:HG22	1.95	0.47
1:BQ:40:GLY:HA3	1:EC:111:GLY:HA2	1.96	0.47
1:BR:37:ILE:HG12	1:BR:53:VAL:HG22	1.95	0.47
1:BV:20:TYR:OH	2:RP:8:U:OP1	2.21	0.47
1:BV:38:SER:OG	2:RP:7:A:OP1	2.26	0.47
1:CN:96:LEU:HD22	1:FZ:53:VAL:HG12	1.96	0.47
1:CZ:97:ASN:ND2	1:GL:94:SER:HA	2.29	0.47
1:DF:43:ASN:OD1	1:DF:46:THR:OG1	2.31	0.47
1:EH:111:GLY:HA2	1:EO:40:GLY:HA3	1.96	0.47
1:EJ:43:ASN:OD1	1:EJ:46:THR:OG1	2.31	0.47
1:FG:37:ILE:HG12	1:FG:53:VAL:HG22	1.95	0.47
1:FK:43:ASN:OD1	1:FK:46:THR:OG1	2.31	0.47
1:FN:43:ASN:OD1	1:FN:46:THR:OG1	2.31	0.47
1:FV:37:ILE:HG12	1:FV:53:VAL:HG22	1.95	0.47
1:GX:20:TYR:CZ	1:GX:36:LYS:HD3	2.48	0.47
1:HI:37:ILE:HG12	1:HI:53:VAL:HG22	1.95	0.47
1:HM:43:ASN:OD1	1:HM:46:THR:OG1	2.31	0.47
1:JV:43:ASN:OD1	1:JV:46:THR:OG1	2.24	0.47
1:KJ:43:ASN:OD1	1:KJ:46:THR:OG1	2.31	0.47
1:KL:37:ILE:HG12	1:KL:53:VAL:HG22	1.95	0.47
1:KO:37:ILE:HG12	1:KO:53:VAL:HG22	1.95	0.47
1:KQ:35:ILE:HD13	1:NO:99:LEU:HD22	1.94	0.47
1:LE:41:LYS:HD2	2:SK:26:A:OP1	2.15	0.47
1:LT:43:ASN:OD1	1:LT:46:THR:OG1	2.31	0.47
1:AA:43:ASN:OD1	1:AA:46:THR:OG1	2.24	0.47
1:AX:43:ASN:OD1	1:AX:46:THR:OG1	2.31	0.47
1:BG:94:SER:HA	1:ES:97:ASN:HD21	1.80	0.47
1:BN:96:LEU:CD2	1:DZ:53:VAL:HG12	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BP:43:ASN:OD1	1:BP:46:THR:OG1	2.31	0.47
1:CA:37:ILE:HG12	1:CA:53:VAL:HG22	1.95	0.47
1:DL:43:ASN:OD1	1:DL:46:THR:OG1	2.31	0.47
1:EV:43:ASN:OD1	1:EV:46:THR:OG1	2.31	0.47
1:FB:43:ASN:OD1	1:FB:46:THR:OG1	2.31	0.47
1:FW:20:TYR:OH	2:RU:28:A:OP1	2.26	0.47
1:GL:43:ASN:OD1	1:GL:46:THR:OG1	2.31	0.47
1:HA:43:ASN:OD1	1:HA:46:THR:OG1	2.31	0.47
1:HZ:94:SER:HA	1:IP:97:ASN:HD21	1.79	0.47
1:ID:37:ILE:HG12	1:ID:53:VAL:HG22	1.95	0.47
1:IH:43:ASN:OD1	1:IH:46:THR:OG1	2.31	0.47
1:IH:97:ASN:HD21	1:LT:94:SER:HA	1.78	0.47
1:IP:105:LEU:HD23	1:IP:105:LEU:HA	1.64	0.47
1:IQ:43:ASN:OD1	1:IQ:46:THR:OG1	2.31	0.47
1:IZ:43:ASN:OD1	1:IZ:46:THR:OG1	2.31	0.47
1:JC:43:ASN:OD1	1:JC:46:THR:OG1	2.31	0.47
1:JD:40:GLY:HA3	1:NL:111:GLY:HA2	1.96	0.47
1:ML:43:ASN:OD1	1:ML:46:THR:OG1	2.31	0.47
1:MO:43:ASN:OD1	1:MO:46:THR:OG1	2.31	0.47
1:MR:20:TYR:HH	2:SX:28:A:P	2.36	0.47
1:AZ:55:ARG:CG	1:EW:92:LEU:HD22	2.44	0.47
1:BA:43:ASN:OD1	1:BA:46:THR:OG1	2.31	0.47
1:CC:97:ASN:ND2	1:GK:94:SER:HA	2.29	0.47
1:CN:43:ASN:OD1	1:CN:46:THR:OG1	2.31	0.47
1:CY:105:LEU:HD23	1:CY:105:LEU:HA	1.64	0.47
1:DI:20:TYR:OH	2:SC:8:U:OP1	2.21	0.47
1:DU:43:ASN:OD1	1:DU:46:THR:OG1	2.31	0.47
1:FA:37:ILE:HG12	1:FA:53:VAL:HG22	1.95	0.47
1:FP:99:LEU:HD22	1:GV:35:ILE:HD13	1.96	0.47
1:HM:94:SER:HA	1:KY:97:ASN:ND2	2.28	0.47
1:IK:53:VAL:HG12	1:LW:96:LEU:HD22	1.95	0.47
1:IS:37:ILE:HG12	1:IS:53:VAL:HG22	1.95	0.47
1:KG:43:ASN:OD1	1:KG:46:THR:OG1	2.31	0.47
1:MH:37:ILE:HG12	1:MH:53:VAL:HG22	1.95	0.47
1:NS:43:ASN:OD1	1:NS:46:THR:OG1	2.31	0.47
1:AP:99:LEU:HB2	1:BU:8:ILE:HD11	1.96	0.47
1:AW:97:ASN:ND2	1:FC:94:SER:HA	2.28	0.47
1:BG:55:ARG:CG	1:ES:92:LEU:HD22	2.45	0.47
1:BJ:43:ASN:OD1	1:BJ:46:THR:OG1	2.31	0.47
1:BV:94:SER:HA	1:FH:97:ASN:HD21	1.79	0.47
1:CM:105:LEU:HD23	1:CM:105:LEU:HA	1.64	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EL:37:ILE:HG12	1:EL:53:VAL:HG22	1.95	0.47
1:EP:43:ASN:OD1	1:EP:46:THR:OG1	2.31	0.47
1:FZ:52:ALA:HB2	2:RV:26:A:H4'	1.96	0.47
1:GZ:40:GLY:HA3	1:MV:111:GLY:HA2	1.96	0.47
1:HS:43:ASN:OD1	1:HS:46:THR:OG1	2.31	0.47
1:IG:37:ILE:HG12	1:IG:53:VAL:HG22	1.95	0.47
1:JC:94:SER:HA	1:MO:97:ASN:HD21	1.79	0.47
1:JI:43:ASN:OD1	1:JI:46:THR:OG1	2.31	0.47
1:JK:53:VAL:HG12	1:KE:96:LEU:HD22	1.96	0.47
1:JQ:40:GLY:HA3	1:KB:111:GLY:HA2	1.97	0.47
1:JY:40:GLY:HA3	1:KC:111:GLY:HA2	1.96	0.47
1:KC:37:ILE:HG12	1:KC:53:VAL:HG22	1.95	0.47
1:KS:43:ASN:OD1	1:KS:46:THR:OG1	2.31	0.47
1:LF:8:ILE:HD11	1:LM:99:LEU:HB2	1.96	0.47
1:MN:99:LEU:HB2	1:NT:8:ILE:HD11	1.95	0.47
1:NP:43:ASN:OD1	1:NP:46:THR:OG1	2.31	0.47
1:AK:37:ILE:HG12	1:AK:53:VAL:HG22	1.95	0.47
1:AR:97:ASN:HD21	1:ED:94:SER:HA	1.79	0.47
1:BA:16:THR:HB	1:EW:111:GLY:HA3	1.97	0.47
1:BA:20:TYR:OH	2:RI:8:U:OP1	2.21	0.47
1:BA:38:SER:OG	2:RI:7:A:OP1	2.26	0.47
1:BX:37:ILE:HG12	1:BX:53:VAL:HG22	1.95	0.47
1:CE:43:ASN:OD1	1:CE:46:THR:OG1	2.31	0.47
1:CH:38:SER:OG	2:RT:7:A:OP1	2.26	0.47
1:CJ:53:VAL:HG12	1:CO:96:LEU:HD22	1.95	0.47
1:CP:6:LEU:HD22	1:DJ:99:LEU:HD11	1.96	0.47
1:CX:94:SER:HA	1:DK:97:ASN:HD21	1.79	0.47
1:CZ:94:SER:HA	1:GL:97:ASN:ND2	2.29	0.47
1:DZ:37:ILE:HG12	1:DZ:53:VAL:HG22	1.95	0.47
1:ET:8:ILE:HD11	1:FG:99:LEU:HB2	1.96	0.47
1:FZ:38:SER:OG	2:RV:27:U:OP1	2.25	0.47
1:GH:105:LEU:HD23	1:GH:105:LEU:HA	1.64	0.47
1:GY:43:ASN:OD1	1:GY:46:THR:OG1	2.24	0.47
1:HY:109:LEU:O	1:LK:40:GLY:HA2	2.14	0.47
1:IB:43:ASN:OD1	1:IB:46:THR:OG1	2.31	0.47
1:IT:38:SER:OG	2:ST:7:A:OP1	2.26	0.47
1:JS:40:GLY:HA2	1:KF:109:LEU:O	2.14	0.47
1:JT:40:GLY:HA3	1:NK:111:GLY:HA2	1.96	0.47
1:KV:43:ASN:OD1	1:KV:46:THR:OG1	2.31	0.47
1:KW:113:PHE:OXT	1:MW:21:TYR:OH	2.29	0.47
1:LE:43:ASN:OD1	1:LE:46:THR:OG1	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LJ:37:ILE:HG12	1:LJ:53:VAL:HG22	1.95	0.47
1:LW:43:ASN:OD1	1:LW:46:THR:OG1	2.31	0.47
1:ME:37:ILE:HG12	1:ME:53:VAL:HG22	1.95	0.47
1:MQ:109:LEU:O	1:NN:40:GLY:HA2	2.13	0.47
1:AA:40:GLY:HA3	1:BI:111:GLY:HA2	1.96	0.47
1:AE:37:ILE:HG12	1:AE:53:VAL:HG22	1.95	0.47
1:AH:8:ILE:HD11	1:GD:99:LEU:HB2	1.95	0.47
1:AR:43:ASN:OD1	1:AR:46:THR:OG1	2.31	0.47
1:CK:40:GLY:HA2	1:FW:109:LEU:O	2.14	0.47
1:DI:55:ARG:HG2	1:GU:92:LEU:HD22	1.97	0.47
1:DM:35:ILE:HD13	1:GT:99:LEU:HD22	1.96	0.47
1:DQ:37:ILE:HG12	1:DQ:53:VAL:HG22	1.95	0.47
1:DW:37:ILE:HG12	1:DW:53:VAL:HG22	1.95	0.47
1:EB:94:SER:HA	1:GB:97:ASN:ND2	2.30	0.47
1:FL:43:ASN:OD1	1:FL:46:THR:OG1	2.24	0.47
1:GC:43:ASN:OD1	1:GC:46:THR:OG1	2.31	0.47
1:IC:96:LEU:HD22	1:IJ:53:VAL:CG1	2.44	0.47
1:JA:94:SER:HA	1:NI:97:ASN:ND2	2.29	0.47
1:JQ:37:ILE:HG12	1:JQ:53:VAL:HG22	1.95	0.47
1:JX:43:ASN:OD1	1:JX:46:THR:OG1	2.31	0.47
1:JZ:37:ILE:HG12	1:JZ:53:VAL:HG22	1.95	0.47
1:KX:37:ILE:HG12	1:KX:53:VAL:HG22	1.95	0.47
1:MQ:99:LEU:HD22	1:NN:35:ILE:HD13	1.95	0.47
1:NC:37:ILE:HG12	1:NC:53:VAL:HG22	1.95	0.47
1:AQ:37:ILE:HG12	1:AQ:53:VAL:HG22	1.95	0.47
1:AY:43:ASN:OD1	1:AY:46:THR:OG1	2.24	0.47
1:BF:37:ILE:HG12	1:BF:53:VAL:HG22	1.95	0.47
1:BK:8:ILE:HD11	1:DW:99:LEU:HB2	1.97	0.47
1:BP:97:ASN:ND2	1:FB:94:SER:HA	2.29	0.47
1:BQ:101:ASP:OD2	1:MM:10:SER:CB	2.61	0.47
1:BQ:109:LEU:O	1:EC:40:GLY:HA2	2.14	0.47
1:BY:20:TYR:OH	2:RQ:8:U:OP1	2.21	0.47
1:CB:43:ASN:OD1	1:CB:46:THR:OG1	2.31	0.47
1:DC:94:SER:HA	1:GO:97:ASN:HD21	1.80	0.47
1:DE:105:LEU:HD23	1:DE:105:LEU:HA	1.64	0.47
1:DI:43:ASN:OD1	1:DI:46:THR:OG1	2.31	0.47
1:DM:99:LEU:HB2	1:GT:8:ILE:HD11	1.97	0.47
1:FQ:43:ASN:OD1	1:FQ:46:THR:OG1	2.31	0.47
1:GQ:37:ILE:HG12	1:GQ:53:VAL:HG22	1.95	0.47
1:IK:20:TYR:OH	2:SQ:8:U:OP1	2.21	0.47
1:JA:35:ILE:HD13	1:NI:99:LEU:HD22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JI:94:SER:HA	1:MU:97:ASN:HD21	1.78	0.47
1:JK:35:ILE:HD13	1:KE:99:LEU:HD22	1.96	0.47
1:JQ:97:ASN:ND2	1:KB:94:SER:HA	2.29	0.47
1:JS:40:GLY:HA3	1:KF:111:GLY:HA2	1.97	0.47
1:KD:20:TYR:OH	2:TF:8:U:OP1	2.21	0.47
1:KM:43:ASN:OD1	1:KM:46:THR:OG1	2.31	0.47
1:LV:37:ILE:HG12	1:LV:53:VAL:HG22	1.95	0.47
1:MC:16:THR:HB	1:MD:111:GLY:HA3	1.97	0.47
1:MH:105:LEU:HD23	1:MH:105:LEU:HA	1.64	0.47
1:MQ:99:LEU:HB2	1:NN:8:ILE:HD11	1.97	0.47
1:MT:37:ILE:HG12	1:MT:53:VAL:HG22	1.95	0.47
1:MT:105:LEU:HA	1:MT:105:LEU:HD23	1.64	0.47
1:NJ:43:ASN:OD1	1:NJ:46:THR:OG1	2.31	0.47
1:NL:37:ILE:HG12	1:NL:53:VAL:HG22	1.95	0.47
1:NP:36:LYS:HE3	2:TF:27:U:OP1	2.15	0.47
1:NR:105:LEU:HD23	1:NR:105:LEU:HA	1.64	0.47
1:BA:94:SER:HA	1:EM:97:ASN:ND2	2.30	0.47
1:CH:96:LEU:HD22	1:FT:53:VAL:HG12	1.95	0.47
1:CJ:55:ARG:HG3	1:CO:92:LEU:HD22	1.97	0.47
1:CS:37:ILE:HG12	1:CS:53:VAL:HG22	1.95	0.47
1:HM:38:SER:OG	2:SI:7:A:OP1	2.26	0.47
1:JK:37:ILE:HG12	1:JK:53:VAL:HG22	1.95	0.47
1:KO:105:LEU:HD23	1:KO:105:LEU:HA	1.64	0.47
1:KT:40:GLY:HA2	1:NC:109:LEU:O	2.15	0.47
1:KZ:35:ILE:HD13	1:MZ:99:LEU:HD22	1.96	0.47
1:NF:37:ILE:HG12	1:NF:53:VAL:HG22	1.95	0.47
1:NU:105:LEU:HD23	1:NU:105:LEU:HA	1.64	0.47
1:AG:40:GLY:HA3	1:BF:111:GLY:HA2	1.97	0.47
1:AM:40:GLY:HA3	1:CA:111:GLY:HA2	1.97	0.47
1:AS:40:GLY:HA3	1:EL:111:GLY:HA2	1.97	0.47
1:BL:105:LEU:HA	1:BL:105:LEU:HD23	1.64	0.47
1:BS:92:LEU:HD22	1:FE:55:ARG:CG	2.45	0.47
1:GU:38:SER:OG	2:SC:27:U:OP1	2.30	0.47
1:HU:99:LEU:HB2	1:MA:8:ILE:HD11	1.96	0.47
1:IQ:38:SER:OG	2:SS:7:A:OP1	2.26	0.47
1:JU:109:LEU:O	1:NG:40:GLY:HA2	2.14	0.47
1:KV:36:LYS:HE3	2:SH:27:U:OP1	2.15	0.47
1:MB:97:ASN:ND2	1:MD:94:SER:HA	2.30	0.47
1:MQ:96:LEU:HD22	1:NN:53:VAL:HG12	1.97	0.47
1:BZ:55:ARG:HG2	1:DT:92:LEU:HD22	1.97	0.47
1:CN:38:SER:OG	2:RV:7:A:OP1	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CP:96:LEU:HD22	1:DJ:53:VAL:HG12	1.96	0.47
1:CT:38:SER:OG	2:RX:7:A:OP1	2.26	0.47
1:DT:105:LEU:HD23	1:DT:105:LEU:HA	1.64	0.47
1:EX:104:ARG:NH1	1:FI:3:PHE:CD1	2.83	0.47
1:HF:16:THR:HG21	1:ID:110:GLN:OE1	2.15	0.47
1:HN:99:LEU:HB2	1:IS:8:ILE:HD11	1.97	0.47
1:IC:104:ARG:HG2	1:IJ:3:PHE:CE1	2.49	0.47
1:IW:96:LEU:HD22	1:MI:53:VAL:HG12	1.97	0.47
1:JC:53:VAL:HG12	1:MO:96:LEU:HD22	1.97	0.47
1:JO:38:SER:OG	2:TA:7:A:OP1	2.26	0.47
1:JO:111:GLY:HA2	1:NA:40:GLY:HA3	1.96	0.47
1:JU:38:SER:OG	2:TC:7:A:OP1	2.26	0.47
1:LO:99:LEU:HB2	1:MK:8:ILE:HD11	1.97	0.47
1:MT:96:LEU:HD22	1:NQ:53:VAL:HG12	1.97	0.47
1:BC:28:PHE:HB3	1:BR:106:ASP:OD1	2.14	0.46
1:BW:40:GLY:HA3	1:DQ:111:GLY:HA2	1.97	0.46
1:CZ:94:SER:HA	1:GL:97:ASN:HD21	1.81	0.46
1:DI:94:SER:HA	1:GU:97:ASN:HD21	1.80	0.46
1:GQ:105:LEU:HA	1:GQ:105:LEU:HD23	1.64	0.46
1:HK:43:ASN:OD1	1:HK:46:THR:OG1	2.24	0.46
1:HM:20:TYR:OH	2:SI:8:U:OP1	2.21	0.46
1:LR:40:GLY:HA3	1:ME:111:GLY:HA2	1.96	0.46
1:AN:111:GLY:HA2	1:FR:40:GLY:HA3	1.96	0.46
1:AR:20:TYR:OH	2:RF:8:U:OP1	2.21	0.46
1:CS:109:LEU:O	1:DD:40:GLY:HA2	2.16	0.46
1:GD:43:ASN:OD1	1:GD:46:THR:OG1	2.24	0.46
1:HX:35:ILE:HD13	1:LU:99:LEU:HD22	1.97	0.46
1:IU:40:GLY:HA3	1:KO:111:GLY:HA2	1.97	0.46
1:JX:96:LEU:HD22	1:NJ:53:VAL:HG12	1.96	0.46
1:JZ:111:GLY:HA2	1:NH:40:GLY:HA3	1.96	0.46
1:AO:94:SER:HA	1:EA:97:ASN:ND2	2.30	0.46
1:BB:75:ALA:O	1:BR:76:ILE:HA	2.16	0.46
1:BC:105:LEU:HA	1:BC:105:LEU:HD23	1.64	0.46
1:BG:94:SER:HA	1:ES:97:ASN:ND2	2.30	0.46
1:BJ:20:TYR:OH	2:RL:8:U:OP1	2.21	0.46
1:BS:97:ASN:ND2	1:FE:94:SER:HA	2.30	0.46
1:DL:77:ILE:HD12	1:GX:77:ILE:HD12	1.98	0.46
1:FA:97:ASN:ND2	1:FL:94:SER:HA	2.31	0.46
1:FP:40:GLY:HA3	1:GV:111:GLY:HA2	1.97	0.46
1:HI:96:LEU:CD2	1:MM:53:VAL:HG12	2.45	0.46
1:HI:105:LEU:HD23	1:HI:105:LEU:HA	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HS:94:SER:HA	1:LE:97:ASN:HD21	1.81	0.46
1:IC:40:GLY:HA3	1:IJ:111:GLY:HA2	1.98	0.46
1:JT:109:LEU:O	1:NK:40:GLY:HA2	2.15	0.46
1:KA:40:GLY:HA2	1:NM:109:LEU:O	2.15	0.46
1:AF:16:THR:HB	1:GA:111:GLY:HA3	1.97	0.46
1:FA:105:LEU:HA	1:FA:105:LEU:HD23	1.64	0.46
1:FP:97:ASN:ND2	1:GV:94:SER:HA	2.29	0.46
1:IQ:53:VAL:HG12	1:MC:96:LEU:HD22	1.97	0.46
1:JY:35:ILE:HD13	1:KC:99:LEU:HD22	1.96	0.46
1:KQ:94:SER:HA	1:NO:97:ASN:ND2	2.29	0.46
1:AP:94:SER:HA	1:BU:97:ASN:HD21	1.80	0.46
1:BN:55:ARG:CG	1:DZ:92:LEU:HD22	2.46	0.46
1:BN:94:SER:HA	1:DZ:97:ASN:ND2	2.30	0.46
1:CG:105:LEU:HD23	1:CG:105:LEU:HA	1.64	0.46
1:CQ:20:TYR:OH	2:RW:8:U:OP1	2.21	0.46
1:CZ:92:LEU:HD22	1:GL:55:ARG:HG2	1.98	0.46
1:EN:94:SER:HA	1:FJ:97:ASN:ND2	2.30	0.46
1:IB:97:ASN:HD21	1:LN:94:SER:HA	1.80	0.46
1:ID:105:LEU:HD23	1:ID:105:LEU:HA	1.64	0.46
1:IE:97:ASN:ND2	1:LQ:94:SER:HA	2.31	0.46
1:JE:106:ASP:OD2	1:JK:27:GLY:HA2	2.16	0.46
1:KN:109:LEU:O	1:NU:49:VAL:HG21	2.15	0.46
1:EB:40:GLY:HA3	1:GB:111:GLY:HA2	1.96	0.46
1:HF:105:LEU:HA	1:HF:105:LEU:HD23	1.64	0.46
1:IG:105:LEU:HA	1:IG:105:LEU:HD23	1.64	0.46
1:JS:43:ASN:OD1	1:JS:46:THR:OG1	2.24	0.46
1:KY:20:TYR:OH	2:SI:28:A:OP1	2.22	0.46
1:AO:38:SER:OG	2:RE:7:A:OP1	2.26	0.46
1:EE:8:ILE:HD11	1:EU:99:LEU:HB2	1.96	0.46
1:HX:99:LEU:HB2	1:LU:8:ILE:HD11	1.98	0.46
1:IW:53:VAL:HG12	1:MI:96:LEU:HD22	1.98	0.46
1:KK:43:ASN:OD1	1:KK:46:THR:OG1	2.24	0.46
1:LR:43:ASN:OD1	1:LR:46:THR:OG1	2.24	0.46
1:MN:105:LEU:HA	1:MN:105:LEU:HD23	1.64	0.46
1:AO:16:THR:HB	1:FR:111:GLY:HA3	1.97	0.46
1:BN:94:SER:HA	1:DZ:97:ASN:HD21	1.80	0.46
1:BQ:43:ASN:OD1	1:BQ:46:THR:OG1	2.24	0.46
1:CJ:105:LEU:HA	1:CJ:105:LEU:HD23	1.64	0.46
1:CU:43:ASN:OD1	1:CU:46:THR:OG1	2.23	0.46
1:CV:97:ASN:ND2	1:GM:94:SER:HA	2.31	0.46
1:DA:55:ARG:HG2	1:DE:92:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:105:LEU:HA	1:DB:105:LEU:HD23	1.64	0.46
1:HI:70:SER:OG	1:MM:82:ARG:O	2.29	0.46
1:HS:20:TYR:OH	2:SK:8:U:OP1	2.21	0.46
1:IL:43:ASN:OD1	1:IL:46:THR:OG1	2.24	0.46
1:JE:105:LEU:HD13	1:JJ:89:ALA:HB3	1.97	0.46
1:JI:90:ASP:OD2	1:MU:102:PRO:HD3	2.16	0.46
1:NG:52:ALA:HB2	2:TC:26:A:H4'	1.98	0.46
1:AA:15:PRO:HB3	1:AA:21:TYR:CE1	2.51	0.46
1:AF:20:TYR:OH	2:RB:8:U:OP1	2.21	0.46
1:AG:15:PRO:HB3	1:AG:21:TYR:CE1	2.51	0.46
1:AK:105:LEU:HD23	1:AK:105:LEU:HA	1.64	0.46
1:AM:43:ASN:OD1	1:AM:46:THR:OG1	2.24	0.46
1:BN:15:PRO:HB3	1:BN:21:TYR:CE1	2.51	0.46
1:CF:99:LEU:HB2	1:GN:8:ILE:HD11	1.98	0.46
1:CX:15:PRO:HB3	1:CX:21:TYR:CE1	2.51	0.46
1:CY:40:GLY:HA3	1:GG:111:GLY:HA2	1.97	0.46
1:EQ:43:ASN:OD1	1:EQ:46:THR:OG1	2.24	0.46
1:ES:41:LYS:HD2	2:RK:26:A:OP1	2.16	0.46
1:FF:15:PRO:HB3	1:FF:21:TYR:CE1	2.51	0.46
1:GJ:15:PRO:HB3	1:GJ:21:TYR:CE1	2.51	0.46
1:GP:15:PRO:HB3	1:GP:21:TYR:CE1	2.51	0.46
1:HZ:15:PRO:HB3	1:HZ:21:TYR:CE1	2.51	0.46
1:IC:43:ASN:OD1	1:IC:46:THR:OG1	2.24	0.46
1:JE:89:ALA:HB3	1:JJ:105:LEU:HD13	1.97	0.46
1:JG:43:ASN:OD1	1:JG:46:THR:OG1	2.24	0.46
1:KD:40:GLY:HA2	1:NP:109:LEU:O	2.16	0.46
1:KE:15:PRO:HB3	1:KE:21:TYR:CE1	2.51	0.46
1:KT:43:ASN:OD1	1:KT:46:THR:OG1	2.24	0.46
1:KW:111:GLY:HA3	1:MX:16:THR:HB	1.98	0.46
1:LI:15:PRO:HB3	1:LI:21:TYR:CE1	2.51	0.46
1:LR:96:LEU:HD22	1:ME:53:VAL:HG12	1.98	0.46
1:DG:15:PRO:HB3	1:DG:21:TYR:CE1	2.51	0.46
1:EL:105:LEU:HA	1:EL:105:LEU:HD23	1.64	0.46
1:EM:36:LYS:HG2	2:RI:27:U:H5"	1.98	0.46
1:FI:43:ASN:OD1	1:FI:46:THR:OG1	2.24	0.46
1:FO:15:PRO:HB3	1:FO:21:TYR:CE1	2.51	0.46
1:FX:15:PRO:HB3	1:FX:21:TYR:CE1	2.51	0.46
1:HP:110:GLN:OE1	1:KZ:16:THR:HG21	2.16	0.46
1:HT:15:PRO:HB3	1:HT:21:TYR:CE1	2.51	0.46
1:JC:38:SER:OG	2:SW:7:A:OP1	2.26	0.46
1:JH:105:LEU:HD23	1:JH:105:LEU:HA	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JL:53:VAL:HG12	1:MX:96:LEU:HD22	1.97	0.46
1:JQ:53:VAL:HG12	1:KB:96:LEU:HD22	1.98	0.46
1:KH:15:PRO:HB3	1:KH:21:TYR:CE1	2.51	0.46
1:KX:105:LEU:HA	1:KX:105:LEU:HD23	1.64	0.46
1:MD:15:PRO:HB3	1:MD:21:TYR:CE1	2.51	0.46
1:MP:15:PRO:HB3	1:MP:21:TYR:CE1	2.51	0.46
1:MS:15:PRO:HB3	1:MS:21:TYR:CE1	2.51	0.46
1:NT:15:PRO:HB3	1:NT:21:TYR:CE1	2.51	0.46
1:AO:94:SER:HA	1:EA:97:ASN:HD21	1.81	0.45
1:BB:15:PRO:HB3	1:BB:21:TYR:CE1	2.51	0.45
1:BQ:3:PHE:CE1	1:EC:104:ARG:HG2	2.51	0.45
1:DJ:15:PRO:HB3	1:DJ:21:TYR:CE1	2.51	0.45
1:DY:15:PRO:HB3	1:DY:21:TYR:CE1	2.51	0.45
1:EK:111:GLY:HA2	1:ER:40:GLY:HA3	1.97	0.45
1:EW:15:PRO:HB3	1:EW:21:TYR:CE1	2.51	0.45
1:EX:106:ASP:OD2	1:FJ:27:GLY:HA2	2.15	0.45
1:GM:15:PRO:HB3	1:GM:21:TYR:CE1	2.51	0.45
1:HE:15:PRO:HB3	1:HE:21:TYR:CE1	2.51	0.45
1:HO:55:ARG:HG3	1:MS:92:LEU:HD22	1.97	0.45
1:IU:111:GLY:HA2	1:KO:40:GLY:HA3	1.97	0.45
1:JC:97:ASN:ND2	1:MO:94:SER:HA	2.31	0.45
1:JN:90:ASP:OD2	1:KH:102:PRO:HD3	2.15	0.45
1:JS:15:PRO:HB3	1:JS:21:TYR:CE1	2.51	0.45
1:JZ:105:LEU:HD23	1:JZ:105:LEU:HA	1.64	0.45
1:KB:15:PRO:HB3	1:KB:21:TYR:CE1	2.51	0.45
1:LE:38:SER:OG	2:SK:27:U:OP1	2.28	0.45
1:MM:15:PRO:HB3	1:MM:21:TYR:CE1	2.51	0.45
1:MY:15:PRO:HB3	1:MY:21:TYR:CE1	2.51	0.45
1:NH:15:PRO:HB3	1:NH:21:TYR:CE1	2.51	0.45
1:AW:8:ILE:HD11	1:FC:99:LEU:HB2	1.98	0.45
1:AW:35:ILE:HD13	1:FC:99:LEU:HD22	1.99	0.45
1:BE:15:PRO:HB3	1:BE:21:TYR:CE1	2.51	0.45
1:BR:105:LEU:HD23	1:BR:105:LEU:HA	1.64	0.45
1:BW:15:PRO:HB3	1:BW:21:TYR:CE1	2.52	0.45
1:CP:105:LEU:HD23	1:CP:105:LEU:HA	1.64	0.45
1:DJ:28:PHE:HA	1:GX:110:GLN:HG2	1.97	0.45
1:DP:43:ASN:OD1	1:DP:46:THR:OG1	2.24	0.45
1:DS:15:PRO:HB3	1:DS:21:TYR:CE1	2.51	0.45
1:EX:109:LEU:O	1:FI:40:GLY:HA2	2.16	0.45
1:FJ:105:LEU:HD23	1:FJ:105:LEU:HA	1.64	0.45
1:GA:43:ASN:OD1	1:GA:46:THR:OG1	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IC:15:PRO:HB3	1:IC:21:TYR:CE1	2.51	0.45
1:JD:15:PRO:HB3	1:JD:21:TYR:CE1	2.51	0.45
1:JL:40:GLY:HA3	1:MX:111:GLY:HA2	1.98	0.45
1:JP:15:PRO:HB3	1:JP:21:TYR:CE1	2.51	0.45
1:JP:43:ASN:OD1	1:JP:46:THR:OG1	2.24	0.45
1:LL:15:PRO:HB3	1:LL:21:TYR:CE1	2.51	0.45
1:LR:15:PRO:HB3	1:LR:21:TYR:CE1	2.51	0.45
1:MA:15:PRO:HB3	1:MA:21:TYR:CE1	2.51	0.45
1:ML:104:ARG:O	1:ML:108:ILE:HG13	2.17	0.45
1:AF:97:ASN:ND2	1:DR:94:SER:HA	2.31	0.45
1:AI:108:ILE:HD13	1:DU:37:ILE:HG23	1.98	0.45
1:AQ:99:LEU:HB2	1:FU:8:ILE:HD11	1.97	0.45
1:AS:43:ASN:OD1	1:AS:46:THR:OG1	2.24	0.45
1:AX:104:ARG:O	1:AX:108:ILE:HG13	2.17	0.45
1:BK:15:PRO:HB3	1:BK:21:TYR:CE1	2.51	0.45
1:BN:43:ASN:OD1	1:BN:46:THR:OG1	2.24	0.45
1:BZ:43:ASN:OD1	1:BZ:46:THR:OG1	2.24	0.45
1:CF:94:SER:HA	1:GN:97:ASN:ND2	2.31	0.45
1:CQ:40:GLY:HA2	1:GC:109:LEU:O	2.17	0.45
1:CQ:104:ARG:O	1:CQ:108:ILE:HG13	2.17	0.45
1:CT:20:TYR:OH	2:RX:8:U:OP1	2.21	0.45
1:DP:15:PRO:HB3	1:DP:21:TYR:CE1	2.51	0.45
1:EG:41:LYS:HD2	2:RG:26:A:OP1	2.16	0.45
1:EH:96:LEU:HD22	1:EO:53:VAL:HG12	1.98	0.45
1:EJ:104:ARG:O	1:EJ:108:ILE:HG13	2.17	0.45
1:EM:104:ARG:O	1:EM:108:ILE:HG13	2.17	0.45
1:EQ:15:PRO:HB3	1:EQ:21:TYR:CE1	2.51	0.45
1:EQ:21:TYR:HH	1:FM:113:PHE:C	2.20	0.45
1:GD:15:PRO:HB3	1:GD:21:TYR:CE1	2.51	0.45
1:HI:109:LEU:O	1:MM:40:GLY:HA2	2.16	0.45
1:HJ:104:ARG:O	1:HJ:108:ILE:HG13	2.17	0.45
1:HN:15:PRO:HB3	1:HN:21:TYR:CE1	2.51	0.45
1:IE:77:ILE:HD12	1:LQ:77:ILE:HD12	1.99	0.45
1:IK:38:SER:OG	2:SQ:7:A:OP1	2.26	0.45
1:IR:15:PRO:HB3	1:IR:21:TYR:CE1	2.51	0.45
1:IR:43:ASN:OD1	1:IR:46:THR:OG1	2.24	0.45
1:IT:104:ARG:O	1:IT:108:ILE:HG13	2.17	0.45
1:IW:40:GLY:HA2	1:MI:109:LEU:O	2.15	0.45
1:JJ:15:PRO:HB3	1:JJ:21:TYR:CE1	2.51	0.45
1:JX:109:LEU:O	1:NJ:40:GLY:HA2	2.17	0.45
1:JY:15:PRO:HB3	1:JY:21:TYR:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KY:104:ARG:O	1:KY:108:ILE:HG13	2.17	0.45
1:NQ:15:PRO:HB3	1:NQ:21:TYR:CE1	2.51	0.45
1:NS:104:ARG:O	1:NS:108:ILE:HG13	2.17	0.45
1:AA:99:LEU:HB2	1:BI:8:ILE:HD11	1.98	0.45
1:AJ:15:PRO:HB3	1:AJ:21:TYR:CE1	2.51	0.45
1:AM:15:PRO:HB3	1:AM:21:TYR:CE1	2.51	0.45
1:AO:104:ARG:O	1:AO:108:ILE:HG13	2.17	0.45
1:BA:53:VAL:HG12	1:EM:96:LEU:HD22	1.98	0.45
1:CZ:104:ARG:O	1:CZ:108:ILE:HG13	2.17	0.45
1:DF:55:ARG:HG2	1:GR:92:LEU:HD22	1.98	0.45
1:DI:104:ARG:O	1:DI:108:ILE:HG13	2.17	0.45
1:EA:104:ARG:O	1:EA:108:ILE:HG13	2.17	0.45
1:EN:15:PRO:HB3	1:EN:21:TYR:CE1	2.51	0.45
1:EV:41:LYS:HD2	2:RL:26:A:OP1	2.16	0.45
1:FB:104:ARG:O	1:FB:108:ILE:HG13	2.17	0.45
1:FQ:104:ARG:O	1:FQ:108:ILE:HG13	2.17	0.45
1:FR:15:PRO:HB3	1:FR:21:TYR:CE1	2.51	0.45
1:GI:104:ARG:O	1:GI:108:ILE:HG13	2.17	0.45
1:GS:15:PRO:HB3	1:GS:21:TYR:CE1	2.51	0.45
1:GU:104:ARG:O	1:GU:108:ILE:HG13	2.17	0.45
1:GV:16:THR:OG1	1:GV:17:ALA:N	2.50	0.45
1:HH:111:GLY:HA2	1:IV:40:GLY:HA3	1.98	0.45
1:HV:104:ARG:O	1:HV:108:ILE:HG13	2.17	0.45
1:IB:104:ARG:O	1:IB:108:ILE:HG13	2.17	0.45
1:IC:96:LEU:CD2	1:IJ:53:VAL:HG12	2.45	0.45
1:IO:16:THR:OG1	1:IO:17:ALA:N	2.50	0.45
1:IT:102:PRO:HD3	1:MF:90:ASP:OD2	2.16	0.45
1:IX:16:THR:OG1	1:IX:17:ALA:N	2.50	0.45
1:IZ:55:ARG:HB2	1:ML:96:LEU:HD21	1.99	0.45
1:IZ:104:ARG:O	1:IZ:108:ILE:HG13	2.17	0.45
1:JK:105:LEU:HA	1:JK:105:LEU:HD23	1.64	0.45
1:JV:15:PRO:HB3	1:JV:21:TYR:CE1	2.51	0.45
1:KN:8:ILE:HD11	1:NU:99:LEU:HB2	1.97	0.45
1:KQ:15:PRO:HB3	1:KQ:21:TYR:CE1	2.51	0.45
1:KV:52:ALA:HB2	2:SH:26:A:H4'	1.98	0.45
1:MG:15:PRO:HB3	1:MG:21:TYR:CE1	2.51	0.45
1:MV:15:PRO:HB3	1:MV:21:TYR:CE1	2.51	0.45
1:MV:43:ASN:OD1	1:MV:46:THR:OG1	2.24	0.45
1:MX:104:ARG:O	1:MX:108:ILE:HG13	2.17	0.45
1:NJ:104:ARG:O	1:NJ:108:ILE:HG13	2.17	0.45
1:AC:104:ARG:O	1:AC:108:ILE:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:40:GLY:HA2	1:BX:109:LEU:O	2.16	0.45
1:AV:15:PRO:HB3	1:AV:21:TYR:CE1	2.51	0.45
1:AV:16:THR:OG1	1:AV:17:ALA:N	2.50	0.45
1:BF:105:LEU:HA	1:BF:105:LEU:HD23	1.64	0.45
1:BK:43:ASN:OD1	1:BK:46:THR:OG1	2.24	0.45
1:BQ:15:PRO:HB3	1:BQ:21:TYR:CE1	2.52	0.45
1:BQ:16:THR:OG1	1:BQ:17:ALA:N	2.50	0.45
1:BT:15:PRO:HB3	1:BT:21:TYR:CE1	2.51	0.45
1:BT:16:THR:OG1	1:BT:17:ALA:N	2.50	0.45
1:BZ:15:PRO:HB3	1:BZ:21:TYR:CE1	2.51	0.45
1:CF:15:PRO:HB3	1:CF:21:TYR:CE1	2.51	0.45
1:CL:16:THR:OG1	1:CL:17:ALA:N	2.50	0.45
1:CP:40:GLY:HA3	1:DJ:111:GLY:HA2	1.99	0.45
1:CR:16:THR:OG1	1:CR:17:ALA:N	2.50	0.45
1:CX:53:VAL:HG21	1:DK:100:LEU:HD21	1.98	0.45
1:DA:15:PRO:HB3	1:DA:21:TYR:CE1	2.52	0.45
1:DU:104:ARG:O	1:DU:108:ILE:HG13	2.17	0.45
1:DW:105:LEU:HA	1:DW:105:LEU:HD23	1.64	0.45
1:EE:16:THR:OG1	1:EE:17:ALA:N	2.50	0.45
1:EH:16:THR:OG1	1:EH:17:ALA:N	2.50	0.45
1:EH:99:LEU:HB2	1:EO:8:ILE:HD11	1.97	0.45
1:EN:16:THR:OG1	1:EN:17:ALA:N	2.50	0.45
1:ES:104:ARG:O	1:ES:108:ILE:HG13	2.17	0.45
1:FC:16:THR:OG1	1:FC:17:ALA:N	2.50	0.45
1:FZ:104:ARG:O	1:FZ:108:ILE:HG13	2.17	0.45
1:GF:104:ARG:O	1:GF:108:ILE:HG13	2.17	0.45
1:GY:15:PRO:HB3	1:GY:21:TYR:CE1	2.51	0.45
1:HW:15:PRO:HB3	1:HW:21:TYR:CE1	2.51	0.45
1:HW:16:THR:OG1	1:HW:17:ALA:N	2.50	0.45
1:IC:16:THR:OG1	1:IC:17:ALA:N	2.50	0.45
1:IC:107:GLN:CD	1:IK:14:ILE:HD13	2.36	0.45
1:IH:104:ARG:O	1:IH:108:ILE:HG13	2.17	0.45
1:II:55:ARG:HG2	1:KU:92:LEU:HD22	1.99	0.45
1:IO:97:ASN:ND2	1:LA:94:SER:HA	2.31	0.45
1:JA:16:THR:OG1	1:JA:17:ALA:N	2.50	0.45
1:JG:15:PRO:HB3	1:JG:21:TYR:CE1	2.51	0.45
1:JM:15:PRO:HB3	1:JM:21:TYR:CE1	2.51	0.45
1:JN:105:LEU:HD23	1:JN:105:LEU:HA	1.64	0.45
1:JR:94:SER:HA	1:ND:97:ASN:ND2	2.32	0.45
1:JU:104:ARG:O	1:JU:108:ILE:HG13	2.17	0.45
1:KP:104:ARG:O	1:KP:108:ILE:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KZ:15:PRO:HB3	1:KZ:21:TYR:CE1	2.51	0.45
1:LO:16:THR:OG1	1:LO:17:ALA:N	2.50	0.45
1:LO:43:ASN:OD1	1:LO:46:THR:OG1	2.24	0.45
1:LX:16:THR:OG1	1:LX:17:ALA:N	2.50	0.45
1:MC:104:ARG:O	1:MC:108:ILE:HG13	2.17	0.45
1:MJ:16:THR:OG1	1:MJ:17:ALA:N	2.50	0.45
1:NV:104:ARG:O	1:NV:108:ILE:HG13	2.17	0.45
1:AJ:16:THR:OG1	1:AJ:17:ALA:N	2.50	0.45
1:AM:99:LEU:HB2	1:CA:8:ILE:HD11	1.99	0.45
1:BK:16:THR:OG1	1:BK:17:ALA:N	2.50	0.45
1:BY:104:ARG:O	1:BY:108:ILE:HG13	2.17	0.45
1:CC:15:PRO:HB3	1:CC:21:TYR:CE1	2.51	0.45
1:CH:41:LYS:HD2	2:RT:6:U:OP1	2.17	0.45
1:CI:15:PRO:HB3	1:CI:21:TYR:CE1	2.51	0.45
1:DB:27:GLY:HA2	1:DE:106:ASP:OD2	2.16	0.45
1:DC:104:ARG:O	1:DC:108:ILE:HG13	2.17	0.45
1:DG:16:THR:OG1	1:DG:17:ALA:N	2.50	0.45
1:DM:16:THR:OG1	1:DM:17:ALA:N	2.50	0.45
1:DV:15:PRO:HB3	1:DV:21:TYR:CE1	2.51	0.45
1:EZ:15:PRO:HB3	1:EZ:21:TYR:CE1	2.51	0.45
1:FC:15:PRO:HB3	1:FC:21:TYR:CE1	2.51	0.45
1:FC:43:ASN:OD1	1:FC:46:THR:OG1	2.24	0.45
1:FF:16:THR:OG1	1:FF:17:ALA:N	2.50	0.45
1:FL:15:PRO:HB3	1:FL:21:TYR:CE1	2.51	0.45
1:GA:15:PRO:HB3	1:GA:21:TYR:CE1	2.51	0.45
1:GJ:16:THR:OG1	1:GJ:17:ALA:N	2.50	0.45
1:GV:15:PRO:HB3	1:GV:21:TYR:CE1	2.51	0.45
1:HO:99:LEU:HD22	1:MS:35:ILE:HD13	1.97	0.45
1:HZ:16:THR:OG1	1:HZ:17:ALA:N	2.50	0.45
1:IE:92:LEU:HD22	1:LQ:55:ARG:CG	2.47	0.45
1:IF:15:PRO:HB3	1:IF:21:TYR:CE1	2.51	0.45
1:IH:40:GLY:HA3	1:LT:111:GLY:HA2	1.99	0.45
1:IX:15:PRO:HB3	1:IX:21:TYR:CE1	2.51	0.45
1:JA:15:PRO:HB3	1:JA:21:TYR:CE1	2.51	0.45
1:JA:40:GLY:HA3	1:NI:111:GLY:HA2	1.98	0.45
1:JD:16:THR:OG1	1:JD:17:ALA:N	2.50	0.45
1:JM:16:THR:OG1	1:JM:17:ALA:N	2.50	0.45
1:JN:113:PHE:C	1:KH:21:TYR:HH	2.18	0.45
1:JO:104:ARG:O	1:JO:108:ILE:HG13	2.17	0.45
1:JY:16:THR:OG1	1:JY:17:ALA:N	2.50	0.45
1:KD:104:ARG:O	1:KD:108:ILE:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KG:41:LYS:HD2	2:TG:6:U:OP1	2.17	0.45
1:KI:105:LEU:HA	1:KI:105:LEU:HD23	1.64	0.45
1:KQ:16:THR:OG1	1:KQ:17:ALA:N	2.50	0.45
1:KW:99:LEU:HD22	1:MW:35:ILE:HD13	1.99	0.45
1:LD:105:LEU:HA	1:LD:105:LEU:HD23	1.64	0.45
1:LI:16:THR:OG1	1:LI:17:ALA:N	2.50	0.45
1:LN:104:ARG:O	1:LN:108:ILE:HG13	2.17	0.45
1:LO:15:PRO:HB3	1:LO:21:TYR:CE1	2.51	0.45
1:LU:15:PRO:HB3	1:LU:21:TYR:CE1	2.51	0.45
1:MF:104:ARG:O	1:MF:108:ILE:HG13	2.17	0.45
1:MJ:15:PRO:HB3	1:MJ:21:TYR:CE1	2.51	0.45
1:NA:104:ARG:O	1:NA:108:ILE:HG13	2.17	0.45
1:ND:104:ARG:O	1:ND:108:ILE:HG13	2.17	0.45
1:NE:16:THR:OG1	1:NE:17:ALA:N	2.50	0.45
1:NK:15:PRO:HB3	1:NK:21:TYR:CE1	2.51	0.45
1:NP:104:ARG:O	1:NP:108:ILE:HG13	2.17	0.45
1:AD:16:THR:OG1	1:AD:17:ALA:N	2.50	0.45
1:AF:104:ARG:O	1:AF:108:ILE:HG13	2.17	0.45
1:AI:41:LYS:HD2	2:RC:6:U:OP1	2.17	0.45
1:AP:15:PRO:HB3	1:AP:21:TYR:CE1	2.51	0.45
1:AT:110:GLN:HE21	1:FA:28:PHE:HA	1.81	0.45
1:AU:104:ARG:O	1:AU:108:ILE:HG13	2.17	0.45
1:AV:35:ILE:HD13	1:EF:99:LEU:HD22	1.98	0.45
1:BE:16:THR:OG1	1:BE:17:ALA:N	2.50	0.45
1:CM:94:SER:HA	1:DG:97:ASN:ND2	2.32	0.45
1:CP:8:ILE:HD11	1:DJ:99:LEU:HB2	1.98	0.45
1:CR:15:PRO:HB3	1:CR:21:TYR:CE1	2.51	0.45
1:CT:41:LYS:HD2	2:RX:6:U:OP1	2.17	0.45
1:CU:16:THR:OG1	1:CU:17:ALA:N	2.50	0.45
1:DA:16:THR:OG1	1:DA:17:ALA:N	2.50	0.45
1:DD:15:PRO:HB3	1:DD:21:TYR:CE1	2.51	0.45
1:DI:97:ASN:HD21	1:GU:94:SER:HA	1.82	0.45
1:EH:15:PRO:HB3	1:EH:21:TYR:CE1	2.51	0.45
1:FK:104:ARG:O	1:FK:108:ILE:HG13	2.17	0.45
1:FU:15:PRO:HB3	1:FU:21:TYR:CE1	2.51	0.45
1:GO:104:ARG:O	1:GO:108:ILE:HG13	2.17	0.45
1:GX:104:ARG:O	1:GX:108:ILE:HG13	2.17	0.45
1:HD:41:LYS:HD2	2:SF:6:U:OP1	2.17	0.45
1:HO:55:ARG:CG	1:MS:92:LEU:HD22	2.47	0.45
1:IE:41:LYS:HD2	2:SO:6:U:OP1	2.17	0.45
1:IH:38:SER:OG	2:SP:7:A:OP1	2.26	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IU:15:PRO:HB3	1:IU:21:TYR:CE1	2.51	0.45
1:IZ:41:LYS:HD2	2:SV:6:U:OP1	2.17	0.45
1:JJ:16:THR:OG1	1:JJ:17:ALA:N	2.50	0.45
1:JU:41:LYS:HD2	2:TC:6:U:OP1	2.17	0.45
1:KH:16:THR:OG1	1:KH:17:ALA:N	2.50	0.45
1:KT:35:ILE:HD13	1:NC:99:LEU:HD22	1.98	0.45
1:LC:15:PRO:HB3	1:LC:21:TYR:CE1	2.51	0.45
1:LC:16:THR:OG1	1:LC:17:ALA:N	2.50	0.45
1:LF:16:THR:OG1	1:LF:17:ALA:N	2.50	0.45
1:NE:15:PRO:HB3	1:NE:21:TYR:CE1	2.51	0.45
1:AD:15:PRO:HB3	1:AD:21:TYR:CE1	2.51	0.45
1:AW:111:GLY:HA2	1:FC:40:GLY:HA3	1.97	0.45
1:BB:83:GLY:HA3	1:BR:61:VAL:HG11	1.99	0.45
1:BH:15:PRO:HB3	1:BH:21:TYR:CE1	2.51	0.45
1:BH:16:THR:OG1	1:BH:17:ALA:N	2.50	0.45
1:BS:41:LYS:HD2	2:RO:6:U:OP1	2.17	0.45
1:BS:104:ARG:O	1:BS:108:ILE:HG13	2.17	0.45
1:CC:16:THR:OG1	1:CC:17:ALA:N	2.50	0.45
1:CW:41:LYS:HD2	2:RY:6:U:OP1	2.17	0.45
1:CX:55:ARG:HB2	1:DK:96:LEU:HG	1.99	0.45
1:DV:16:THR:OG1	1:DV:17:ALA:N	2.50	0.45
1:DX:104:ARG:O	1:DX:108:ILE:HG13	2.17	0.45
1:EK:99:LEU:HB2	1:ER:8:ILE:HD11	1.98	0.45
1:ET:40:GLY:HA3	1:FG:111:GLY:HA2	1.98	0.45
1:EW:16:THR:OG1	1:EW:17:ALA:N	2.50	0.45
1:FL:16:THR:OG1	1:FL:17:ALA:N	2.50	0.45
1:GK:105:LEU:HD23	1:GK:105:LEU:HA	1.64	0.45
1:GY:16:THR:OG1	1:GY:17:ALA:N	2.50	0.45
1:HI:53:VAL:CG1	1:MM:96:LEU:HD22	2.47	0.45
1:IL:111:GLY:HA2	1:KX:40:GLY:HA3	1.98	0.45
1:JC:104:ARG:O	1:JC:108:ILE:HG13	2.17	0.45
1:JE:86:ALA:HB1	1:JJ:105:LEU:HB2	1.98	0.45
1:JX:40:GLY:HA2	1:NJ:109:LEU:O	2.17	0.45
1:JX:104:ARG:O	1:JX:108:ILE:HG13	2.17	0.45
1:KG:104:ARG:O	1:KG:108:ILE:HG13	2.17	0.45
1:KK:15:PRO:HB3	1:KK:21:TYR:CE1	2.51	0.45
1:KT:15:PRO:HB3	1:KT:21:TYR:CE1	2.51	0.45
1:KT:16:THR:OG1	1:KT:17:ALA:N	2.50	0.45
1:LF:15:PRO:HB3	1:LF:21:TYR:CE1	2.51	0.45
1:LI:8:ILE:HD11	1:LP:99:LEU:HB2	1.98	0.45
1:LS:27:GLY:HA2	1:ME:106:ASP:OD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MP:16:THR:OG1	1:MP:17:ALA:N	2.50	0.45
1:NB:15:PRO:HB3	1:NB:21:TYR:CE1	2.51	0.45
1:NB:16:THR:OG1	1:NB:17:ALA:N	2.50	0.45
1:NM:104:ARG:O	1:NM:108:ILE:HG13	2.17	0.45
1:AF:97:ASN:HD21	1:DR:94:SER:HA	1.81	0.45
1:AQ:111:GLY:HA2	1:FU:40:GLY:HA3	1.99	0.45
1:AS:15:PRO:HB3	1:AS:21:TYR:CE1	2.51	0.45
1:BG:104:ARG:O	1:BG:108:ILE:HG13	2.17	0.45
1:BH:53:VAL:HG12	1:BO:96:LEU:CD2	2.47	0.45
1:BI:105:LEU:HA	1:BI:105:LEU:HD23	1.64	0.45
1:BP:97:ASN:HD21	1:FB:94:SER:HA	1.81	0.45
1:BZ:16:THR:OG1	1:BZ:17:ALA:N	2.50	0.45
1:CB:38:SER:OG	2:RR:7:A:OP1	2.26	0.45
1:CE:104:ARG:O	1:CE:108:ILE:HG13	2.17	0.45
1:CH:104:ARG:O	1:CH:108:ILE:HG13	2.17	0.45
1:DC:94:SER:HA	1:GO:97:ASN:ND2	2.32	0.45
1:DD:16:THR:OG1	1:DD:17:ALA:N	2.50	0.45
1:DL:38:SER:OG	2:SD:7:A:OP1	2.26	0.45
1:DP:16:THR:OG1	1:DP:17:ALA:N	2.50	0.45
1:DV:43:ASN:OD1	1:DV:46:THR:OG1	2.24	0.45
1:EE:15:PRO:HB3	1:EE:21:TYR:CE1	2.51	0.45
1:EG:104:ARG:O	1:EG:108:ILE:HG13	2.17	0.45
1:EI:105:LEU:HA	1:EI:105:LEU:HD23	1.64	0.45
1:FS:55:ARG:CG	1:GP:92:LEU:HD22	2.47	0.45
1:FS:99:LEU:HB2	1:GP:8:ILE:HD11	1.99	0.45
1:GA:16:THR:OG1	1:GA:17:ALA:N	2.50	0.45
1:GS:16:THR:OG1	1:GS:17:ALA:N	2.50	0.45
1:HA:41:LYS:HD2	2:SE:6:U:OP1	2.17	0.45
1:HA:55:ARG:CG	1:KM:92:LEU:HD22	2.47	0.45
1:HB:16:THR:OG1	1:HB:17:ALA:N	2.50	0.45
1:HO:105:LEU:HD23	1:HO:105:LEU:HA	1.64	0.45
1:HT:111:GLY:HA2	1:LD:40:GLY:HA3	1.99	0.45
1:IE:104:ARG:O	1:IE:108:ILE:HG13	2.17	0.45
1:IT:90:ASP:OD2	1:MF:102:PRO:HD3	2.15	0.45
1:JA:99:LEU:HD22	1:NI:35:ILE:HD13	1.98	0.45
1:JP:16:THR:OG1	1:JP:17:ALA:N	2.50	0.45
1:JV:16:THR:OG1	1:JV:17:ALA:N	2.50	0.45
1:KE:16:THR:OG1	1:KE:17:ALA:N	2.50	0.45
1:KK:16:THR:OG1	1:KK:17:ALA:N	2.50	0.45
1:KS:104:ARG:O	1:KS:108:ILE:HG13	2.17	0.45
1:LL:16:THR:OG1	1:LL:17:ALA:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LZ:104:ARG:O	1:LZ:108:ILE:HG13	2.17	0.45
1:MA:16:THR:OG1	1:MA:17:ALA:N	2.50	0.45
1:NG:104:ARG:O	1:NG:108:ILE:HG13	2.17	0.45
1:NK:16:THR:OG1	1:NK:17:ALA:N	2.50	0.45
1:AA:16:THR:OG1	1:AA:17:ALA:N	2.50	0.45
1:AG:16:THR:OG1	1:AG:17:ALA:N	2.50	0.45
1:AI:96:LEU:HD21	1:DU:55:ARG:HB2	1.98	0.45
1:AI:104:ARG:O	1:AI:108:ILE:HG13	2.17	0.45
1:AN:99:LEU:HB2	1:FR:8:ILE:HD11	1.98	0.45
1:AP:109:LEU:O	1:BU:40:GLY:HA2	2.16	0.45
1:AY:53:VAL:HG12	1:EI:96:LEU:HD22	1.99	0.45
1:BD:38:SER:OG	2:RJ:7:A:OP1	2.26	0.45
1:BD:92:LEU:HD22	1:EP:55:ARG:HG2	1.99	0.45
1:BJ:97:ASN:HD21	1:EV:94:SER:HA	1.82	0.45
1:CO:16:THR:OG1	1:CO:17:ALA:N	2.50	0.45
1:FO:16:THR:OG1	1:FO:17:ALA:N	2.50	0.45
1:FX:16:THR:OG1	1:FX:17:ALA:N	2.50	0.45
1:GG:15:PRO:HB3	1:GG:21:TYR:CE1	2.51	0.45
1:HE:83:GLY:HA3	1:ID:61:VAL:HG11	1.99	0.45
1:HH:16:THR:OG1	1:HH:17:ALA:N	2.50	0.45
1:HP:41:LYS:HD2	2:SJ:6:U:OP1	2.17	0.45
1:HT:16:THR:OG1	1:HT:17:ALA:N	2.50	0.45
1:HY:104:ARG:O	1:HY:108:ILE:HG13	2.17	0.45
1:IH:40:GLY:HA2	1:LT:109:LEU:O	2.17	0.45
1:IL:15:PRO:HB3	1:IL:21:TYR:CE1	2.51	0.45
1:IN:104:ARG:O	1:IN:108:ILE:HG13	2.17	0.45
1:JF:41:LYS:HD2	2:SX:6:U:OP1	2.17	0.45
1:JG:16:THR:OG1	1:JG:17:ALA:N	2.50	0.45
1:JL:104:ARG:O	1:JL:108:ILE:HG13	2.17	0.45
1:KN:15:PRO:HB3	1:KN:21:TYR:CE1	2.51	0.45
1:LK:104:ARG:O	1:LK:108:ILE:HG13	2.17	0.45
1:LX:15:PRO:HB3	1:LX:21:TYR:CE1	2.51	0.45
1:MB:99:LEU:HD22	1:MD:35:ILE:HD13	1.99	0.45
1:MB:111:GLY:HA2	1:MD:40:GLY:HA3	1.99	0.45
1:NH:16:THR:OG1	1:NH:17:ALA:N	2.50	0.45
1:NL:105:LEU:HD23	1:NL:105:LEU:HA	1.64	0.45
1:NM:20:TYR:OH	2:TE:28:A:OP1	2.27	0.45
1:AA:94:SER:HA	1:BI:97:ASN:ND2	2.32	0.44
1:AM:16:THR:OG1	1:AM:17:ALA:N	2.50	0.44
1:AR:41:LYS:HD2	2:RF:6:U:OP1	2.17	0.44
1:BM:41:LYS:HD2	2:RM:6:U:OP1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BV:104:ARG:O	1:BV:108:ILE:HG13	2.17	0.44
1:CH:53:VAL:HG12	1:FT:96:LEU:HD22	1.98	0.44
1:CT:104:ARG:O	1:CT:108:ILE:HG13	2.17	0.44
1:CU:15:PRO:HB3	1:CU:21:TYR:CE1	2.51	0.44
1:DC:41:LYS:HD2	2:SA:6:U:OP1	2.17	0.44
1:DJ:16:THR:OG1	1:DJ:17:ALA:N	2.50	0.44
1:DL:41:LYS:HD2	2:SD:6:U:OP1	2.17	0.44
1:DM:15:PRO:HB3	1:DM:21:TYR:CE1	2.51	0.44
1:DM:94:SER:HA	1:GT:97:ASN:ND2	2.31	0.44
1:EB:16:THR:OG1	1:EB:17:ALA:N	2.50	0.44
1:EG:52:ALA:HB2	2:RG:26:A:H4'	1.99	0.44
1:EP:104:ARG:O	1:EP:108:ILE:HG13	2.17	0.44
1:EQ:16:THR:OG1	1:EQ:17:ALA:N	2.50	0.44
1:ET:43:ASN:OD1	1:ET:46:THR:OG1	2.24	0.44
1:ET:111:GLY:HA3	1:FH:16:THR:HB	1.99	0.44
1:FI:16:THR:OG1	1:FI:17:ALA:N	2.50	0.44
1:FS:49:VAL:HG21	1:GP:109:LEU:O	2.16	0.44
1:HC:92:LEU:HD22	1:MY:55:ARG:HG2	1.99	0.44
1:HG:104:ARG:O	1:HG:108:ILE:HG13	2.17	0.44
1:HH:15:PRO:HB3	1:HH:21:TYR:CE1	2.51	0.44
1:HX:111:GLY:HA2	1:LU:40:GLY:HA3	1.98	0.44
1:IA:105:LEU:HA	1:IA:105:LEU:HD23	1.64	0.44
1:IB:109:LEU:O	1:LN:40:GLY:HA2	2.16	0.44
1:II:16:THR:OG1	1:II:17:ALA:N	2.50	0.44
1:IR:16:THR:OG1	1:IR:17:ALA:N	2.50	0.44
1:JH:92:LEU:HD22	1:JM:55:ARG:HG2	1.99	0.44
1:KA:96:LEU:HD22	1:NM:53:VAL:HG12	1.99	0.44
1:KG:109:LEU:O	1:NS:40:GLY:HA2	2.18	0.44
1:KJ:41:LYS:HD2	2:TH:6:U:OP1	2.17	0.44
1:LB:52:ALA:HB2	2:SJ:26:A:H4'	1.99	0.44
1:LB:104:ARG:O	1:LB:108:ILE:HG13	2.17	0.44
1:LH:104:ARG:O	1:LH:108:ILE:HG13	2.17	0.44
1:LU:16:THR:OG1	1:LU:17:ALA:N	2.50	0.44
1:LW:36:LYS:HE3	2:SQ:27:U:OP1	2.17	0.44
1:MM:16:THR:OG1	1:MM:17:ALA:N	2.50	0.44
1:MR:36:LYS:HG2	2:SX:27:U:H5"	1.97	0.44
1:MV:16:THR:OG1	1:MV:17:ALA:N	2.50	0.44
1:NQ:16:THR:OG1	1:NQ:17:ALA:N	2.50	0.44
1:AP:16:THR:OG1	1:AP:17:ALA:N	2.50	0.44
1:BA:41:LYS:HD2	2:RI:6:U:OP1	2.17	0.44
1:BD:104:ARG:O	1:BD:108:ILE:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BP:20:TYR:OH	2:RN:8:U:OP1	2.21	0.44
1:CC:109:LEU:O	1:GK:49:VAL:HG21	2.17	0.44
1:CK:97:ASN:HD21	1:FW:94:SER:HA	1.82	0.44
1:CL:15:PRO:HB3	1:CL:21:TYR:CE1	2.51	0.44
1:CN:104:ARG:O	1:CN:108:ILE:HG13	2.17	0.44
1:CO:15:PRO:HB3	1:CO:21:TYR:CE1	2.51	0.44
1:CX:16:THR:OG1	1:CX:17:ALA:N	2.50	0.44
1:DH:105:LEU:HA	1:DH:105:LEU:HD23	1.64	0.44
1:DI:96:LEU:HD22	1:GU:53:VAL:HG12	1.99	0.44
1:DO:104:ARG:O	1:DO:108:ILE:HG13	2.17	0.44
1:DS:16:THR:OG1	1:DS:17:ALA:N	2.50	0.44
1:EB:15:PRO:HB3	1:EB:21:TYR:CE1	2.51	0.44
1:EK:15:PRO:HB3	1:EK:21:TYR:CE1	2.51	0.44
1:ET:16:THR:OG1	1:ET:17:ALA:N	2.50	0.44
1:FH:104:ARG:O	1:FH:108:ILE:HG13	2.17	0.44
1:FP:35:ILE:HD13	1:GV:99:LEU:HD22	1.98	0.44
1:FP:105:LEU:HD23	1:FP:105:LEU:HA	1.64	0.44
1:FR:16:THR:OG1	1:FR:17:ALA:N	2.50	0.44
1:GB:105:LEU:HA	1:GB:105:LEU:HD23	1.64	0.44
1:GY:99:LEU:HB2	1:IG:8:ILE:HD11	1.98	0.44
1:HA:92:LEU:HD22	1:KM:55:ARG:CG	2.47	0.44
1:HM:41:LYS:HD2	2:SI:6:U:OP1	2.17	0.44
1:HN:94:SER:HA	1:IS:97:ASN:ND2	2.32	0.44
1:HQ:16:THR:OG1	1:HQ:17:ALA:N	2.50	0.44
1:HV:97:ASN:HD21	1:LH:94:SER:HA	1.82	0.44
1:II:15:PRO:HB3	1:II:21:TYR:CE1	2.51	0.44
1:IL:16:THR:OG1	1:IL:17:ALA:N	2.50	0.44
1:IO:15:PRO:HB3	1:IO:21:TYR:CE1	2.51	0.44
1:IT:97:ASN:HD21	1:MF:94:SER:HA	1.81	0.44
1:JB:99:LEU:HB2	1:JP:8:ILE:HD11	1.98	0.44
1:JD:43:ASN:OD1	1:JD:46:THR:OG1	2.24	0.44
1:JO:41:LYS:HD2	2:TA:6:U:OP1	2.17	0.44
1:JR:104:ARG:O	1:JR:108:ILE:HG13	2.17	0.44
1:JT:105:LEU:HA	1:JT:105:LEU:HD23	1.64	0.44
1:KA:104:ARG:O	1:KA:108:ILE:HG13	2.17	0.44
1:KJ:20:TYR:OH	2:TH:8:U:OP1	2.21	0.44
1:KT:99:LEU:HB2	1:NC:8:ILE:HD11	1.99	0.44
1:KW:15:PRO:HB3	1:KW:21:TYR:CE1	2.51	0.44
1:MY:16:THR:OG1	1:MY:17:ALA:N	2.50	0.44
1:AG:43:ASN:OD1	1:AG:46:THR:OG1	2.24	0.44
1:AL:104:ARG:O	1:AL:108:ILE:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:16:THR:OG1	1:AS:17:ALA:N	2.50	0.44
1:AZ:40:GLY:HA3	1:EW:111:GLY:HA2	2.00	0.44
1:BA:102:PRO:HD3	1:EM:90:ASP:OD2	2.18	0.44
1:BJ:38:SER:OG	2:RL:7:A:OP1	2.26	0.44
1:BJ:41:LYS:HD2	2:RL:6:U:OP1	2.17	0.44
1:BW:16:THR:OG1	1:BW:17:ALA:N	2.50	0.44
1:CB:104:ARG:O	1:CB:108:ILE:HG13	2.17	0.44
1:CI:16:THR:OG1	1:CI:17:ALA:N	2.50	0.44
1:CK:104:ARG:O	1:CK:108:ILE:HG13	2.17	0.44
1:EK:16:THR:OG1	1:EK:17:ALA:N	2.50	0.44
1:GC:104:ARG:O	1:GC:108:ILE:HG13	2.17	0.44
1:GM:16:THR:OG1	1:GM:17:ALA:N	2.50	0.44
1:GR:104:ARG:O	1:GR:108:ILE:HG13	2.17	0.44
1:HA:40:GLY:HA2	1:KM:109:LEU:O	2.18	0.44
1:HB:15:PRO:HB3	1:HB:21:TYR:CE1	2.51	0.44
1:HN:16:THR:OG1	1:HN:17:ALA:N	2.50	0.44
1:IB:41:LYS:HD2	2:SN:6:U:OP1	2.17	0.44
1:IE:97:ASN:HD21	1:LQ:94:SER:HA	1.81	0.44
1:IQ:104:ARG:O	1:IQ:108:ILE:HG13	2.17	0.44
1:IU:16:THR:OG1	1:IU:17:ALA:N	2.50	0.44
1:IW:104:ARG:O	1:IW:108:ILE:HG13	2.17	0.44
1:IY:105:LEU:HA	1:IY:105:LEU:HD23	1.64	0.44
1:JS:113:PHE:OXT	1:KF:21:TYR:OH	2.36	0.44
1:KB:16:THR:OG1	1:KB:17:ALA:N	2.50	0.44
1:KV:104:ARG:O	1:KV:108:ILE:HG13	2.17	0.44
1:KW:16:THR:OG1	1:KW:17:ALA:N	2.50	0.44
1:KW:53:VAL:HG12	1:MW:96:LEU:HD22	2.00	0.44
1:LW:104:ARG:O	1:LW:108:ILE:HG13	2.17	0.44
1:LY:106:ASP:OD2	1:MK:27:GLY:HA2	2.16	0.44
1:MG:16:THR:OG1	1:MG:17:ALA:N	2.50	0.44
1:MU:104:ARG:O	1:MU:108:ILE:HG13	2.17	0.44
1:NT:16:THR:OG1	1:NT:17:ALA:N	2.50	0.44
1:AC:41:LYS:HD2	2:RA:6:U:OP1	2.17	0.44
1:AY:15:PRO:HB3	1:AY:21:TYR:CE1	2.51	0.44
1:AY:16:THR:OG1	1:AY:17:ALA:N	2.50	0.44
1:BP:41:LYS:HD2	2:RN:6:U:OP1	2.17	0.44
1:BS:20:TYR:OH	2:RO:8:U:OP1	2.21	0.44
1:CA:27:GLY:HA2	1:DT:106:ASP:OD2	2.17	0.44
1:CF:35:ILE:HD13	1:GN:99:LEU:HD22	2.00	0.44
1:CQ:97:ASN:ND2	1:GC:94:SER:HA	2.32	0.44
1:CV:8:ILE:HD11	1:GM:99:LEU:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CZ:41:LYS:HD2	2:RZ:6:U:OP1	2.17	0.44
1:DI:41:LYS:HD2	2:SC:6:U:OP1	2.17	0.44
1:DR:104:ARG:O	1:DR:108:ILE:HG13	2.17	0.44
1:FU:16:THR:OG1	1:FU:17:ALA:N	2.50	0.44
1:HB:43:ASN:OD1	1:HB:46:THR:OG1	2.24	0.44
1:HP:104:ARG:O	1:HP:108:ILE:HG13	2.17	0.44
1:HV:109:LEU:O	1:LH:40:GLY:HA2	2.17	0.44
1:IH:41:LYS:HD2	2:SP:6:U:OP1	2.17	0.44
1:JZ:92:LEU:HD22	1:NH:55:ARG:HG2	1.99	0.44
1:KM:104:ARG:O	1:KM:108:ILE:HG13	2.17	0.44
1:LB:36:LYS:HE3	2:SJ:27:U:OP1	2.17	0.44
1:NN:16:THR:OG1	1:NN:17:ALA:N	2.50	0.44
1:AF:41:LYS:HD2	2:RB:6:U:OP1	2.17	0.44
1:AR:104:ARG:O	1:AR:108:ILE:HG13	2.17	0.44
1:AT:99:LEU:HB2	1:EZ:8:ILE:HD11	2.00	0.44
1:CX:83:GLY:HA3	1:DK:61:VAL:HG11	2.00	0.44
1:DY:16:THR:OG1	1:DY:17:ALA:N	2.50	0.44
1:FA:99:LEU:HB2	1:FL:8:ILE:HD11	1.99	0.44
1:FI:15:PRO:HB3	1:FI:21:TYR:CE1	2.51	0.44
1:FT:104:ARG:O	1:FT:108:ILE:HG13	2.17	0.44
1:GC:36:LYS:HE3	2:RW:27:U:OP1	2.17	0.44
1:GY:94:SER:HA	1:IG:97:ASN:ND2	2.32	0.44
1:HA:104:ARG:O	1:HA:108:ILE:HG13	2.17	0.44
1:HK:15:PRO:HB3	1:HK:21:TYR:CE1	2.51	0.44
1:HK:16:THR:OG1	1:HK:17:ALA:N	2.50	0.44
1:HS:104:ARG:O	1:HS:108:ILE:HG13	2.17	0.44
1:HU:111:GLY:HA2	1:MA:40:GLY:HA3	2.00	0.44
1:HV:41:LYS:HD2	2:SL:6:U:OP1	2.17	0.44
1:IE:20:TYR:OH	2:SO:8:U:OP1	2.21	0.44
1:IQ:55:ARG:HG2	1:MC:92:LEU:HD22	1.99	0.44
1:JF:104:ARG:O	1:JF:108:ILE:HG13	2.17	0.44
1:JI:40:GLY:HA3	1:MU:111:GLY:HA2	2.00	0.44
1:KJ:104:ARG:O	1:KJ:108:ILE:HG13	2.17	0.44
1:LC:3:PHE:CE1	1:LS:104:ARG:HG2	2.53	0.44
1:LC:43:ASN:OD1	1:LC:46:THR:OG1	2.24	0.44
1:LM:6:LEU:HB2	1:LM:13:PHE:HB2	2.00	0.44
1:LR:16:THR:OG1	1:LR:17:ALA:N	2.50	0.44
1:NI:105:LEU:HD23	1:NI:105:LEU:HA	1.64	0.44
1:AC:20:TYR:OH	2:RA:8:U:OP1	2.21	0.44
1:AH:6:LEU:HB2	1:AH:13:PHE:HB2	2.00	0.44
1:BF:6:LEU:HB2	1:BF:13:PHE:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:104:ARG:O	1:BJ:108:ILE:HG13	2.17	0.44
1:BN:53:VAL:HG12	1:DZ:96:LEU:HD22	1.99	0.44
1:BY:41:LYS:HD2	2:RQ:6:U:OP1	2.17	0.44
1:CA:6:LEU:HB2	1:CA:13:PHE:HB2	2.00	0.44
1:DF:104:ARG:O	1:DF:108:ILE:HG13	2.17	0.44
1:DN:6:LEU:HB2	1:DN:13:PHE:HB2	2.00	0.44
1:EB:43:ASN:OD1	1:EB:46:THR:OG1	2.24	0.44
1:ED:104:ARG:O	1:ED:108:ILE:HG13	2.17	0.44
1:EX:6:LEU:HB2	1:EX:13:PHE:HB2	2.00	0.44
1:EY:104:ARG:O	1:EY:108:ILE:HG13	2.17	0.44
1:FB:52:ALA:HB2	2:RN:26:A:H4'	2.00	0.44
1:FN:104:ARG:O	1:FN:108:ILE:HG13	2.17	0.44
1:GG:16:THR:OG1	1:GG:17:ALA:N	2.50	0.44
1:GT:6:LEU:HB2	1:GT:13:PHE:HB2	2.00	0.44
1:GW:6:LEU:HB2	1:GW:13:PHE:HB2	2.00	0.44
1:GZ:92:LEU:HD22	1:MV:55:ARG:HG2	2.00	0.44
1:HG:41:LYS:HD2	2:SG:6:U:OP1	2.17	0.44
1:HM:104:ARG:O	1:HM:108:ILE:HG13	2.17	0.44
1:HV:20:TYR:OH	2:SL:8:U:OP1	2.21	0.44
1:HW:99:LEU:HD22	1:LG:35:ILE:HD13	2.00	0.44
1:IK:41:LYS:HD2	2:SQ:6:U:OP1	2.17	0.44
1:IK:104:ARG:O	1:IK:108:ILE:HG13	2.17	0.44
1:JB:6:LEU:HB2	1:JB:13:PHE:HB2	2.00	0.44
1:JC:41:LYS:HD2	2:SW:6:U:OP1	2.17	0.44
1:JG:111:GLY:HA3	1:NG:16:THR:HB	1.99	0.44
1:JI:104:ARG:O	1:JI:108:ILE:HG13	2.17	0.44
1:JK:6:LEU:HB2	1:JK:13:PHE:HB2	2.00	0.44
1:JN:97:ASN:HD22	1:KH:97:ASN:HB3	1.82	0.44
1:JN:102:PRO:HD3	1:KH:90:ASP:OD2	2.18	0.44
1:JO:102:PRO:HD3	1:NA:90:ASP:OD2	2.17	0.44
1:JS:16:THR:OG1	1:JS:17:ALA:N	2.50	0.44
1:JW:113:PHE:C	1:NE:21:TYR:HH	2.20	0.44
1:KF:6:LEU:HB2	1:KF:13:PHE:HB2	2.00	0.44
1:KL:6:LEU:HB2	1:KL:13:PHE:HB2	2.00	0.44
1:KZ:16:THR:OG1	1:KZ:17:ALA:N	2.50	0.44
1:LG:6:LEU:HB2	1:LG:13:PHE:HB2	2.00	0.44
1:MD:16:THR:OG1	1:MD:17:ALA:N	2.50	0.44
1:MF:36:LYS:HE3	2:ST:27:U:OP1	2.18	0.44
1:AE:6:LEU:HB2	1:AE:13:PHE:HB2	2.00	0.44
1:BM:104:ARG:O	1:BM:108:ILE:HG13	2.17	0.44
1:BN:16:THR:OG1	1:BN:17:ALA:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:41:LYS:HD2	2:RR:6:U:OP1	2.17	0.44
1:CF:16:THR:OG1	1:CF:17:ALA:N	2.50	0.44
1:CF:99:LEU:HD22	1:GN:35:ILE:HD13	1.98	0.44
1:CK:96:LEU:HD22	1:FW:53:VAL:HG12	2.00	0.44
1:CM:6:LEU:HB2	1:CM:13:PHE:HB2	2.00	0.44
1:EO:6:LEU:HB2	1:EO:13:PHE:HB2	2.00	0.44
1:ER:6:LEU:HB2	1:ER:13:PHE:HB2	2.00	0.44
1:ET:15:PRO:HB3	1:ET:21:TYR:CE1	2.51	0.44
1:EX:105:LEU:HA	1:EX:105:LEU:HD23	1.64	0.44
1:FE:104:ARG:O	1:FE:108:ILE:HG13	2.17	0.44
1:GD:16:THR:OG1	1:GD:17:ALA:N	2.50	0.44
1:GL:104:ARG:O	1:GL:108:ILE:HG13	2.17	0.44
1:GP:16:THR:OG1	1:GP:17:ALA:N	2.50	0.44
1:IP:6:LEU:HB2	1:IP:13:PHE:HB2	2.00	0.44
1:JH:40:GLY:HA3	1:JM:111:GLY:HA2	2.00	0.44
1:JL:16:THR:HB	1:KE:111:GLY:HA3	1.99	0.44
1:JL:41:LYS:HD2	2:SZ:6:U:OP1	2.17	0.44
1:NC:6:LEU:HB2	1:NC:13:PHE:HB2	2.00	0.44
1:AR:97:ASN:ND2	1:ED:94:SER:HA	2.33	0.44
1:AX:41:LYS:HD2	2:RH:6:U:OP1	2.17	0.44
1:AZ:27:GLY:HA2	1:EI:106:ASP:OD2	2.18	0.44
1:BD:41:LYS:HD2	2:RJ:6:U:OP1	2.17	0.44
1:BO:6:LEU:HB2	1:BO:13:PHE:HB2	2.00	0.44
1:CQ:41:LYS:HD2	2:RW:6:U:OP1	2.17	0.44
1:CX:99:LEU:HD22	1:DK:35:ILE:HD13	2.00	0.44
1:CZ:38:SER:OG	2:RZ:7:A:OP1	2.26	0.44
1:CZ:53:VAL:HG12	1:GL:96:LEU:HD22	1.98	0.44
1:CZ:97:ASN:HD21	1:GL:94:SER:HA	1.82	0.44
1:DF:41:LYS:HD2	2:SB:6:U:OP1	2.17	0.44
1:DI:92:LEU:HD22	1:GU:55:ARG:HG2	1.99	0.44
1:GN:6:LEU:HB2	1:GN:13:PHE:HB2	2.00	0.44
1:HJ:41:LYS:HD2	2:SH:6:U:OP1	2.17	0.44
1:HS:41:LYS:HD2	2:SK:6:U:OP1	2.17	0.44
1:HT:40:GLY:HA3	1:LD:111:GLY:HA2	2.00	0.44
1:IN:41:LYS:HD2	2:SR:6:U:OP1	2.17	0.44
1:IQ:97:ASN:ND2	1:MC:94:SER:HA	2.33	0.44
1:IU:97:ASN:ND2	1:KO:94:SER:HA	2.33	0.44
1:JX:41:LYS:HD2	2:TD:6:U:OP1	2.17	0.44
1:KD:41:LYS:HD2	2:TF:6:U:OP1	2.17	0.44
1:KN:16:THR:OG1	1:KN:17:ALA:N	2.50	0.44
1:KR:6:LEU:HB2	1:KR:13:PHE:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:105:LEU:HA	1:LA:105:LEU:HD23	1.64	0.44
1:LE:104:ARG:O	1:LE:108:ILE:HG13	2.17	0.44
1:LQ:104:ARG:O	1:LQ:108:ILE:HG13	2.17	0.44
1:LR:55:ARG:CG	1:ME:92:LEU:HD22	2.48	0.44
1:LT:104:ARG:O	1:LT:108:ILE:HG13	2.17	0.44
1:MO:104:ARG:O	1:MO:108:ILE:HG13	2.17	0.44
1:MQ:6:LEU:HB2	1:MQ:13:PHE:HB2	2.00	0.44
1:MS:16:THR:OG1	1:MS:17:ALA:N	2.50	0.44
1:MZ:6:LEU:HB2	1:MZ:13:PHE:HB2	2.00	0.44
1:NN:15:PRO:HB3	1:NN:21:TYR:CE1	2.51	0.44
1:NS:52:ALA:HB2	2:TG:26:A:H4'	2.00	0.44
1:AB:105:LEU:HD23	1:AB:105:LEU:HA	1.64	0.44
1:AF:92:LEU:HD22	1:DR:55:ARG:CG	2.48	0.44
1:AL:41:LYS:HD2	2:RD:6:U:OP1	2.17	0.44
1:AO:50:THR:HA	1:AO:78:MET:O	2.18	0.44
1:AP:35:ILE:HD13	1:BU:99:LEU:HD22	2.00	0.44
1:BB:16:THR:OG1	1:BB:17:ALA:N	2.50	0.44
1:BH:3:PHE:CD1	1:BO:104:ARG:NH1	2.86	0.44
1:CE:41:LYS:HD2	2:RS:6:U:OP1	2.17	0.44
1:CZ:20:TYR:OH	2:RZ:8:U:OP1	2.21	0.44
1:DK:105:LEU:HD23	1:DK:105:LEU:HA	1.64	0.44
1:DL:104:ARG:O	1:DL:108:ILE:HG13	2.17	0.44
1:DM:99:LEU:HD22	1:GT:35:ILE:HD13	1.99	0.44
1:DZ:6:LEU:HB2	1:DZ:13:PHE:HB2	2.00	0.44
1:EQ:102:PRO:HD3	1:FM:90:ASP:OD2	2.18	0.44
1:EV:104:ARG:O	1:EV:108:ILE:HG13	2.17	0.44
1:FM:6:LEU:HB2	1:FM:13:PHE:HB2	2.00	0.44
1:FW:50:THR:HA	1:FW:78:MET:O	2.18	0.44
1:GX:50:THR:HA	1:GX:78:MET:O	2.18	0.44
1:HE:16:THR:OG1	1:HE:17:ALA:N	2.50	0.44
1:HL:6:LEU:HB2	1:HL:13:PHE:HB2	2.00	0.44
1:HN:40:GLY:HA3	1:IS:111:GLY:HA2	1.99	0.44
1:HQ:15:PRO:HB3	1:HQ:21:TYR:CE1	2.51	0.44
1:HQ:43:ASN:OD1	1:HQ:46:THR:OG1	2.24	0.44
1:II:43:ASN:OD1	1:II:46:THR:OG1	2.24	0.44
1:JC:97:ASN:HD21	1:MO:94:SER:HA	1.83	0.44
1:JE:6:LEU:HB2	1:JE:13:PHE:HB2	2.00	0.44
1:JR:40:GLY:HA2	1:ND:109:LEU:O	2.18	0.44
1:JR:41:LYS:HD2	2:TB:6:U:OP1	2.17	0.44
1:KO:6:LEU:HB2	1:KO:13:PHE:HB2	2.00	0.44
1:LT:77:ILE:HD11	2:SP:26:A:H1'	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ME:6:LEU:HB2	1:ME:13:PHE:HB2	2.00	0.44
1:MI:50:THR:HA	1:MI:78:MET:O	2.18	0.44
1:MI:104:ARG:O	1:MI:108:ILE:HG13	2.17	0.44
1:MW:6:LEU:HB2	1:MW:13:PHE:HB2	2.00	0.44
1:NF:6:LEU:HB2	1:NF:13:PHE:HB2	2.00	0.44
1:NK:43:ASN:OD1	1:NK:46:THR:OG1	2.24	0.44
1:AO:41:LYS:HD2	2:RE:6:U:OP1	2.17	0.43
1:AU:41:LYS:HD2	2:RG:6:U:OP1	2.17	0.43
1:AZ:6:LEU:HB2	1:AZ:13:PHE:HB2	2.00	0.43
1:BA:104:ARG:O	1:BA:108:ILE:HG13	2.17	0.43
1:BG:41:LYS:HD2	2:RK:6:U:OP1	2.17	0.43
1:BG:53:VAL:CG1	1:ES:96:LEU:HD22	2.45	0.43
1:BI:6:LEU:HB2	1:BI:13:PHE:HB2	2.00	0.43
1:BM:20:TYR:OH	2:RM:8:U:OP1	2.21	0.43
1:BQ:104:ARG:HG2	1:EC:3:PHE:CE1	2.52	0.43
1:BY:50:THR:HA	1:BY:78:MET:O	2.18	0.43
1:CB:50:THR:HA	1:CB:78:MET:O	2.18	0.43
1:CE:109:LEU:O	1:FQ:40:GLY:HA2	2.18	0.43
1:CS:6:LEU:HB2	1:CS:13:PHE:HB2	2.00	0.43
1:DI:50:THR:HA	1:DI:78:MET:O	2.18	0.43
1:DK:6:LEU:HB2	1:DK:13:PHE:HB2	2.00	0.43
1:DR:50:THR:HA	1:DR:78:MET:O	2.18	0.43
1:DS:40:GLY:HA3	1:GQ:111:GLY:HA2	2.00	0.43
1:DX:50:THR:HA	1:DX:78:MET:O	2.18	0.43
1:EM:52:ALA:CB	2:RI:26:A:H4'	2.45	0.43
1:FS:3:PHE:CD1	1:GP:104:ARG:NH1	2.86	0.43
1:GE:6:LEU:HB2	1:GE:13:PHE:HB2	2.00	0.43
1:GH:6:LEU:HB2	1:GH:13:PHE:HB2	2.00	0.43
1:GI:50:THR:HA	1:GI:78:MET:O	2.18	0.43
1:GK:6:LEU:HB2	1:GK:13:PHE:HB2	2.00	0.43
1:IB:50:THR:HA	1:IB:78:MET:O	2.18	0.43
1:IC:109:LEU:O	1:IJ:40:GLY:HA2	2.18	0.43
1:IH:105:LEU:HD23	1:IH:105:LEU:HA	1.93	0.43
1:IT:50:THR:HA	1:IT:78:MET:O	2.18	0.43
1:JC:55:ARG:HG2	1:MO:92:LEU:HD22	1.99	0.43
1:JI:41:LYS:HD2	2:SY:6:U:OP1	2.17	0.43
1:JR:50:THR:HA	1:JR:78:MET:O	2.18	0.43
1:KA:41:LYS:HD2	2:TE:6:U:OP1	2.17	0.43
1:KD:50:THR:HA	1:KD:78:MET:O	2.18	0.43
1:LP:6:LEU:HB2	1:LP:13:PHE:HB2	2.00	0.43
1:LS:6:LEU:HB2	1:LS:13:PHE:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LY:105:LEU:HD23	1:LY:105:LEU:HA	1.64	0.43
1:MN:6:LEU:HB2	1:MN:13:PHE:HB2	2.00	0.43
1:MR:104:ARG:O	1:MR:108:ILE:HG13	2.17	0.43
1:MT:106:ASP:OD2	1:NR:27:GLY:HA2	2.18	0.43
1:NP:50:THR:HA	1:NP:78:MET:O	2.18	0.43
1:NT:43:ASN:OD1	1:NT:46:THR:OG1	2.24	0.43
1:AA:109:LEU:O	1:BI:40:GLY:HA2	2.17	0.43
1:AI:16:THR:HB	1:GD:111:GLY:HA3	1.99	0.43
1:AN:6:LEU:HB2	1:AN:13:PHE:HB2	2.00	0.43
1:AX:97:ASN:ND2	1:EJ:94:SER:HA	2.32	0.43
1:BH:43:ASN:OD1	1:BH:46:THR:OG1	2.24	0.43
1:BL:6:LEU:HB2	1:BL:13:PHE:HB2	2.00	0.43
1:BV:40:GLY:HA3	1:FH:111:GLY:HA2	2.00	0.43
1:CK:41:LYS:HD2	2:RU:6:U:OP1	2.17	0.43
1:CW:104:ARG:O	1:CW:108:ILE:HG13	2.17	0.43
1:CZ:96:LEU:HD22	1:GL:53:VAL:HG12	2.00	0.43
1:DQ:6:LEU:HB2	1:DQ:13:PHE:HB2	2.00	0.43
1:FD:6:LEU:HB2	1:FD:13:PHE:HB2	2.00	0.43
1:FK:50:THR:HA	1:FK:78:MET:O	2.18	0.43
1:FW:104:ARG:O	1:FW:108:ILE:HG13	2.17	0.43
1:GZ:6:LEU:HB2	1:GZ:13:PHE:HB2	2.00	0.43
1:HN:99:LEU:HD22	1:IS:35:ILE:HD13	1.99	0.43
1:IF:16:THR:OG1	1:IF:17:ALA:N	2.50	0.43
1:JC:50:THR:HA	1:JC:78:MET:O	2.18	0.43
1:KI:6:LEU:HB2	1:KI:13:PHE:HB2	2.00	0.43
1:KM:50:THR:HA	1:KM:78:MET:O	2.18	0.43
1:KP:50:THR:HA	1:KP:78:MET:O	2.18	0.43
1:LB:105:LEU:HD23	1:LB:105:LEU:HA	1.93	0.43
1:MK:6:LEU:HB2	1:MK:13:PHE:HB2	2.00	0.43
1:MR:50:THR:HA	1:MR:78:MET:O	2.18	0.43
1:NA:50:THR:HA	1:NA:78:MET:O	2.18	0.43
1:AF:50:THR:HA	1:AF:78:MET:O	2.18	0.43
1:AR:21:TYR:OH	1:ED:113:PHE:OXT	2.35	0.43
1:BG:50:THR:HA	1:BG:78:MET:O	2.18	0.43
1:CD:6:LEU:HB2	1:CD:13:PHE:HB2	2.00	0.43
1:CD:99:LEU:HB2	1:CR:8:ILE:HD11	2.00	0.43
1:CN:41:LYS:HD2	2:RV:6:U:OP1	2.17	0.43
1:DA:111:GLY:HA2	1:DE:40:GLY:HA3	2.00	0.43
1:DC:50:THR:HA	1:DC:78:MET:O	2.18	0.43
1:DF:94:SER:HA	1:GR:97:ASN:HD21	1.83	0.43
1:EA:50:THR:HA	1:EA:78:MET:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EF:6:LEU:HB2	1:EF:13:PHE:HB2	2.00	0.43
1:ES:50:THR:HA	1:ES:78:MET:O	2.19	0.43
1:EY:50:THR:HA	1:EY:78:MET:O	2.18	0.43
1:GO:50:THR:HA	1:GO:78:MET:O	2.18	0.43
1:HK:94:SER:HA	1:IY:97:ASN:ND2	2.32	0.43
1:HP:50:THR:HA	1:HP:78:MET:O	2.18	0.43
1:HP:96:LEU:HD22	1:LB:53:VAL:HG12	1.99	0.43
1:HS:94:SER:HA	1:LE:97:ASN:ND2	2.33	0.43
1:IS:6:LEU:HB2	1:IS:13:PHE:HB2	2.00	0.43
1:IT:41:LYS:HD2	2:ST:6:U:OP1	2.17	0.43
1:IW:41:LYS:HD2	2:SU:6:U:OP1	2.17	0.43
1:JF:20:TYR:OH	2:SX:8:U:OP1	2.21	0.43
1:JO:50:THR:HA	1:JO:78:MET:O	2.18	0.43
1:JT:6:LEU:HB2	1:JT:13:PHE:HB2	2.00	0.43
1:JW:6:LEU:HB2	1:JW:13:PHE:HB2	2.00	0.43
1:KA:50:THR:HA	1:KA:78:MET:O	2.18	0.43
1:KD:38:SER:OG	2:TF:7:A:OP1	2.26	0.43
1:KW:40:GLY:HA2	1:MW:109:LEU:O	2.18	0.43
1:LD:6:LEU:HB2	1:LD:13:PHE:HB2	2.00	0.43
1:LL:113:PHE:OXT	1:MH:21:TYR:OH	2.34	0.43
1:LY:6:LEU:HB2	1:LY:13:PHE:HB2	2.00	0.43
1:MT:109:LEU:O	1:NQ:40:GLY:HA2	2.18	0.43
1:MX:50:THR:HA	1:MX:78:MET:O	2.18	0.43
1:ND:50:THR:HA	1:ND:78:MET:O	2.18	0.43
1:NM:50:THR:HA	1:NM:78:MET:O	2.19	0.43
1:AL:50:THR:HA	1:AL:78:MET:O	2.18	0.43
1:AT:109:LEU:O	1:EZ:40:GLY:HA2	2.18	0.43
1:AW:6:LEU:HB2	1:AW:13:PHE:HB2	2.00	0.43
1:AX:38:SER:OG	2:RH:7:A:OP1	2.26	0.43
1:AX:50:THR:HA	1:AX:78:MET:O	2.18	0.43
1:BE:27:GLY:HA2	1:ES:106:ASP:OD2	2.19	0.43
1:BP:104:ARG:O	1:BP:108:ILE:HG13	2.17	0.43
1:CE:50:THR:HA	1:CE:78:MET:O	2.18	0.43
1:CS:97:ASN:ND2	1:DD:94:SER:HA	2.34	0.43
1:DF:50:THR:HA	1:DF:78:MET:O	2.18	0.43
1:EZ:16:THR:OG1	1:EZ:17:ALA:N	2.50	0.43
1:FA:53:VAL:HG12	1:FL:96:LEU:HD22	1.98	0.43
1:FH:50:THR:HA	1:FH:78:MET:O	2.18	0.43
1:FH:105:LEU:HD23	1:FH:105:LEU:HA	1.93	0.43
1:FV:6:LEU:HB2	1:FV:13:PHE:HB2	2.00	0.43
1:GO:105:LEU:HD23	1:GO:105:LEU:HA	1.93	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HD:96:LEU:HD22	1:KP:53:VAL:HG12	1.99	0.43
1:HM:50:THR:HA	1:HM:78:MET:O	2.18	0.43
1:HO:6:LEU:HB2	1:HO:13:PHE:HB2	2.00	0.43
1:IQ:50:THR:HA	1:IQ:78:MET:O	2.18	0.43
1:IR:99:LEU:HD22	1:KL:35:ILE:HD13	2.00	0.43
1:JL:50:THR:HA	1:JL:78:MET:O	2.18	0.43
1:JN:99:LEU:HD22	1:KH:35:ILE:HD13	1.99	0.43
1:JQ:6:LEU:HB2	1:JQ:13:PHE:HB2	2.00	0.43
1:JX:50:THR:HA	1:JX:78:MET:O	2.18	0.43
1:KG:50:THR:HA	1:KG:78:MET:O	2.18	0.43
1:LF:53:VAL:HG12	1:LM:96:LEU:CD2	2.48	0.43
1:LO:40:GLY:HA3	1:MK:111:GLY:HA2	1.99	0.43
1:LR:53:VAL:HG12	1:ME:96:LEU:HD22	2.00	0.43
1:MF:50:THR:HA	1:MF:78:MET:O	2.18	0.43
1:NM:38:SER:OG	2:TE:27:U:OP1	2.34	0.43
1:AS:92:LEU:HD22	1:EL:55:ARG:CG	2.48	0.43
1:AU:50:THR:HA	1:AU:78:MET:O	2.18	0.43
1:BH:94:SER:HA	1:BO:97:ASN:ND2	2.32	0.43
1:BM:50:THR:HA	1:BM:78:MET:O	2.18	0.43
1:BN:92:LEU:HD22	1:DZ:55:ARG:HG2	1.97	0.43
1:BP:50:THR:HA	1:BP:78:MET:O	2.18	0.43
1:CK:50:THR:HA	1:CK:78:MET:O	2.18	0.43
1:CN:50:THR:HA	1:CN:78:MET:O	2.18	0.43
1:DB:6:LEU:HB2	1:DB:13:PHE:HB2	2.00	0.43
1:DP:109:LEU:O	1:GW:40:GLY:HA2	2.18	0.43
1:DT:6:LEU:HB2	1:DT:13:PHE:HB2	2.00	0.43
1:DY:35:ILE:HD13	1:FY:99:LEU:HD22	1.99	0.43
1:EJ:50:THR:HA	1:EJ:78:MET:O	2.18	0.43
1:EV:50:THR:HA	1:EV:78:MET:O	2.18	0.43
1:FD:105:LEU:HD23	1:FD:105:LEU:HA	1.64	0.43
1:FS:6:LEU:HB2	1:FS:13:PHE:HB2	2.00	0.43
1:FT:50:THR:HA	1:FT:78:MET:O	2.18	0.43
1:FZ:50:THR:HA	1:FZ:78:MET:O	2.18	0.43
1:HC:6:LEU:HB2	1:HC:13:PHE:HB2	2.00	0.43
1:HO:53:VAL:CG1	1:MS:96:LEU:HD22	2.48	0.43
1:HS:50:THR:HA	1:HS:78:MET:O	2.18	0.43
1:IZ:50:THR:HA	1:IZ:78:MET:O	2.18	0.43
1:IZ:53:VAL:HG12	1:ML:96:LEU:HD22	2.00	0.43
1:JA:113:PHE:OXT	1:NI:21:TYR:OH	2.36	0.43
1:JC:105:LEU:HD23	1:JC:105:LEU:HA	1.93	0.43
1:JE:92:LEU:HD22	1:JJ:55:ARG:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:105:LEU:HD23	1:JE:105:LEU:HA	1.64	0.43
1:JI:50:THR:HA	1:JI:78:MET:O	2.18	0.43
1:JT:99:LEU:HB2	1:NK:8:ILE:HD11	2.01	0.43
1:KC:6:LEU:HB2	1:KC:13:PHE:HB2	2.00	0.43
1:KU:105:LEU:HD23	1:KU:105:LEU:HA	1.64	0.43
1:KX:6:LEU:HB2	1:KX:13:PHE:HB2	2.00	0.43
1:LB:41:LYS:HD2	2:SJ:26:A:OP1	2.18	0.43
1:LB:50:THR:HA	1:LB:78:MET:O	2.18	0.43
1:LC:94:SER:HA	1:LS:97:ASN:HD21	1.83	0.43
1:MC:50:THR:HA	1:MC:78:MET:O	2.18	0.43
1:ME:105:LEU:HD23	1:ME:105:LEU:HA	1.64	0.43
1:MH:6:LEU:HB2	1:MH:13:PHE:HB2	2.00	0.43
1:ML:50:THR:HA	1:ML:78:MET:O	2.18	0.43
1:MT:6:LEU:HB2	1:MT:13:PHE:HB2	2.00	0.43
1:NE:43:ASN:OD1	1:NE:46:THR:OG1	2.24	0.43
1:NR:6:LEU:HB2	1:NR:13:PHE:HB2	2.00	0.43
1:NV:50:THR:HA	1:NV:78:MET:O	2.18	0.43
1:AB:6:LEU:HB2	1:AB:13:PHE:HB2	2.00	0.43
1:AS:109:LEU:O	1:EL:49:VAL:HG21	2.19	0.43
1:AU:96:LEU:HD22	1:EG:53:VAL:HG12	2.00	0.43
1:AZ:55:ARG:HG3	1:EW:92:LEU:HD22	2.00	0.43
1:BA:50:THR:HA	1:BA:78:MET:O	2.18	0.43
1:BD:50:THR:HA	1:BD:78:MET:O	2.18	0.43
1:BJ:96:LEU:HD22	1:EV:53:VAL:HG12	2.01	0.43
1:BN:53:VAL:HG12	1:DZ:96:LEU:CD2	2.49	0.43
1:BV:41:LYS:HD2	2:RP:6:U:OP1	2.17	0.43
1:BZ:111:GLY:HA3	1:DU:16:THR:HB	2.01	0.43
1:CE:37:ILE:HG23	1:FQ:108:ILE:HD13	2.01	0.43
1:CJ:92:LEU:HD22	1:CO:55:ARG:HG2	1.99	0.43
1:CT:111:GLY:HA2	1:GF:40:GLY:HA3	2.01	0.43
1:CV:6:LEU:HB2	1:CV:13:PHE:HB2	2.00	0.43
1:CW:94:SER:HA	1:GI:97:ASN:HD21	1.83	0.43
1:DA:53:VAL:HG12	1:DE:96:LEU:HD22	2.00	0.43
1:EB:111:GLY:HA3	1:GC:16:THR:HB	1.99	0.43
1:EF:105:LEU:HD23	1:EF:105:LEU:HA	1.64	0.43
1:EP:50:THR:HA	1:EP:78:MET:O	2.18	0.43
1:EQ:97:ASN:HB3	1:FM:97:ASN:HD22	1.83	0.43
1:EQ:99:LEU:HB2	1:FM:8:ILE:HD11	2.00	0.43
1:EX:99:LEU:HD22	1:FI:35:ILE:HD13	1.99	0.43
1:GL:50:THR:HA	1:GL:78:MET:O	2.18	0.43
1:GQ:6:LEU:HB2	1:GQ:13:PHE:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HA:106:ASP:OD2	1:KK:27:GLY:HA2	2.18	0.43
1:HD:104:ARG:O	1:HD:108:ILE:HG13	2.17	0.43
1:HG:50:THR:HA	1:HG:78:MET:O	2.18	0.43
1:HM:97:ASN:HD21	1:KY:94:SER:HA	1.81	0.43
1:HU:6:LEU:HB2	1:HU:13:PHE:HB2	2.00	0.43
1:HX:6:LEU:HB2	1:HX:13:PHE:HB2	2.00	0.43
1:HY:50:THR:HA	1:HY:78:MET:O	2.18	0.43
1:IH:50:THR:HA	1:IH:78:MET:O	2.18	0.43
1:IL:97:ASN:ND2	1:KX:94:SER:HA	2.33	0.43
1:IN:50:THR:HA	1:IN:78:MET:O	2.18	0.43
1:IQ:41:LYS:HD2	2:SS:6:U:OP1	2.17	0.43
1:JF:50:THR:HA	1:JF:78:MET:O	2.19	0.43
1:JF:90:ASP:OD2	1:MR:102:PRO:HD3	2.19	0.43
1:JI:53:VAL:HG12	1:MU:96:LEU:HD22	2.01	0.43
1:JO:90:ASP:OD2	1:NA:102:PRO:HD3	2.19	0.43
1:KS:50:THR:HA	1:KS:78:MET:O	2.18	0.43
1:LK:50:THR:HA	1:LK:78:MET:O	2.18	0.43
1:LT:50:THR:HA	1:LT:78:MET:O	2.18	0.43
1:LU:43:ASN:OD1	1:LU:46:THR:OG1	2.24	0.43
1:LW:50:THR:HA	1:LW:78:MET:O	2.18	0.43
1:MQ:105:LEU:HA	1:MQ:105:LEU:HD23	1.64	0.43
1:NA:105:LEU:HD23	1:NA:105:LEU:HA	1.93	0.43
1:NG:105:LEU:HD23	1:NG:105:LEU:HA	1.93	0.43
1:AI:50:THR:HA	1:AI:78:MET:O	2.18	0.43
1:AY:55:ARG:HG2	1:EI:92:LEU:HD22	2.00	0.43
1:AZ:96:LEU:HD13	1:EW:76:ILE:CD1	2.49	0.43
1:BH:99:LEU:HB2	1:BO:8:ILE:HD11	2.00	0.43
1:BS:50:THR:HA	1:BS:78:MET:O	2.18	0.43
1:BU:6:LEU:HB2	1:BU:13:PHE:HB2	2.00	0.43
1:BX:6:LEU:HB2	1:BX:13:PHE:HB2	2.00	0.43
1:CP:70:SER:OG	1:DJ:82:ARG:O	2.34	0.43
1:CW:94:SER:HA	1:GI:97:ASN:ND2	2.33	0.43
1:CY:6:LEU:HB2	1:CY:13:PHE:HB2	2.00	0.43
1:CZ:50:THR:HA	1:CZ:78:MET:O	2.18	0.43
1:DE:6:LEU:HB2	1:DE:13:PHE:HB2	2.00	0.43
1:DY:111:GLY:HA2	1:FY:40:GLY:HA3	2.00	0.43
1:DZ:105:LEU:HA	1:DZ:105:LEU:HD23	1.64	0.43
1:EL:6:LEU:HB2	1:EL:13:PHE:HB2	2.00	0.43
1:FB:50:THR:HA	1:FB:78:MET:O	2.18	0.43
1:FD:99:LEU:HB2	1:FF:8:ILE:HD11	2.00	0.43
1:FE:50:THR:HA	1:FE:78:MET:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FG:105:LEU:HA	1:FG:105:LEU:HD23	1.64	0.43
1:FN:50:THR:HA	1:FN:78:MET:O	2.18	0.43
1:FP:8:ILE:HD11	1:GV:99:LEU:HB2	1.99	0.43
1:FQ:50:THR:HA	1:FQ:78:MET:O	2.18	0.43
1:FV:40:GLY:HA3	1:GS:111:GLY:HA2	2.00	0.43
1:GX:105:LEU:HD23	1:GX:105:LEU:HA	1.93	0.43
1:GZ:94:SER:HA	1:MV:97:ASN:ND2	2.32	0.43
1:HA:50:THR:HA	1:HA:78:MET:O	2.18	0.43
1:HA:99:LEU:HD11	1:KM:6:LEU:HD22	2.01	0.43
1:HD:50:THR:HA	1:HD:78:MET:O	2.18	0.43
1:HJ:50:THR:HA	1:HJ:78:MET:O	2.18	0.43
1:HR:94:SER:HA	1:LX:97:ASN:ND2	2.34	0.43
1:HY:41:LYS:HD2	2:SM:6:U:OP1	2.17	0.43
1:IE:50:THR:HA	1:IE:78:MET:O	2.18	0.43
1:IM:6:LEU:HB2	1:IM:13:PHE:HB2	2.00	0.43
1:IN:96:LEU:HD22	1:LZ:53:VAL:HG12	2.01	0.43
1:IW:50:THR:HA	1:IW:78:MET:O	2.18	0.43
1:JN:6:LEU:HB2	1:JN:13:PHE:HB2	2.00	0.43
1:KJ:50:THR:HA	1:KJ:78:MET:O	2.18	0.43
1:LQ:50:THR:HA	1:LQ:78:MET:O	2.18	0.43
1:MN:74:VAL:HG22	1:NT:78:MET:HG2	2.01	0.43
1:NI:6:LEU:HB2	1:NI:13:PHE:HB2	2.00	0.43
1:NJ:50:THR:HA	1:NJ:78:MET:O	2.18	0.43
1:AD:111:GLY:HA2	1:BC:40:GLY:HA3	2.00	0.43
1:AM:35:ILE:HD13	1:CA:99:LEU:HD22	2.00	0.43
1:AR:50:THR:HA	1:AR:78:MET:O	2.18	0.43
1:AZ:92:LEU:HD22	1:EW:55:ARG:HG2	2.01	0.43
1:BB:43:ASN:OD1	1:BB:46:THR:OG1	2.24	0.43
1:BV:50:THR:HA	1:BV:78:MET:O	2.18	0.43
1:CH:50:THR:HA	1:CH:78:MET:O	2.19	0.43
1:CS:105:LEU:HA	1:CS:105:LEU:HD23	1.64	0.43
1:CW:50:THR:HA	1:CW:78:MET:O	2.18	0.43
1:DV:40:GLY:HA3	1:GE:111:GLY:HA2	2.01	0.43
1:FN:41:LYS:HD2	2:RR:26:A:OP1	2.19	0.43
1:FP:6:LEU:HB2	1:FP:13:PHE:HB2	2.00	0.43
1:GR:50:THR:HA	1:GR:78:MET:O	2.18	0.43
1:HE:43:ASN:OD1	1:HE:46:THR:OG1	2.24	0.43
1:HU:105:LEU:HD23	1:HU:105:LEU:HA	1.64	0.43
1:ID:6:LEU:HB2	1:ID:13:PHE:HB2	2.00	0.43
1:JH:6:LEU:HB2	1:JH:13:PHE:HB2	2.00	0.43
1:KQ:40:GLY:HA2	1:NO:109:LEU:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KV:50:THR:HA	1:KV:78:MET:O	2.18	0.43
1:LR:77:ILE:HD12	1:ME:77:ILE:HD12	2.00	0.43
1:MR:20:TYR:OH	2:SX:28:A:P	2.77	0.43
1:AJ:99:LEU:HD22	1:BX:35:ILE:HD13	2.01	0.43
1:BH:3:PHE:CE1	1:BO:104:ARG:HG2	2.54	0.43
1:BQ:109:LEU:O	1:EC:49:VAL:HG21	2.18	0.43
1:BR:6:LEU:HB2	1:BR:13:PHE:HB2	2.00	0.43
1:CH:16:THR:HB	1:CL:111:GLY:HA3	1.99	0.43
1:CQ:50:THR:HA	1:CQ:78:MET:O	2.18	0.43
1:CS:35:ILE:HD13	1:DD:99:LEU:HD22	1.99	0.43
1:CU:40:GLY:HA3	1:DH:111:GLY:HA2	2.01	0.43
1:CX:43:ASN:OD1	1:CX:46:THR:OG1	2.24	0.43
1:DB:21:TYR:OH	1:GJ:113:PHE:OXT	2.31	0.43
1:DB:99:LEU:HD22	1:GJ:35:ILE:HD13	2.00	0.43
1:DC:97:ASN:HD21	1:GO:94:SER:HA	1.83	0.43
1:DH:6:LEU:HB2	1:DH:13:PHE:HB2	2.00	0.43
1:DN:105:LEU:HD23	1:DN:105:LEU:HA	1.64	0.43
1:DU:50:THR:HA	1:DU:78:MET:O	2.18	0.43
1:EX:110:GLN:HE21	1:FJ:28:PHE:HA	1.83	0.43
1:FJ:6:LEU:HB2	1:FJ:13:PHE:HB2	2.00	0.43
1:GC:50:THR:HA	1:GC:78:MET:O	2.18	0.43
1:HF:28:PHE:HB3	1:ID:106:ASP:OD1	2.18	0.43
1:HO:49:VAL:HG21	1:MS:109:LEU:O	2.19	0.43
1:HX:53:VAL:HG12	1:LU:96:LEU:HD22	2.01	0.43
1:IB:53:VAL:HG12	1:LN:96:LEU:HD22	2.01	0.43
1:II:92:LEU:HD22	1:KU:55:ARG:CG	2.49	0.43
1:IR:40:GLY:HA3	1:KL:111:GLY:HA2	2.00	0.43
1:IY:6:LEU:HB2	1:IY:13:PHE:HB2	2.00	0.43
1:JU:50:THR:HA	1:JU:78:MET:O	2.18	0.43
1:JX:53:VAL:HG12	1:NJ:96:LEU:HD22	2.01	0.43
1:KJ:55:ARG:CG	1:NV:92:LEU:HD22	2.48	0.43
1:KK:99:LEU:HB2	1:NR:8:ILE:HD11	2.01	0.43
1:KU:6:LEU:HB2	1:KU:13:PHE:HB2	2.00	0.43
1:LW:16:THR:HB	1:MG:111:GLY:HA3	2.00	0.43
1:MU:50:THR:HA	1:MU:78:MET:O	2.18	0.43
1:NL:6:LEU:HB2	1:NL:13:PHE:HB2	2.00	0.43
1:NO:6:LEU:HB2	1:NO:13:PHE:HB2	2.00	0.43
1:NU:6:LEU:HB2	1:NU:13:PHE:HB2	2.00	0.43
1:AB:94:SER:HA	1:FX:97:ASN:ND2	2.34	0.43
1:AJ:99:LEU:HB2	1:BX:8:ILE:HD11	1.99	0.43
1:AO:40:GLY:HA2	1:EA:109:LEU:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:6:LEU:HB2	1:AT:13:PHE:HB2	2.00	0.43
1:CY:99:LEU:HD22	1:GG:35:ILE:HD13	2.01	0.43
1:DC:97:ASN:ND2	1:GO:94:SER:HA	2.34	0.43
1:DL:50:THR:HA	1:DL:78:MET:O	2.18	0.43
1:DO:50:THR:HA	1:DO:78:MET:O	2.18	0.43
1:DW:6:LEU:HB2	1:DW:13:PHE:HB2	2.00	0.43
1:EI:6:LEU:HB2	1:EI:13:PHE:HB2	2.00	0.43
1:ER:105:LEU:HA	1:ER:105:LEU:HD23	1.64	0.43
1:IA:6:LEU:HB2	1:IA:13:PHE:HB2	2.00	0.43
1:II:8:ILE:HD11	1:KU:99:LEU:HB2	2.01	0.43
1:IZ:37:ILE:HG23	1:ML:108:ILE:HD13	2.01	0.43
1:LO:111:GLY:HA3	1:ML:16:THR:HB	2.01	0.43
1:ML:52:ALA:HB2	2:SV:26:A:H4'	2.01	0.43
1:MO:50:THR:HA	1:MO:78:MET:O	2.18	0.43
1:NS:50:THR:HA	1:NS:78:MET:O	2.18	0.43
1:CG:99:LEU:HB2	1:CL:8:ILE:HD11	2.01	0.42
1:CR:43:ASN:OD1	1:CR:46:THR:OG1	2.24	0.42
1:CT:105:LEU:HD23	1:CT:105:LEU:HA	1.93	0.42
1:EV:20:TYR:OH	2:RL:28:A:OP1	2.24	0.42
1:EY:105:LEU:HD23	1:EY:105:LEU:HA	1.93	0.42
1:FA:6:LEU:HB2	1:FA:13:PHE:HB2	2.00	0.42
1:GB:6:LEU:HB2	1:GB:13:PHE:HB2	2.00	0.42
1:GF:50:THR:HA	1:GF:78:MET:O	2.18	0.42
1:HB:8:ILE:HD11	1:IA:99:LEU:HB2	2.00	0.42
1:HF:6:LEU:HB2	1:HF:13:PHE:HB2	2.00	0.42
1:HM:94:SER:HA	1:KY:97:ASN:HD21	1.84	0.42
1:HR:105:LEU:HD23	1:HR:105:LEU:HA	1.64	0.42
1:IO:89:ALA:HB3	1:LA:105:LEU:HD13	2.01	0.42
1:IR:35:ILE:HD13	1:KL:99:LEU:HD22	2.01	0.42
1:IR:99:LEU:HB2	1:KL:8:ILE:HD11	2.00	0.42
1:JI:94:SER:HA	1:MU:97:ASN:ND2	2.34	0.42
1:KD:96:LEU:HD21	1:NP:55:ARG:HB2	2.00	0.42
1:KJ:77:ILE:HD12	1:NV:77:ILE:HD12	2.01	0.42
1:NG:20:TYR:OH	2:TC:28:A:OP1	2.34	0.42
1:AP:43:ASN:OD1	1:AP:46:THR:OG1	2.24	0.42
1:AT:40:GLY:HA3	1:EZ:111:GLY:HA2	2.00	0.42
1:AU:40:GLY:HA2	1:EG:109:LEU:O	2.20	0.42
1:BC:6:LEU:HB2	1:BC:13:PHE:HB2	2.00	0.42
1:BN:99:LEU:HD11	1:DZ:6:LEU:HD22	2.00	0.42
1:BQ:107:GLN:CD	1:ED:14:ILE:HD13	2.39	0.42
1:CZ:55:ARG:HG2	1:GL:92:LEU:HD22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EU:105:LEU:HD23	1:EU:105:LEU:HA	1.64	0.42
1:HM:92:LEU:HD22	1:KY:55:ARG:CG	2.49	0.42
1:HO:6:LEU:HD22	1:MS:99:LEU:HD11	2.00	0.42
1:JK:99:LEU:HB2	1:KE:8:ILE:HD11	2.02	0.42
1:JQ:105:LEU:HD23	1:JQ:105:LEU:HA	1.64	0.42
1:KJ:97:ASN:HD21	1:NV:94:SER:HA	1.84	0.42
1:KY:50:THR:HA	1:KY:78:MET:O	2.18	0.42
1:LA:6:LEU:HB2	1:LA:13:PHE:HB2	2.00	0.42
1:LH:50:THR:HA	1:LH:78:MET:O	2.18	0.42
1:LO:99:LEU:HD22	1:MK:35:ILE:HD13	2.01	0.42
1:LV:21:TYR:OH	1:MG:113:PHE:OXT	2.35	0.42
1:LZ:50:THR:HA	1:LZ:78:MET:O	2.18	0.42
1:MQ:40:GLY:HA3	1:NN:111:GLY:HA2	2.01	0.42
1:AH:35:ILE:HD13	1:GD:99:LEU:HD22	2.00	0.42
1:AP:96:LEU:HD22	1:BU:53:VAL:HG12	2.01	0.42
1:AS:8:ILE:HD11	1:EL:99:LEU:HB2	2.00	0.42
1:BE:109:LEU:O	1:BL:40:GLY:HA2	2.19	0.42
1:CD:94:SER:HA	1:CR:97:ASN:ND2	2.34	0.42
1:CG:6:LEU:HB2	1:CG:13:PHE:HB2	2.00	0.42
1:CI:96:LEU:HD22	1:GH:53:VAL:HG12	2.01	0.42
1:CP:6:LEU:HB2	1:CP:13:PHE:HB2	2.00	0.42
1:DQ:105:LEU:HD23	1:DQ:105:LEU:HA	1.64	0.42
1:EC:6:LEU:HB2	1:EC:13:PHE:HB2	2.00	0.42
1:ED:50:THR:HA	1:ED:78:MET:O	2.18	0.42
1:FG:6:LEU:HB2	1:FG:13:PHE:HB2	2.00	0.42
1:GU:50:THR:HA	1:GU:78:MET:O	2.18	0.42
1:HQ:40:GLY:HA3	1:LJ:111:GLY:HA2	2.00	0.42
1:HW:40:GLY:HA3	1:LG:111:GLY:HA2	2.01	0.42
1:IG:6:LEU:HB2	1:IG:13:PHE:HB2	2.00	0.42
1:IJ:6:LEU:HB2	1:IJ:13:PHE:HB2	2.00	0.42
1:IV:6:LEU:HB2	1:IV:13:PHE:HB2	2.00	0.42
1:LI:111:GLY:HA3	1:LQ:16:THR:HB	2.01	0.42
1:MJ:43:ASN:OD1	1:MJ:46:THR:OG1	2.24	0.42
1:MW:105:LEU:HA	1:MW:105:LEU:HD23	1.64	0.42
1:NG:50:THR:HA	1:NG:78:MET:O	2.18	0.42
1:AC:50:THR:HA	1:AC:78:MET:O	2.18	0.42
1:AL:37:ILE:HG23	1:DX:108:ILE:HD13	2.02	0.42
1:BS:77:ILE:HD12	1:FE:77:ILE:HD12	2.01	0.42
1:CJ:6:LEU:HB2	1:CJ:13:PHE:HB2	2.00	0.42
1:CT:50:THR:HA	1:CT:78:MET:O	2.18	0.42
1:DM:40:GLY:HA3	1:GT:111:GLY:HA2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EG:50:THR:HA	1:EG:78:MET:O	2.19	0.42
1:FD:111:GLY:HA2	1:FF:40:GLY:HA3	2.01	0.42
1:FT:20:TYR:OH	2:RT:28:A:OP1	2.27	0.42
1:HI:6:LEU:HB2	1:HI:13:PHE:HB2	2.00	0.42
1:II:40:GLY:HA3	1:KU:111:GLY:HA2	2.00	0.42
1:IT:21:TYR:HH	1:MF:113:PHE:C	2.23	0.42
1:IY:27:GLY:HA2	1:KR:106:ASP:OD2	2.20	0.42
1:JI:105:LEU:HD23	1:JI:105:LEU:HA	1.93	0.42
1:KM:105:LEU:HD23	1:KM:105:LEU:HA	1.93	0.42
1:KW:75:ALA:O	1:MW:76:ILE:HA	2.19	0.42
1:LE:50:THR:HA	1:LE:78:MET:O	2.18	0.42
1:LG:105:LEU:HA	1:LG:105:LEU:HD23	1.64	0.42
1:LJ:6:LEU:HB2	1:LJ:13:PHE:HB2	2.00	0.42
1:LL:99:LEU:HB2	1:MH:8:ILE:HD11	2.02	0.42
1:LN:50:THR:HA	1:LN:78:MET:O	2.18	0.42
1:AI:21:TYR:HH	1:DU:113:PHE:C	2.23	0.42
1:AY:111:GLY:HA3	1:EJ:16:THR:HB	2.01	0.42
1:BG:53:VAL:HG12	1:ES:96:LEU:CD2	2.46	0.42
1:BJ:50:THR:HA	1:BJ:78:MET:O	2.18	0.42
1:BT:111:GLY:HA2	1:DN:40:GLY:HA3	2.01	0.42
1:CP:55:ARG:HG3	1:DJ:92:LEU:HD22	2.01	0.42
1:DA:111:GLY:HA3	1:DF:16:THR:HB	2.00	0.42
1:DB:111:GLY:HA2	1:GJ:40:GLY:HA3	2.00	0.42
1:DJ:14:ILE:HD12	1:GX:107:GLN:HG2	2.00	0.42
1:EK:53:VAL:HG12	1:ER:96:LEU:HD22	2.02	0.42
1:EU:6:LEU:HB2	1:EU:13:PHE:HB2	2.00	0.42
1:FY:6:LEU:HB2	1:FY:13:PHE:HB2	2.00	0.42
1:IK:50:THR:HA	1:IK:78:MET:O	2.18	0.42
1:IM:105:LEU:HA	1:IM:105:LEU:HD23	1.64	0.42
1:IX:55:ARG:HG2	1:KR:92:LEU:HD22	2.00	0.42
1:JB:8:ILE:HD11	1:JP:99:LEU:HB2	2.02	0.42
1:JO:40:GLY:HA2	1:NA:109:LEU:O	2.19	0.42
1:JV:55:ARG:HG2	1:KI:92:LEU:HD22	2.01	0.42
1:JZ:6:LEU:HB2	1:JZ:13:PHE:HB2	2.00	0.42
1:NF:105:LEU:HD23	1:NF:105:LEU:HA	1.64	0.42
1:AK:6:LEU:HB2	1:AK:13:PHE:HB2	2.00	0.42
1:AV:40:GLY:HA3	1:EF:111:GLY:HA2	2.00	0.42
1:BJ:97:ASN:ND2	1:EV:94:SER:HA	2.34	0.42
1:CC:76:ILE:CD1	1:GK:96:LEU:HD13	2.50	0.42
1:CQ:21:TYR:HH	1:GC:113:PHE:C	2.22	0.42
1:CX:53:VAL:HG12	1:DK:96:LEU:CD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CZ:77:ILE:HD12	1:GL:77:ILE:HD12	2.02	0.42
1:EM:50:THR:HA	1:EM:78:MET:O	2.18	0.42
1:HV:50:THR:HA	1:HV:78:MET:O	2.18	0.42
1:IE:55:ARG:HG2	1:LQ:92:LEU:HD22	2.00	0.42
1:IX:97:ASN:ND2	1:KR:94:SER:HA	2.34	0.42
1:IZ:40:GLY:HA3	1:ML:111:GLY:HA2	2.00	0.42
1:KF:105:LEU:HD23	1:KF:105:LEU:HA	1.64	0.42
1:KM:52:ALA:HB2	2:SE:26:A:H4'	2.01	0.42
1:LP:105:LEU:HD23	1:LP:105:LEU:HA	1.64	0.42
1:LY:92:LEU:HD22	1:MJ:55:ARG:CG	2.50	0.42
1:BW:99:LEU:HB2	1:DQ:8:ILE:HD11	2.01	0.42
1:BY:53:VAL:HG12	1:FK:96:LEU:HD22	2.02	0.42
1:CC:105:LEU:HD13	1:GK:89:ALA:HB3	2.02	0.42
1:CK:97:ASN:ND2	1:FW:94:SER:HA	2.35	0.42
1:CP:55:ARG:CG	1:DJ:92:LEU:HD22	2.50	0.42
1:CX:6:LEU:HD23	1:DK:104:ARG:NH1	2.35	0.42
1:DF:105:LEU:HD23	1:DF:105:LEU:HA	1.93	0.42
1:DL:55:ARG:HG2	1:GX:92:LEU:HD22	2.02	0.42
1:EC:105:LEU:HD23	1:EC:105:LEU:HA	1.64	0.42
1:FP:109:LEU:O	1:GV:40:GLY:HA2	2.19	0.42
1:HE:99:LEU:HD22	1:ID:35:ILE:HD13	2.02	0.42
1:HM:77:ILE:HD12	1:KY:77:ILE:HD12	2.01	0.42
1:IC:92:LEU:HD22	1:IJ:55:ARG:CG	2.50	0.42
1:LL:111:GLY:HA3	1:MI:16:THR:HB	2.02	0.42
1:LR:92:LEU:HD22	1:ME:55:ARG:HG3	2.01	0.42
1:LY:96:LEU:HD13	1:MJ:76:ILE:CD1	2.50	0.42
1:MB:6:LEU:HB2	1:MB:13:PHE:HB2	2.00	0.42
1:AH:105:LEU:HD23	1:AH:105:LEU:HA	1.64	0.42
1:AV:43:ASN:OD1	1:AV:46:THR:OG1	2.24	0.42
1:EH:94:SER:HA	1:EO:97:ASN:HD21	1.85	0.42
1:GM:43:ASN:OD1	1:GM:46:THR:OG1	2.24	0.42
1:HW:96:LEU:HD22	1:LG:53:VAL:HG12	2.02	0.42
1:HX:40:GLY:HA2	1:LU:109:LEU:O	2.19	0.42
1:IC:3:PHE:CE1	1:IJ:104:ARG:HG2	2.55	0.42
1:JI:16:THR:HB	1:JM:111:GLY:HA3	2.01	0.42
1:JW:111:GLY:HA2	1:NE:40:GLY:HA3	2.02	0.42
1:KT:40:GLY:HA3	1:NC:111:GLY:HA2	2.00	0.42
1:MR:105:LEU:HD23	1:MR:105:LEU:HA	1.93	0.42
1:MY:43:ASN:OD1	1:MY:46:THR:OG1	2.24	0.42
1:BN:3:PHE:CD1	1:DZ:104:ARG:NH1	2.88	0.42
1:BP:53:VAL:HG12	1:FB:96:LEU:HD22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BW:43:ASN:OD1	1:BW:46:THR:OG1	2.24	0.42
1:CP:99:LEU:HD11	1:DJ:6:LEU:HD22	2.02	0.42
1:EM:77:ILE:HD11	2:RI:26:A:H1'	2.02	0.42
1:FQ:52:ALA:HB2	2:RS:26:A:H4'	2.01	0.42
1:HR:6:LEU:HB2	1:HR:13:PHE:HB2	2.00	0.42
1:IB:38:SER:OG	2:SN:7:A:OP1	2.26	0.42
1:IJ:105:LEU:HD23	1:IJ:105:LEU:HA	1.64	0.42
1:AH:96:LEU:CD2	1:GD:53:VAL:HG12	2.50	0.42
1:AQ:6:LEU:HB2	1:AQ:13:PHE:HB2	2.00	0.42
1:AQ:21:TYR:OH	1:FU:113:PHE:OXT	2.33	0.42
1:AR:16:THR:HB	1:FU:111:GLY:HA3	2.02	0.42
1:BG:92:LEU:HD22	1:ES:55:ARG:HG2	2.02	0.42
1:CB:105:LEU:HD23	1:CB:105:LEU:HA	1.93	0.42
1:CK:16:THR:HB	1:CO:111:GLY:HA3	2.01	0.42
1:HC:77:ILE:HD12	1:MY:77:ILE:HD12	2.02	0.42
1:HE:75:ALA:O	1:ID:76:ILE:HA	2.20	0.42
1:IN:105:LEU:HD23	1:IN:105:LEU:HA	1.93	0.42
1:JG:55:ARG:HG2	1:NF:92:LEU:HD22	2.02	0.42
1:KB:43:ASN:OD1	1:KB:46:THR:OG1	2.24	0.42
1:KQ:99:LEU:HB2	1:NO:8:ILE:HD11	2.02	0.42
1:AD:109:LEU:O	1:BC:40:GLY:HA2	2.20	0.41
1:AV:99:LEU:HB2	1:EF:8:ILE:HD11	2.02	0.41
1:BM:111:GLY:HA2	1:EY:40:GLY:HA3	2.01	0.41
1:BW:35:ILE:HD13	1:DQ:99:LEU:HD22	2.02	0.41
1:CP:3:PHE:CD1	1:DJ:104:ARG:NH1	2.88	0.41
1:EX:92:LEU:HD22	1:FI:55:ARG:HG2	2.01	0.41
1:FR:43:ASN:OD1	1:FR:46:THR:OG1	2.24	0.41
1:GZ:96:LEU:HD13	1:MV:76:ILE:CD1	2.50	0.41
1:HA:6:LEU:HD22	1:KM:99:LEU:HD11	2.01	0.41
1:HM:55:ARG:CG	1:KY:92:LEU:HD22	2.50	0.41
1:HV:21:TYR:OH	1:LH:113:PHE:OXT	2.37	0.41
1:IR:94:SER:HA	1:KL:97:ASN:ND2	2.34	0.41
1:JH:53:VAL:HG12	1:JM:96:LEU:HD22	2.02	0.41
1:JI:102:PRO:HD3	1:MU:90:ASP:OD2	2.20	0.41
1:JN:35:ILE:HD13	1:KH:99:LEU:HD22	2.01	0.41
1:LO:113:PHE:OXT	1:MK:21:TYR:OH	2.35	0.41
1:AE:92:LEU:HD22	1:GA:55:ARG:HG2	2.02	0.41
1:AT:105:LEU:HA	1:AT:105:LEU:HD23	1.64	0.41
1:AY:111:GLY:HA2	1:EI:40:GLY:HA3	2.02	0.41
1:BO:105:LEU:HA	1:BO:105:LEU:HD23	1.64	0.41
1:CI:8:ILE:HD11	1:GH:99:LEU:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DS:97:ASN:ND2	1:GQ:94:SER:HA	2.35	0.41
1:FS:55:ARG:HG3	1:GP:92:LEU:HD22	2.02	0.41
1:GF:105:LEU:HD23	1:GF:105:LEU:HA	1.93	0.41
1:GY:27:GLY:HA2	1:KM:106:ASP:OD2	2.20	0.41
1:HA:105:LEU:HD23	1:HA:105:LEU:HA	1.93	0.41
1:IF:111:GLY:HA2	1:IM:40:GLY:HA3	2.03	0.41
1:JD:35:ILE:HD13	1:NL:99:LEU:HD22	2.01	0.41
1:LV:6:LEU:HB2	1:LV:13:PHE:HB2	2.00	0.41
1:AO:96:LEU:HD22	1:EA:53:VAL:HG12	2.02	0.41
1:BQ:92:LEU:HD22	1:EC:55:ARG:HG3	2.01	0.41
1:EB:111:GLY:HA2	1:GB:40:GLY:HA3	2.02	0.41
1:GT:105:LEU:HD23	1:GT:105:LEU:HA	1.64	0.41
1:HF:99:LEU:HD22	1:NB:35:ILE:HD13	2.02	0.41
1:HN:43:ASN:OD1	1:HN:46:THR:OG1	2.24	0.41
1:HY:40:GLY:HA2	1:LK:109:LEU:O	2.19	0.41
1:IN:55:ARG:HB2	1:LZ:96:LEU:HD21	2.00	0.41
1:LL:43:ASN:OD1	1:LL:46:THR:OG1	2.24	0.41
1:LW:105:LEU:HD23	1:LW:105:LEU:HA	1.93	0.41
1:MN:96:LEU:CD2	1:NT:53:VAL:HG12	2.49	0.41
1:NA:52:ALA:HB2	2:TA:26:A:H4'	2.02	0.41
1:NO:105:LEU:HA	1:NO:105:LEU:HD23	1.64	0.41
1:AZ:94:SER:HA	1:EW:97:ASN:HD21	1.86	0.41
1:BK:109:LEU:O	1:DW:49:VAL:HG21	2.20	0.41
1:CF:111:GLY:HA3	1:GO:16:THR:HB	2.03	0.41
1:DV:99:LEU:HB2	1:GE:8:ILE:HD11	2.02	0.41
1:FA:55:ARG:CG	1:FL:92:LEU:HD22	2.50	0.41
1:FN:105:LEU:HD23	1:FN:105:LEU:HA	1.93	0.41
1:GU:41:LYS:HD2	2:SC:26:A:OP1	2.19	0.41
1:HA:53:VAL:CG1	1:KM:96:LEU:HD22	2.47	0.41
1:HA:96:LEU:HD22	1:KM:53:VAL:CG1	2.49	0.41
1:HI:53:VAL:HG12	1:MM:96:LEU:CD2	2.50	0.41
1:HZ:40:GLY:HA3	1:IP:111:GLY:HA2	2.03	0.41
1:IE:53:VAL:HG12	1:LQ:96:LEU:HD22	2.03	0.41
1:IK:94:SER:HA	1:LW:97:ASN:HD21	1.84	0.41
1:JA:43:ASN:OD1	1:JA:46:THR:OG1	2.24	0.41
1:JS:99:LEU:HD22	1:KF:35:ILE:HD13	2.02	0.41
1:KD:105:LEU:HD23	1:KD:105:LEU:HA	1.93	0.41
1:LS:105:LEU:HA	1:LS:105:LEU:HD23	1.64	0.41
1:LV:111:GLY:HA2	1:MG:40:GLY:HA3	2.02	0.41
1:MT:99:LEU:HB2	1:NQ:8:ILE:HD11	2.03	0.41
1:MU:77:ILE:HD11	2:SY:26:A:H1'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:8:ILE:HD11	1:BF:99:LEU:HB2	2.02	0.41
1:CJ:99:LEU:HB2	1:CO:8:ILE:HD11	2.01	0.41
1:CX:51:ALA:HB2	1:DK:109:LEU:HD23	2.03	0.41
1:DL:105:LEU:HD23	1:DL:105:LEU:HA	1.93	0.41
1:FZ:105:LEU:HD23	1:FZ:105:LEU:HA	1.93	0.41
1:HK:109:LEU:O	1:IY:40:GLY:HA2	2.20	0.41
1:IQ:94:SER:HA	1:MC:97:ASN:ND2	2.35	0.41
1:JH:106:ASP:OD2	1:JN:27:GLY:HA2	2.20	0.41
1:JU:105:LEU:HD23	1:JU:105:LEU:HA	1.93	0.41
1:KV:41:LYS:HD2	2:SH:26:A:OP1	2.21	0.41
1:AH:97:ASN:ND2	1:GD:94:SER:HA	2.36	0.41
1:BQ:96:LEU:HD22	1:EC:53:VAL:CG1	2.50	0.41
1:BY:105:LEU:HD23	1:BY:105:LEU:HA	1.93	0.41
1:CV:35:ILE:HD13	1:GM:99:LEU:HD22	2.03	0.41
1:DA:92:LEU:HD22	1:DE:55:ARG:CG	2.50	0.41
1:DO:52:ALA:HB2	2:RA:26:A:H4'	2.03	0.41
1:GS:43:ASN:OD1	1:GS:46:THR:OG1	2.24	0.41
1:GU:52:ALA:HB2	2:SC:26:A:H4'	2.02	0.41
1:HD:97:ASN:HD21	1:KP:94:SER:HA	1.85	0.41
1:HH:96:LEU:HD22	1:IV:53:VAL:HG12	2.02	0.41
1:IV:105:LEU:HA	1:IV:105:LEU:HD23	1.64	0.41
1:JE:55:ARG:CG	1:JJ:92:LEU:HD22	2.49	0.41
1:JK:8:ILE:HD11	1:KE:99:LEU:HB2	2.03	0.41
1:JS:94:SER:HA	1:KF:97:ASN:ND2	2.33	0.41
1:MR:38:SER:OG	2:SX:27:U:OP1	2.26	0.41
1:AU:105:LEU:HD23	1:AU:105:LEU:HA	1.93	0.41
1:BT:8:ILE:HD11	1:DN:99:LEU:HB2	2.02	0.41
1:DA:53:VAL:HG12	1:DE:96:LEU:CD2	2.51	0.41
1:EK:99:LEU:HD22	1:ER:35:ILE:HD13	2.01	0.41
1:GY:21:TYR:OH	1:IG:113:PHE:OXT	2.34	0.41
1:HA:84:ILE:HG13	1:KM:72:ALA:HB2	2.02	0.41
1:ML:77:ILE:HD11	2:SV:26:A:H1'	2.03	0.41
1:AR:105:LEU:HD23	1:AR:105:LEU:HA	1.93	0.41
1:GV:43:ASN:OD1	1:GV:46:THR:OG1	2.24	0.41
1:HM:105:LEU:HD23	1:HM:105:LEU:HA	1.93	0.41
1:HO:53:VAL:HG12	1:MS:96:LEU:CD2	2.48	0.41
1:IQ:97:ASN:HD21	1:MC:94:SER:HA	1.85	0.41
1:IZ:109:LEU:O	1:ML:40:GLY:HA2	2.21	0.41
1:KJ:92:LEU:HD22	1:NV:55:ARG:HG2	2.01	0.41
1:KY:105:LEU:HD23	1:KY:105:LEU:HA	1.93	0.41
1:LF:99:LEU:HB2	1:LM:8:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LR:53:VAL:HG12	1:ME:96:LEU:CD2	2.51	0.41
1:AD:99:LEU:HD22	1:BC:35:ILE:HD13	2.03	0.41
1:AI:55:ARG:HB2	1:DU:96:LEU:HD21	2.03	0.41
1:AI:105:LEU:HD23	1:AI:105:LEU:HA	1.93	0.41
1:AL:3:PHE:CE1	1:DX:104:ARG:HG2	2.56	0.41
1:AZ:105:LEU:HD23	1:AZ:105:LEU:HA	1.64	0.41
1:BA:55:ARG:HB2	1:EM:96:LEU:HD21	2.03	0.41
1:BB:94:SER:HA	1:BR:97:ASN:ND2	2.36	0.41
1:BB:111:GLY:HA3	1:BS:16:THR:HB	2.03	0.41
1:BD:92:LEU:HD22	1:EP:55:ARG:CG	2.51	0.41
1:BS:96:LEU:CD2	1:FE:53:VAL:HG12	2.50	0.41
1:BV:102:PRO:HD3	1:FH:90:ASP:OD2	2.21	0.41
1:CV:96:LEU:HD22	1:GM:53:VAL:HG12	2.03	0.41
1:DF:55:ARG:CG	1:GR:92:LEU:HD22	2.51	0.41
1:EB:99:LEU:HD22	1:GB:35:ILE:HD13	2.03	0.41
1:EB:99:LEU:HB2	1:GB:8:ILE:HD11	2.03	0.41
1:EK:94:SER:HA	1:ER:97:ASN:ND2	2.35	0.41
1:GY:96:LEU:HD22	1:IG:53:VAL:HG12	2.02	0.41
1:HH:53:VAL:HG12	1:IV:96:LEU:HD22	2.03	0.41
1:HJ:94:SER:HA	1:KV:97:ASN:HD21	1.85	0.41
1:HL:105:LEU:HD23	1:HL:105:LEU:HA	1.64	0.41
1:HL:109:LEU:O	1:MP:40:GLY:HA2	2.20	0.41
1:HM:93:LEU:HD12	1:HM:93:LEU:HA	1.91	0.41
1:HS:16:THR:HB	1:LX:111:GLY:HA3	2.03	0.41
1:IE:94:SER:HA	1:LQ:97:ASN:ND2	2.36	0.41
1:IX:76:ILE:CD1	1:KR:96:LEU:HD13	2.50	0.41
1:JE:55:ARG:HG2	1:JJ:92:LEU:HD22	2.03	0.41
1:JH:55:ARG:CG	1:JM:92:LEU:HD22	2.51	0.41
1:KK:35:ILE:HD13	1:NR:99:LEU:HD22	2.02	0.41
1:KQ:111:GLY:HA2	1:NO:40:GLY:HA3	2.02	0.41
1:LM:105:LEU:HD23	1:LM:105:LEU:HA	1.64	0.41
1:LR:92:LEU:HD22	1:ME:55:ARG:HG2	2.03	0.41
1:MC:105:LEU:HD23	1:MC:105:LEU:HA	1.93	0.41
1:ML:105:LEU:HD23	1:ML:105:LEU:HA	1.93	0.41
1:MO:105:LEU:HD23	1:MO:105:LEU:HA	1.93	0.41
1:NJ:41:LYS:HD2	2:TD:26:A:OP1	2.20	0.41
1:AM:99:LEU:HD22	1:CA:35:ILE:HD13	2.03	0.41
1:AW:105:LEU:HD23	1:AW:105:LEU:HA	1.64	0.41
1:BJ:94:SER:HA	1:EV:97:ASN:ND2	2.36	0.41
1:DI:105:LEU:HD23	1:DI:105:LEU:HA	1.93	0.41
1:EB:77:ILE:HD12	1:GB:77:ILE:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LN:52:ALA:HB2	2:SN:26:A:H4'	2.02	0.41
1:MT:76:ILE:HA	1:NQ:75:ALA:O	2.21	0.41
1:BN:76:ILE:CD1	1:DZ:96:LEU:HD13	2.51	0.40
1:BN:107:GLN:NE2	1:EA:24:SER:HB2	2.36	0.40
1:BW:111:GLY:HA3	1:DR:16:THR:HB	2.02	0.40
1:CP:104:ARG:HG2	1:DJ:3:PHE:CE1	2.56	0.40
1:EE:99:LEU:HD22	1:EU:35:ILE:HD13	2.03	0.40
1:FA:35:ILE:HD13	1:FL:99:LEU:HD22	2.03	0.40
1:HC:55:ARG:CG	1:MY:92:LEU:HD22	2.52	0.40
1:HF:40:GLY:HA3	1:NB:111:GLY:HA2	2.02	0.40
1:HY:96:LEU:HD22	1:LK:53:VAL:HG12	2.03	0.40
1:KN:97:ASN:ND2	1:NU:94:SER:HA	2.36	0.40
1:KP:41:LYS:HD2	2:SF:26:A:OP1	2.20	0.40
1:KW:78:MET:HG2	1:MW:74:VAL:HG22	2.03	0.40
1:NM:52:ALA:HB2	2:TE:26:A:H4'	2.01	0.40
1:CQ:94:SER:HA	1:GC:97:ASN:HD21	1.86	0.40
1:CV:105:LEU:HD23	1:CV:105:LEU:HA	1.64	0.40
1:DC:93:LEU:HD12	1:DC:93:LEU:HA	1.91	0.40
1:DS:8:ILE:HD11	1:GQ:99:LEU:HB2	2.03	0.40
1:EQ:90:ASP:OD2	1:FM:102:PRO:HD3	2.21	0.40
1:GW:105:LEU:HA	1:GW:105:LEU:HD23	1.64	0.40
1:HE:53:VAL:HG12	1:ID:96:LEU:CD2	2.52	0.40
1:IB:40:GLY:HA3	1:LN:111:GLY:HA2	2.03	0.40
1:IC:109:LEU:O	1:IJ:49:VAL:HG21	2.21	0.40
1:IN:108:ILE:HD13	1:LZ:37:ILE:HG23	2.03	0.40
1:AL:6:LEU:HD22	1:DX:99:LEU:HD11	2.04	0.40
1:AO:113:PHE:C	1:EA:21:TYR:HH	2.25	0.40
1:AW:99:LEU:HD22	1:FC:35:ILE:HD13	2.02	0.40
1:AY:53:VAL:HG12	1:EI:96:LEU:CD2	2.51	0.40
1:AZ:113:PHE:O	1:EW:2:THR:OG1	2.35	0.40
1:BA:105:LEU:HD23	1:BA:105:LEU:HA	1.93	0.40
1:BC:16:THR:HG21	1:BR:110:GLN:OE1	2.21	0.40
1:BN:77:ILE:HD12	1:DZ:77:ILE:HD12	2.03	0.40
1:BV:40:GLY:HA2	1:FH:109:LEU:O	2.22	0.40
1:CQ:21:TYR:OH	1:GC:113:PHE:OXT	2.36	0.40
1:CQ:94:SER:HA	1:GC:97:ASN:ND2	2.36	0.40
1:CT:40:GLY:HA2	1:GF:109:LEU:O	2.20	0.40
1:CT:53:VAL:HG12	1:GF:96:LEU:HD22	2.03	0.40
1:CU:94:SER:HA	1:DH:97:ASN:ND2	2.36	0.40
1:DP:40:GLY:HA3	1:GW:111:GLY:HA2	2.02	0.40
1:HB:111:GLY:HA3	1:IB:16:THR:HB	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IQ:109:LEU:O	1:MC:40:GLY:HA2	2.21	0.40
1:JO:40:GLY:HA3	1:NA:111:GLY:HA2	2.04	0.40
1:KG:105:LEU:HD23	1:KG:105:LEU:HA	1.93	0.40
1:LF:111:GLY:HA2	1:LM:40:GLY:HA3	2.04	0.40
1:LI:99:LEU:HB2	1:LP:8:ILE:HD11	2.03	0.40
1:LY:55:ARG:CG	1:MJ:92:LEU:HD22	2.51	0.40
1:MB:96:LEU:HD22	1:MD:53:VAL:HG12	2.02	0.40
1:MK:105:LEU:HA	1:MK:105:LEU:HD23	1.64	0.40
1:MT:74:VAL:HG22	1:NQ:78:MET:HG2	2.03	0.40
1:AD:40:GLY:HA2	1:BC:109:LEU:O	2.22	0.40
1:BB:99:LEU:HB2	1:BR:8:ILE:HD11	2.03	0.40
1:BH:111:GLY:HA3	1:BP:16:THR:HB	2.04	0.40
1:CW:55:ARG:HG2	1:GI:92:LEU:HD22	2.03	0.40
1:HK:35:ILE:HD13	1:IY:99:LEU:HD22	2.02	0.40
1:HR:40:GLY:HA3	1:LX:111:GLY:HA2	2.02	0.40
1:JB:105:LEU:HA	1:JB:105:LEU:HD23	1.64	0.40
1:JN:8:ILE:CD1	1:KH:99:LEU:HB2	2.52	0.40
1:JY:53:VAL:HG12	1:KC:96:LEU:HD22	2.03	0.40
1:LL:40:GLY:HA3	1:MH:111:GLY:HA2	2.02	0.40
1:LN:105:LEU:HD23	1:LN:105:LEU:HA	1.93	0.40
1:LV:8:ILE:HD11	1:MG:99:LEU:HB2	2.03	0.40
1:MI:41:LYS:HD2	2:SU:26:A:OP1	2.21	0.40
1:AG:97:ASN:ND2	1:BF:94:SER:HA	2.37	0.40
1:AL:99:LEU:HD11	1:DX:6:LEU:HD22	2.03	0.40
1:AX:105:LEU:HD23	1:AX:105:LEU:HA	1.93	0.40
1:BC:27:GLY:HA2	1:BR:106:ASP:OD2	2.22	0.40
1:BS:96:LEU:HD22	1:FE:53:VAL:CG1	2.49	0.40
1:BW:99:LEU:HD22	1:DQ:35:ILE:HD13	2.03	0.40
1:DV:99:LEU:HD22	1:GE:35:ILE:HD13	2.03	0.40
1:DY:111:GLY:HA3	1:FZ:16:THR:HB	2.04	0.40
1:HC:105:LEU:HD23	1:HC:105:LEU:HA	1.64	0.40
1:HJ:105:LEU:HD23	1:HJ:105:LEU:HA	1.93	0.40
1:HN:40:GLY:HA2	1:IS:109:LEU:O	2.22	0.40
1:IB:105:LEU:HD23	1:IB:105:LEU:HA	1.93	0.40
1:IR:96:LEU:HD22	1:KL:53:VAL:HG12	2.03	0.40
1:JW:8:ILE:HD11	1:NE:99:LEU:HB2	2.04	0.40
1:KQ:99:LEU:HD22	1:NO:35:ILE:HD13	2.03	0.40
1:KV:105:LEU:HD23	1:KV:105:LEU:HA	1.93	0.40
1:LC:78:MET:HG2	1:LS:74:VAL:HG22	2.02	0.40
1:LT:105:LEU:HD23	1:LT:105:LEU:HA	1.93	0.40
1:LY:77:ILE:HD12	1:MJ:77:ILE:HD12	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MN:65:GLY:HA3	1:NU:67:PRO:CB	2.52	0.40

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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
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

All (120) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AC	106	ASP
1	AF	106	ASP
1	AI	106	ASP
1	AL	106	ASP
1	AO	106	ASP
1	AR	106	ASP
1	AU	106	ASP
1	AX	106	ASP
1	BA	106	ASP
1	BD	106	ASP
1	BG	106	ASP
1	BJ	106	ASP
1	BM	106	ASP
1	BP	106	ASP
1	BS	106	ASP
1	BV	106	ASP
1	BY	106	ASP
1	CB	106	ASP
1	CE	106	ASP
1	CH	106	ASP
1	CK	106	ASP
1	CN	106	ASP
1	CQ	106	ASP
1	CT	106	ASP
1	CW	106	ASP
1	CZ	106	ASP
1	DC	106	ASP
1	DF	106	ASP
1	DI	106	ASP
1	DL	106	ASP

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Mol	Chain	Res	Type
1	DO	106	ASP
1	DR	106	ASP
1	DU	106	ASP
1	DX	106	ASP
1	EA	106	ASP
1	ED	106	ASP
1	EG	106	ASP
1	EJ	106	ASP
1	EM	106	ASP
1	EP	106	ASP
1	ES	106	ASP
1	EV	106	ASP
1	EY	106	ASP
1	FB	106	ASP
1	FE	106	ASP
1	FH	106	ASP
1	FK	106	ASP
1	FN	106	ASP
1	FQ	106	ASP
1	FT	106	ASP
1	FW	106	ASP
1	FZ	106	ASP
1	GC	106	ASP
1	GF	106	ASP
1	GI	106	ASP
1	GL	106	ASP
1	GO	106	ASP
1	GR	106	ASP
1	GU	106	ASP
1	GX	106	ASP
1	HA	106	ASP
1	HD	106	ASP
1	HG	106	ASP
1	HJ	106	ASP
1	HM	106	ASP
1	HP	106	ASP
1	HS	106	ASP
1	HV	106	ASP
1	HY	106	ASP
1	IB	106	ASP
1	IE	106	ASP
1	IH	106	ASP

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Mol	Chain	Res	Type
1	IK	106	ASP
1	IN	106	ASP
1	IQ	106	ASP
1	IT	106	ASP
1	IW	106	ASP
1	IZ	106	ASP
1	JC	106	ASP
1	JF	106	ASP
1	JI	106	ASP
1	JL	106	ASP
1	JO	106	ASP
1	JR	106	ASP
1	JU	106	ASP
1	JX	106	ASP
1	KA	106	ASP
1	KD	106	ASP
1	KG	106	ASP
1	KJ	106	ASP
1	KM	106	ASP
1	KP	106	ASP
1	KS	106	ASP
1	KV	106	ASP
1	KY	106	ASP
1	LB	106	ASP
1	LE	106	ASP
1	LH	106	ASP
1	LK	106	ASP
1	LN	106	ASP
1	LQ	106	ASP
1	LT	106	ASP
1	LW	106	ASP
1	LZ	106	ASP
1	MC	106	ASP
1	MF	106	ASP
1	MI	106	ASP
1	ML	106	ASP
1	MO	106	ASP
1	MR	106	ASP
1	MU	106	ASP
1	MX	106	ASP
1	NA	106	ASP
1	ND	106	ASP

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Mol	Chain	Res	Type
1	NG	106	ASP
1	NJ	106	ASP
1	NM	106	ASP
1	NP	106	ASP
1	NS	106	ASP
1	NV	106	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (271) such sidechains are listed below:

Mol	Chain	Res	Type
1	AB	97	ASN
1	AC	97	ASN
1	AD	97	ASN
1	AE	97	ASN
1	AF	97	ASN
1	AG	97	ASN
1	AH	97	ASN
1	AI	97	ASN
1	AK	97	ASN
1	AN	97	ASN
1	AO	97	ASN
1	AQ	97	ASN
1	AR	97	ASN
1	AS	97	ASN
1	AT	97	ASN
1	AU	97	ASN
1	AW	97	ASN
1	AX	97	ASN
1	AZ	97	ASN
1	BA	97	ASN
1	BC	97	ASN
1	BD	97	ASN
1	BF	97	ASN
1	BG	97	ASN
1	BI	97	ASN
1	BJ	97	ASN
1	BK	97	ASN
1	BL	97	ASN
1	BM	97	ASN
1	BO	97	ASN
1	BP	97	ASN
1	BR	97	ASN

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Mol	Chain	Res	Type
1	BS	97	ASN
1	BT	97	ASN
1	BU	97	ASN
1	BV	97	ASN
1	BX	97	ASN
1	BY	97	ASN
1	BZ	97	ASN
1	CA	97	ASN
1	CB	97	ASN
1	CC	97	ASN
1	CD	97	ASN
1	CE	97	ASN
1	CG	97	ASN
1	CH	97	ASN
1	CI	97	ASN
1	CJ	97	ASN
1	CK	97	ASN
1	CM	97	ASN
1	CN	97	ASN
1	CP	97	ASN
1	CQ	97	ASN
1	CR	97	ASN
1	CS	97	ASN
1	CT	97	ASN
1	CV	97	ASN
1	CW	97	ASN
1	CY	97	ASN
1	CZ	97	ASN
1	DB	97	ASN
1	DC	97	ASN
1	DE	97	ASN
1	DF	97	ASN
1	DG	97	ASN
1	DH	97	ASN
1	DI	97	ASN
1	DK	97	ASN
1	DL	97	ASN
1	DN	97	ASN
1	DO	97	ASN
1	DQ	97	ASN
1	DR	97	ASN
1	DS	97	ASN

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Mol	Chain	Res	Type
1	DT	97	ASN
1	DU	97	ASN
1	DV	97	ASN
1	DW	97	ASN
1	DZ	97	ASN
1	EA	97	ASN
1	EC	97	ASN
1	ED	97	ASN
1	EF	97	ASN
1	EG	97	ASN
1	EI	97	ASN
1	EJ	97	ASN
1	EL	97	ASN
1	EM	97	ASN
1	EO	97	ASN
1	EP	97	ASN
1	ER	97	ASN
1	ES	97	ASN
1	EU	97	ASN
1	EV	97	ASN
1	EW	97	ASN
1	EX	97	ASN
1	EY	97	ASN
1	EZ	97	ASN
1	FA	97	ASN
1	FB	97	ASN
1	FD	97	ASN
1	FE	97	ASN
1	FG	97	ASN
1	FH	97	ASN
1	FJ	97	ASN
1	FK	97	ASN
1	FM	97	ASN
1	FN	97	ASN
1	FO	97	ASN
1	FP	97	ASN
1	FQ	97	ASN
1	FS	97	ASN
1	FT	97	ASN
1	FV	97	ASN
1	FW	97	ASN
1	FX	97	ASN

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Mol	Chain	Res	Type
1	FY	97	ASN
1	FZ	97	ASN
1	GB	97	ASN
1	GC	97	ASN
1	GE	97	ASN
1	GF	97	ASN
1	GG	97	ASN
1	GH	97	ASN
1	GI	97	ASN
1	GK	97	ASN
1	GL	97	ASN
1	GN	97	ASN
1	GO	97	ASN
1	GQ	97	ASN
1	GR	97	ASN
1	GT	97	ASN
1	GU	97	ASN
1	GW	97	ASN
1	GX	97	ASN
1	GZ	97	ASN
1	HA	97	ASN
1	HB	97	ASN
1	HC	97	ASN
1	HD	97	ASN
1	HF	97	ASN
1	HG	97	ASN
1	HI	97	ASN
1	HJ	97	ASN
1	HL	97	ASN
1	HM	97	ASN
1	HO	97	ASN
1	HP	97	ASN
1	HQ	97	ASN
1	HR	97	ASN
1	HS	97	ASN
1	HU	97	ASN
1	HV	97	ASN
1	HX	97	ASN
1	HY	97	ASN
1	IA	97	ASN
1	IB	97	ASN
1	ID	97	ASN

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Mol	Chain	Res	Type
1	IE	97	ASN
1	IF	97	ASN
1	IG	97	ASN
1	IH	97	ASN
1	IJ	97	ASN
1	IK	97	ASN
1	IL	97	ASN
1	IM	97	ASN
1	IN	97	ASN
1	IO	97	ASN
1	IP	97	ASN
1	IQ	97	ASN
1	IS	97	ASN
1	IT	97	ASN
1	IU	97	ASN
1	IV	97	ASN
1	IW	97	ASN
1	IX	97	ASN
1	IY	97	ASN
1	IZ	97	ASN
1	JB	97	ASN
1	JC	97	ASN
1	JE	97	ASN
1	JF	97	ASN
1	JG	97	ASN
1	JH	97	ASN
1	JI	97	ASN
1	JJ	97	ASN
1	JK	97	ASN
1	JL	97	ASN
1	JN	97	ASN
1	JO	97	ASN
1	JQ	97	ASN
1	JR	97	ASN
1	JT	97	ASN
1	JU	97	ASN
1	JW	97	ASN
1	JX	97	ASN
1	JZ	97	ASN
1	KA	97	ASN
1	KB	97	ASN
1	KC	97	ASN

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Mol	Chain	Res	Type
1	KD	97	ASN
1	KF	97	ASN
1	KG	97	ASN
1	KI	97	ASN
1	KJ	97	ASN
1	KK	97	ASN
1	KL	97	ASN
1	KN	97	ASN
1	KO	97	ASN
1	KP	97	ASN
1	KR	97	ASN
1	KS	97	ASN
1	KU	97	ASN
1	KV	97	ASN
1	KX	97	ASN
1	KY	97	ASN
1	LA	97	ASN
1	LB	97	ASN
1	LD	97	ASN
1	LE	97	ASN
1	LG	97	ASN
1	LH	97	ASN
1	LJ	97	ASN
1	LK	97	ASN
1	LM	97	ASN
1	LN	97	ASN
1	LP	97	ASN
1	LQ	97	ASN
1	LS	97	ASN
1	LT	97	ASN
1	LU	97	ASN
1	LV	97	ASN
1	LW	97	ASN
1	LX	97	ASN
1	LY	97	ASN
1	LZ	97	ASN
1	MA	97	ASN
1	MB	97	ASN
1	MC	97	ASN
1	ME	97	ASN
1	MF	97	ASN
1	MH	97	ASN

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Mol	Chain	Res	Type
1	MI	97	ASN
1	MK	97	ASN
1	ML	97	ASN
1	MN	97	ASN
1	MO	97	ASN
1	MQ	97	ASN
1	MR	97	ASN
1	MT	97	ASN
1	MU	97	ASN
1	MV	97	ASN
1	MW	97	ASN
1	MX	97	ASN
1	MZ	97	ASN
1	NA	97	ASN
1	NC	97	ASN
1	ND	97	ASN
1	NF	97	ASN
1	NG	97	ASN
1	NH	97	ASN
1	NI	97	ASN
1	NJ	97	ASN
1	NL	97	ASN
1	NM	97	ASN
1	NO	97	ASN
1	NP	97	ASN
1	NR	97	ASN
1	NS	97	ASN
1	NU	97	ASN
1	NV	97	ASN

5.3.3 RNA

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

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
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
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

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
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

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} 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

All (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

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Mol	Chain	Res	Type	RSRZ
1	LO	64	ALA	3.2
1	NH	64	ALA	3.1
1	GA	64	ALA	3.1
1	FQ	65	GLY	2.9
1	GV	64	ALA	2.9
1	NA	37	ILE	2.8
1	NK	64	ALA	2.7
1	JO	65	GLY	2.7
1	LM	45	LYS	2.7
1	GG	65	GLY	2.6
1	CT	74	VAL	2.5
1	DG	64	ALA	2.5
1	EG	65	GLY	2.5
1	MP	65	GLY	2.5
1	KF	37	ILE	2.5
1	EZ	64	ALA	2.5
1	MR	76	ILE	2.4
1	ER	45	LYS	2.4
1	NF	75	ALA	2.4
1	GD	41	LYS	2.4
1	IF	65	GLY	2.4
1	BK	64	ALA	2.4
1	IU	41	LYS	2.4
1	FL	72	ALA	2.3
1	JA	64	ALA	2.3
1	AM	64	ALA	2.3
1	BS	65	GLY	2.3
1	EY	74	VAL	2.3
1	DF	78	MET	2.3
1	IN	51	ALA	2.3
1	JI	51	ALA	2.3
1	KO	45	LYS	2.2
1	KX	37	ILE	2.2
1	DZ	37	ILE	2.2
1	IF	64	ALA	2.2
1	LI	52	ALA	2.2
1	LE	74	VAL	2.2
1	LI	64	ALA	2.1
1	GF	78	MET	2.1
1	LI	51	ALA	2.1
1	LI	37	ILE	2.1
1	HS	72	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	IP	45	LYS	2.1
1	HR	3	PHE	2.1
1	FC	65	GLY	2.1
1	EZ	65	GLY	2.1
1	GT	45	LYS	2.1
1	JR	16	THR	2.1
1	LA	37	ILE	2.1
1	AH	2	THR	2.1
1	DA	64	ALA	2.1
1	HY	78	MET	2.1
1	BA	51	ALA	2.0
1	EW	64	ALA	2.0
1	CX	37	ILE	2.0
1	CB	26	ARG	2.0
1	MD	64	ALA	2.0
1	MF	76	ILE	2.0
1	BY	78	MET	2.0

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

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

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

There are no ligands in this entry.

6.5 Other polymers (i)

There are no such residues in this entry.