Full wwPDB X-ray Structure Validation Report ⓘ

Jun 24, 2024 – 09:31 PM EDT

PDB ID	:	6YFG
Title	:	Virus-like particle of Beihai levi-like virus 32
Authors	:	Rumnieks, J.; Kalnins, G.; Sisovs, M.; Lieknina, I.; Tars, K.
Deposited on	:	2020-03-26
Resolution	:	3.90 Å(reported)

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

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

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

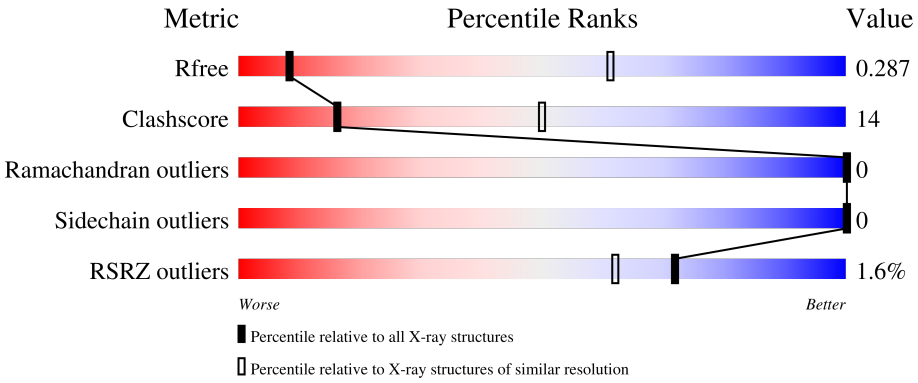
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.20.1
EDS	:	2.37.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

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 3.90 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	1002 (4.14-3.66)
Clashscore	141614	1004 (4.12-3.68)
Ramachandran outliers	138981	1021 (4.14-3.66)
Sidechain outliers	138945	1014 (4.14-3.66)
RSRZ outliers	127900	1275 (4.20-3.60)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=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	130	67% 33%
1	AB	130	2% 65% 35%
1	AC	130	2% 58% 42%
1	AD	130	% 65% 35%
1	AE	130	3% 65% 35%

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Mol	Chain	Length	Quality of chain
1	AF	130	2% 61% 39%
1	AG	130	66% 34%
1	AH	130	2% 67% 33%
1	AI	130	% 60% 40%
1	AJ	130	2% 67% 33%
1	AK	130	2% 66% 34%
1	AL	130	2% 63% 37%
1	AM	130	2% 67% 33%
1	AN	130	3% 67% 33%
1	AO	130	% 63% 37%
1	AP	130	2% 66% 34%
1	AQ	130	% 67% 33%
1	AR	130	% 62% 38%
1	AS	130	2% 67% 33%
1	AT	130	2% 66% 34%
1	AU	130	2% 64% 36%
1	AV	130	65% 35%
1	AW	130	% 65% 35%
1	AX	130	% 64% 36%
1	AY	130	68% 32%
1	AZ	130	5% 66% 34%
1	BA	130	2% 64% 36%
1	BB	130	% 65% 35%
1	BC	130	2% 67% 33%
1	BD	130	2% 63% 37%

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Mol	Chain	Length	Quality of chain
1	BE	130	65% 35%
1	BF	130	65% 35%
1	BG	130	64% 36%
1	BH	130	65% 35%
1	BI	130	67% 33%
1	BJ	130	62% 38%
1	BK	130	68% 32%
1	BL	130	67% 33%
1	BM	130	62% 38%
1	BN	130	67% 33%
1	BO	130	67% 33%
1	BP	130	61% 39%
1	BQ	130	69% 31%
1	BR	130	68% 32%
1	BS	130	61% 39%
1	BT	130	66% 34%
1	BU	130	68% 32%
1	BV	130	62% 38%
1	BW	130	67% 33%
1	BX	130	68% 32%
1	BY	130	65% 35%
1	BZ	130	68% 32%
1	CA	130	68% 32%
1	CB	130	58% 42%
1	CC	130	66% 34%

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Mol	Chain	Length	Quality of chain
1	CD	130	2% 65% 35%
1	CE	130	3% 62% 38%
1	CF	130	% 68% 32%
1	CG	130	2% 68% 32%
1	CH	130	3% 64% 36%
1	CI	130	% 65% 35%
1	CJ	130	3% 67% 33%
1	CK	130	62% 38%
1	CL	130	65% 35%
1	CM	130	3% 65% 35%
1	CN	130	% 59% 41%
1	CO	130	2% 66% 34%
1	CP	130	% 67% 33%
1	CQ	130	2% 61% 39%
1	CR	130	2% 67% 33%
1	CS	130	% 66% 34%
1	CT	130	3% 63% 37%
1	CU	130	% 68% 32%
1	CV	130	2% 65% 35%
1	CW	130	% 62% 38%
1	CX	130	2% 67% 33%
1	CY	130	2% 66% 34%
1	CZ	130	2% 64% 36%
1	DA	130	66% 34%
1	DB	130	2% 64% 36%

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Mol	Chain	Length	Quality of chain
1	DC	130	2% 62% 38%
1	DD	130	2% 68% 32%
1	DE	130	% 68% 32%
1	DF	130	% 63% 37%
1	DG	130	% 68% 32%
1	DH	130	% 68% 32%
1	DI	130	2% 61% 39%
1	DJ	130	2% 68% 32%
1	DK	130	2% 65% 35%
1	DL	130	2% 62% 38%
1	DM	130	2% 68% 32%
1	DN	130	% 66% 34%
1	DO	130	2% 59% 41%
1	DP	130	5% 68% 32%
1	DQ	130	2% 66% 34%
1	DR	130	3% 62% 38%
1	DS	130	68% 32%
1	DT	130	5% 67% 33%
1	DU	130	% 64% 36%
1	DV	130	% 65% 35%
1	DW	130	2% 66% 34%
1	DX	130	62% 38%
1	DY	130	% 65% 35%
1	DZ	130	67% 33%
1	EA	130	3% 62% 38%

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Mol	Chain	Length	Quality of chain
1	EB	130	68% 32%
1	EC	130	67% 33%
1	ED	130	61% 39%
1	EE	130	68% 32%
1	EF	130	66% 34%
1	EG	130	64% 36%
1	EH	130	67% 33%
1	EI	130	67% 33%
1	EJ	130	62% 38%
1	EK	130	65% 35%
1	EL	130	65% 35%
1	EM	130	64% 36%
1	EN	130	68% 32%
1	EO	130	65% 35%
1	EP	130	62% 38%
1	EQ	130	69% 31%
1	ER	130	67% 33%
1	ES	130	62% 38%
1	ET	130	68% 32%
1	EU	130	65% 35%
1	EV	130	62% 38%
1	EW	130	68% 32%
1	EX	130	67% 33%
1	EY	130	65% 35%
1	EZ	130	65% 35%

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Mol	Chain	Length	Quality of chain
1	FA	130	68% 32%
1	FB	130	62% 38%
1	FC	130	66% 34%
1	FD	130	65% 35%
1	FE	130	64% 36%
1	FF	130	67% 33%
1	FG	130	68% 32%
1	FH	130	62% 38%
1	FI	130	69% 31%
1	FJ	130	66% 34%
1	FK	130	65% 35%
1	FL	130	67% 33%
1	FM	130	64% 36%
1	FN	130	56% 44%
1	FO	130	68% 32%
1	FP	130	67% 33%
1	FQ	130	63% 37%
1	FR	130	67% 33%
1	FS	130	65% 35%
1	FT	130	62% 38%
1	FU	130	66% 34%
1	FV	130	65% 35%
1	FW	130	61% 39%
1	FX	130	65% 35%
1	FY	130	65% 35%

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Mol	Chain	Length	Quality of chain
1	FZ	130	2% 61% 39%
1	GA	130	2% 68% 32%
1	GB	130	4% 65% 35%
1	GC	130	3% 59% 41%
1	GD	130	% 66% 34%
1	GE	130	% 65% 35%
1	GF	130	2% 62% 38%
1	GG	130	66% 34%
1	GH	130	% 65% 35%
1	GI	130	2% 62% 38%
1	GJ	130	2% 66% 34%
1	GK	130	% 66% 34%
1	GL	130	3% 65% 35%
1	GM	130	2% 67% 33%
1	GN	130	% 65% 35%
1	GO	130	3% 63% 37%
1	GP	130	2% 67% 33%
1	GQ	130	3% 66% 34%
1	GR	130	2% 62% 38%
1	GS	130	65% 35%
1	GT	130	2% 68% 32%
1	GU	130	2% 60% 40%
1	GV	130	% 69% 31%
1	GW	130	2% 68% 32%
1	GX	130	2% 62% 38%

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Mol	Chain	Length	Quality of chain
1	GY	130	2% 66% 34%
1	GZ	130	% 66% 34%
1	HA	130	% 62% 38%
1	HB	130	2% 67% 33%
1	HC	130	3% 68% 32%
1	HD	130	4% 63% 37%
1	HE	130	2% 65% 35%
1	HF	130	2% 65% 35%
1	HG	130	% 61% 39%
1	HH	130	% 66% 34%
1	HI	130	3% 66% 34%
1	HJ	130	2% 64% 36%
1	HK	130	% 66% 34%
1	HL	130	2% 66% 34%
1	HM	130	2% 62% 38%
1	HN	130	2% 67% 33%
1	HO	130	% 66% 34%
1	HP	130	% 61% 39%
1	HQ	130	% 68% 32%
1	HR	130	2% 66% 34%
1	HS	130	3% 60% 40%
1	HT	130	68% 32%
1	HU	130	2% 65% 35%
1	HV	130	2% 62% 38%
1	HW	130	2% 66% 34%

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Mol	Chain	Length	Quality of chain
1	HX	130	3% 66% 34%
1	HY	130	2% 65% 35%
1	HZ	130	% 66% 34%
1	IA	130	2% 66% 34%
1	IB	130	2% 64% 36%
1	IC	130	% 65% 35%
1	ID	130	5% 66% 34%
1	IE	130	61% 39%
1	IF	130	69% 31%
1	IG	130	3% 67% 33%
1	IH	130	% 62% 38%
1	II	130	2% 66% 34%
1	IJ	130	2% 64% 36%
1	IK	130	2% 62% 38%
1	IL	130	2% 67% 33%
1	IM	130	3% 67% 33%
1	IN	130	3% 62% 38%
1	IO	130	2% 66% 34%
1	IP	130	2% 64% 36%
1	IQ	130	2% 62% 38%
1	IR	130	65% 35%
1	IS	130	% 65% 35%
1	IT	130	60% 40%
1	IU	130	65% 35%
1	IV	130	2% 64% 36%

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Mol	Chain	Length	Quality of chain
1	IW	130	3% 63% 37%
1	IX	130	% 70% 30%
1	IY	130	2% 68% 32%
1	IZ	130	2% 62% 38%
1	JA	130	% 66% 34%
1	JB	130	% 67% 33%
1	JC	130	5% 60% 40%
1	JD	130	2% 67% 33%
1	JE	130	2% 67% 33%
1	JF	130	3% 55% 45%
1	JG	130	2% 67% 33%
1	JH	130	% 65% 35%
1	JI	130	2% 64% 36%
1	JJ	130	67% 33%
1	JK	130	4% 64% 36%
1	JL	130	2% 63% 37%
1	JM	130	68% 32%
1	JN	130	67% 33%
1	JO	130	3% 62% 38%
1	JP	130	2% 65% 35%
1	JQ	130	4% 66% 34%
1	JR	130	2% 64% 36%
1	JS	130	2% 68% 32%
1	JT	130	2% 68% 32%
1	JU	130	2% 62% 38%

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Mol	Chain	Length	Quality of chain
1	JV	130	2% 65% 35%
1	JW	130	2% 65% 35%
1	JX	130	2% 62% 38%
1	JY	130	% 67% 33%
1	JZ	130	2% 66% 34%
1	KA	130	% 62% 38%
1	KB	130	4% 68% 32%
1	KC	130	% 66% 34%
1	KD	130	2% 62% 38%
1	KE	130	2% 66% 34%
1	KF	130	2% 64% 36%
1	KG	130	2% 63% 37%
1	KH	130	2% 68% 32%
1	KI	130	% 68% 32%
1	KJ	130	4% 59% 41%
1	KK	130	67% 33%
1	KL	130	% 65% 35%
1	KM	130	2% 61% 39%
1	KN	130	% 68% 32%
1	KO	130	4% 65% 35%
1	KP	130	2% 62% 38%
1	KQ	130	2% 65% 35%
1	KR	130	2% 68% 32%
1	KS	130	5% 58% 42%
1	KT	130	% 66% 34%

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Mol	Chain	Length	Quality of chain
1	KU	130	2% 65% 35%
1	KV	130	3% 65% 35%
1	KW	130	% 67% 33%
1	KX	130	2% 65% 35%
1	KY	130	3% 62% 38%
1	KZ	130	2% 66% 34%
1	LA	130	% 67% 33%
1	LB	130	2% 62% 38%
1	LC	130	67% 33%
1	LD	130	2% 65% 35%
1	LE	130	% 62% 38%
1	LF	130	% 64% 36%
1	LG	130	2% 64% 36%
1	LH	130	2% 62% 38%
1	LI	130	2% 67% 33%
1	LJ	130	2% 65% 35%
1	LK	130	2% 62% 38%
1	LL	130	% 66% 34%
1	LM	130	2% 66% 34%
1	LN	130	2% 62% 38%
1	LO	130	% 66% 34%
1	LP	130	2% 66% 34%
1	LQ	130	4% 62% 38%
1	LR	130	68% 32%
1	LS	130	% 68% 32%

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Mol	Chain	Length	Quality of chain
1	LT	130	2% 62% 38%
1	LU	130	2% 68% 32%
1	LV	130	2% 67% 33%
1	LW	130	2% 62% 38%
1	LX	130	2% 66% 34%
1	LY	130	2% 65% 35%
1	LZ	130	% 64% 36%
1	MA	130	2% 66% 34%
1	MB	130	2% 65% 35%
1	MC	130	2% 61% 39%
1	MD	130	% 64% 36%
1	ME	130	3% 67% 33%
1	MF	130	% 62% 38%
1	MG	130	% 68% 32%
1	MH	130	2% 68% 32%
1	MI	130	2% 62% 38%
1	MJ	130	65% 35%
1	MK	130	% 68% 32%
1	ML	130	2% 63% 37%
1	MM	130	3% 66% 34%
1	MN	130	67% 33%
1	MO	130	% 61% 39%
1	MP	130	67% 33%
1	MQ	130	3% 67% 33%
1	MR	130	2% 54% 46%

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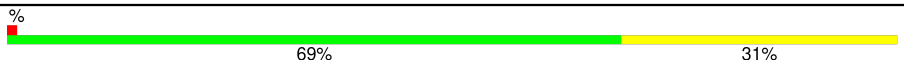
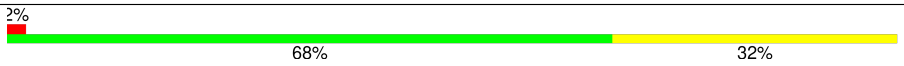
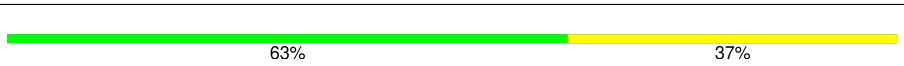
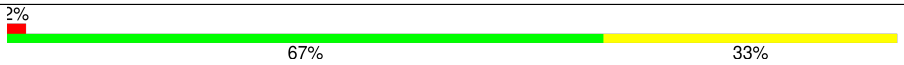
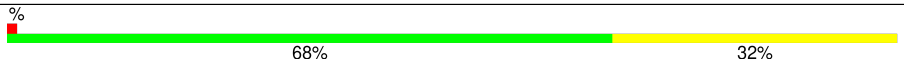
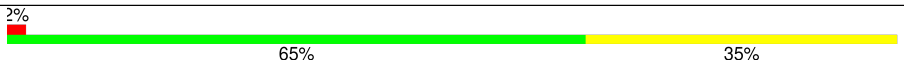
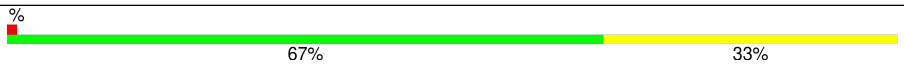
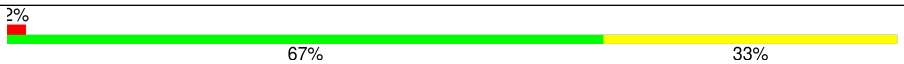
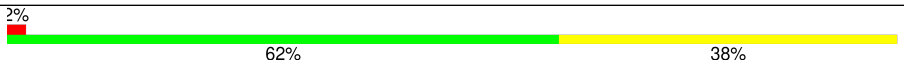
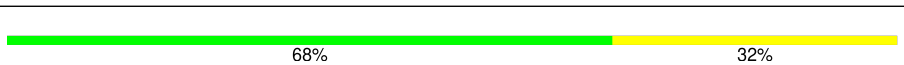
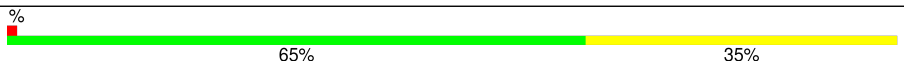
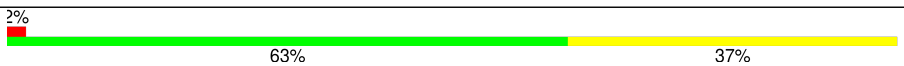
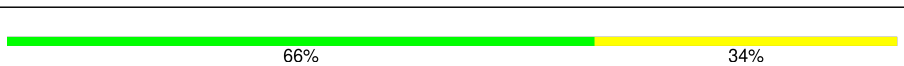
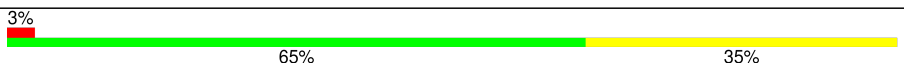
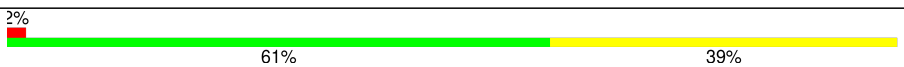
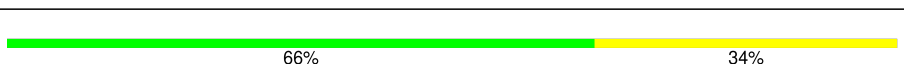
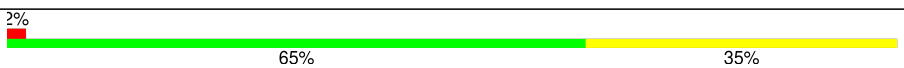
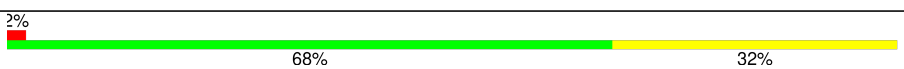
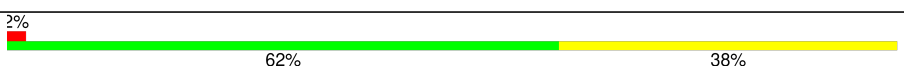
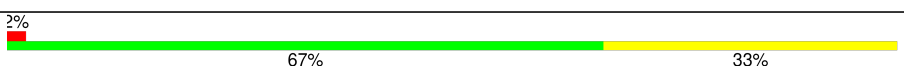
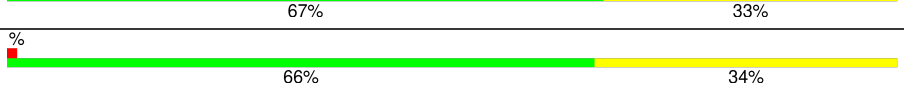
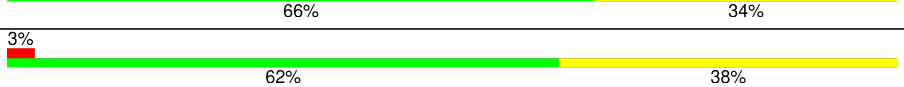
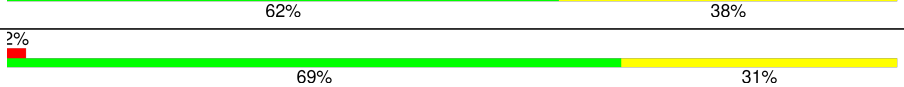
Mol	Chain	Length	Quality of chain
1	MS	130	
1	MT	130	
1	MU	130	
1	MV	130	
1	MW	130	
1	MX	130	
1	MY	130	
1	MZ	130	
1	NA	130	
1	NB	130	
1	NC	130	
1	ND	130	
1	NE	130	
1	NF	130	
1	NG	130	
1	NH	130	
1	NI	130	
1	NJ	130	
1	NK	130	
1	NL	130	
1	NM	130	
1	NN	130	
1	NO	130	
1	NP	130	
1	NQ	130	

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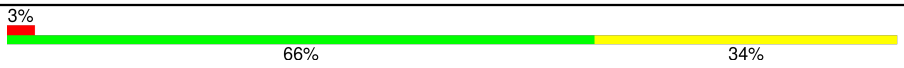
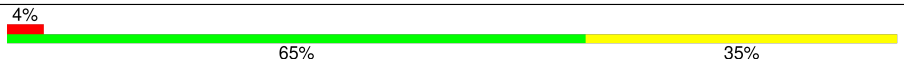
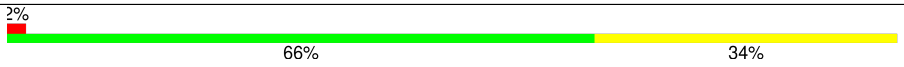
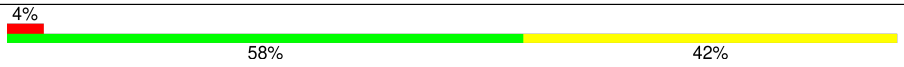
Mol	Chain	Length	Quality of chain
1	NR	130	
1	NS	130	
1	NT	130	
1	NU	130	
1	NV	130	

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 363000 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	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	BL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	CG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	DB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	DW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ED	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	ER	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ES	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ET	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	FM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	GH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	HC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	HX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ID	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	II	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	IS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	JN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	KI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	LD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	LY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ME	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ML	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	MT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ND	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	NO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	AB	1	Total	Ca	0	0
			1	1		
2	AH	1	Total	Ca	0	0
			1	1		
2	AJ	1	Total	Ca	0	0
			1	1		
2	AK	1	Total	Ca	0	0
			1	1		
2	AN	1	Total	Ca	0	0
			1	1		
2	AQ	1	Total	Ca	0	0
			1	1		
2	AT	1	Total	Ca	0	0
			1	1		
2	AW	1	Total	Ca	0	0
			1	1		
2	AZ	1	Total	Ca	0	0
			1	1		
2	BB	1	Total	Ca	0	0
			1	1		
2	BC	1	Total	Ca	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	BF	1	Total Ca 1 1	0	0
2	BI	1	Total Ca 1 1	0	0
2	BL	1	Total Ca 1 1	0	0
2	BO	1	Total Ca 1 1	0	0
2	BU	1	Total Ca 1 1	0	0
2	BX	1	Total Ca 1 1	0	0
2	CA	1	Total Ca 1 1	0	0
2	CD	1	Total Ca 1 1	0	0
2	CG	1	Total Ca 1 1	0	0
2	CJ	1	Total Ca 1 1	0	0
2	CM	1	Total Ca 1 1	0	0
2	CO	1	Total Ca 1 1	0	0
2	CP	1	Total Ca 1 1	0	0
2	CS	1	Total Ca 1 1	0	0
2	CV	1	Total Ca 1 1	0	0
2	CY	1	Total Ca 1 1	0	0
2	DB	1	Total Ca 1 1	0	0
2	DE	1	Total Ca 1 1	0	0
2	DH	1	Total Ca 1 1	0	0
2	DQ	1	Total Ca 1 1	0	0
2	DT	1	Total Ca 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	DW	1	Total Ca 1 1	0	0
2	DZ	1	Total Ca 1 1	0	0
2	EB	1	Total Ca 1 1	0	0
2	EC	1	Total Ca 1 1	0	0
2	EF	1	Total Ca 1 1	0	0
2	EI	1	Total Ca 1 1	0	0
2	EL	1	Total Ca 1 1	0	0
2	EO	1	Total Ca 1 1	0	0
2	ER	1	Total Ca 1 1	0	0
2	EU	1	Total Ca 1 1	0	0
2	EX	1	Total Ca 1 1	0	0
2	FA	1	Total Ca 1 1	0	0
2	FD	1	Total Ca 1 1	0	0
2	FG	1	Total Ca 1 1	0	0
2	FJ	1	Total Ca 1 1	0	0
2	FM	1	Total Ca 1 1	0	0
2	FS	1	Total Ca 1 1	0	0
2	FV	1	Total Ca 1 1	0	0
2	FY	1	Total Ca 1 1	0	0
2	GB	1	Total Ca 1 1	0	0
2	GE	1	Total Ca 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	GH	1	Total Ca 1 1	0	0
2	GK	1	Total Ca 1 1	0	0
2	GN	1	Total Ca 1 1	0	0
2	GQ	1	Total Ca 1 1	0	0
2	GS	1	Total Ca 1 1	0	0
2	GT	1	Total Ca 1 1	0	0
2	GW	1	Total Ca 1 1	0	0
2	GZ	1	Total Ca 1 1	0	0
2	HC	1	Total Ca 1 1	0	0
2	HF	1	Total Ca 1 1	0	0
2	HI	1	Total Ca 1 1	0	0
2	HL	1	Total Ca 1 1	0	0
2	HO	1	Total Ca 1 1	0	0
2	HR	1	Total Ca 1 1	0	0
2	HU	1	Total Ca 1 1	0	0
2	HX	1	Total Ca 1 1	0	0
2	IA	1	Total Ca 1 1	0	0
2	ID	1	Total Ca 1 1	0	0
2	IG	1	Total Ca 1 1	0	0
2	IJ	1	Total Ca 1 1	0	0
2	IM	1	Total Ca 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	IS	1	Total Ca 1 1	0	0
2	IV	1	Total Ca 1 1	0	0
2	IY	1	Total Ca 1 1	0	0
2	JB	1	Total Ca 1 1	0	0
2	JD	1	Total Ca 1 1	0	0
2	JE	1	Total Ca 1 1	0	0
2	JH	1	Total Ca 1 1	0	0
2	JN	1	Total Ca 1 1	0	0
2	JQ	1	Total Ca 1 1	0	0
2	JT	1	Total Ca 1 1	0	0
2	JW	1	Total Ca 1 1	0	0
2	JZ	1	Total Ca 1 1	0	0
2	KC	1	Total Ca 1 1	0	0
2	KF	1	Total Ca 1 1	0	0
2	KI	1	Total Ca 1 1	0	0
2	KL	1	Total Ca 1 1	0	0
2	KO	1	Total Ca 1 1	0	0
2	KR	1	Total Ca 1 1	0	0
2	KU	1	Total Ca 1 1	0	0
2	KX	1	Total Ca 1 1	0	0
2	KZ	1	Total Ca 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	LA	1	Total Ca 1 1	0	0
2	LD	1	Total Ca 1 1	0	0
2	LG	1	Total Ca 1 1	0	0
2	LJ	1	Total Ca 1 1	0	0
2	LM	1	Total Ca 1 1	0	0
2	LP	1	Total Ca 1 1	0	0
2	LS	1	Total Ca 1 1	0	0
2	LV	1	Total Ca 1 1	0	0
2	LY	1	Total Ca 1 1	0	0
2	MB	1	Total Ca 1 1	0	0
2	ME	1	Total Ca 1 1	0	0
2	MH	1	Total Ca 1 1	0	0
2	MK	1	Total Ca 1 1	0	0
2	MN	1	Total Ca 1 1	0	0
2	MQ	1	Total Ca 1 1	0	0
2	MT	1	Total Ca 1 1	0	0
2	MW	1	Total Ca 1 1	0	0
2	MZ	1	Total Ca 1 1	0	0
2	NC	1	Total Ca 1 1	0	0
2	NF	1	Total Ca 1 1	0	0
2	NI	1	Total Ca 1 1	0	0

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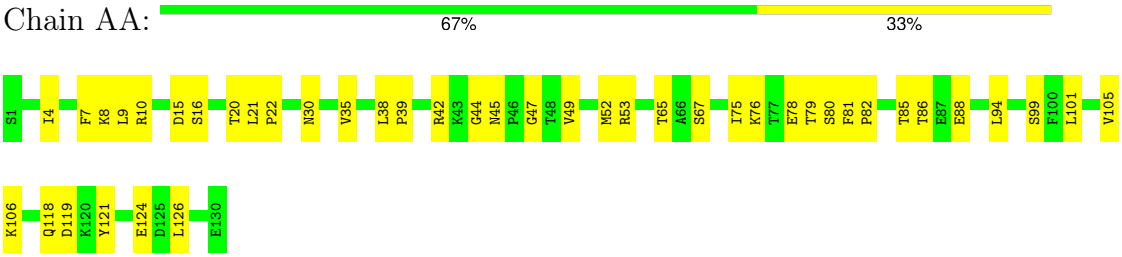
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	NL	1	Total Ca 1 1	0	0
2	NO	1	Total Ca 1 1	0	0
2	NR	1	Total Ca 1 1	0	0
2	NU	1	Total Ca 1 1	0	0

3 Residue-property plots (i)

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

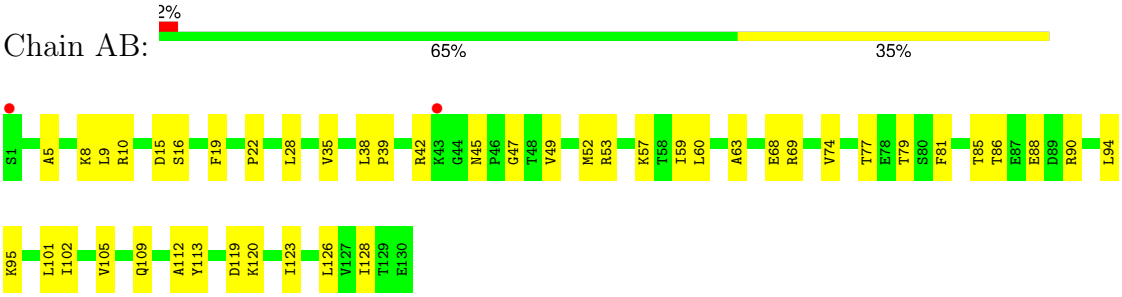
• Molecule 1: coat protein

Chain AA:



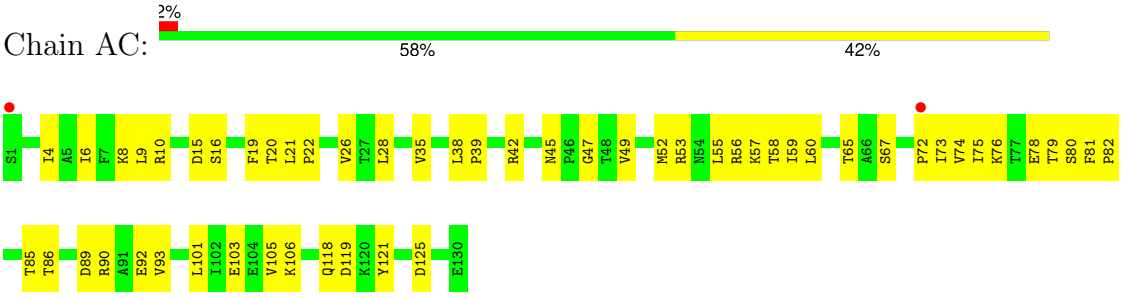
• Molecule 1: coat protein

Chain AB:



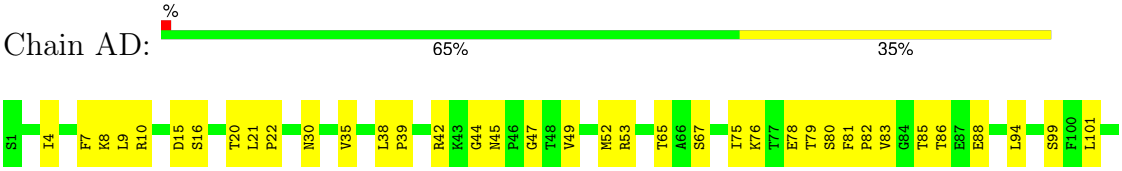
• Molecule 1: coat protein

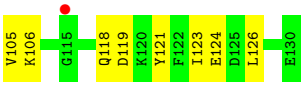
Chain AC:



• Molecule 1: coat protein

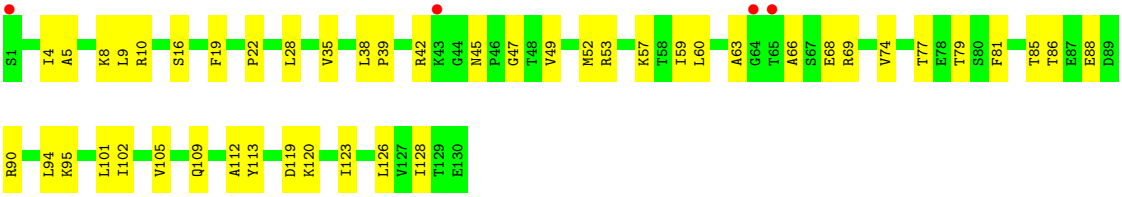
Chain AD:





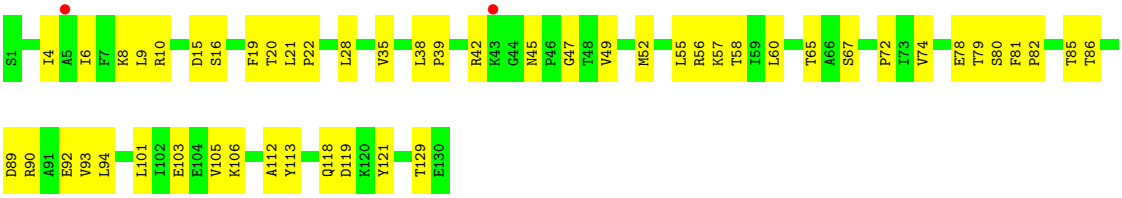
• Molecule 1: coat protein

Chain AE:



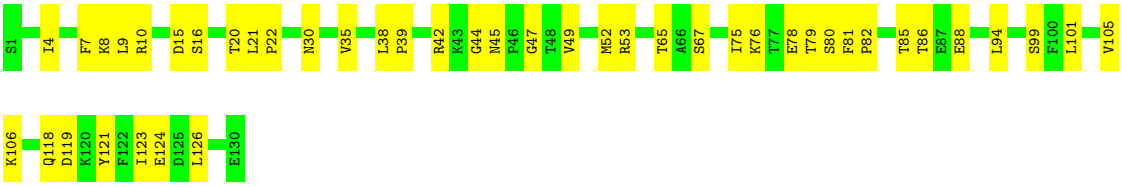
• Molecule 1: coat protein

Chain AF:



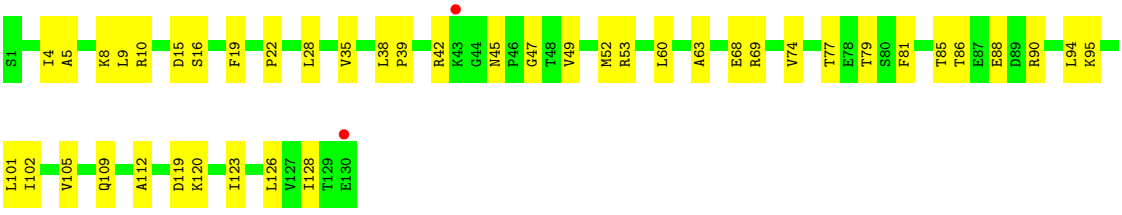
• Molecule 1: coat protein

Chain AG:



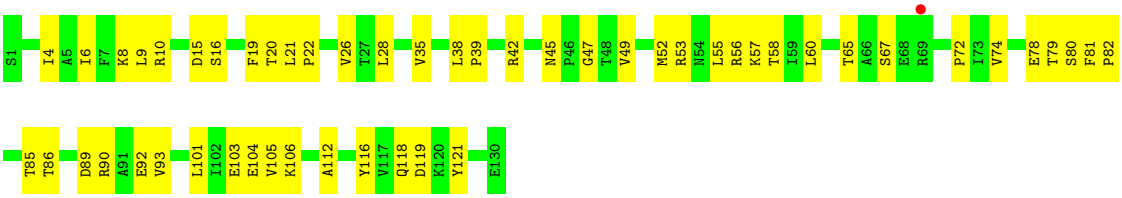
• Molecule 1: coat protein

Chain AH:



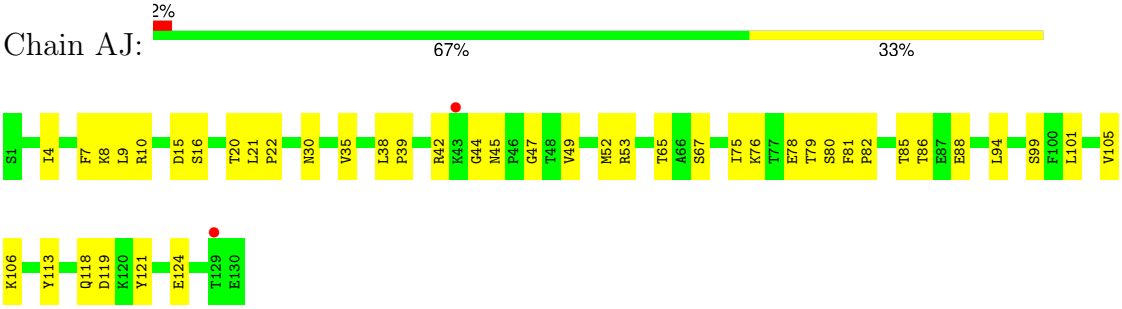
• Molecule 1: coat protein

Chain AI:



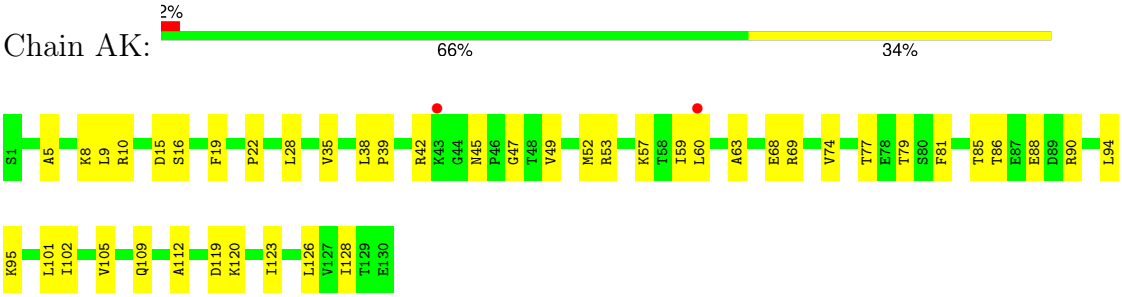
• Molecule 1: coat protein

Chain AJ:



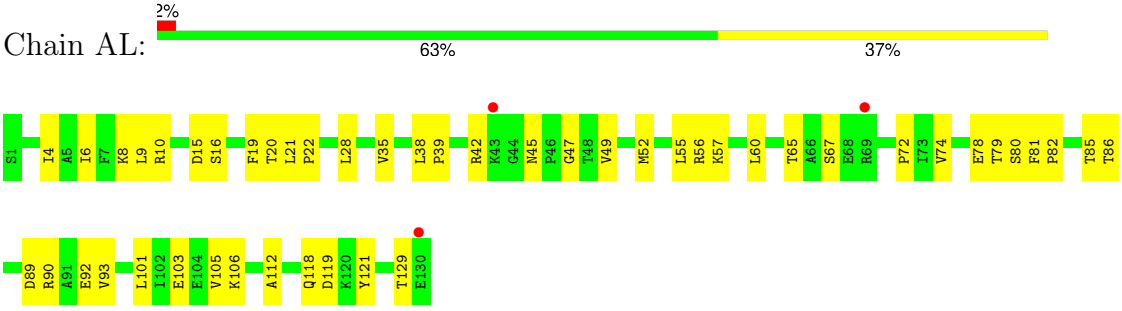
• Molecule 1: coat protein

Chain AK:



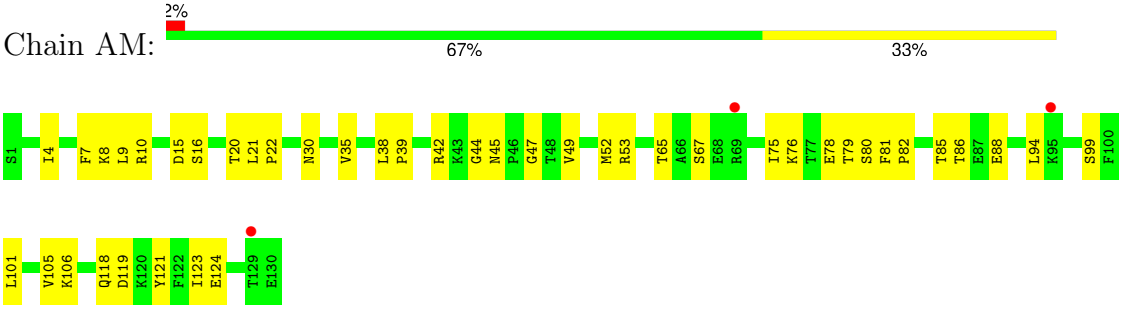
• Molecule 1: coat protein

Chain AL:



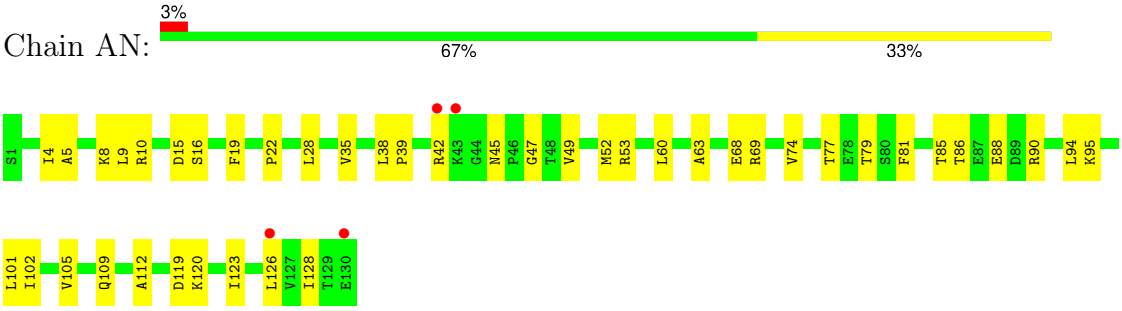
• Molecule 1: coat protein

Chain AM:



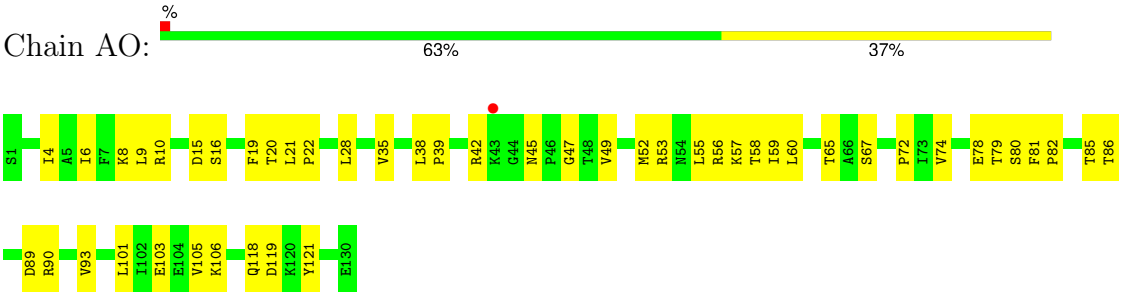
• Molecule 1: coat protein

Chain AN:



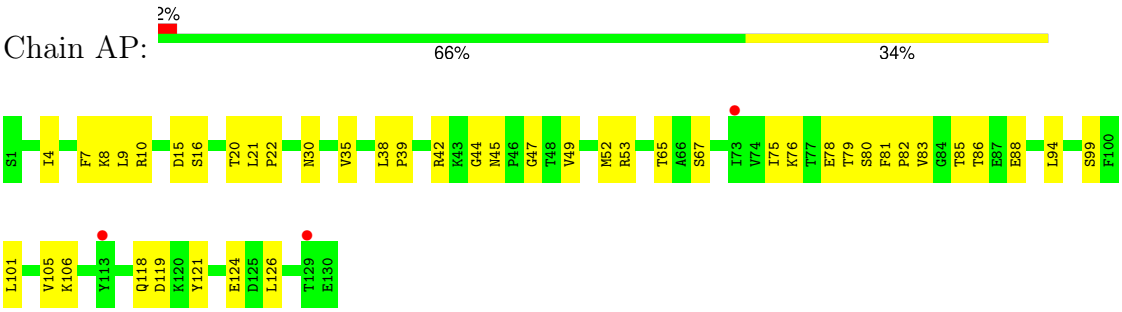
• Molecule 1: coat protein

Chain AO:



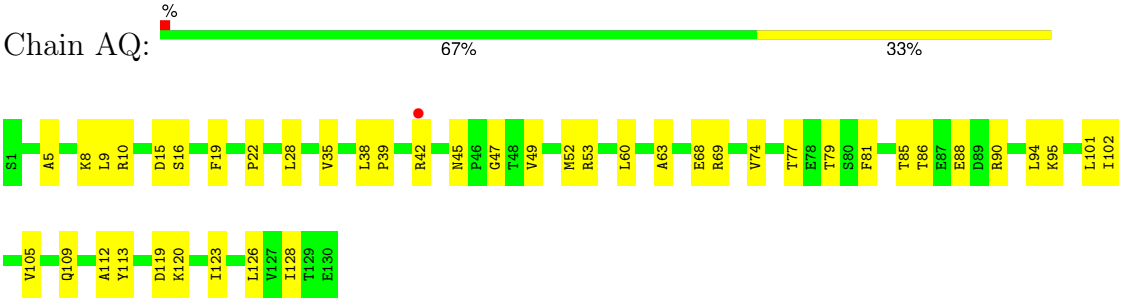
• Molecule 1: coat protein

Chain AP:



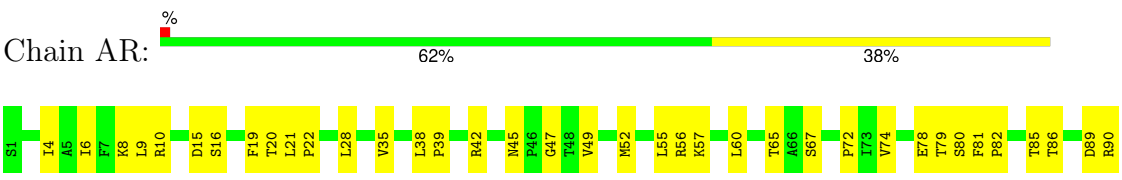
• Molecule 1: coat protein

Chain AQ:



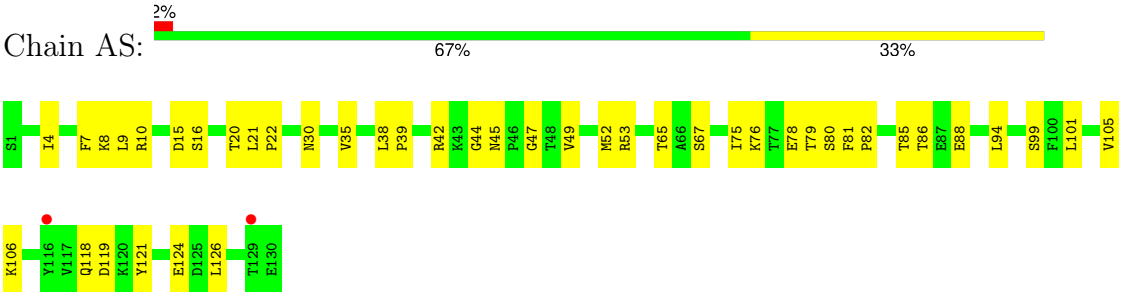
• Molecule 1: coat protein

Chain AR:



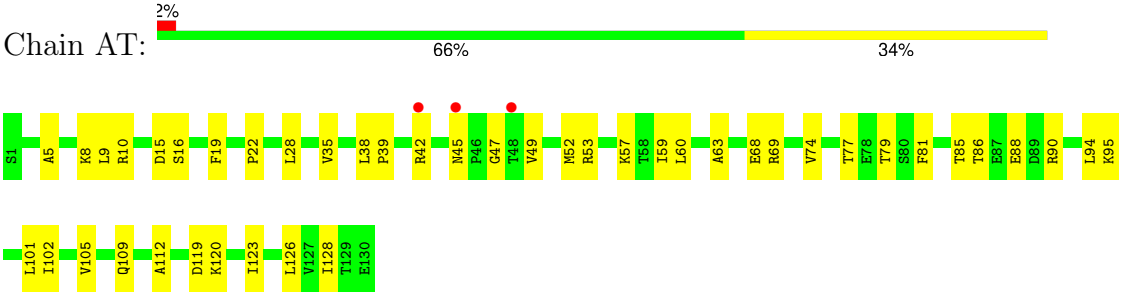
• Molecule 1: coat protein

Chain AS:



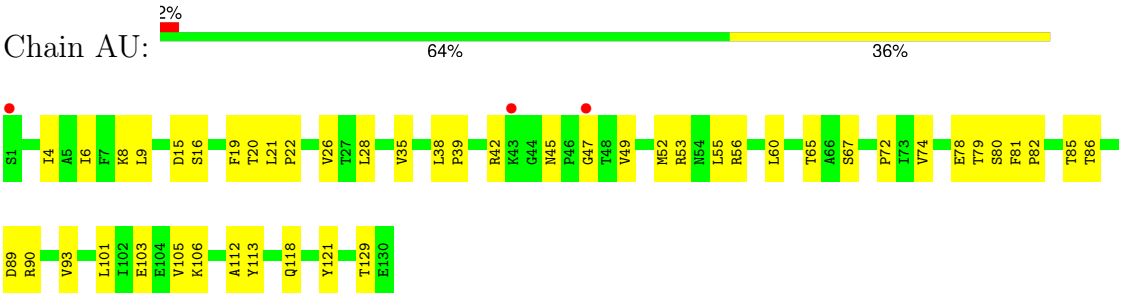
• Molecule 1: coat protein

Chain AT:



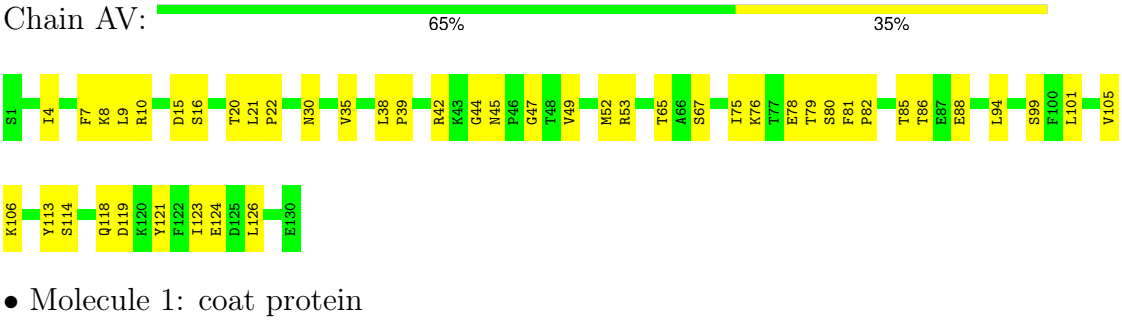
• Molecule 1: coat protein

Chain AU:



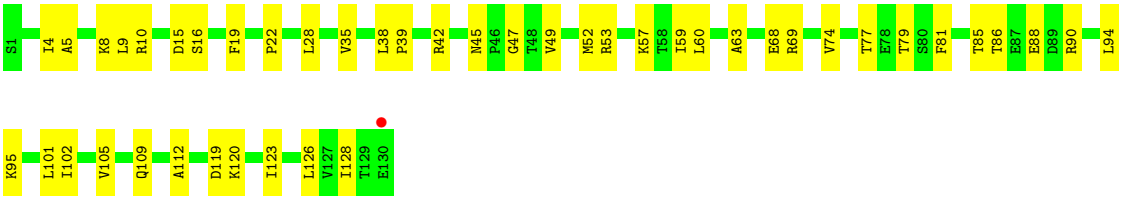
• Molecule 1: coat protein

Chain AV:



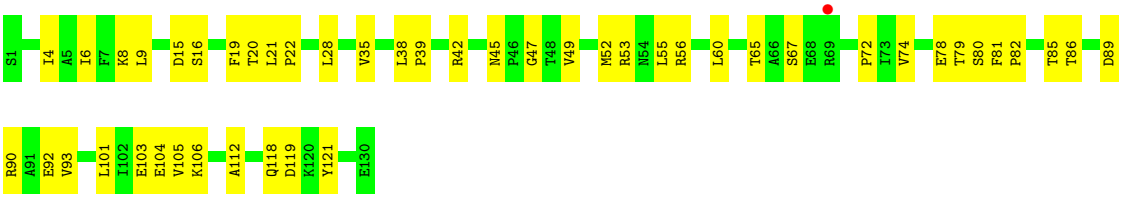
• Molecule 1: coat protein

Chain AW:



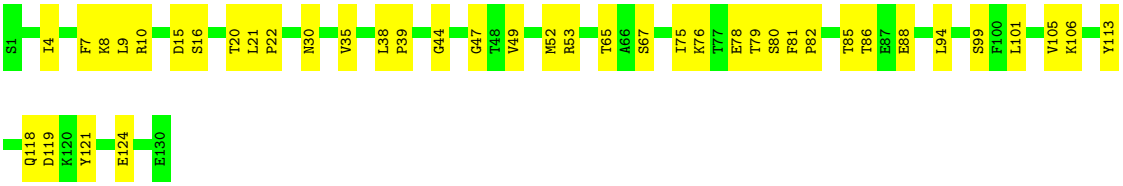
• Molecule 1: coat protein

Chain AX:



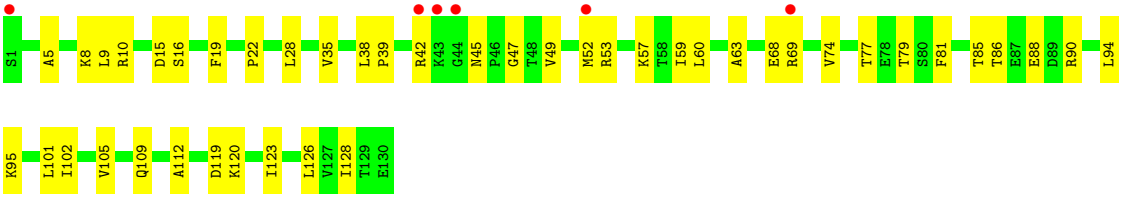
• Molecule 1: coat protein

Chain AY:



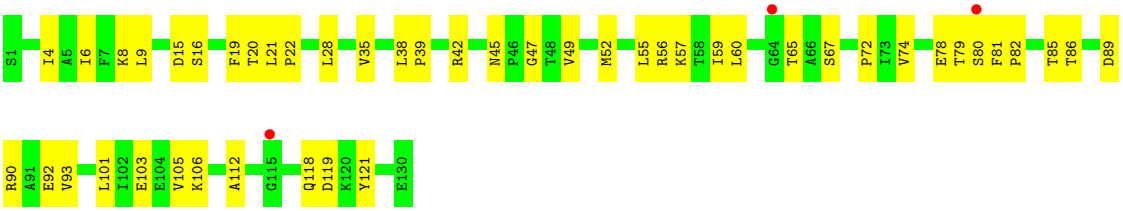
• Molecule 1: coat protein

Chain AZ:



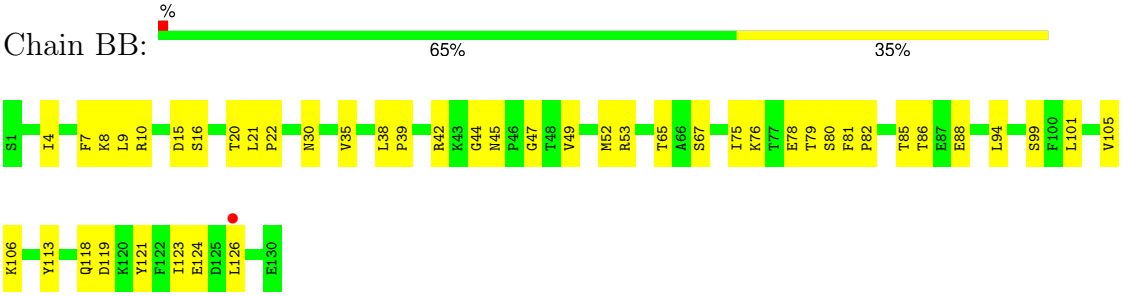
• Molecule 1: coat protein

Chain BA:



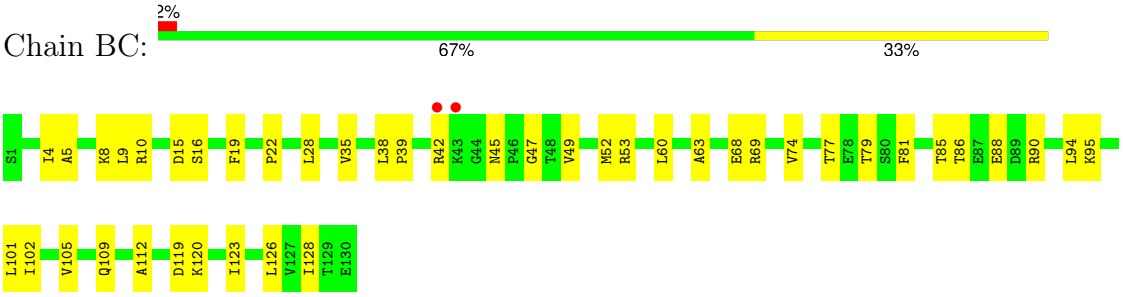
• Molecule 1: coat protein

Chain BB:



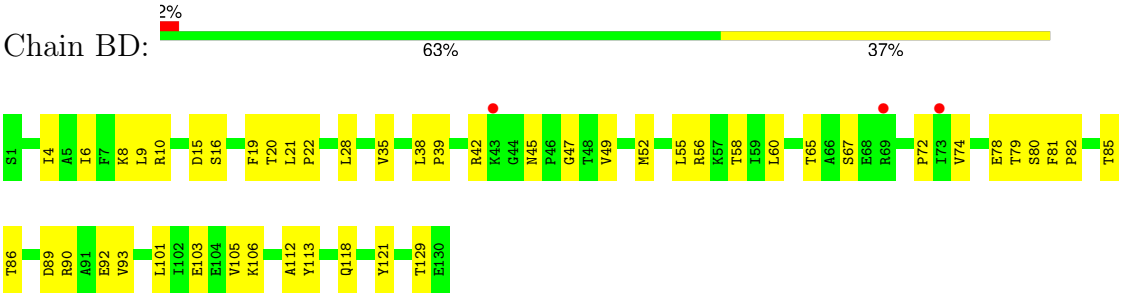
• Molecule 1: coat protein

Chain BC:



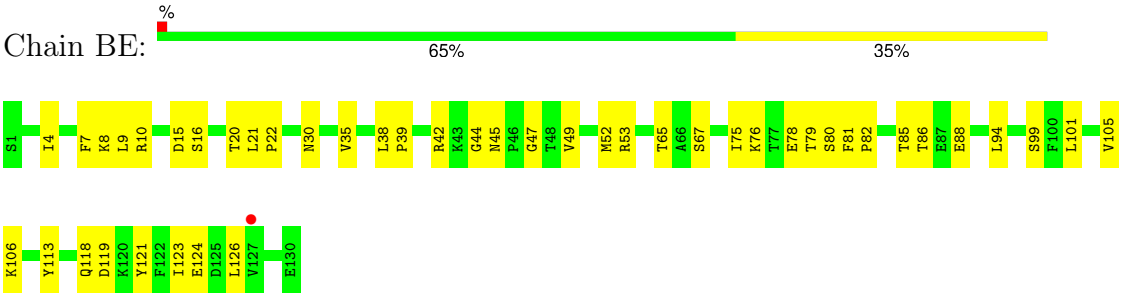
• Molecule 1: coat protein

Chain BD:



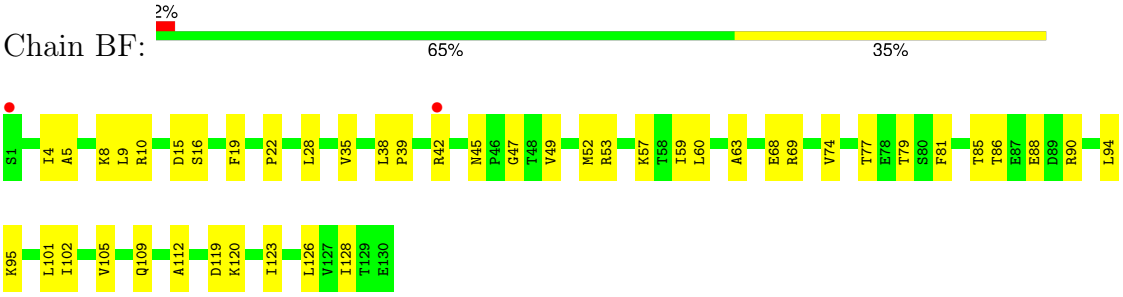
• Molecule 1: coat protein

Chain BE:



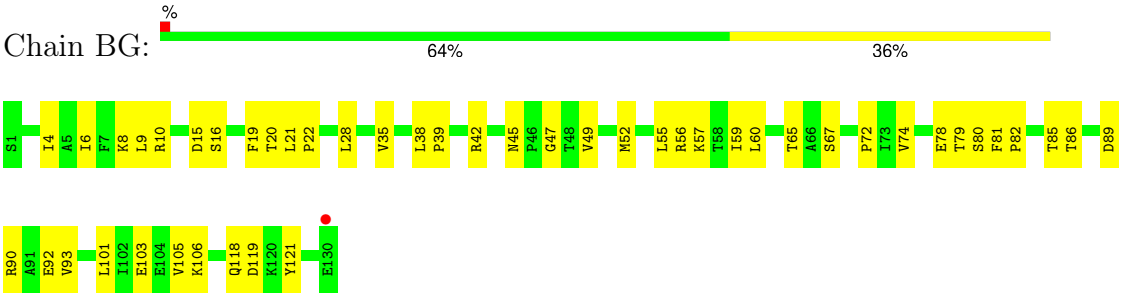
• Molecule 1: coat protein

Chain BF:



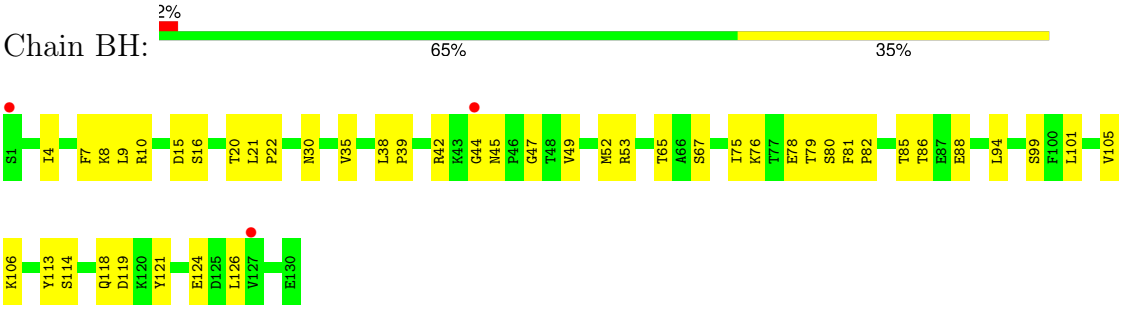
• Molecule 1: coat protein

Chain BG:



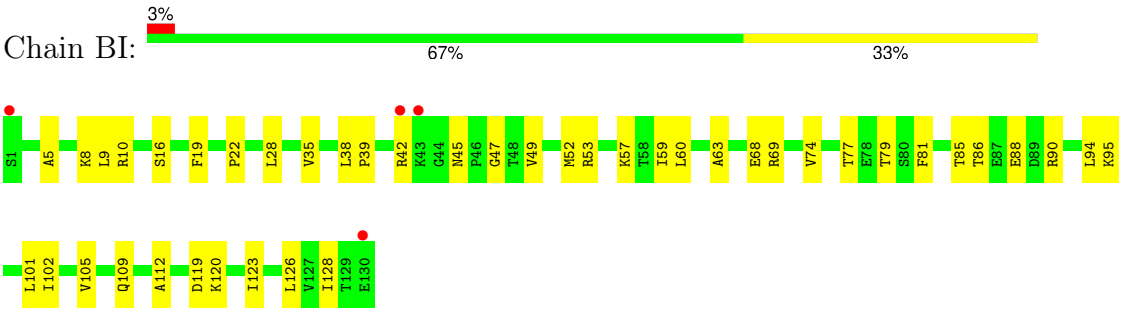
• Molecule 1: coat protein

Chain BH:



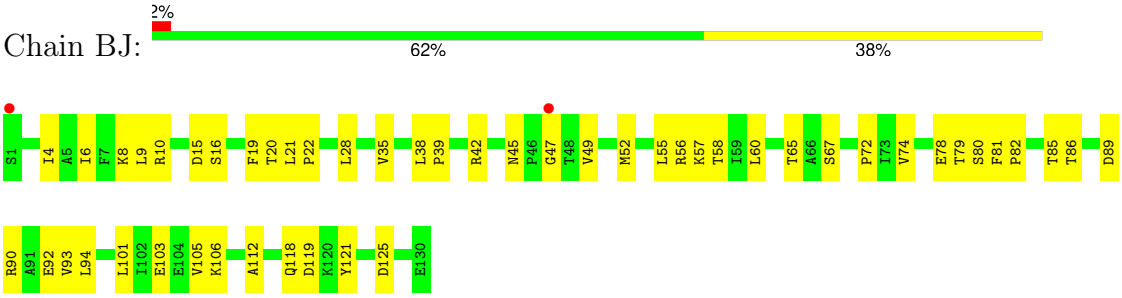
• Molecule 1: coat protein

Chain BI:



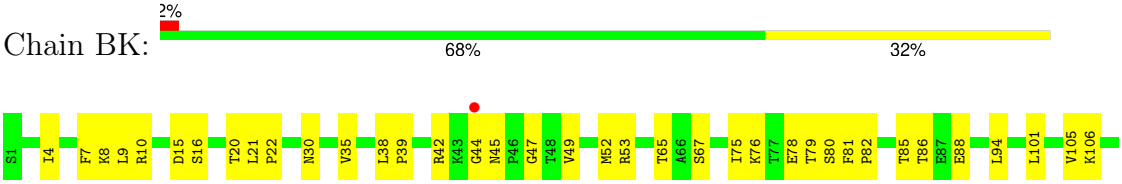
• Molecule 1: coat protein

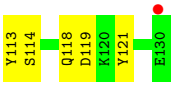
Chain BJ:



• Molecule 1: coat protein

Chain BK:



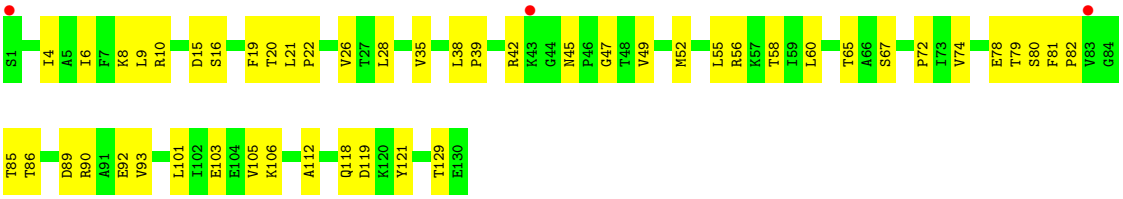


• Molecule 1: coat protein

Chain BL:

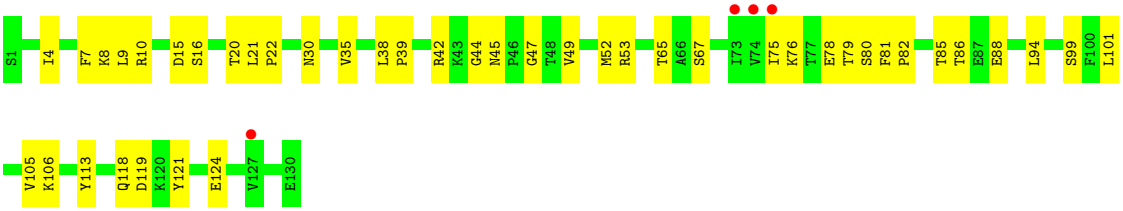
• Molecule 1: coat protein

Chain BM:



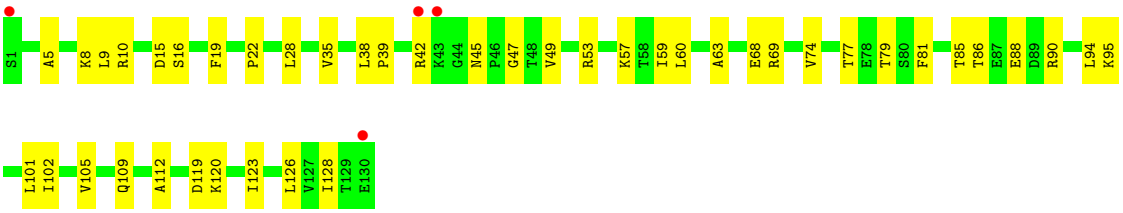
• Molecule 1: coat protein

Chain BN:



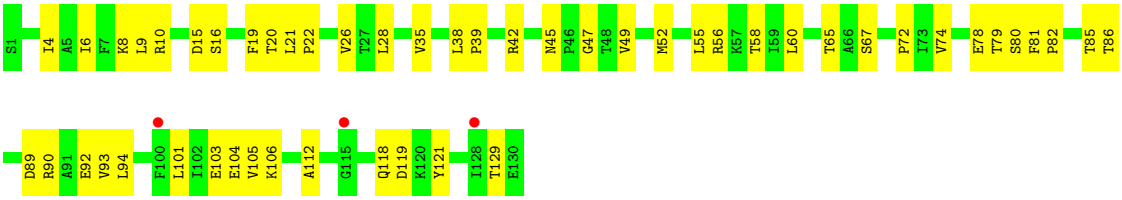
• Molecule 1: coat protein

Chain BO:



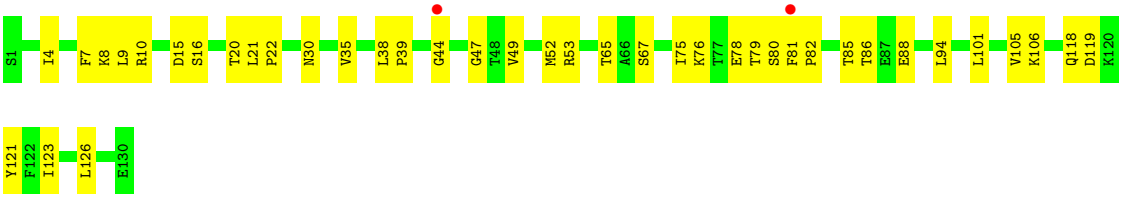
• Molecule 1: coat protein

Chain BP:



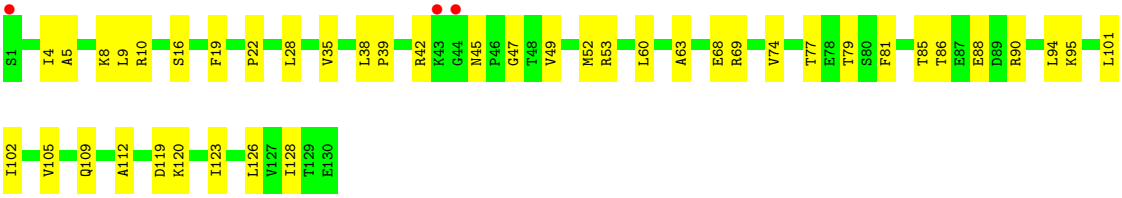
• Molecule 1: coat protein

Chain BQ:



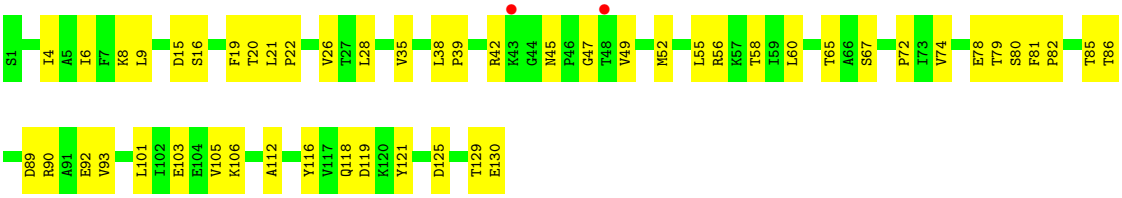
• Molecule 1: coat protein

Chain BR:



• Molecule 1: coat protein

Chain BS:

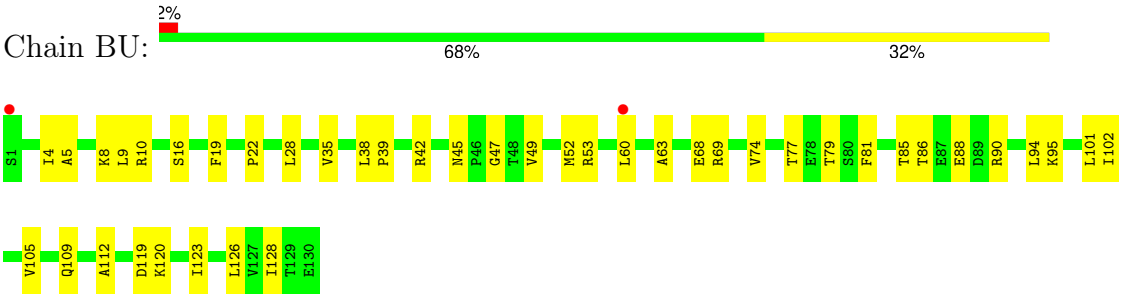


• Molecule 1: coat protein

Chain BT:

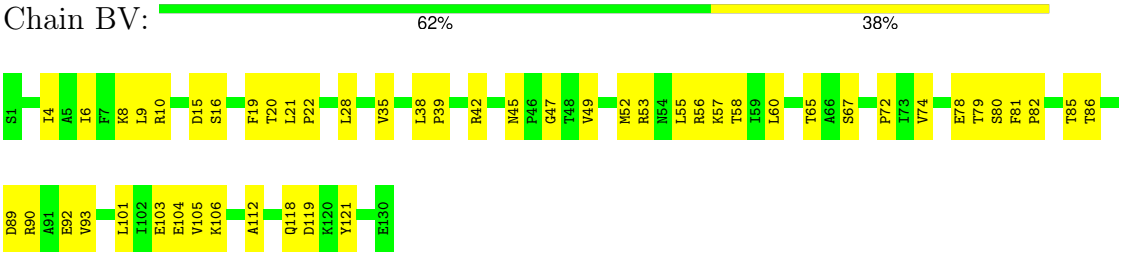
• Molecule 1: coat protein

Chain BU:



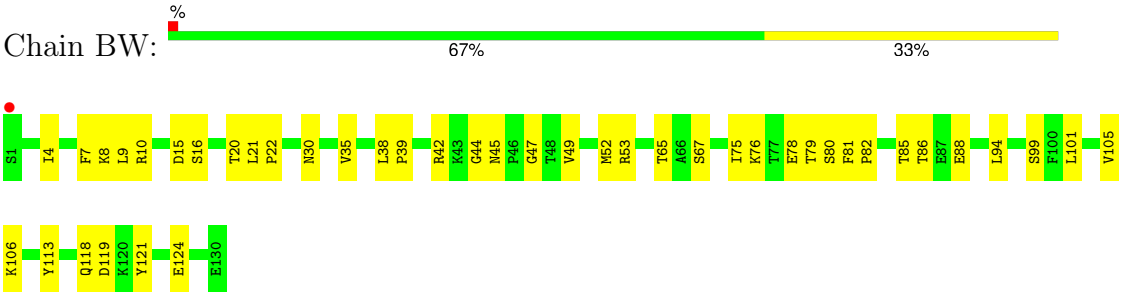
• Molecule 1: coat protein

Chain BV:



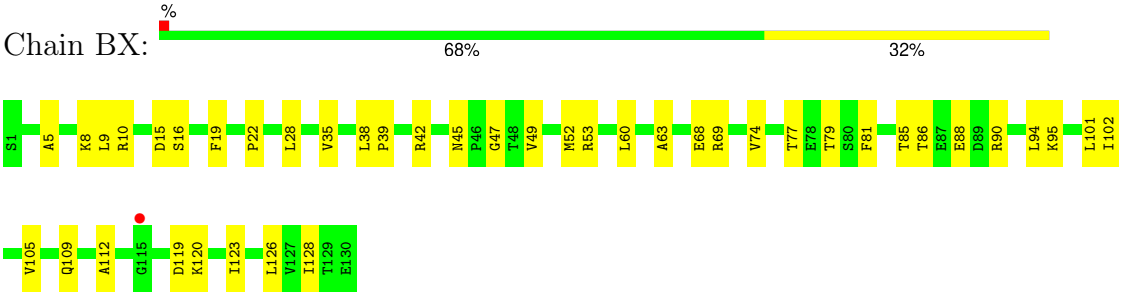
• Molecule 1: coat protein

Chain BW:



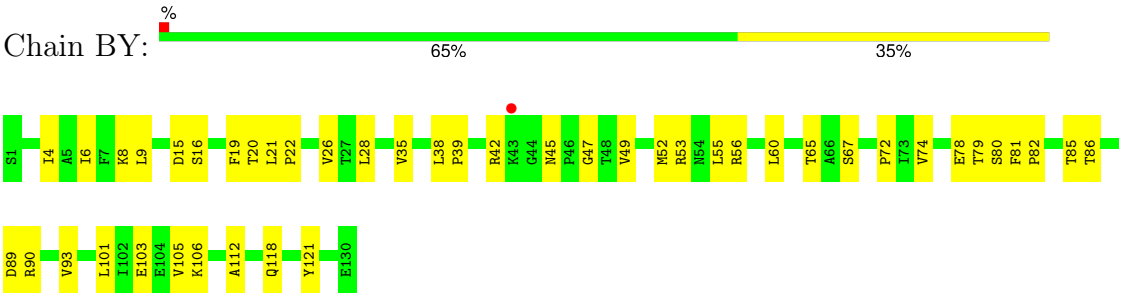
• Molecule 1: coat protein

Chain BX:



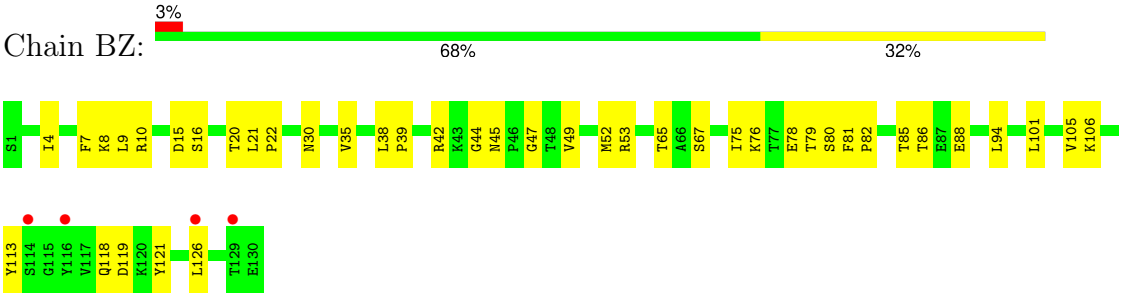
• Molecule 1: coat protein

Chain BY:



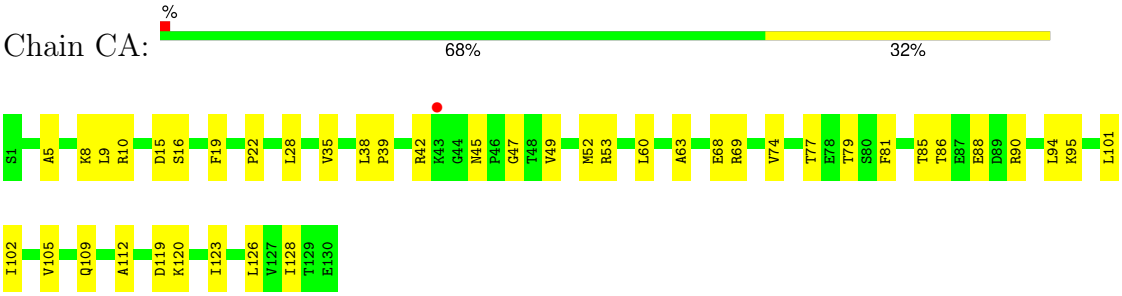
• Molecule 1: coat protein

Chain BZ:



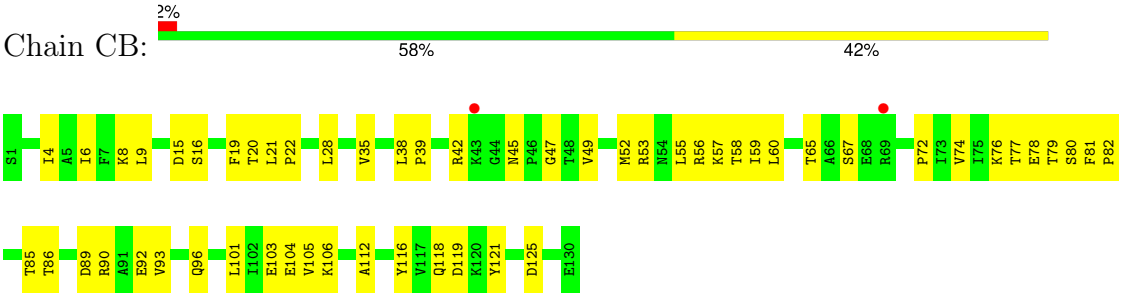
• Molecule 1: coat protein

Chain CA:



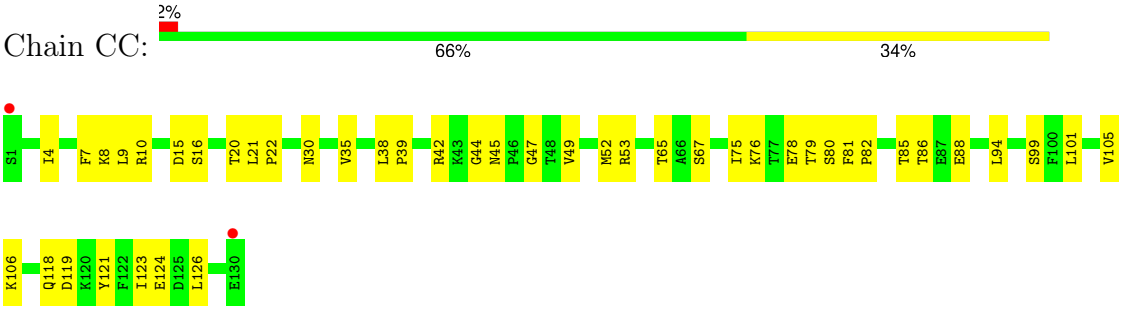
• Molecule 1: coat protein

Chain CB:



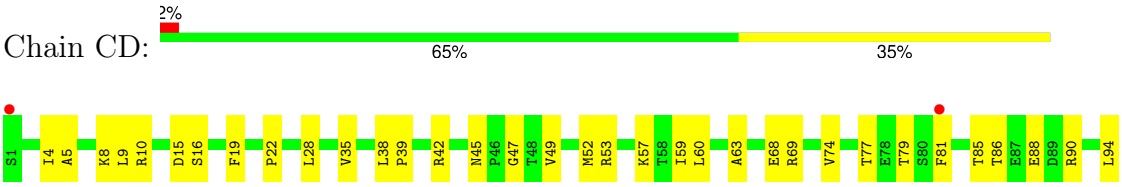
• Molecule 1: coat protein

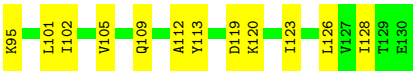
Chain CC:



• Molecule 1: coat protein

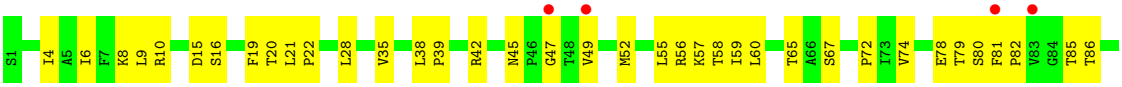
Chain CD:

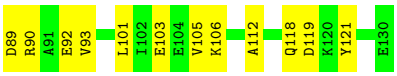




• Molecule 1: coat protein

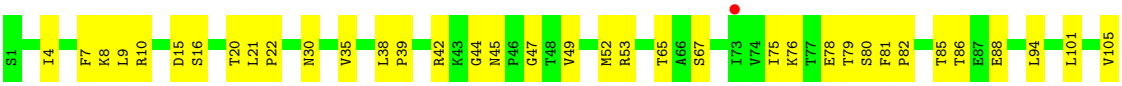
Chain CE:

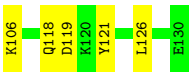




• Molecule 1: coat protein

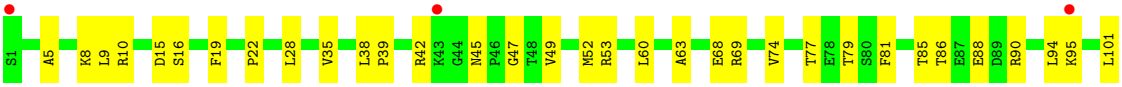
Chain CF:





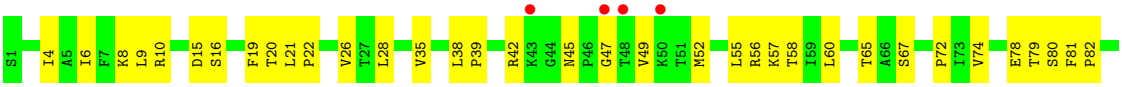
• Molecule 1: coat protein

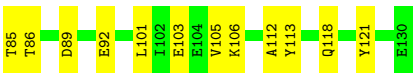
Chain CG:



• Molecule 1: coat protein

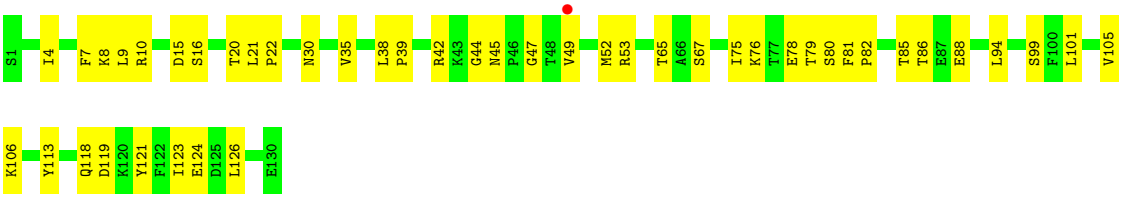
Chain CH:





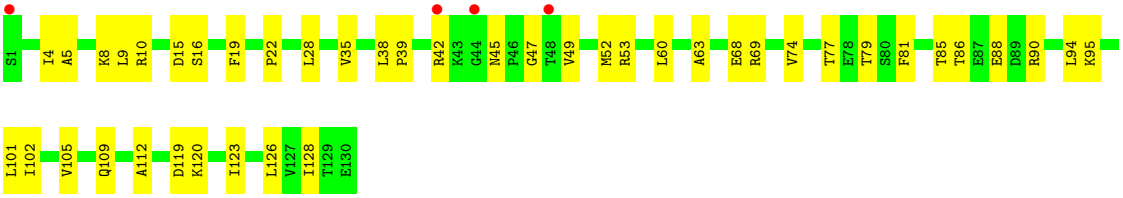
• Molecule 1: coat protein

Chain CI:



• Molecule 1: coat protein

Chain CJ:



• Molecule 1: coat protein

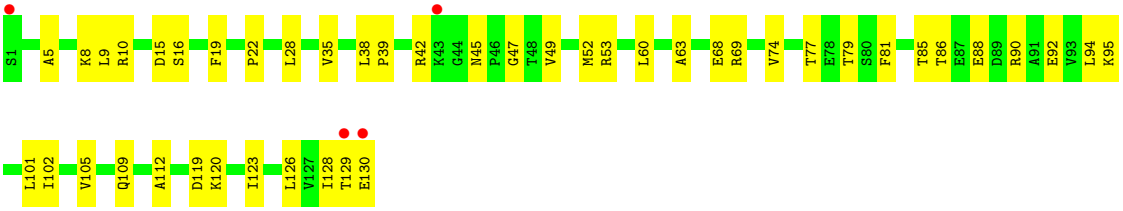
Chain CK:

• Molecule 1: coat protein

Chain CL:

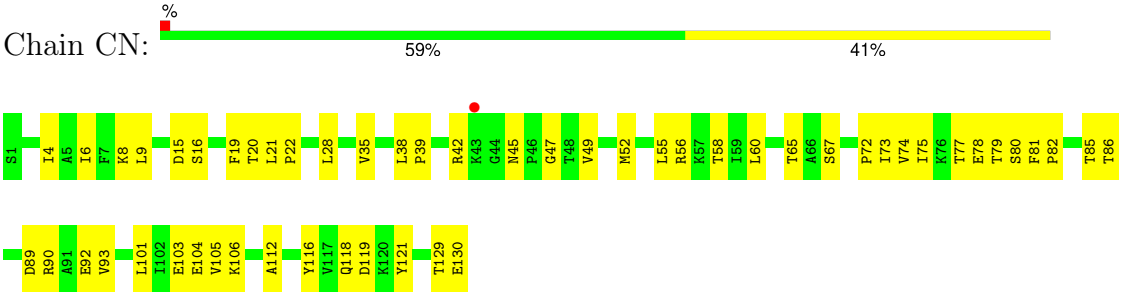
• Molecule 1: coat protein

Chain CM:



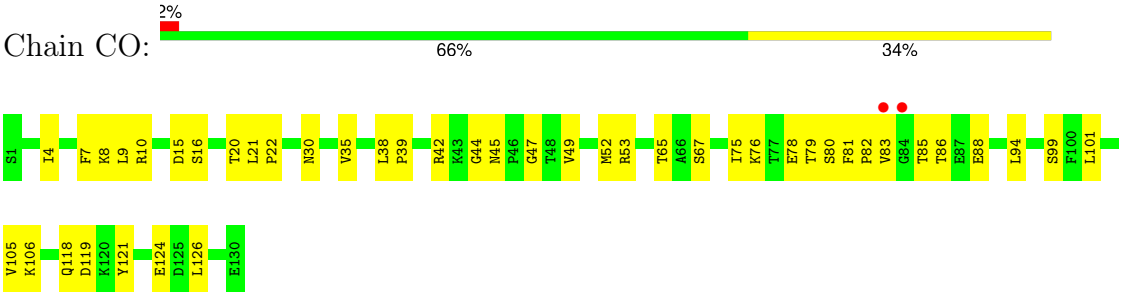
• Molecule 1: coat protein

Chain CN:



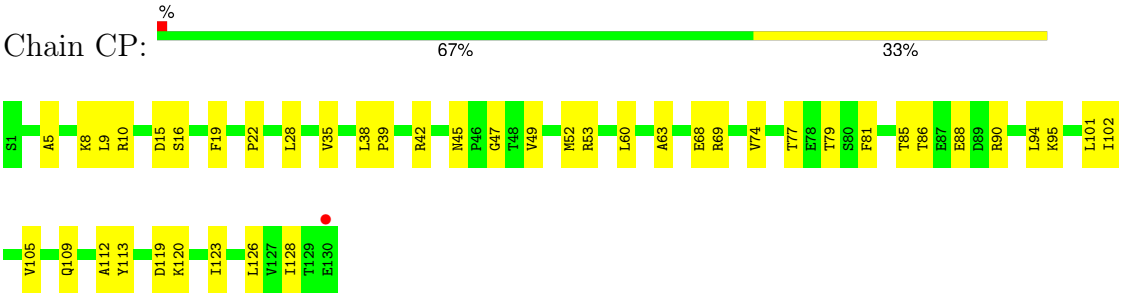
• Molecule 1: coat protein

Chain CO:



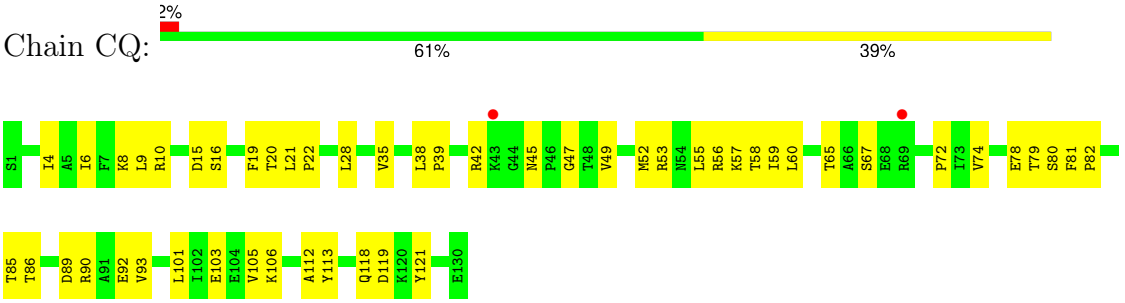
• Molecule 1: coat protein

Chain CP:



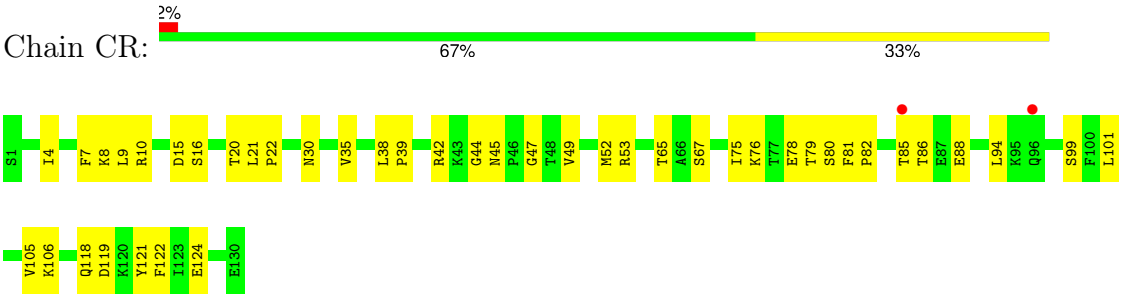
• Molecule 1: coat protein

Chain CQ:



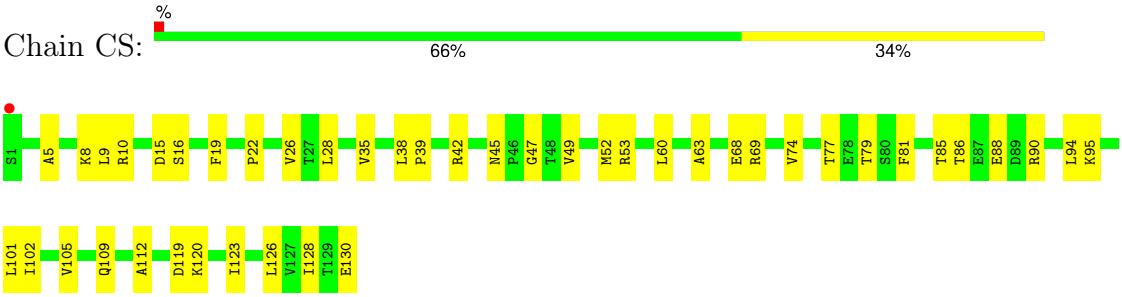
• Molecule 1: coat protein

Chain CR:



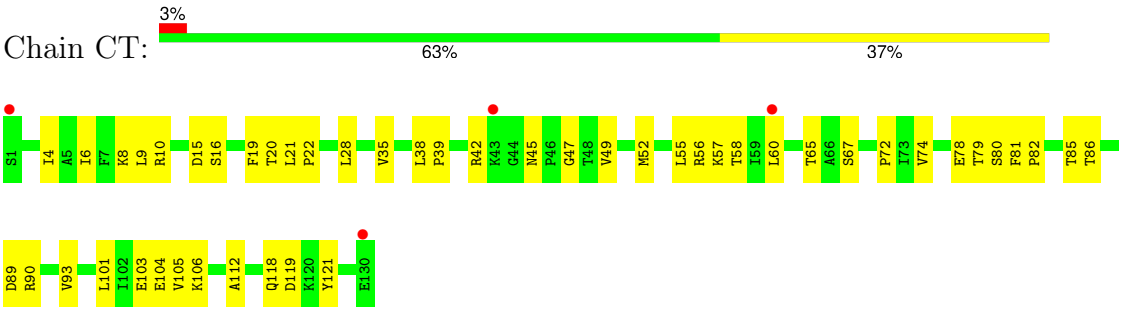
• Molecule 1: coat protein

Chain CS:



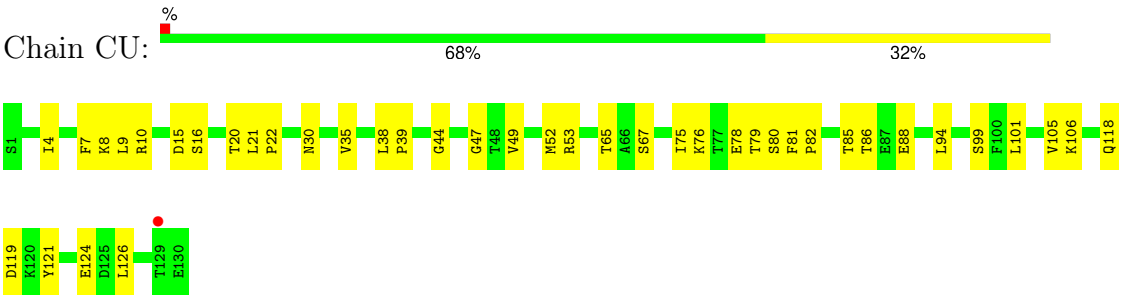
• Molecule 1: coat protein

Chain CT:



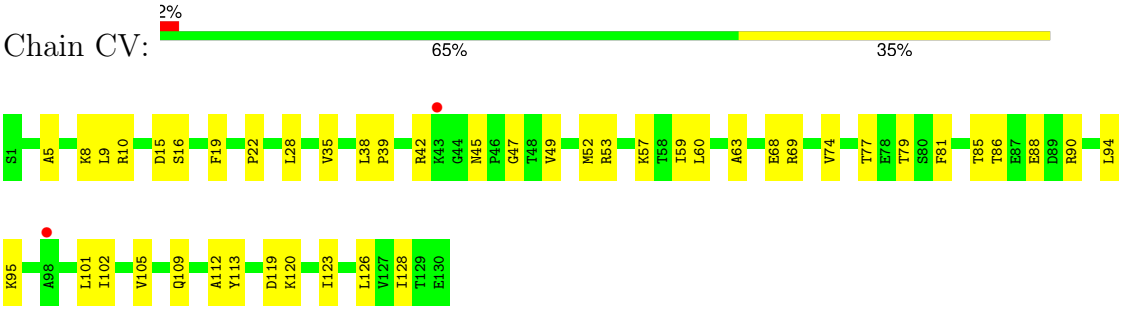
• Molecule 1: coat protein

Chain CU:



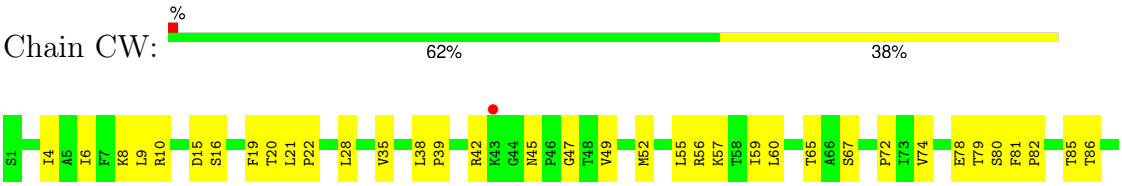
• Molecule 1: coat protein

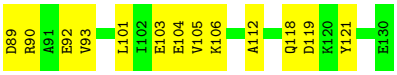
Chain CV:



• Molecule 1: coat protein

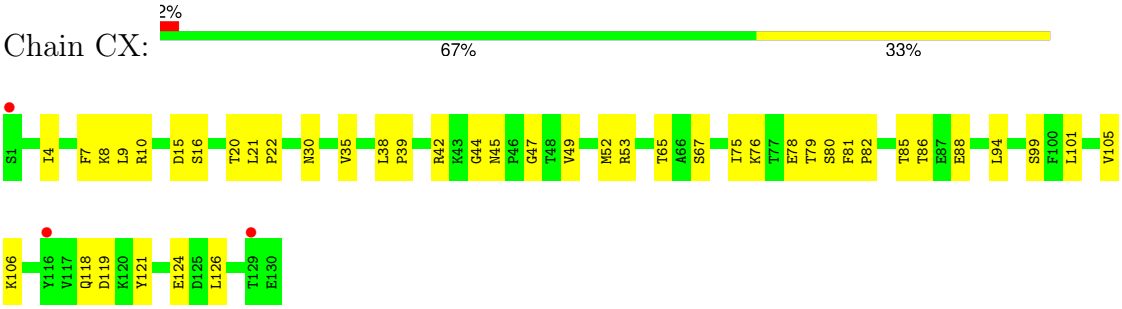
Chain CW:





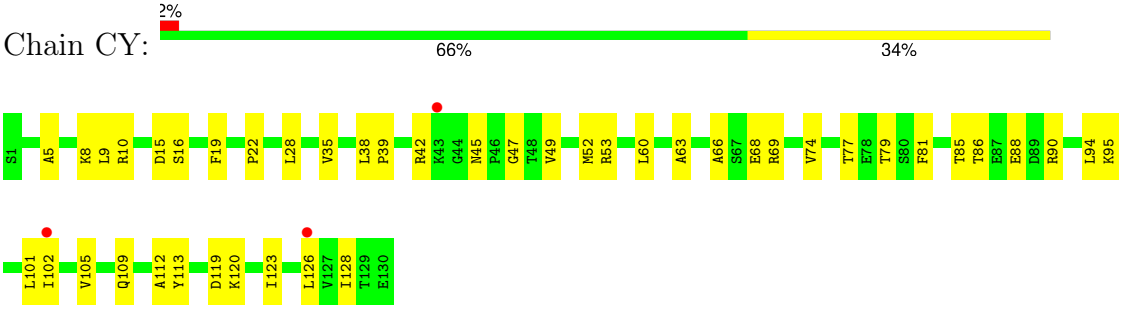
• Molecule 1: coat protein

Chain CX:



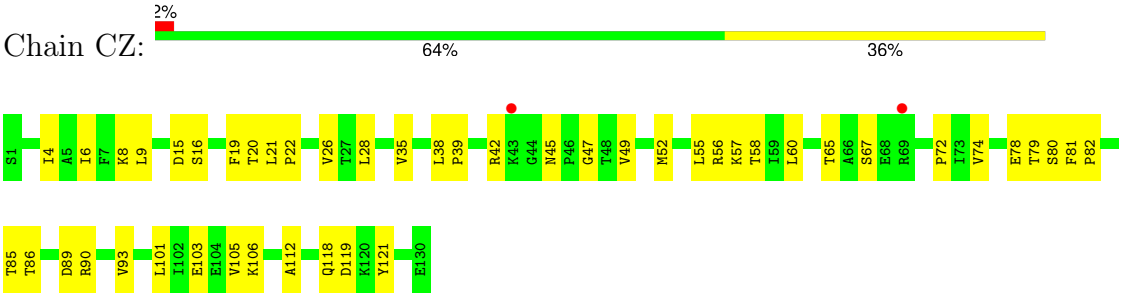
• Molecule 1: coat protein

Chain CY:



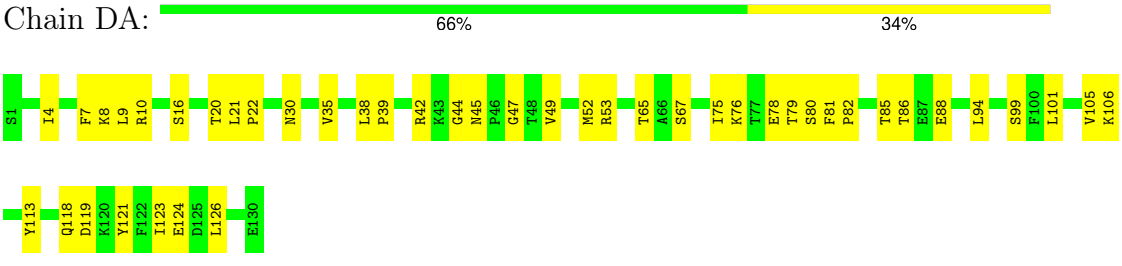
• Molecule 1: coat protein

Chain CZ:



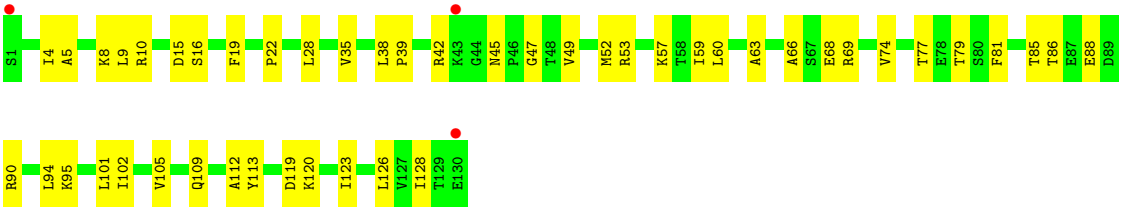
• Molecule 1: coat protein

Chain DA:



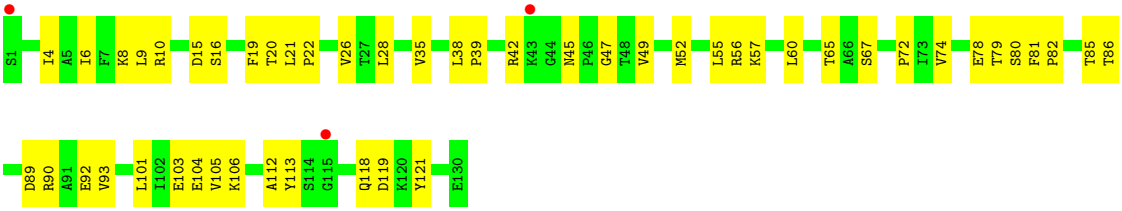
• Molecule 1: coat protein

Chain DB:



• Molecule 1: coat protein

Chain DC:

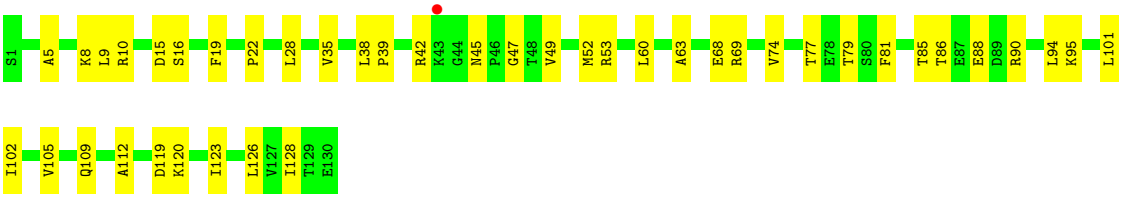


• Molecule 1: coat protein

Chain DD:

• Molecule 1: coat protein

Chain DE:

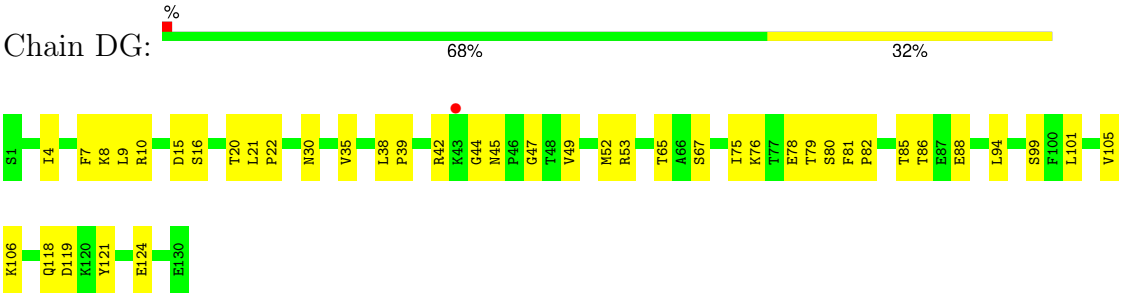


• Molecule 1: coat protein

Chain DF:

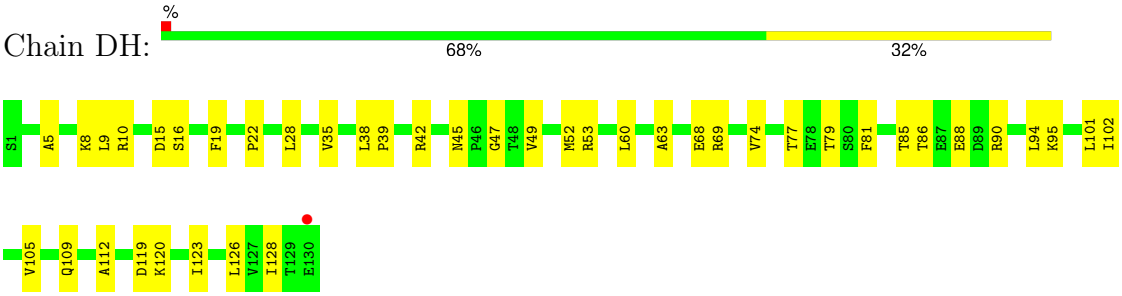
• Molecule 1: coat protein

Chain DG:



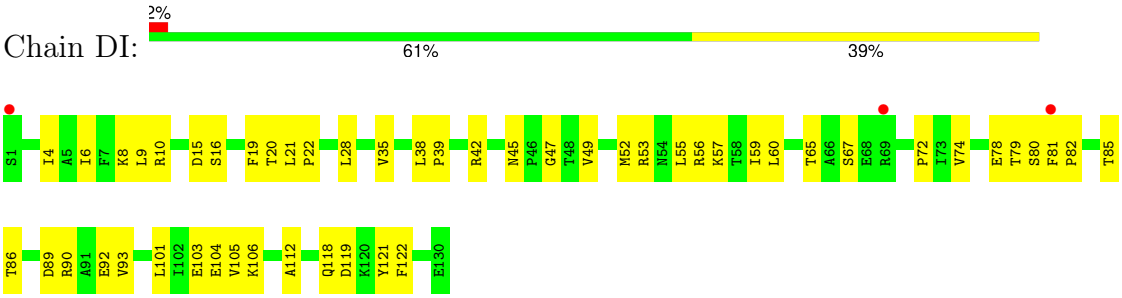
• Molecule 1: coat protein

Chain DH:



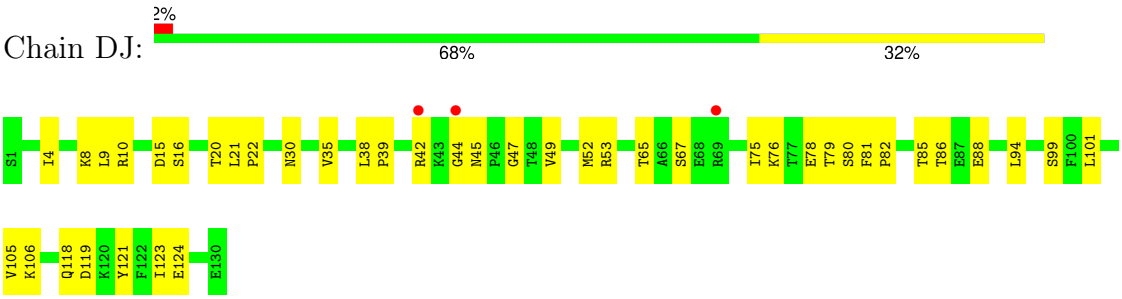
• Molecule 1: coat protein

Chain DI:



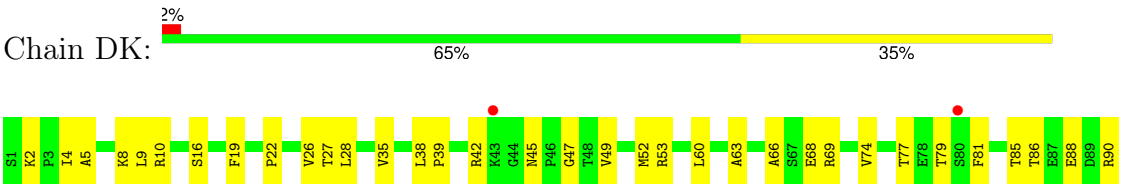
• Molecule 1: coat protein

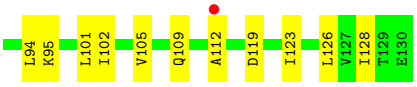
Chain DJ:



• Molecule 1: coat protein

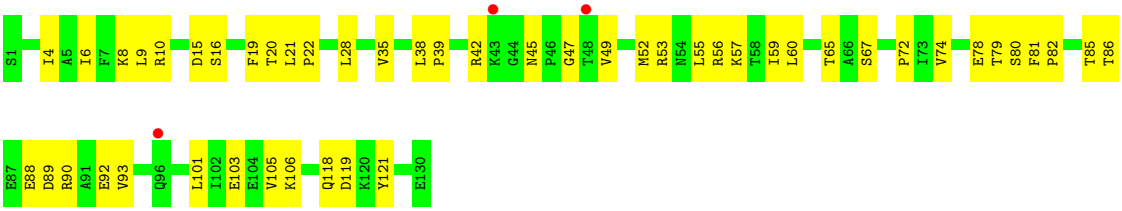
Chain DK:





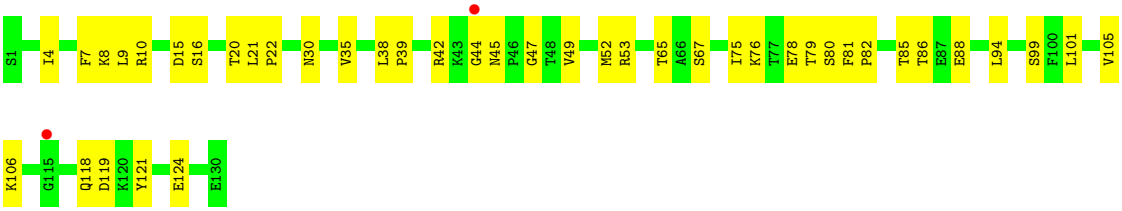
• Molecule 1: coat protein

Chain DL:



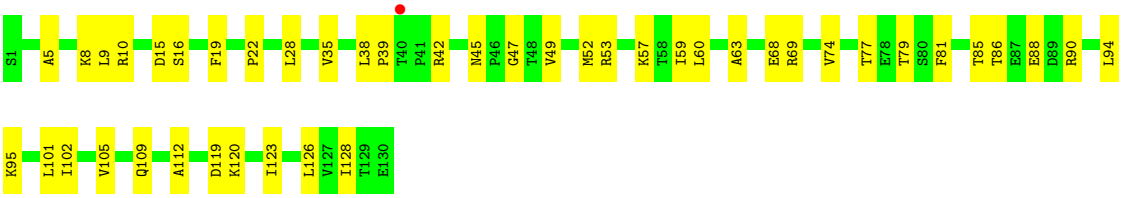
• Molecule 1: coat protein

Chain DM:



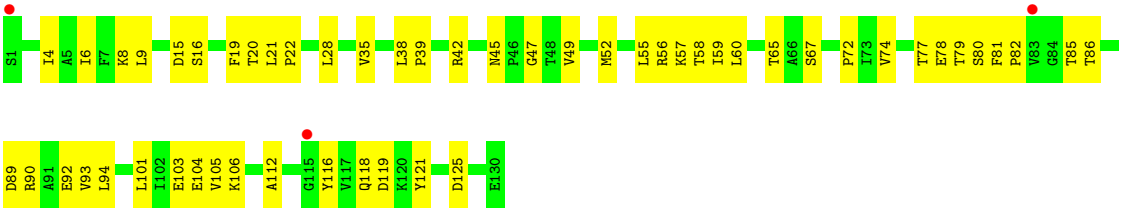
• Molecule 1: coat protein

Chain DN:



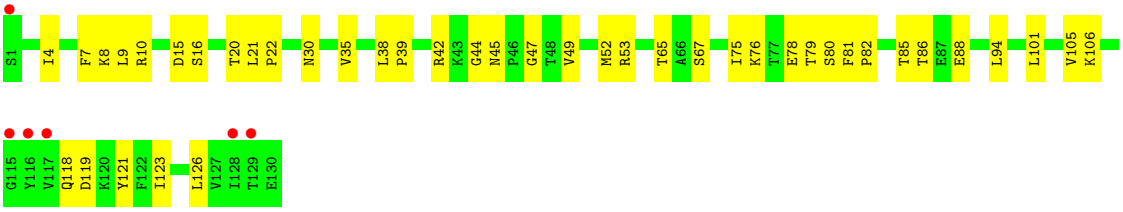
• Molecule 1: coat protein

Chain DO:



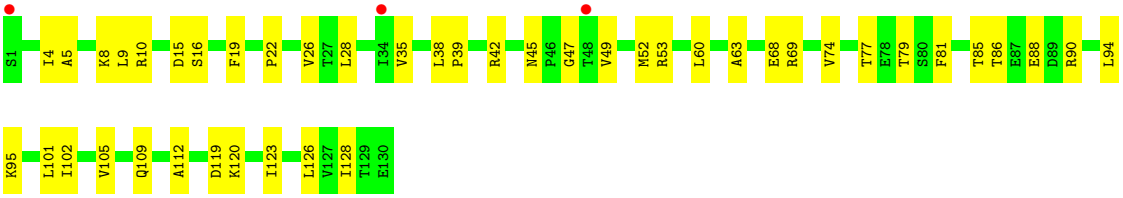
• Molecule 1: coat protein

Chain DP:



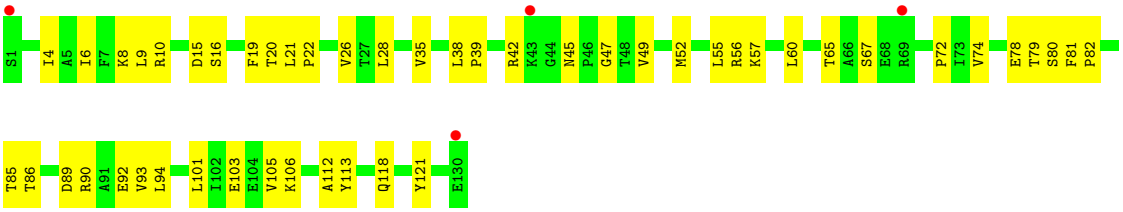
• Molecule 1: coat protein

Chain DQ:



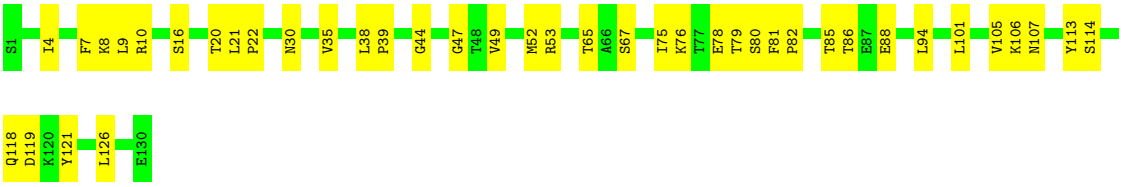
• Molecule 1: coat protein

Chain DR:



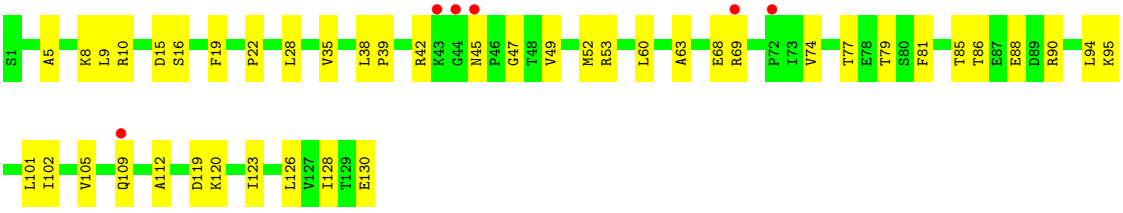
• Molecule 1: coat protein

Chain DS:



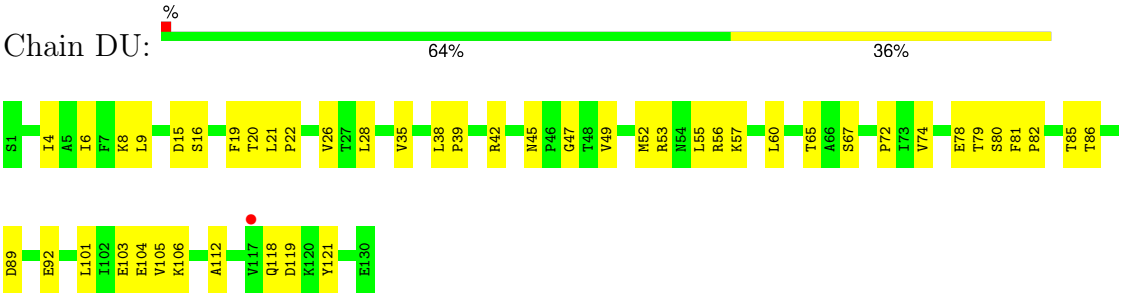
• Molecule 1: coat protein

Chain DT:



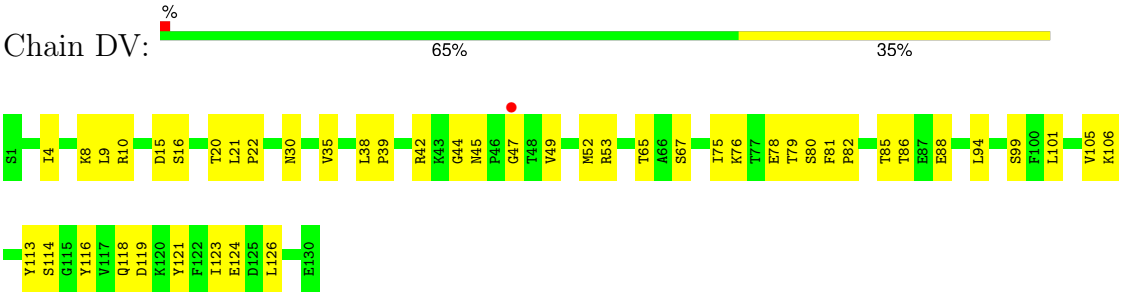
• Molecule 1: coat protein

Chain DU:



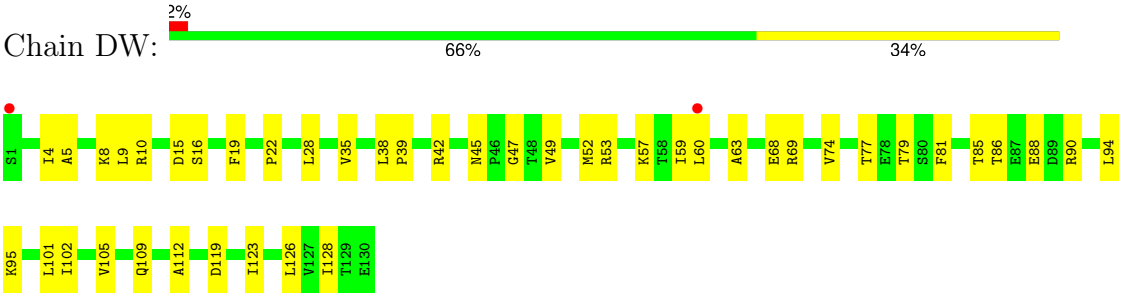
• Molecule 1: coat protein

Chain DV:



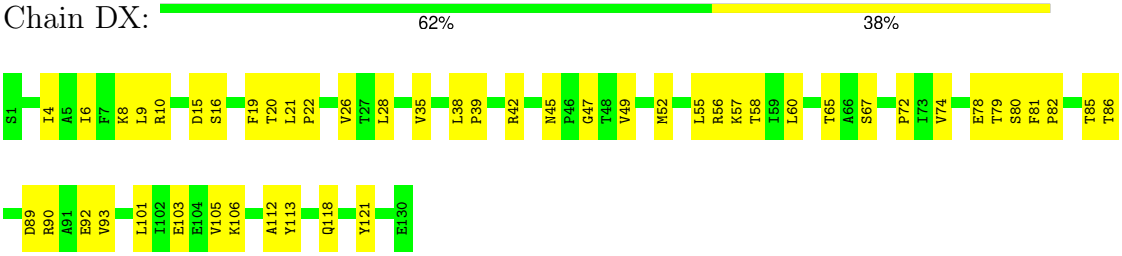
• Molecule 1: coat protein

Chain DW:



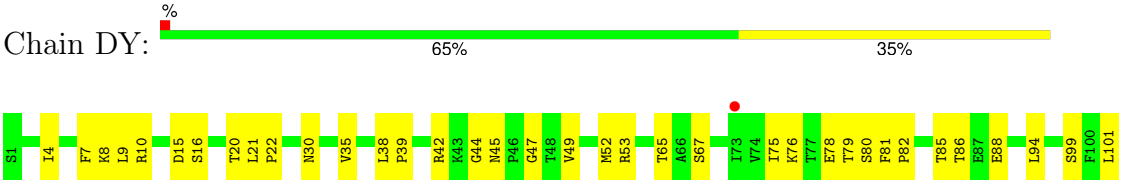
• Molecule 1: coat protein

Chain DX:



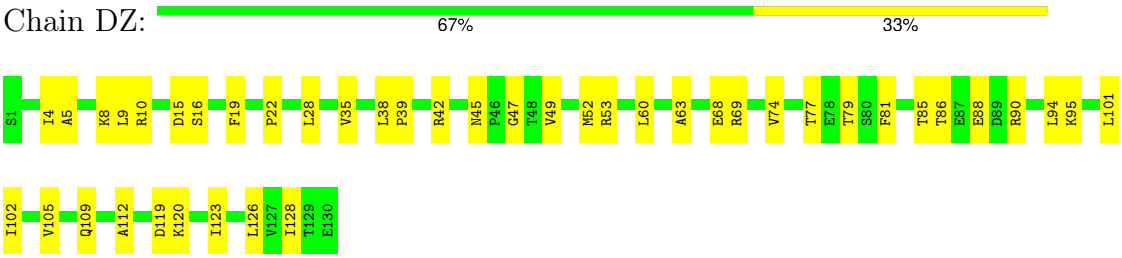
• Molecule 1: coat protein

Chain DY:



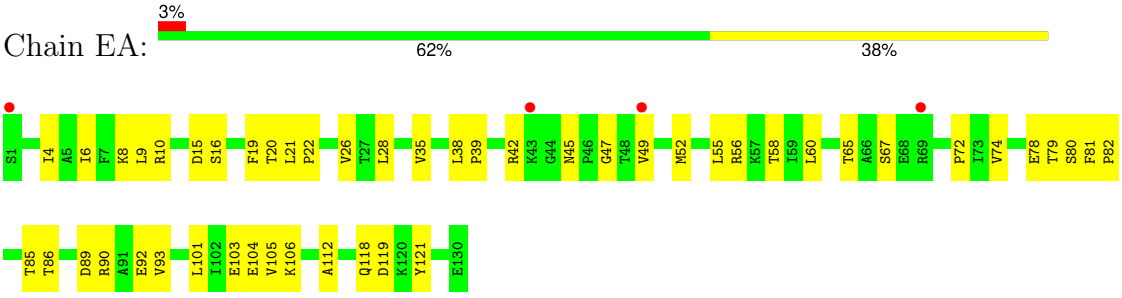
• Molecule 1: coat protein

Chain DZ:



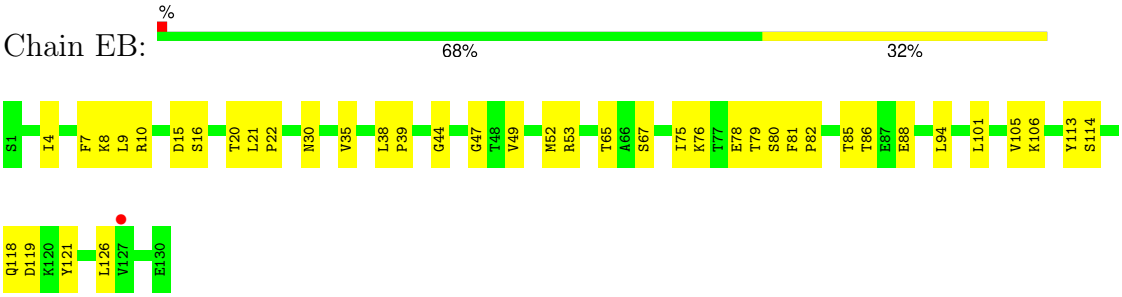
• Molecule 1: coat protein

Chain EA:



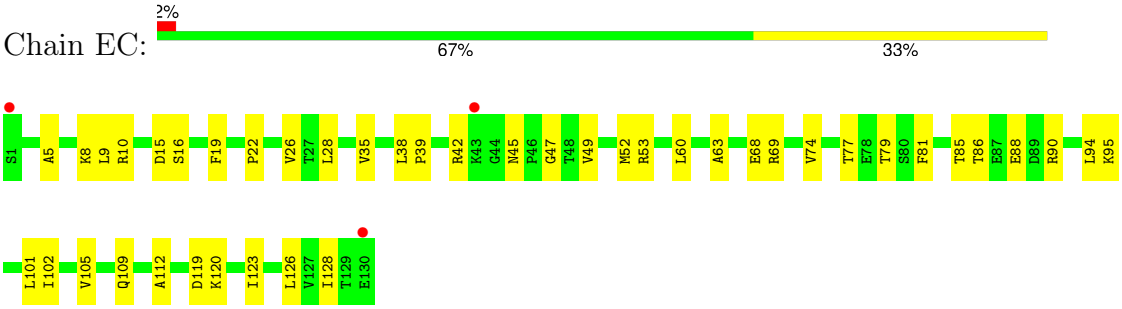
• Molecule 1: coat protein

Chain EB:



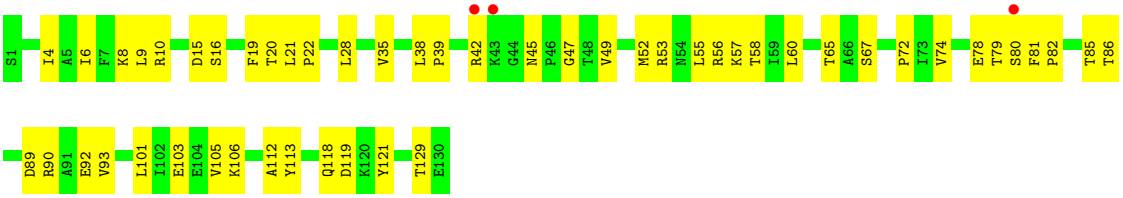
• Molecule 1: coat protein

Chain EC:



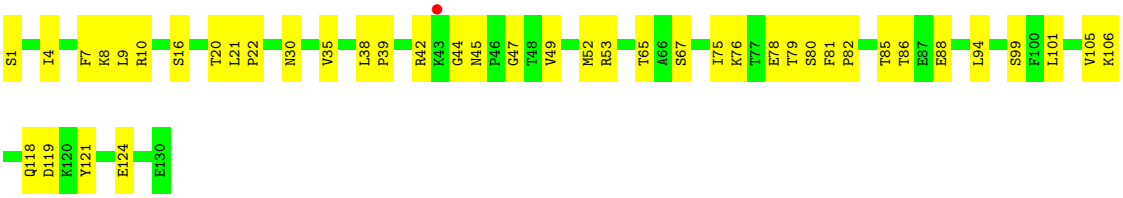
• Molecule 1: coat protein

Chain ED:



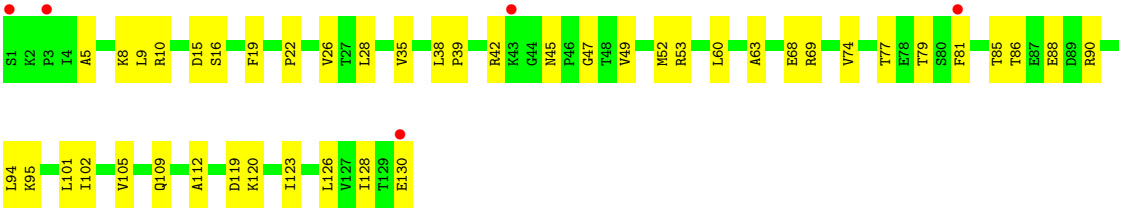
• Molecule 1: coat protein

Chain EE:



• Molecule 1: coat protein

Chain EF:

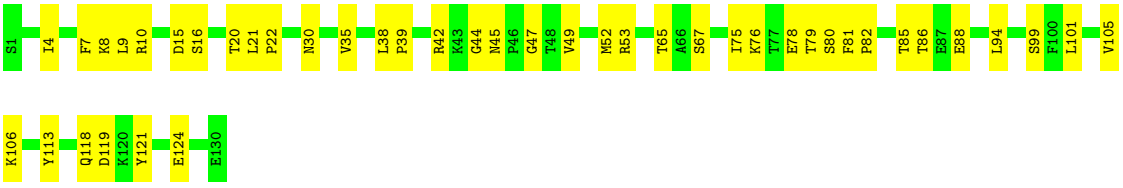


• Molecule 1: coat protein

Chain EG:

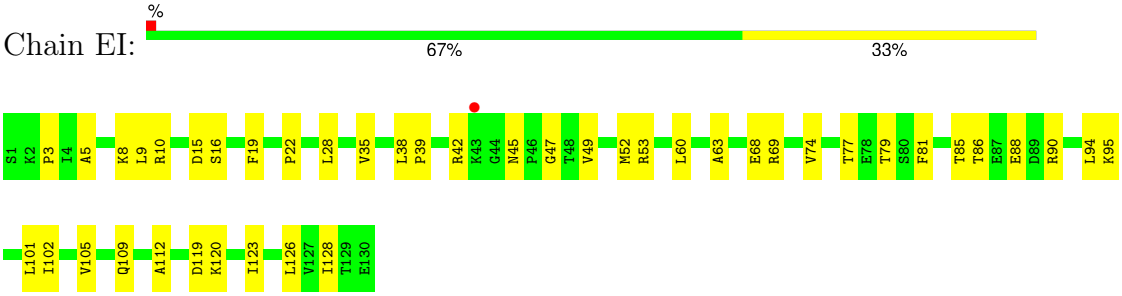
• Molecule 1: coat protein

Chain EH:



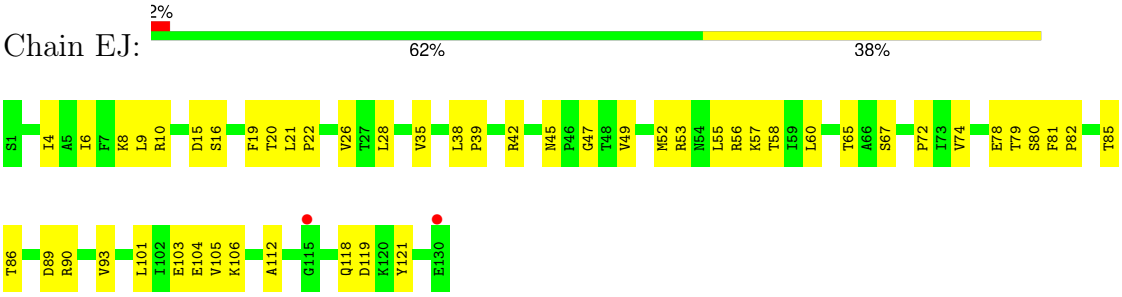
• Molecule 1: coat protein

Chain EI:



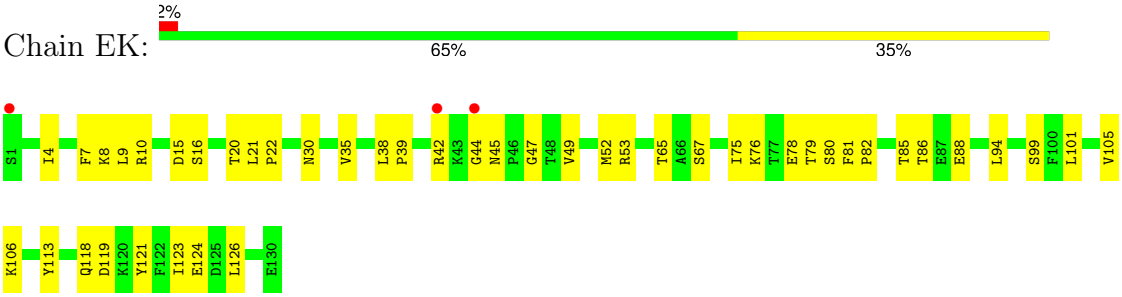
• Molecule 1: coat protein

Chain EJ:



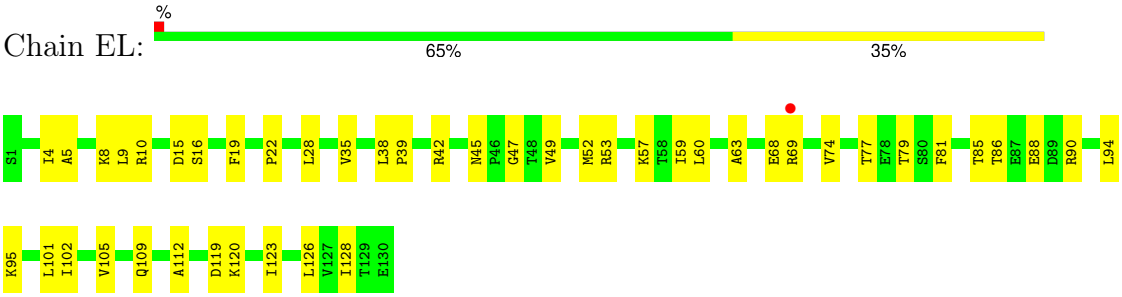
• Molecule 1: coat protein

Chain EK:



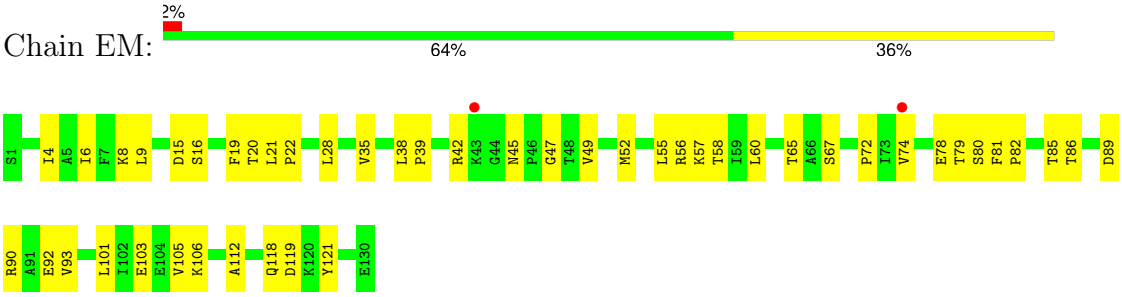
• Molecule 1: coat protein

Chain EL:



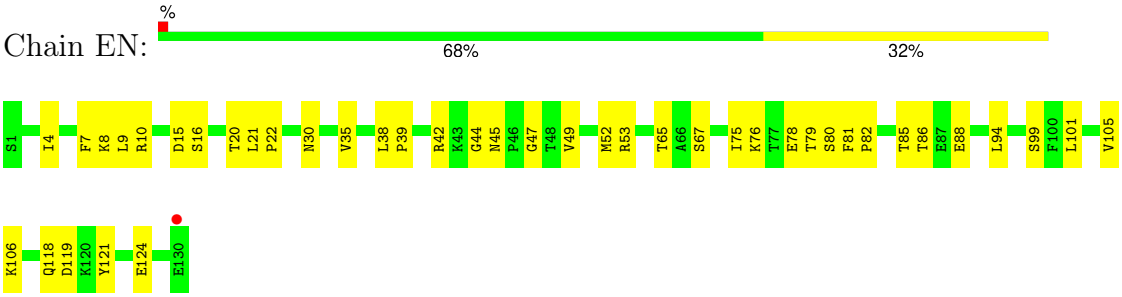
• Molecule 1: coat protein

Chain EM:



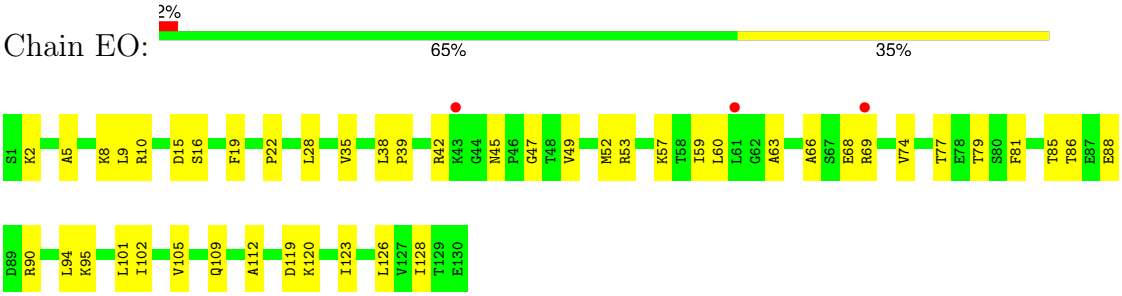
• Molecule 1: coat protein

Chain EN:



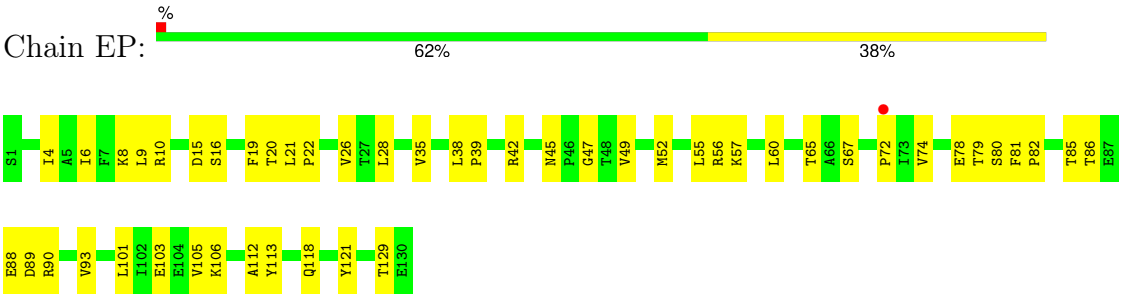
• Molecule 1: coat protein

Chain EO:



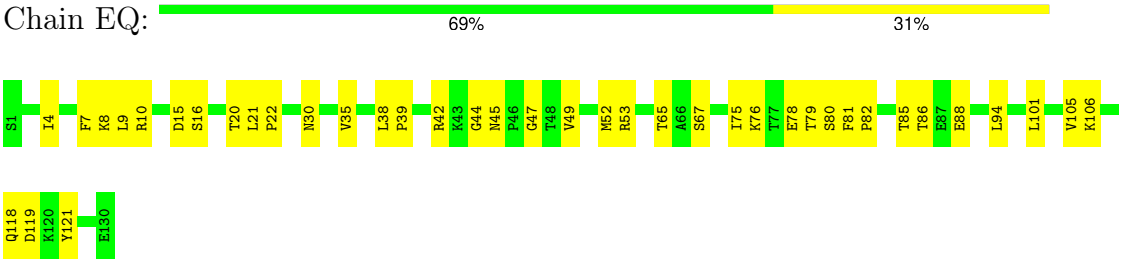
• Molecule 1: coat protein

Chain EP:



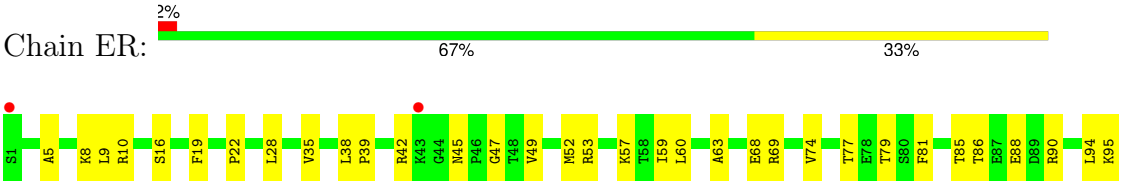
• Molecule 1: coat protein

Chain EQ:



• Molecule 1: coat protein

Chain ER:

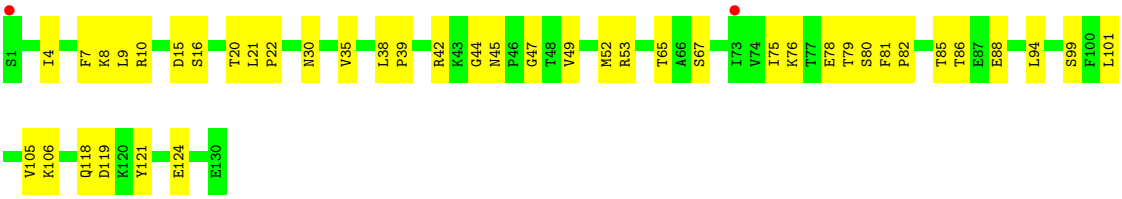


• Molecule 1: coat protein

Chain ES:

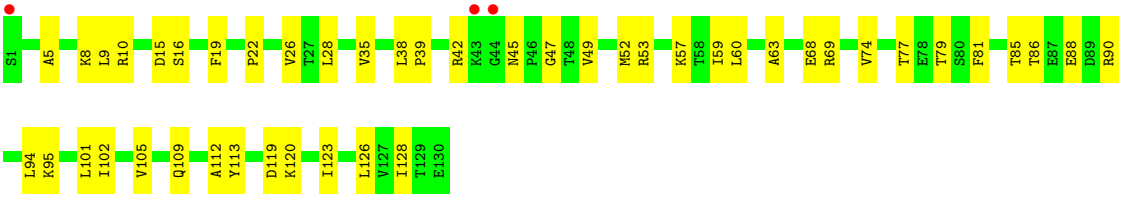
• Molecule 1: coat protein

Chain ET:



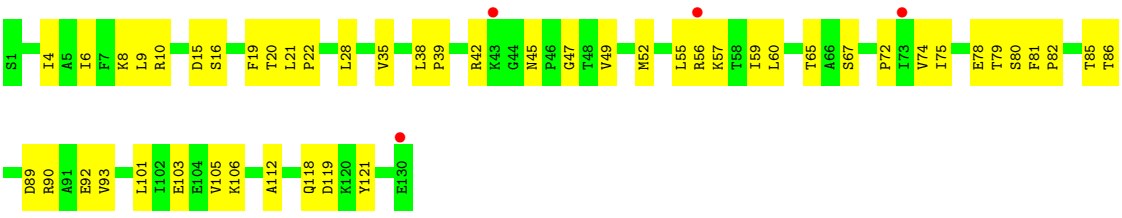
• Molecule 1: coat protein

Chain EU:



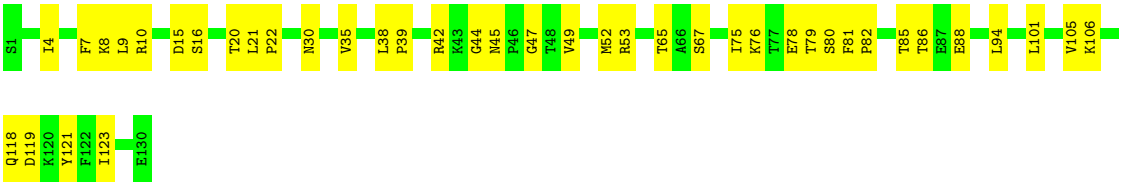
• Molecule 1: coat protein

Chain EV:



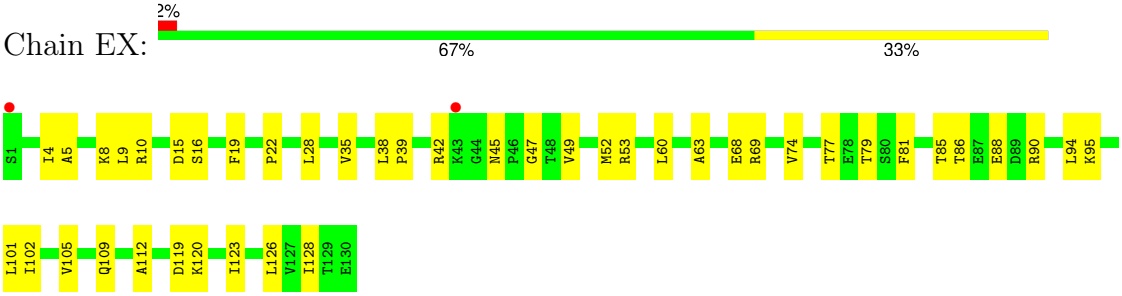
• Molecule 1: coat protein

Chain EW:



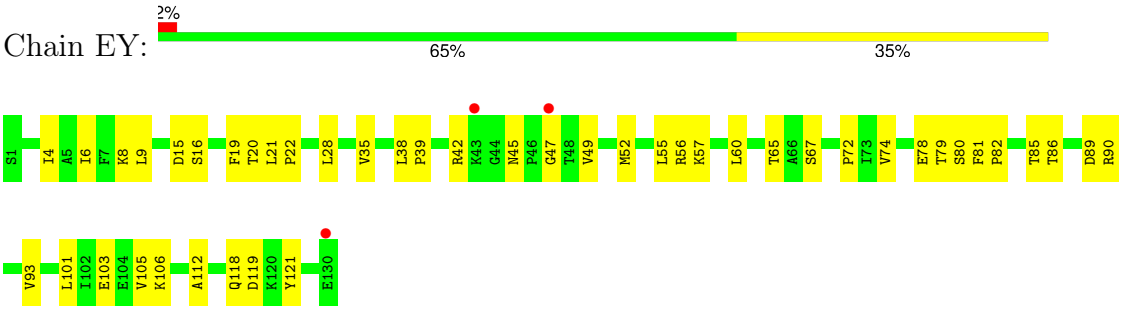
• Molecule 1: coat protein

Chain EX:



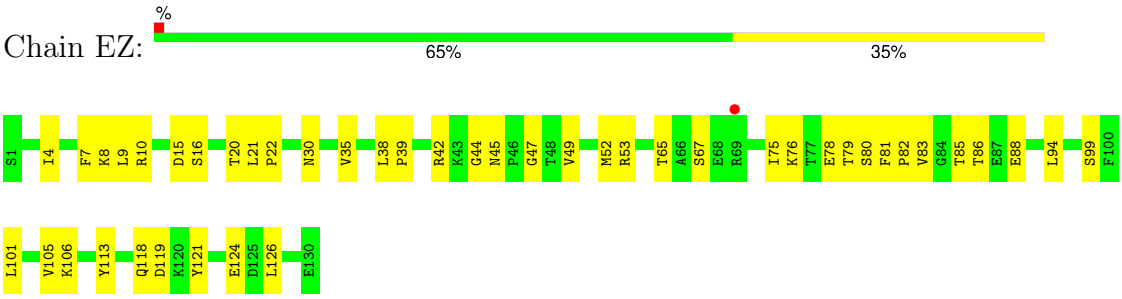
• Molecule 1: coat protein

Chain EY:



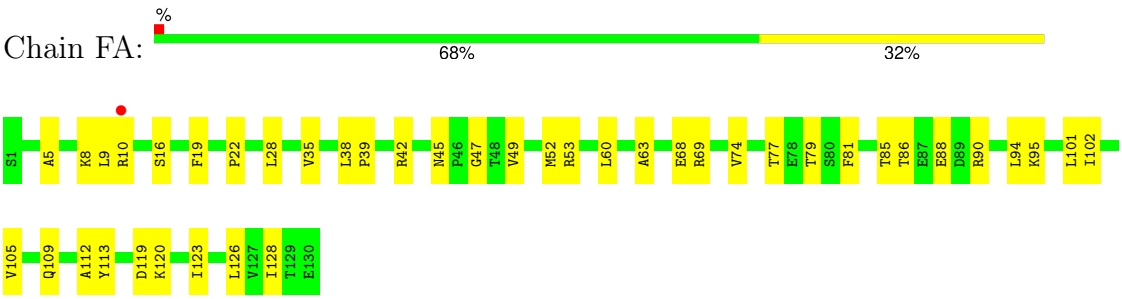
• Molecule 1: coat protein

Chain EZ:



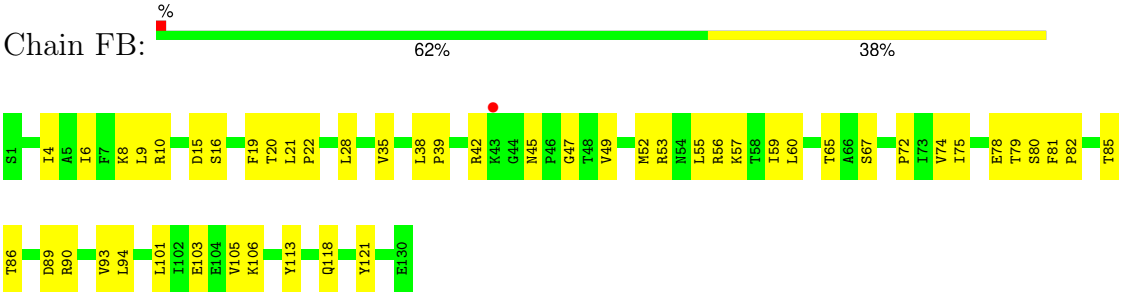
• Molecule 1: coat protein

Chain FA:



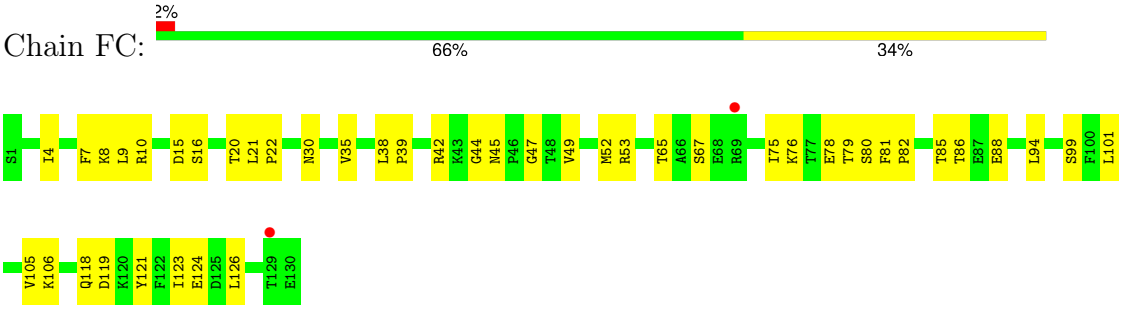
• Molecule 1: coat protein

Chain FB:



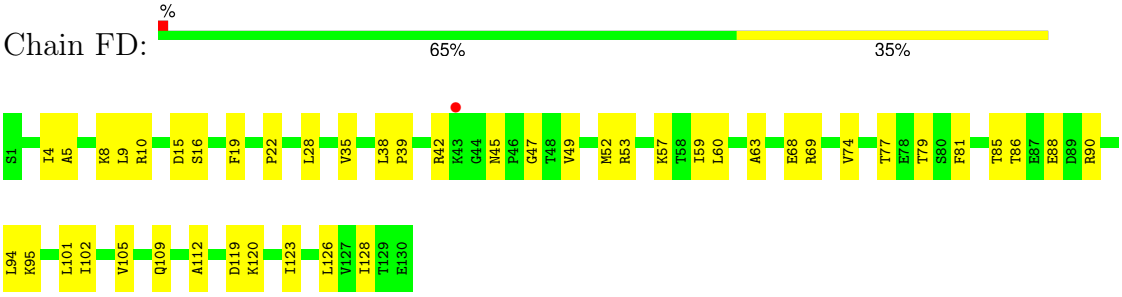
• Molecule 1: coat protein

Chain FC:



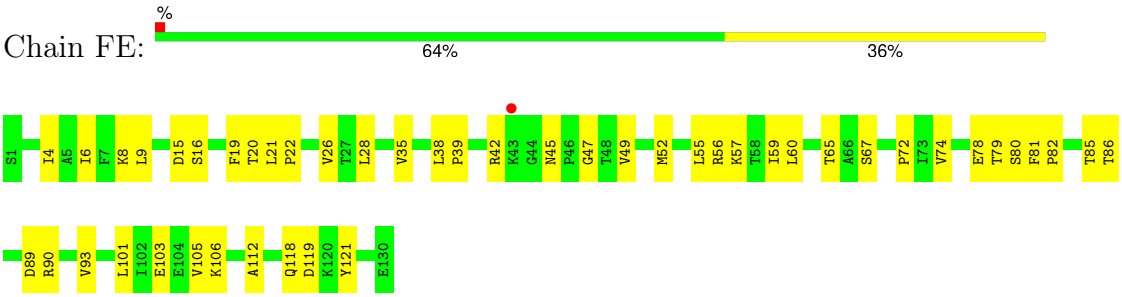
• Molecule 1: coat protein

Chain FD:



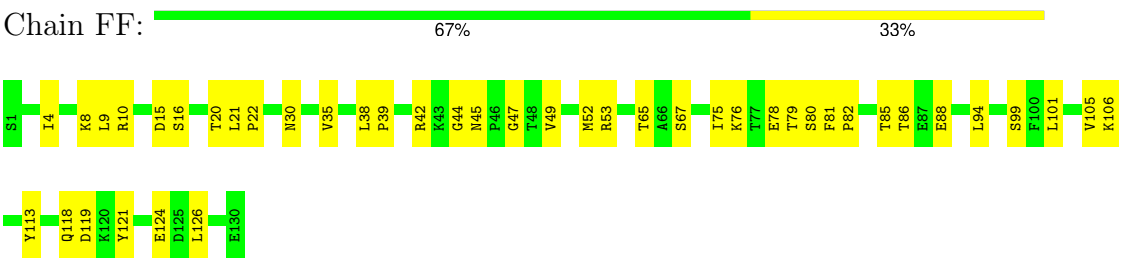
• Molecule 1: coat protein

Chain FE:



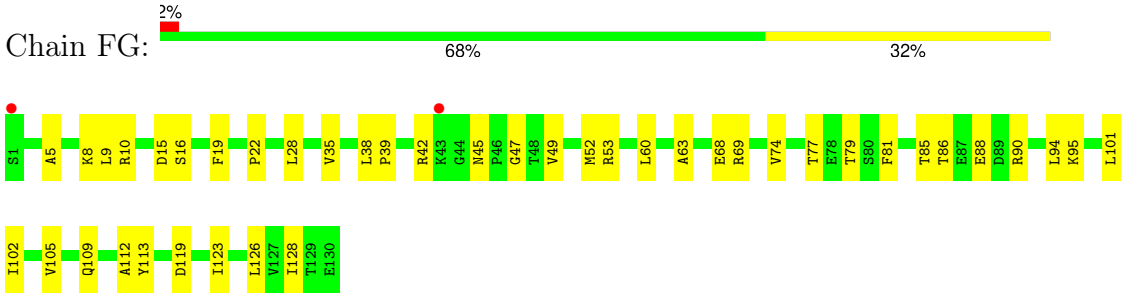
• Molecule 1: coat protein

Chain FF:



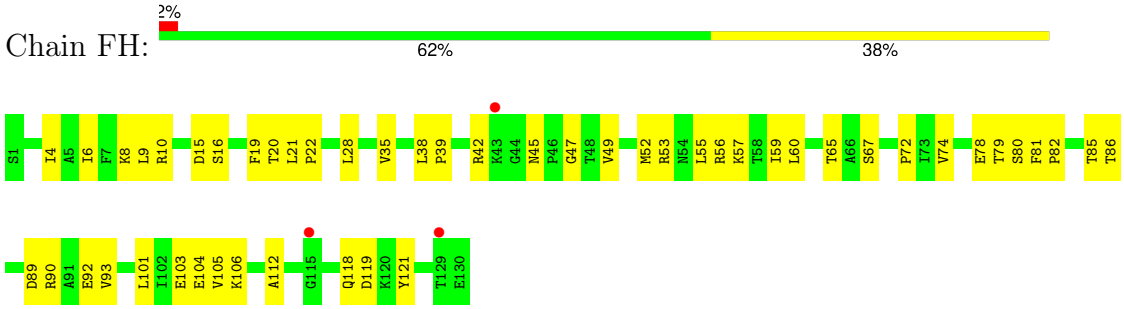
• Molecule 1: coat protein

Chain FG:



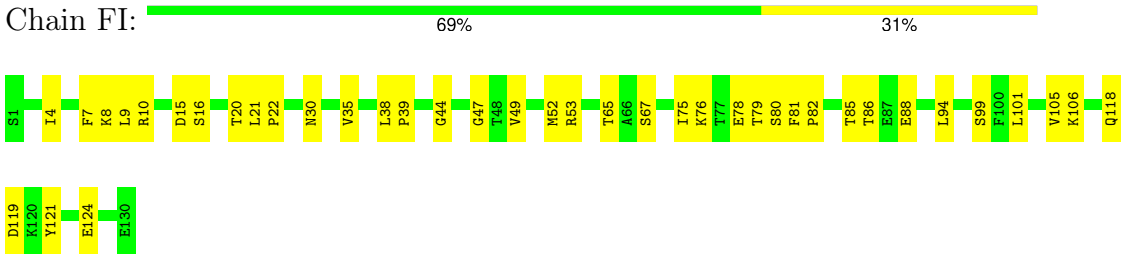
• Molecule 1: coat protein

Chain FH:



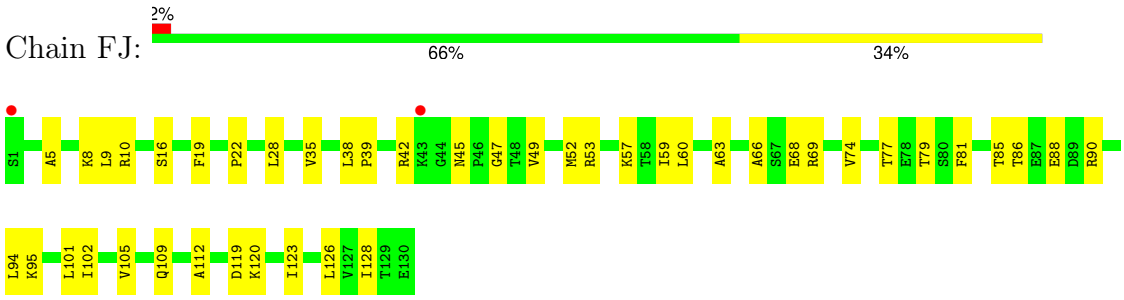
• Molecule 1: coat protein

Chain FI:



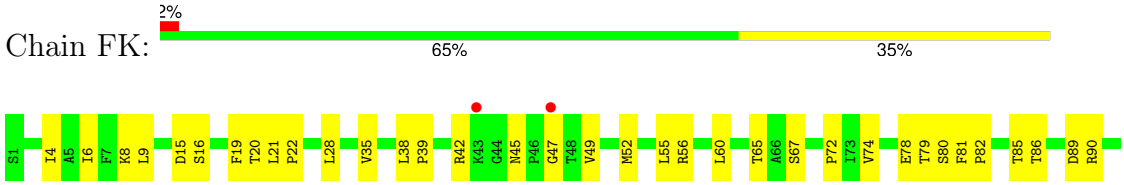
• Molecule 1: coat protein

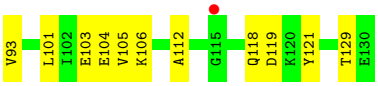
Chain FJ:



• Molecule 1: coat protein

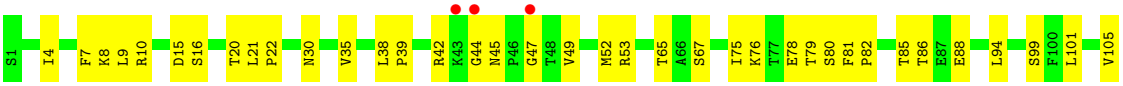
Chain FK:





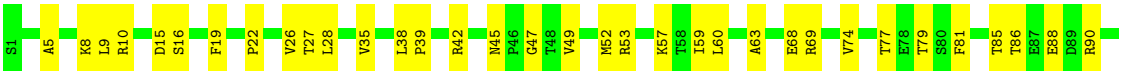
• Molecule 1: coat protein

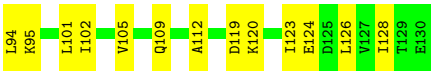
Chain FL:



• Molecule 1: coat protein

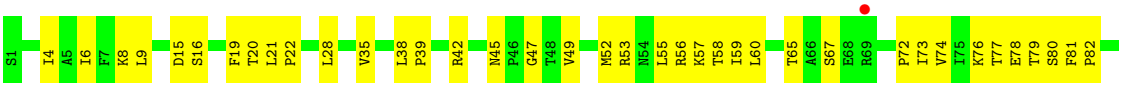
Chain FM:





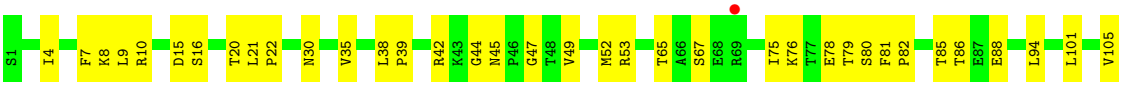
• Molecule 1: coat protein

Chain FN:



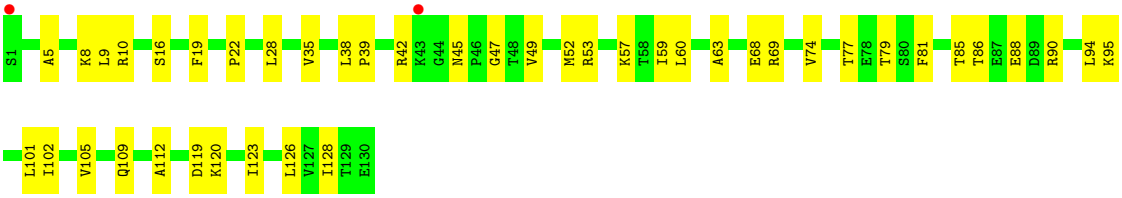
• Molecule 1: coat protein

Chain FO:



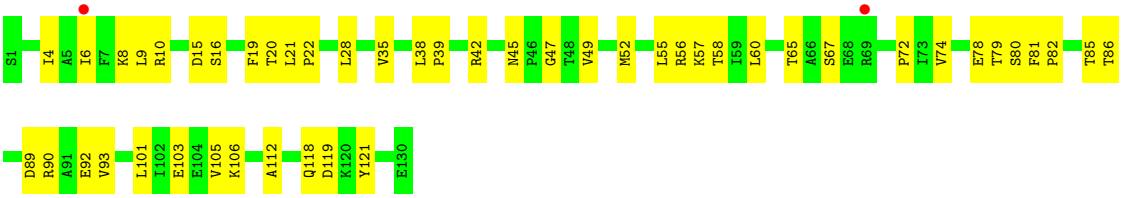
• Molecule 1: coat protein

Chain FP:



• Molecule 1: coat protein

Chain FQ:



• Molecule 1: coat protein

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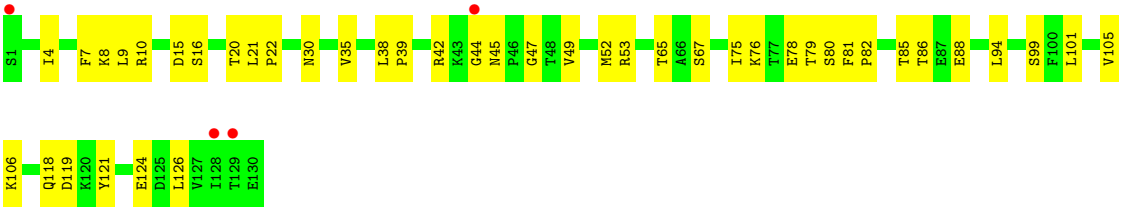
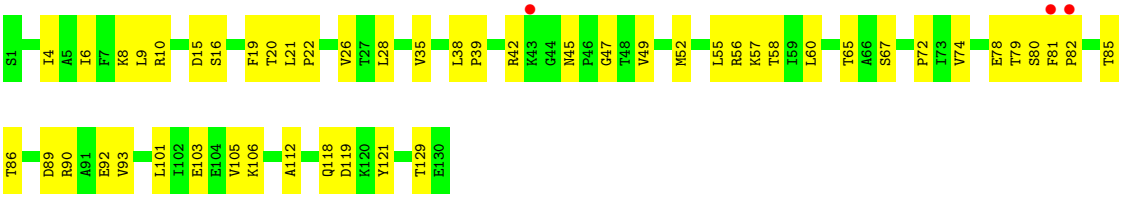


• Molecule 1: coat protein

Chain FS:

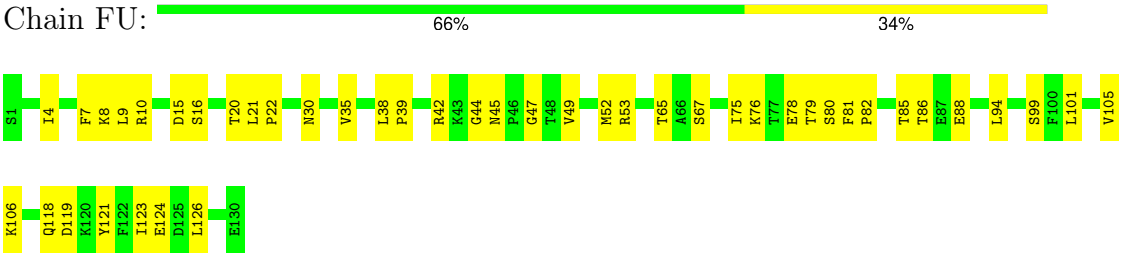
• Molecule 1: coat protein

Chain FT:



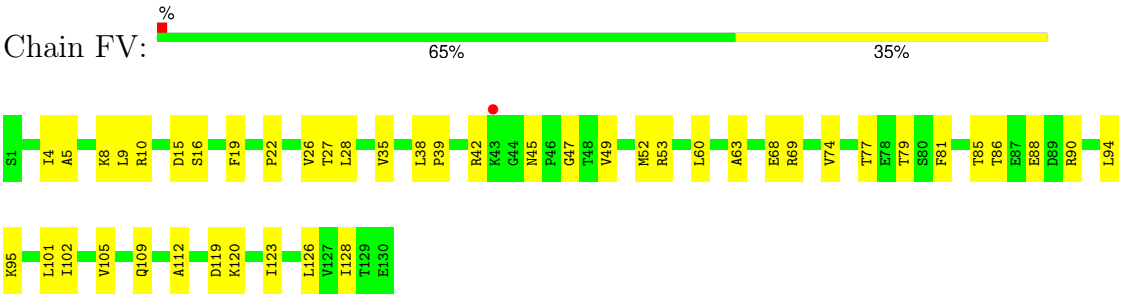
• Molecule 1: coat protein

Chain FU:



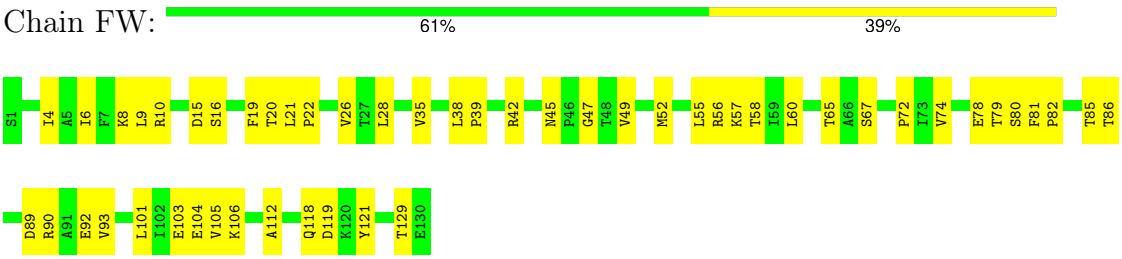
• Molecule 1: coat protein

Chain FV:



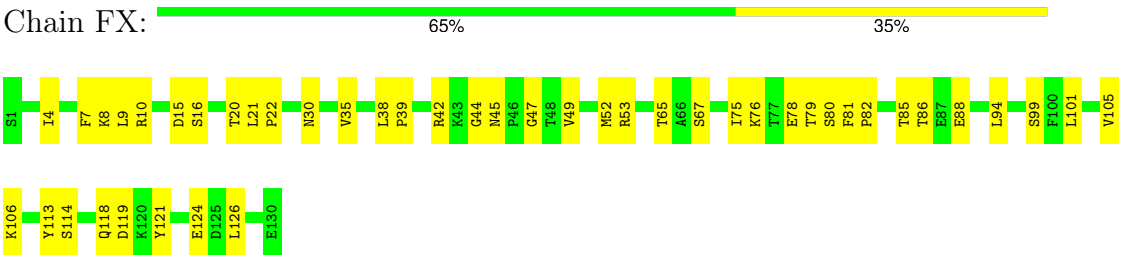
• Molecule 1: coat protein

Chain FW:



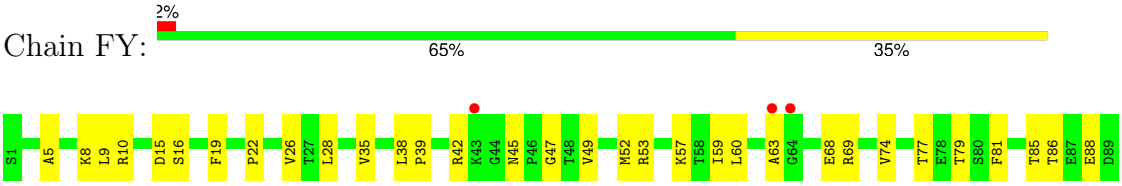
• Molecule 1: coat protein

Chain FX:



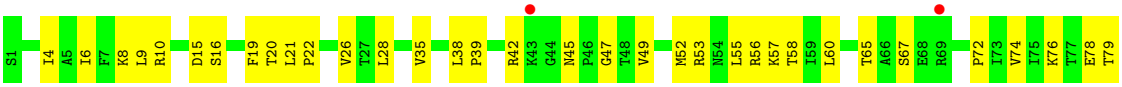
• Molecule 1: coat protein

Chain FY:



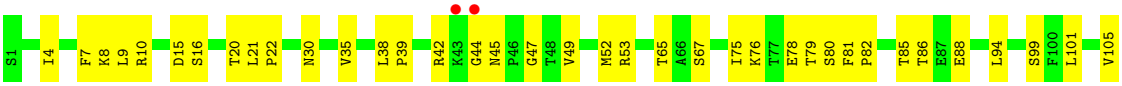
• Molecule 1: coat protein

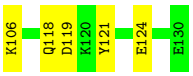
Chain FZ:



• Molecule 1: coat protein

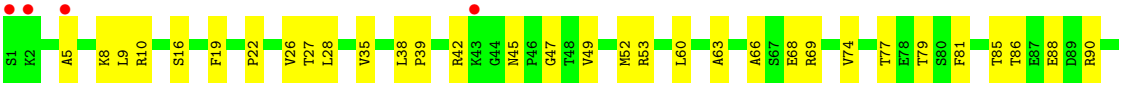
Chain GA:

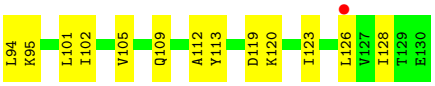




• Molecule 1: coat protein

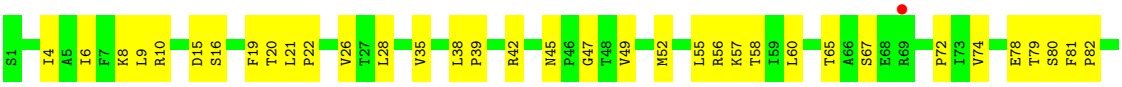
Chain GB:





• Molecule 1: coat protein

Chain GC:

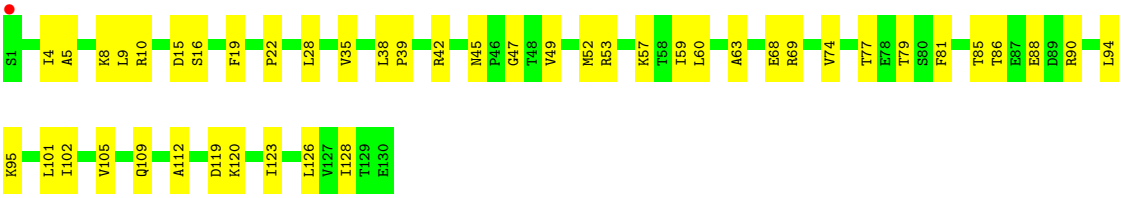


• Molecule 1: coat protein

Chain GD:

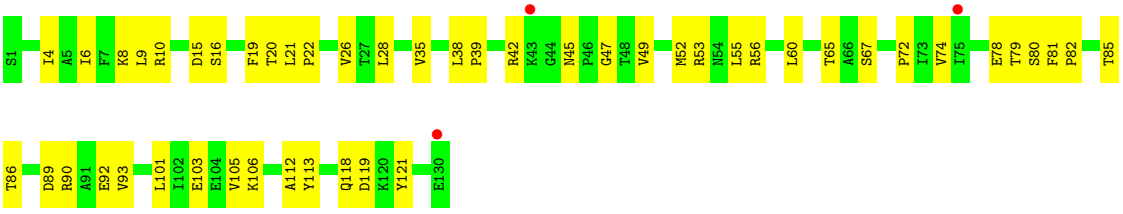
• Molecule 1: coat protein

Chain GE:



• Molecule 1: coat protein

Chain GF:

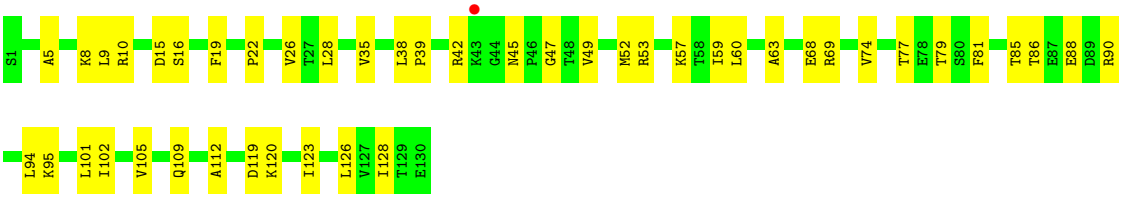


• Molecule 1: coat protein

Chain GG:

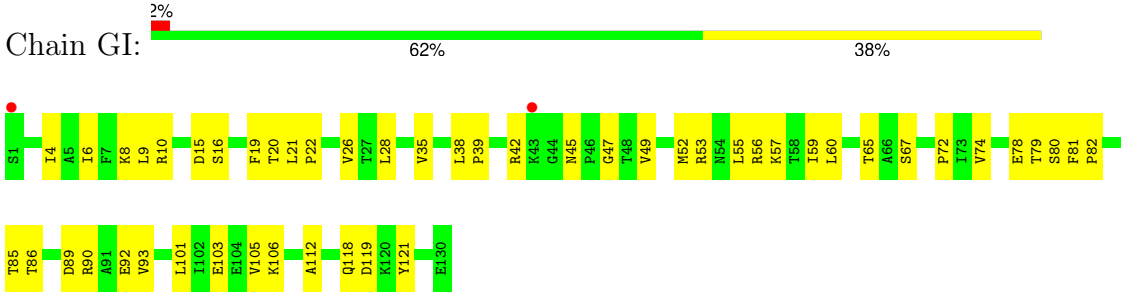
• Molecule 1: coat protein

Chain GH:



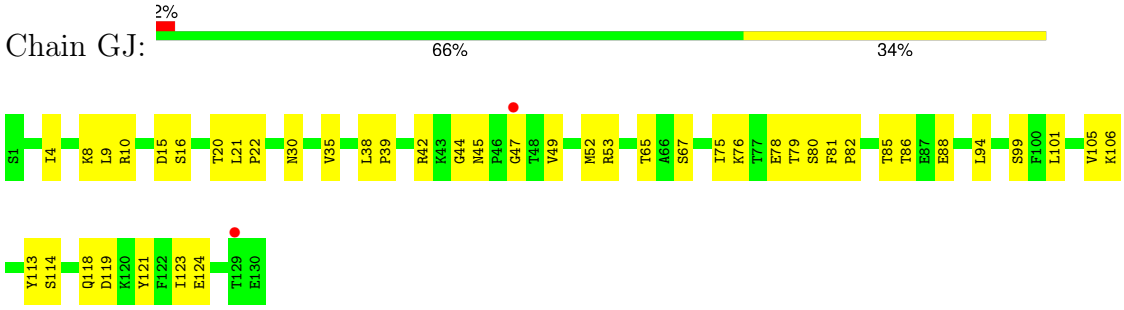
• Molecule 1: coat protein

Chain GI:



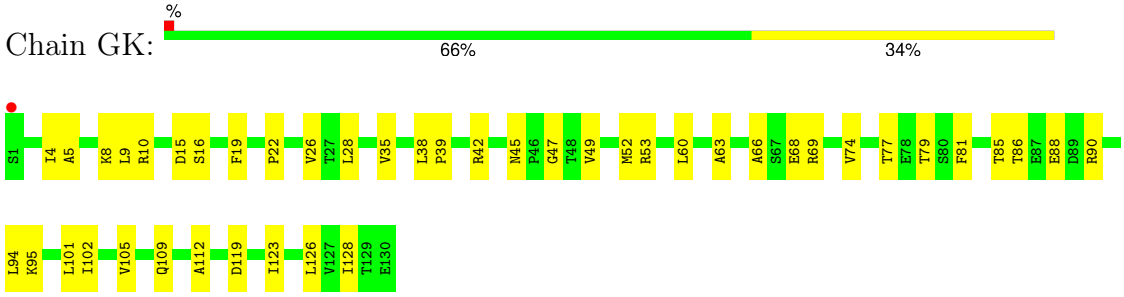
• Molecule 1: coat protein

Chain GJ:



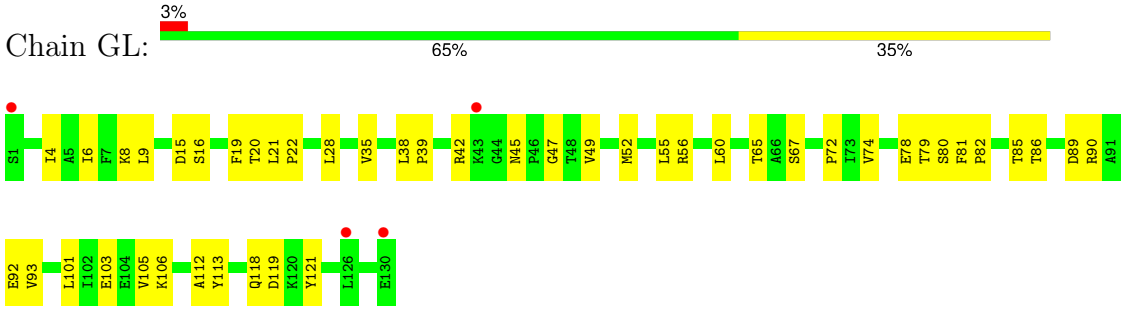
• Molecule 1: coat protein

Chain GK:



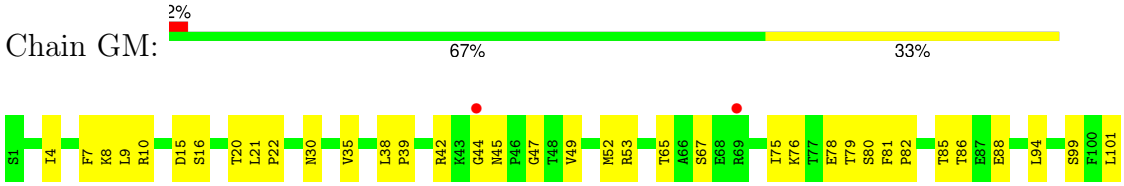
• Molecule 1: coat protein

Chain GL:



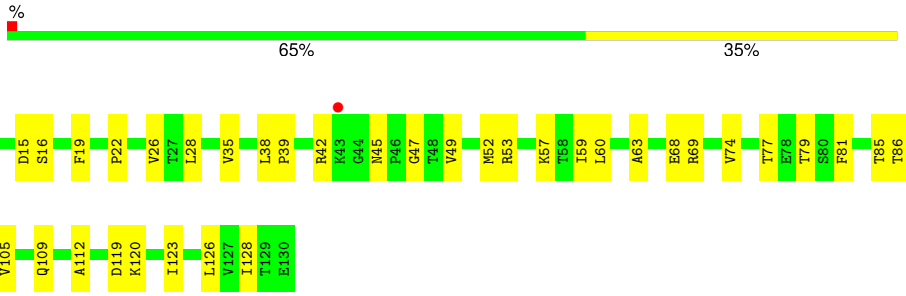
• Molecule 1: coat protein

Chain GM:



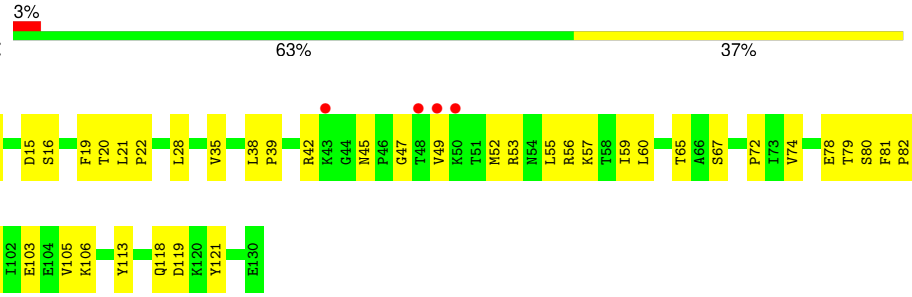
• Molecule 1: coat protein

Chain GN:



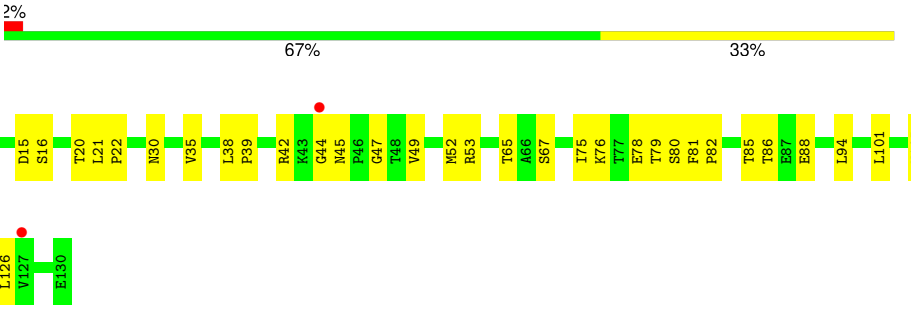
• Molecule 1: coat protein

Chain GO:



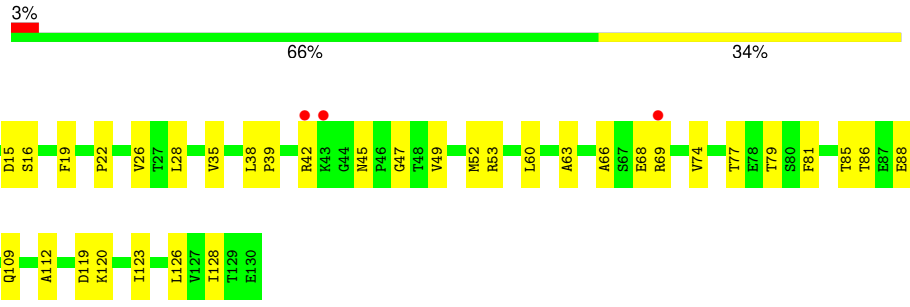
• Molecule 1: coat protein

Chain GP:



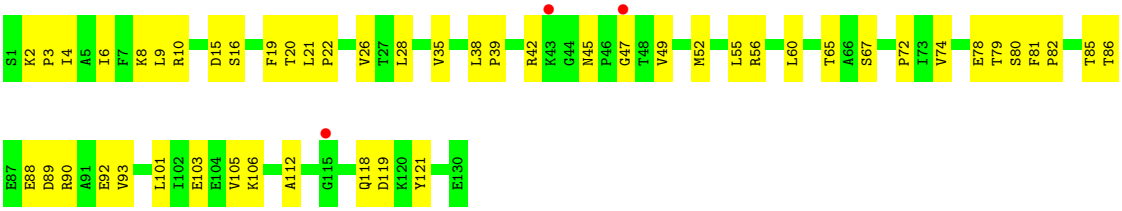
• Molecule 1: coat protein

Chain GQ:



• Molecule 1: coat protein

Chain GR:

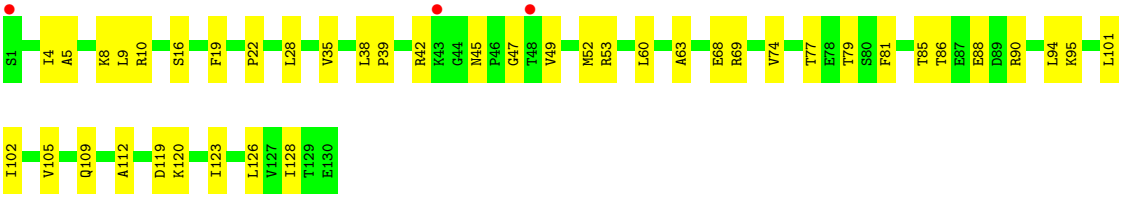


• Molecule 1: coat protein

Chain GS:

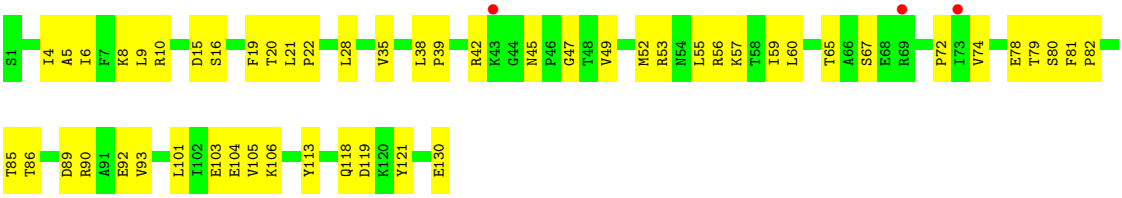
• Molecule 1: coat protein

Chain GT:



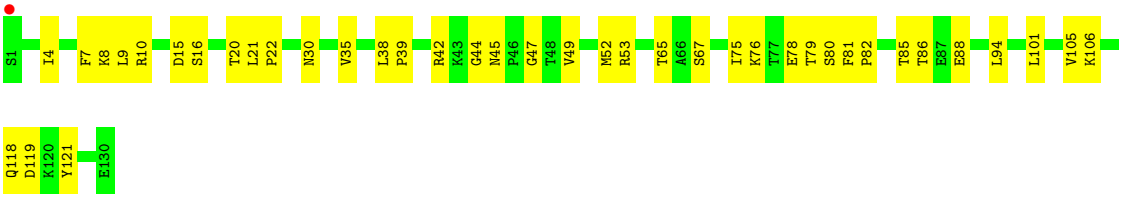
• Molecule 1: coat protein

Chain GU:



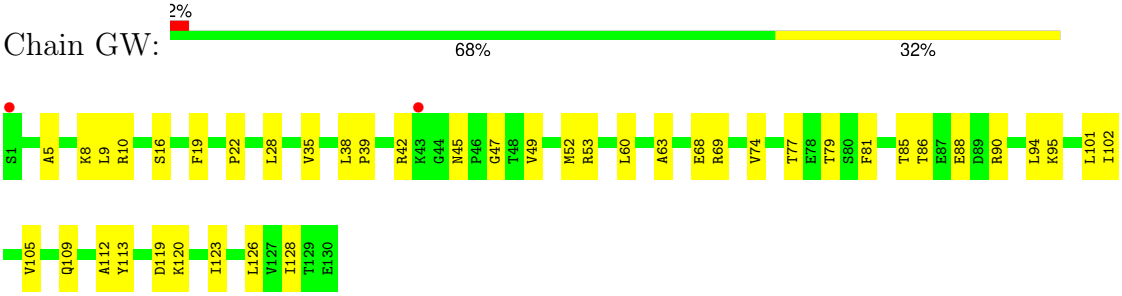
• Molecule 1: coat protein

Chain GV:



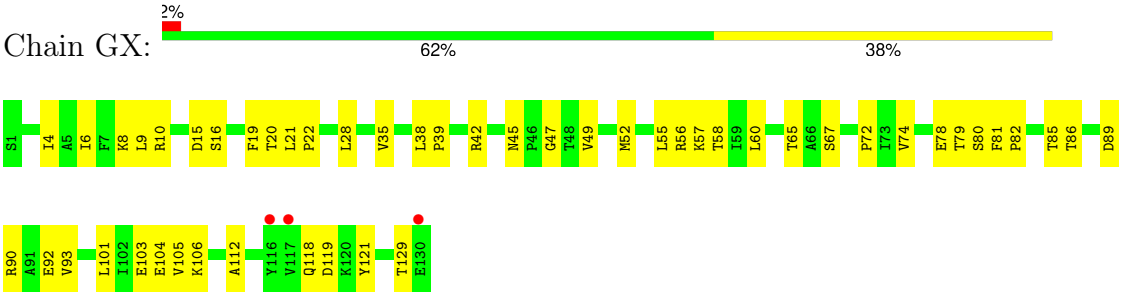
• Molecule 1: coat protein

Chain GW:



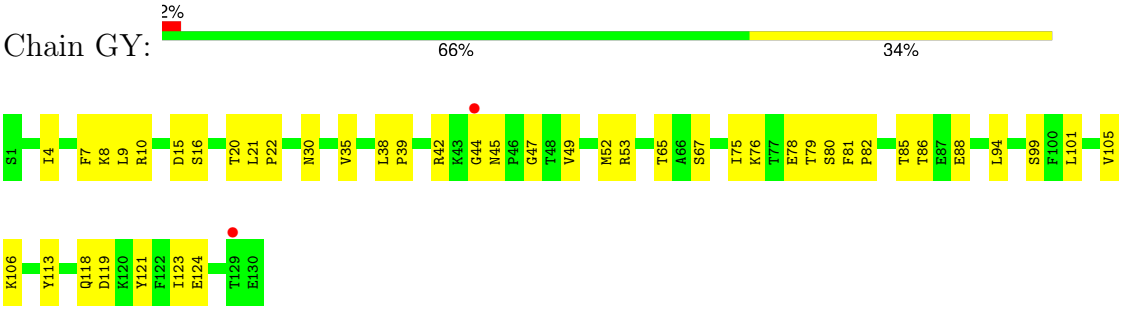
• Molecule 1: coat protein

Chain GX:



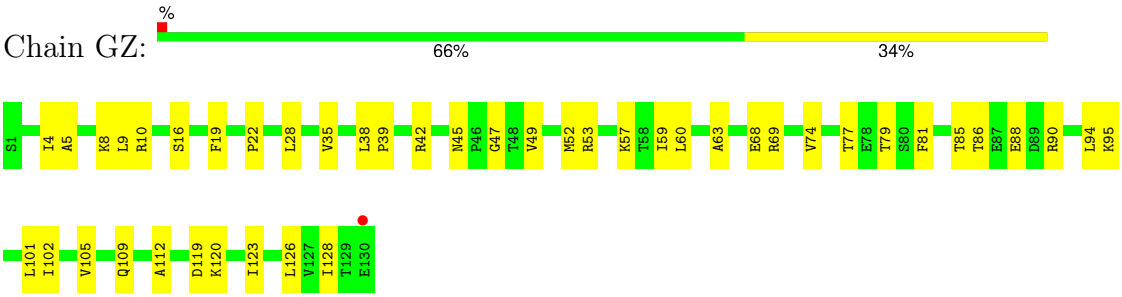
• Molecule 1: coat protein

Chain GY:



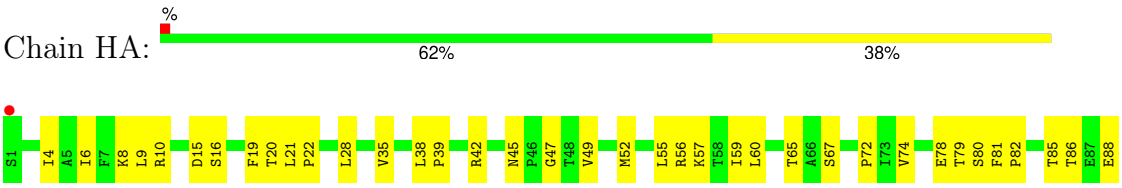
• Molecule 1: coat protein

Chain GZ:



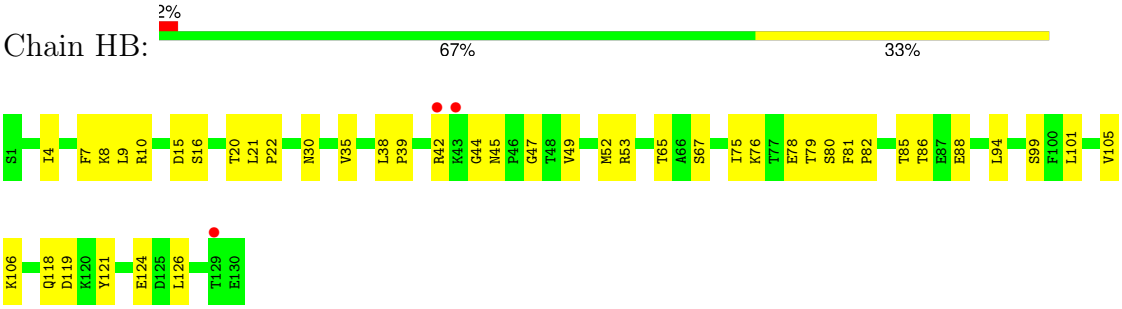
• Molecule 1: coat protein

Chain HA:



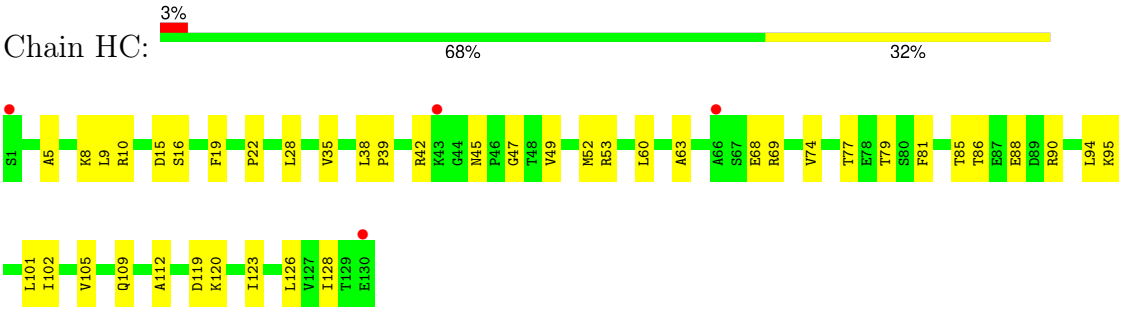
• Molecule 1: coat protein

Chain HB:



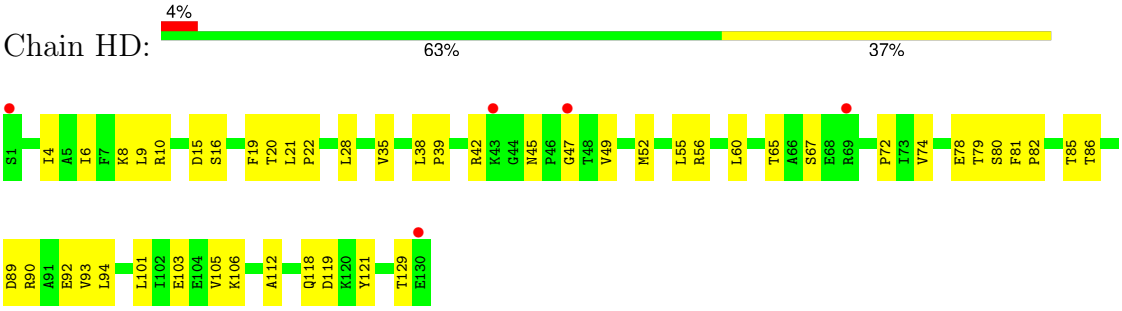
• Molecule 1: coat protein

Chain HC:



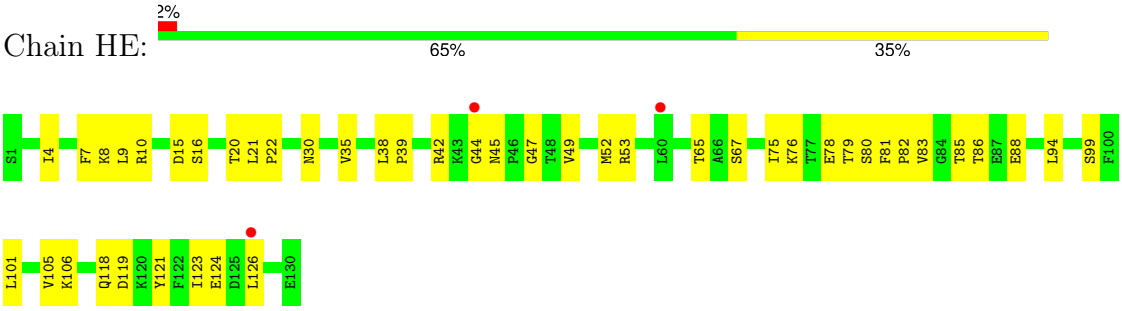
• Molecule 1: coat protein

Chain HD:



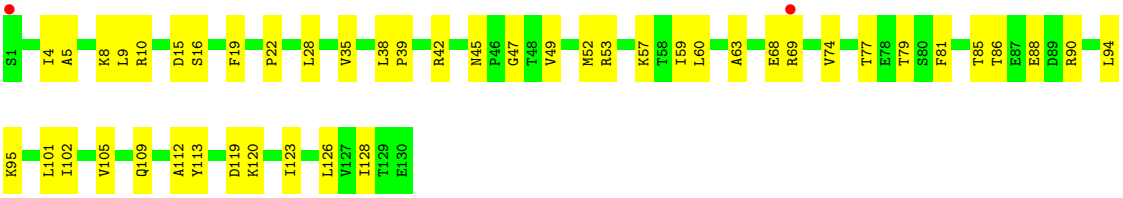
• Molecule 1: coat protein

Chain HE:

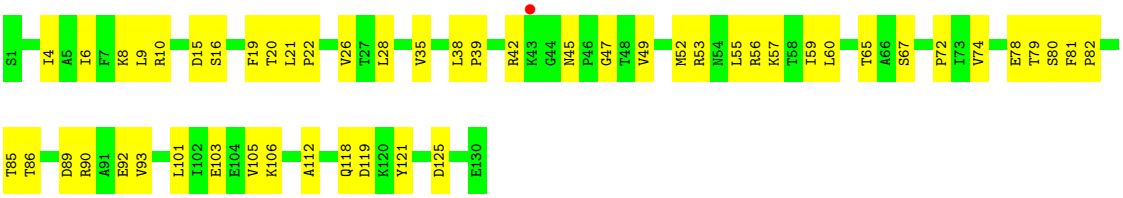


• Molecule 1: coat protein

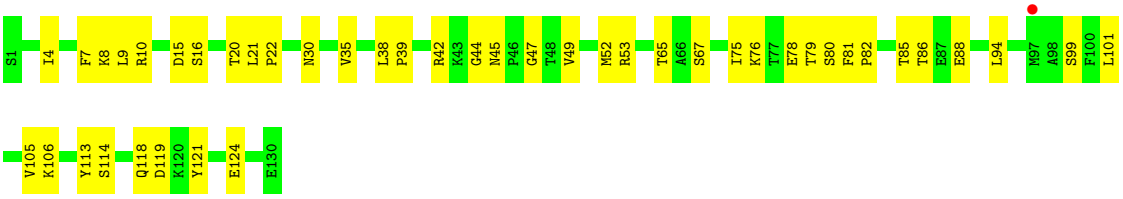
Chain HF:



• Molecule 1: coat protein

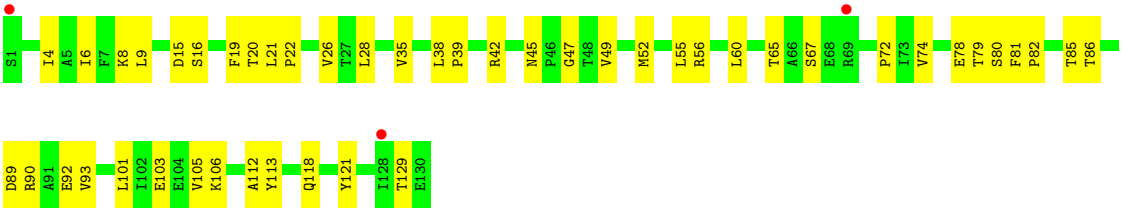


• Molecule 1: coat protein



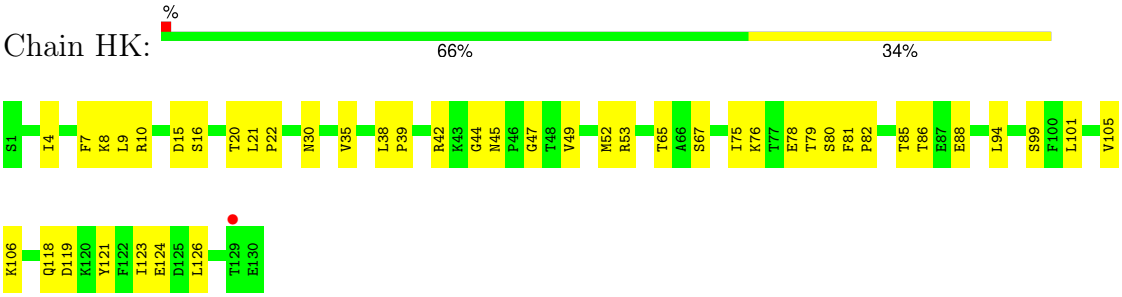
• Molecule 1: coat protein

• Molecule 1: coat protein



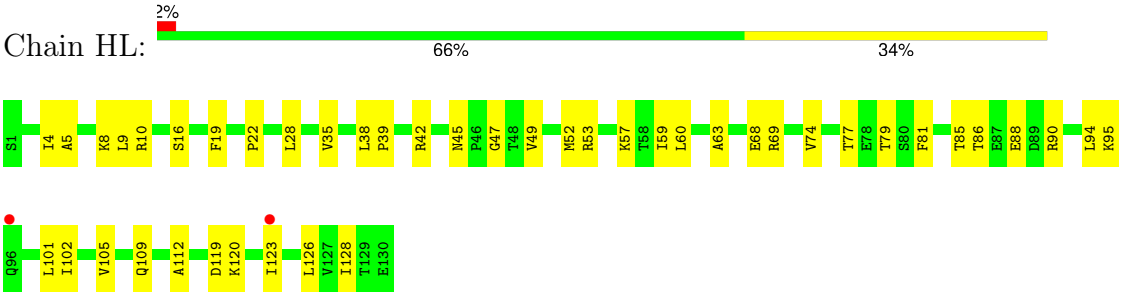
• Molecule 1: coat protein

Chain HK:



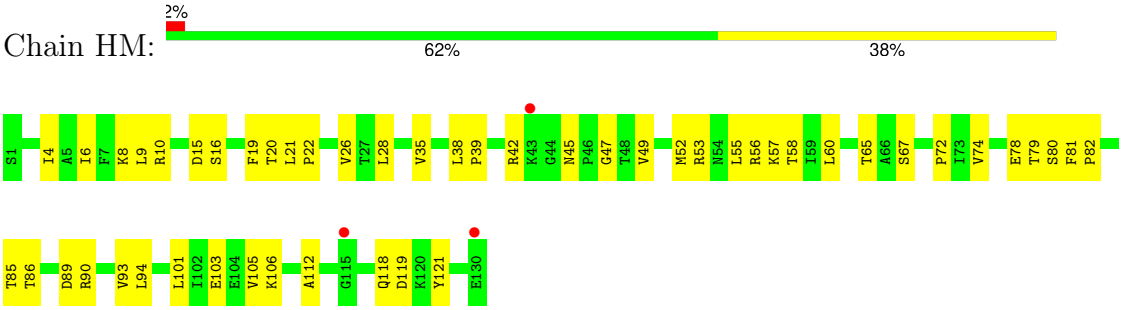
• Molecule 1: coat protein

Chain HL:



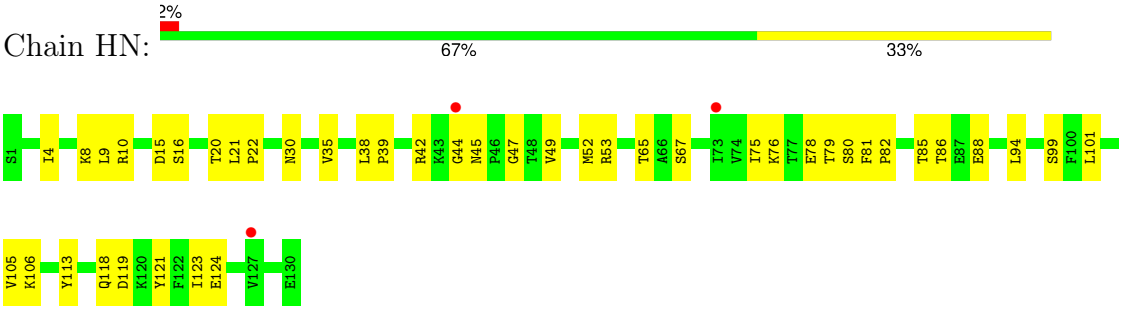
• Molecule 1: coat protein

Chain HM:



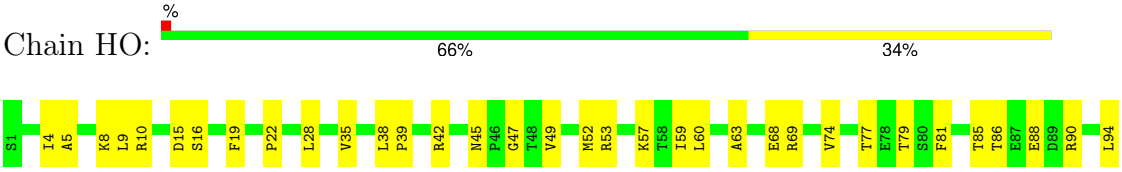
• Molecule 1: coat protein

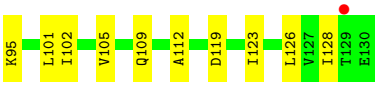
Chain HN:



• Molecule 1: coat protein

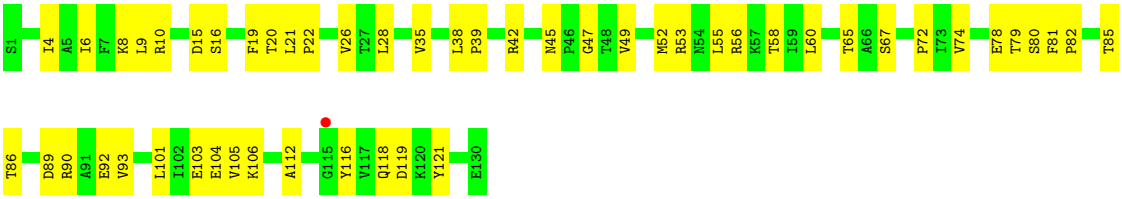
Chain HO:





• Molecule 1: coat protein

Chain HP:

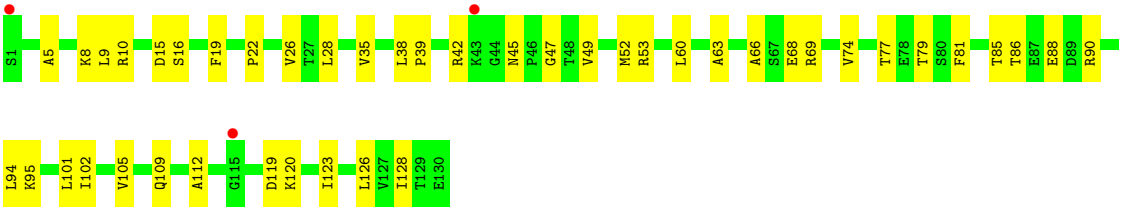


• Molecule 1: coat protein

Chain HQ:

• Molecule 1: coat protein

Chain HR:



• Molecule 1: coat protein

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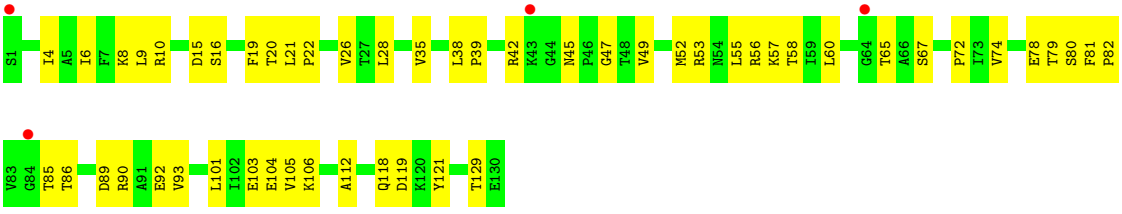
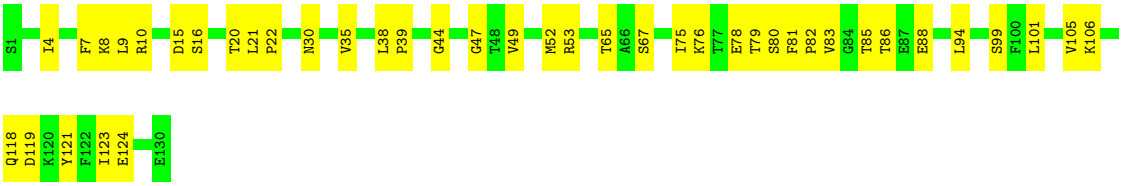


• Molecule 1: coat protein

Chain HT:



• Molecule 1: coat protein

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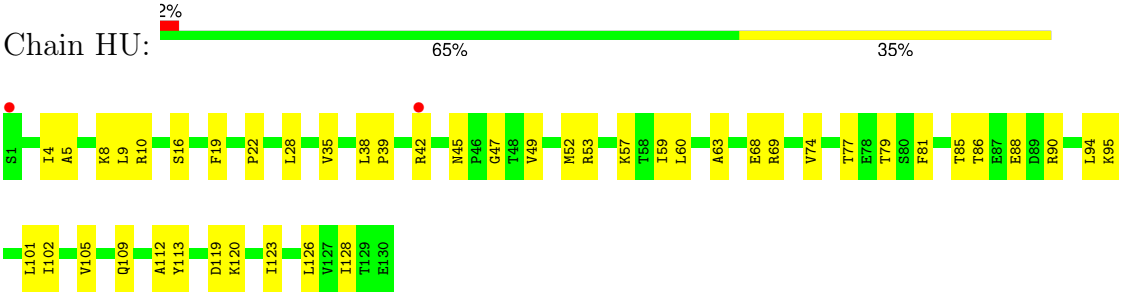

• Molecule 1: coat protein

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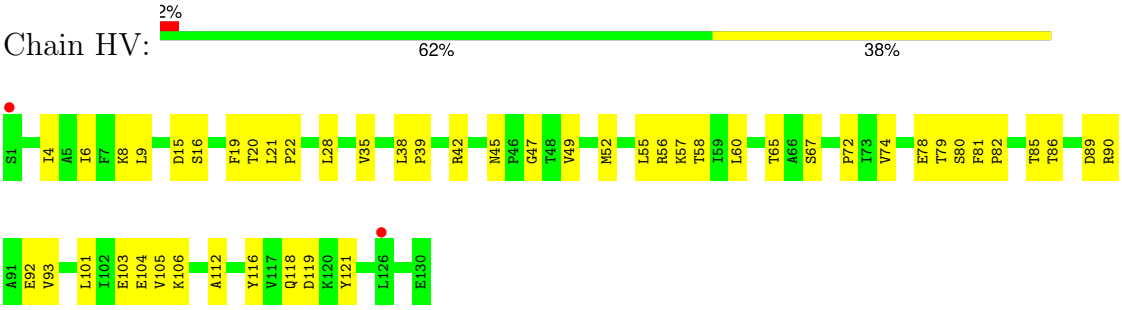
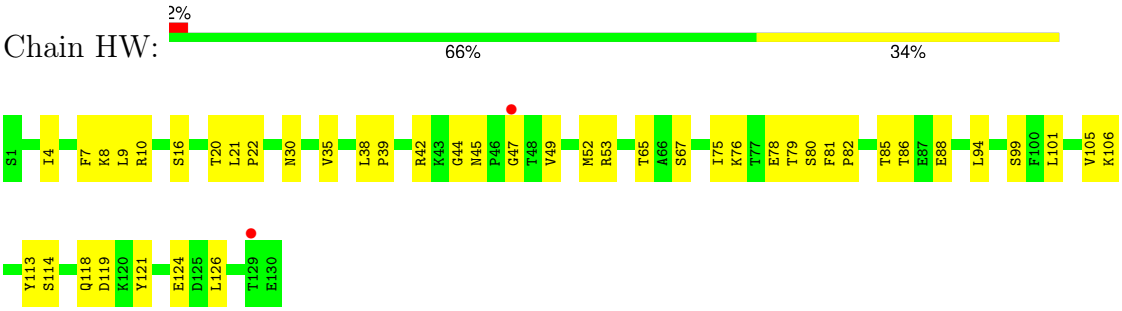


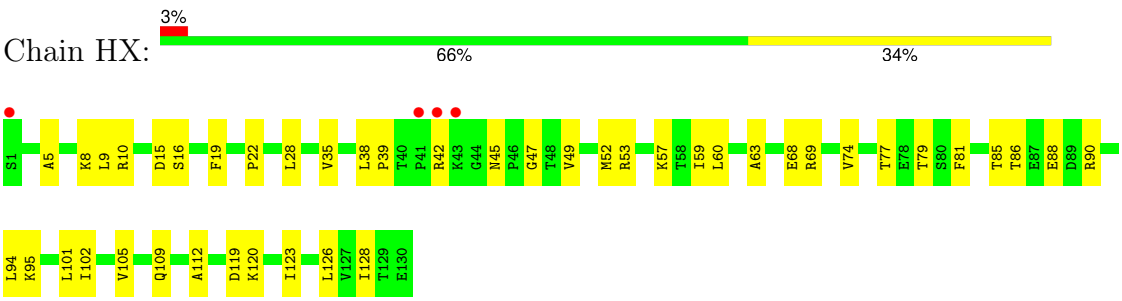
• Molecule 1: coat protein

Chain HW:



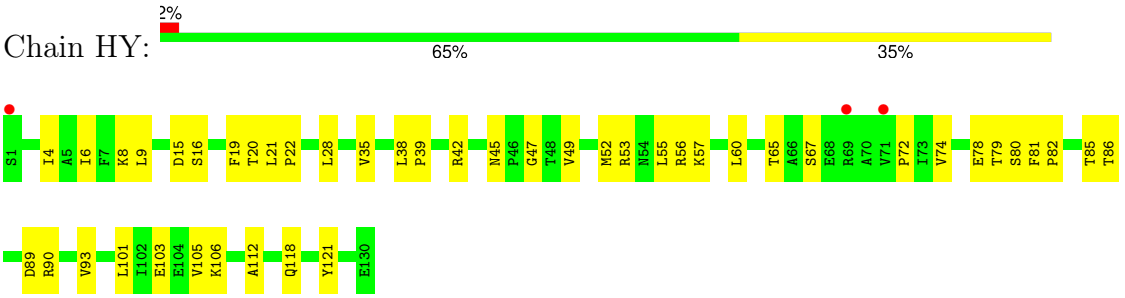
• Molecule 1: coat protein

Chain HX:



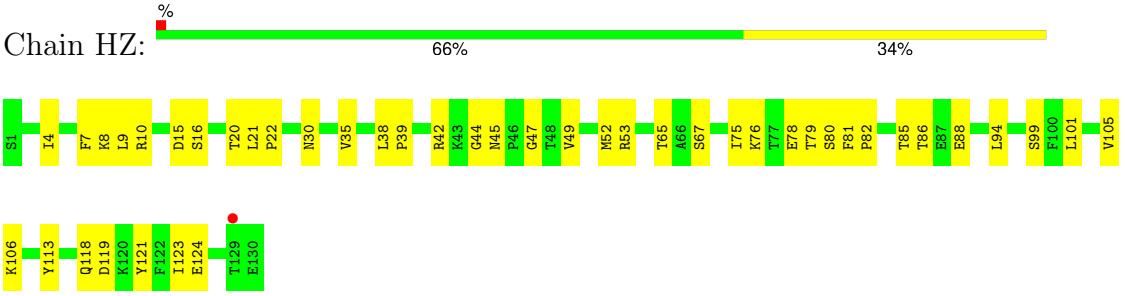
• Molecule 1: coat protein

Chain HY:



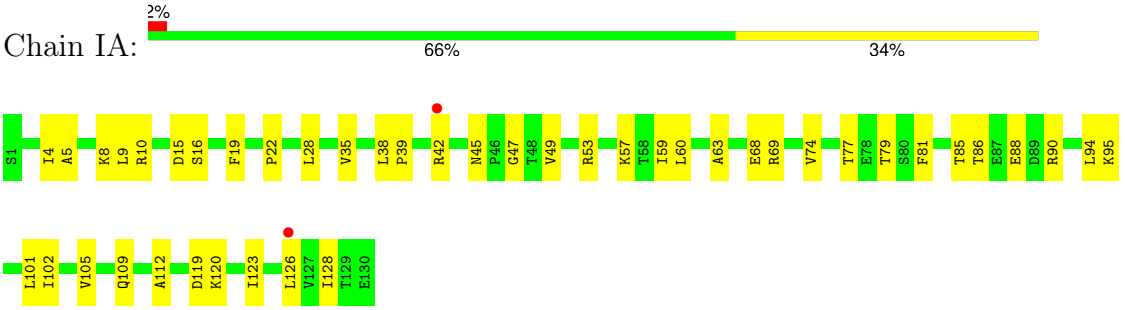
• Molecule 1: coat protein

Chain HZ:



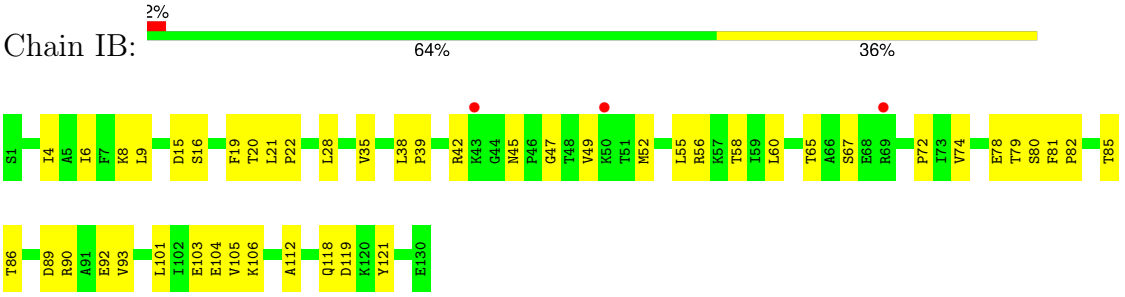
• Molecule 1: coat protein

Chain IA:



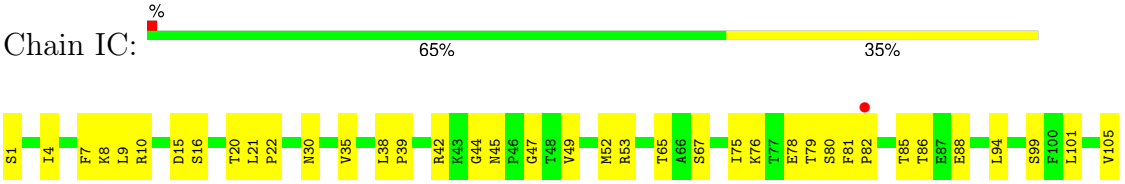
• Molecule 1: coat protein

Chain IB:



• Molecule 1: coat protein

Chain IC:



• Molecule 1: coat protein

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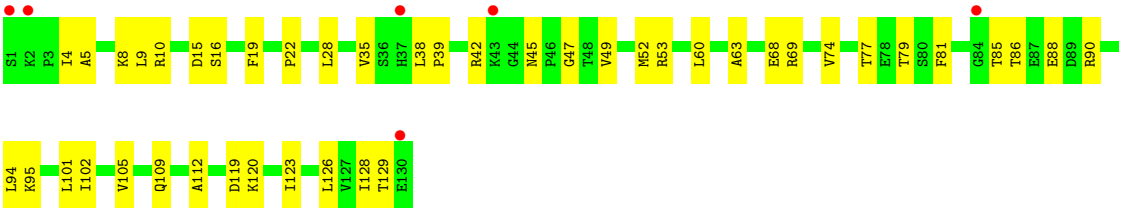

• Molecule 1: coat protein

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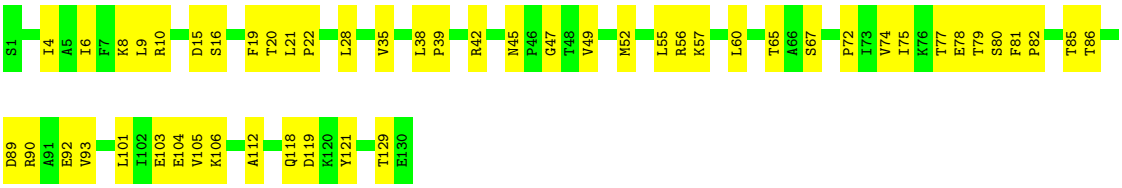
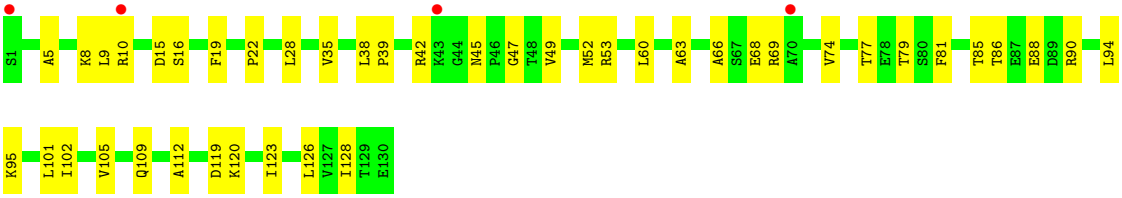


• Molecule 1: coat protein

Chain IF:

• Molecule 1: coat protein

Chain IG:



• Molecule 1: coat protein

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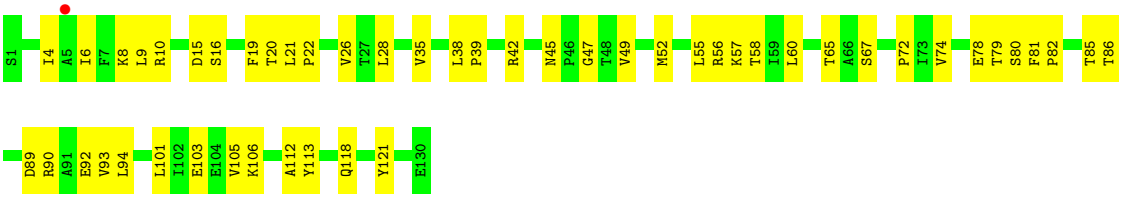
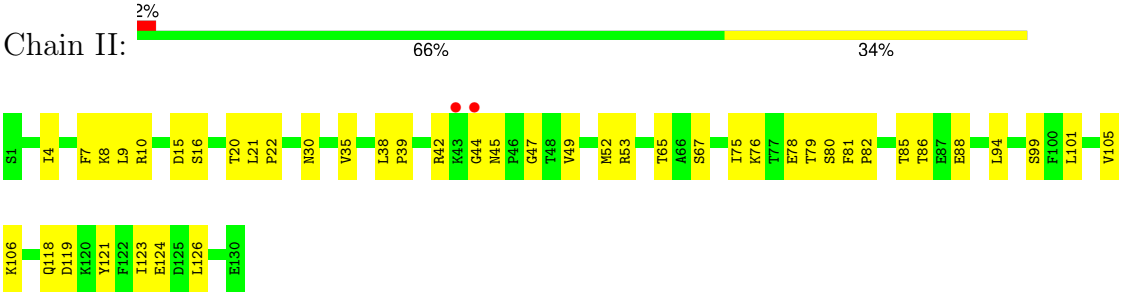
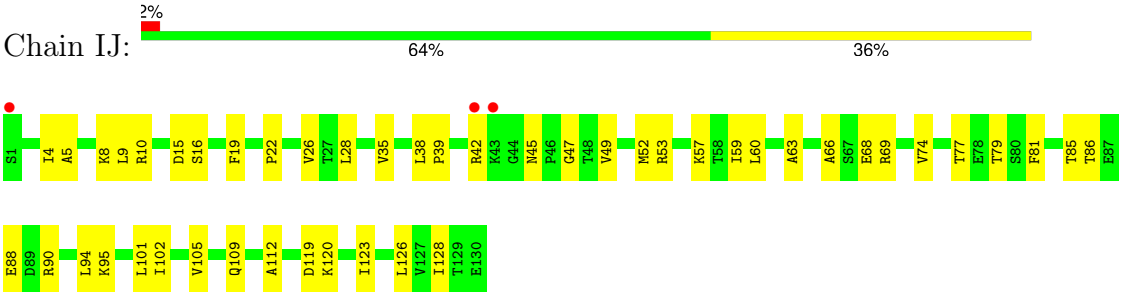


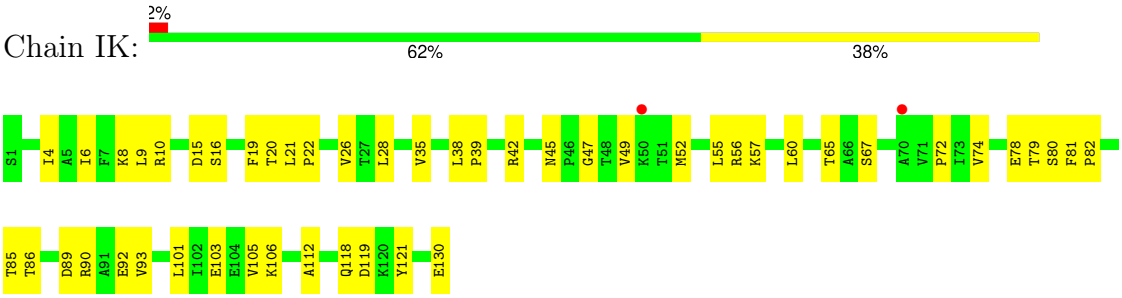
• Molecule 1: coat protein



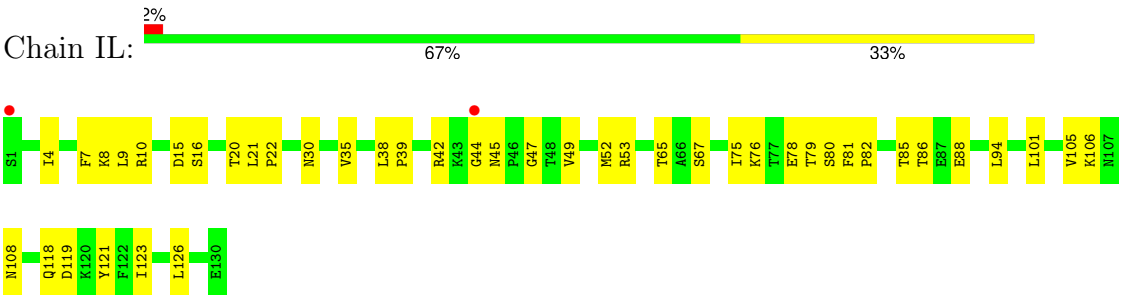
• Molecule 1: coat protein



• Molecule 1: coat protein

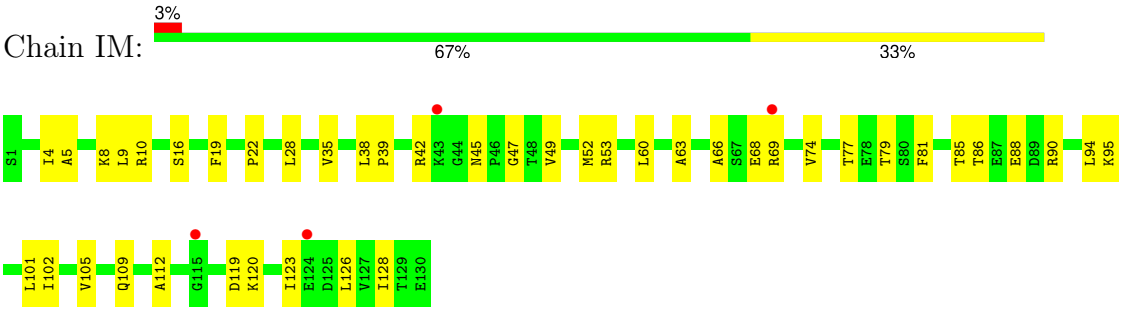


• Molecule 1: coat protein



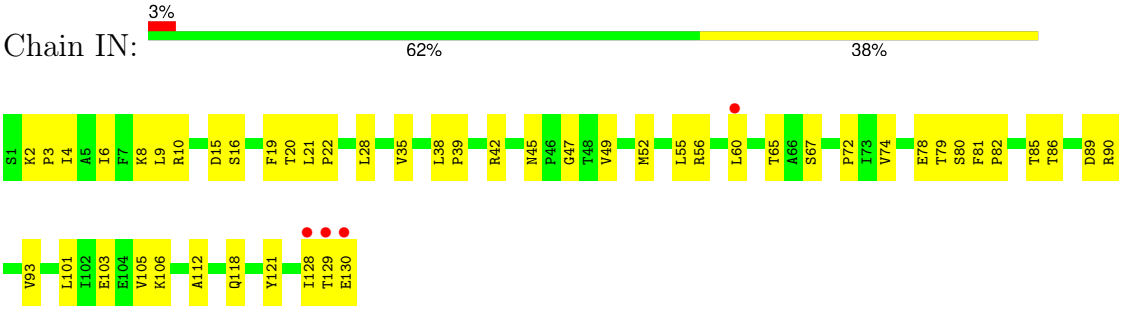
• Molecule 1: coat protein

Chain IM:



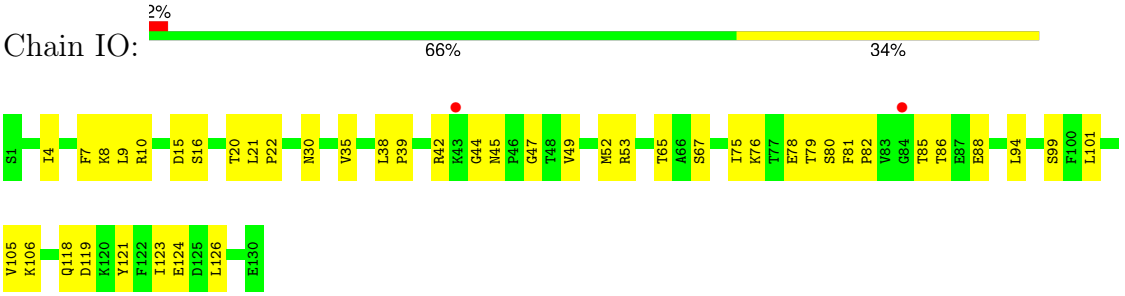
• Molecule 1: coat protein

Chain IN:



• Molecule 1: coat protein

Chain IO:



• Molecule 1: coat protein

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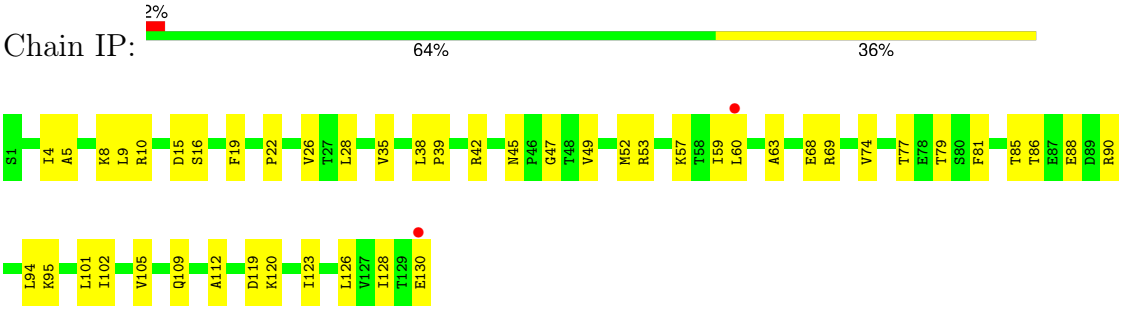
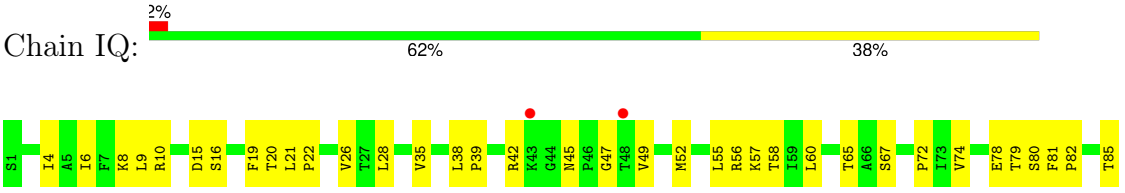


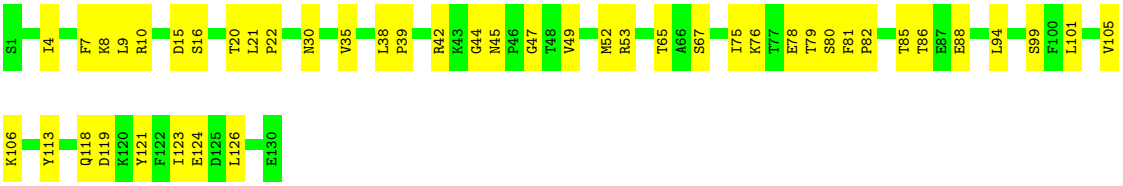
• Molecule 1: coat protein

Chain IQ:



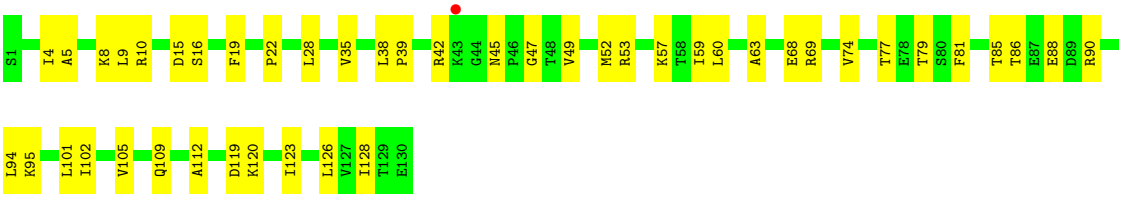
• Molecule 1: coat protein

Chain IR:



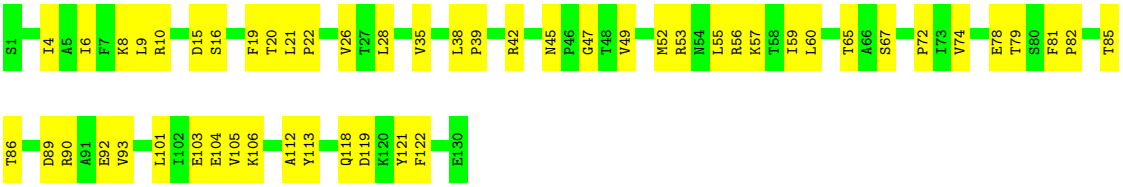
• Molecule 1: coat protein

Chain IS:



• Molecule 1: coat protein

Chain IT:

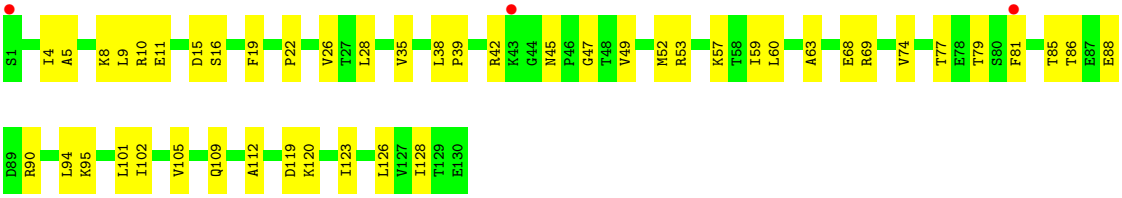


• Molecule 1: coat protein

Chain IU:

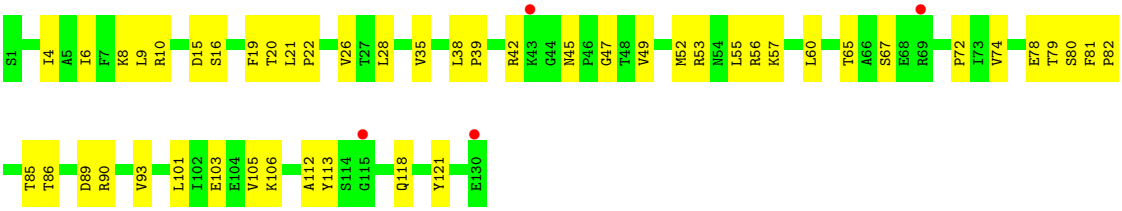
• Molecule 1: coat protein

Chain IV:



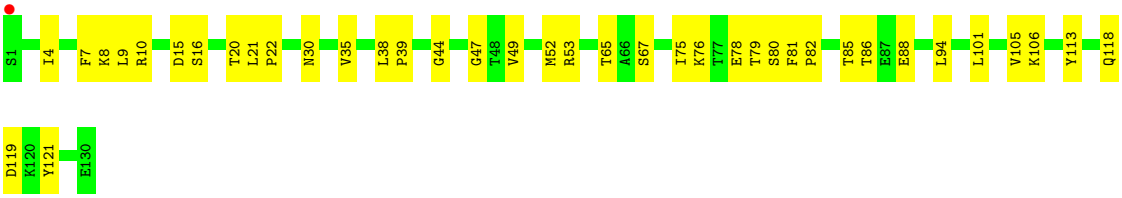
• Molecule 1: coat protein

Chain IW:



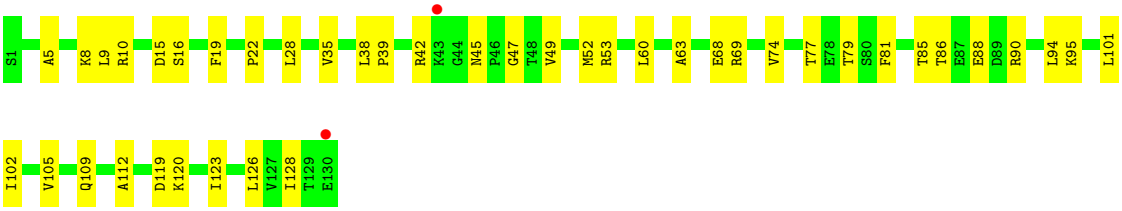
• Molecule 1: coat protein

Chain IX:



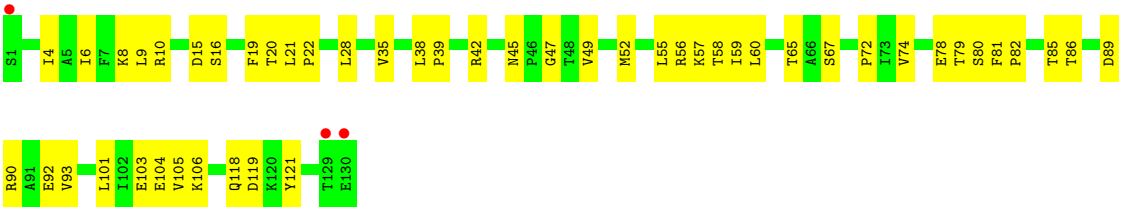
• Molecule 1: coat protein

Chain IY:



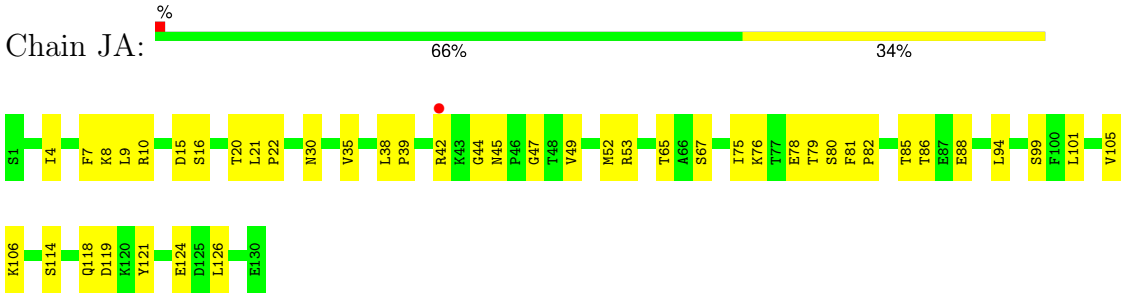
• Molecule 1: coat protein

Chain IZ:



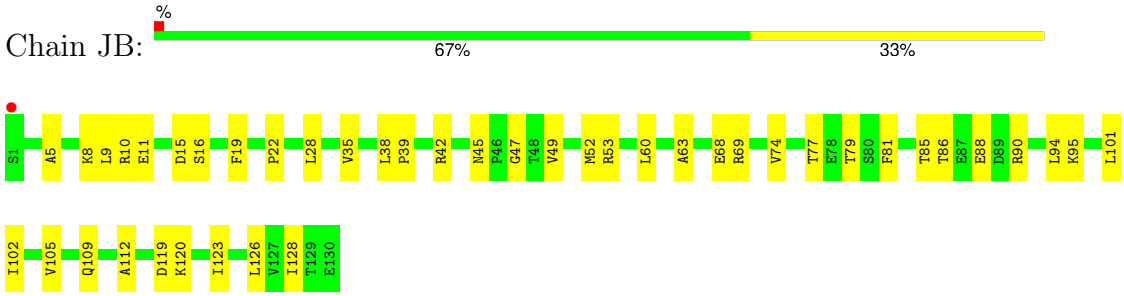
• Molecule 1: coat protein

Chain JA:



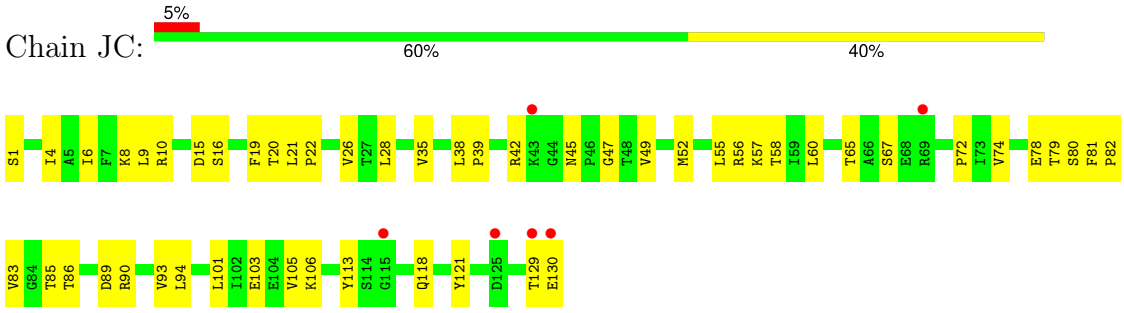
• Molecule 1: coat protein

Chain JB:



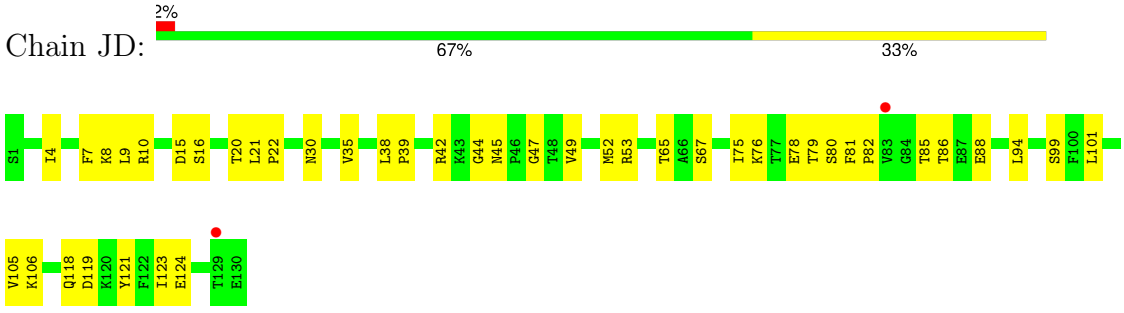
• Molecule 1: coat protein

Chain JC:



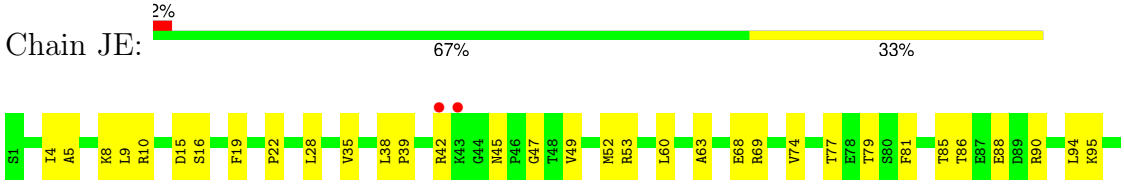
• Molecule 1: coat protein

Chain JD:



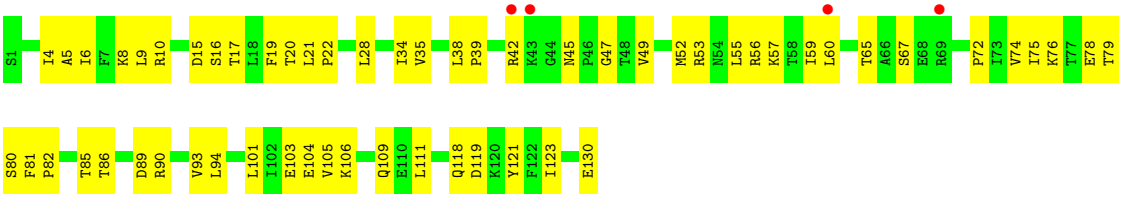
• Molecule 1: coat protein

Chain JE:



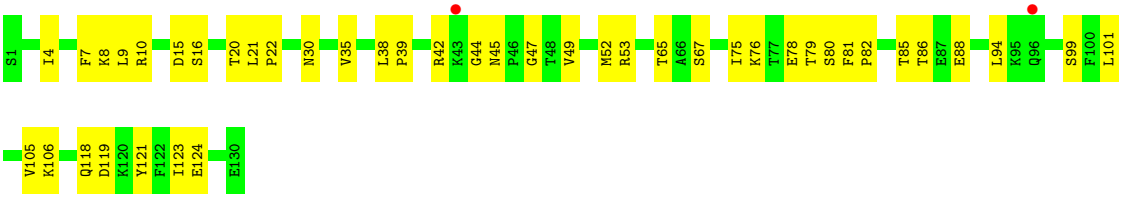
• Molecule 1: coat protein

Chain JF:



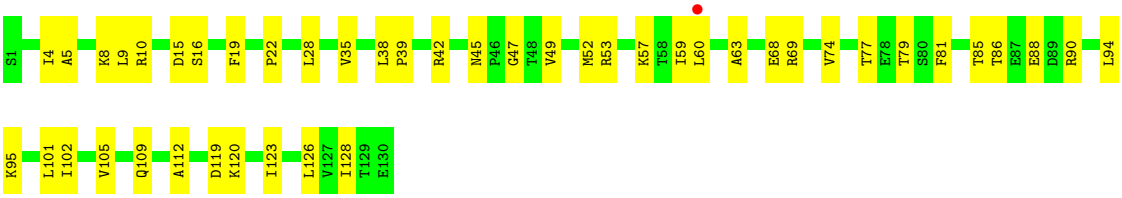
• Molecule 1: coat protein

Chain JG:



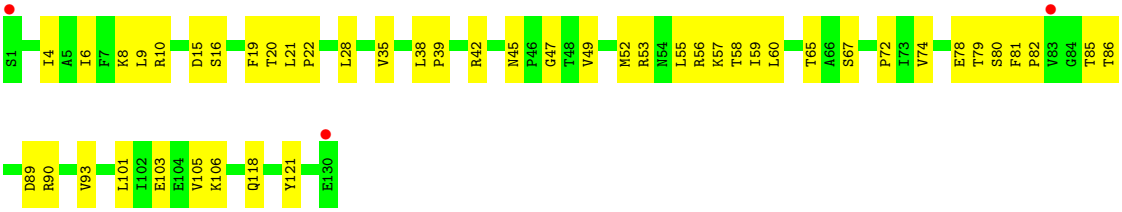
• Molecule 1: coat protein

Chain JH:



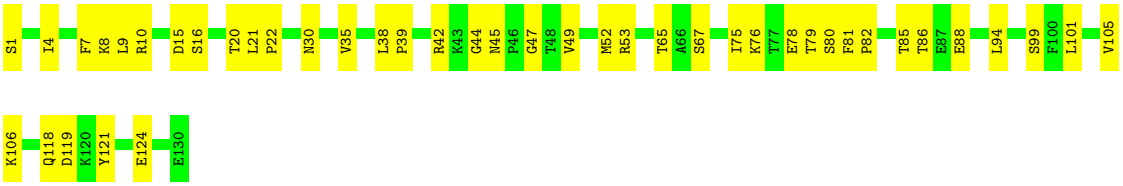
• Molecule 1: coat protein

Chain JI:



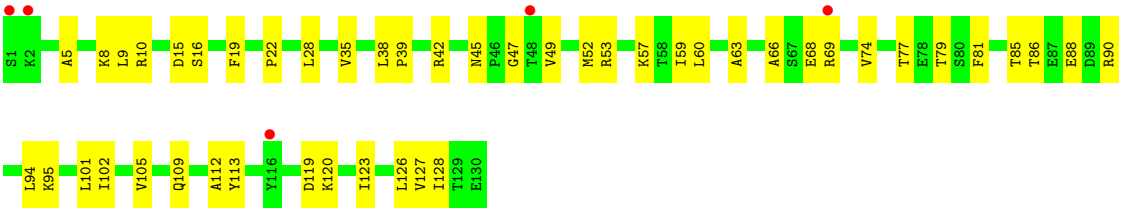
• Molecule 1: coat protein

Chain JJ:



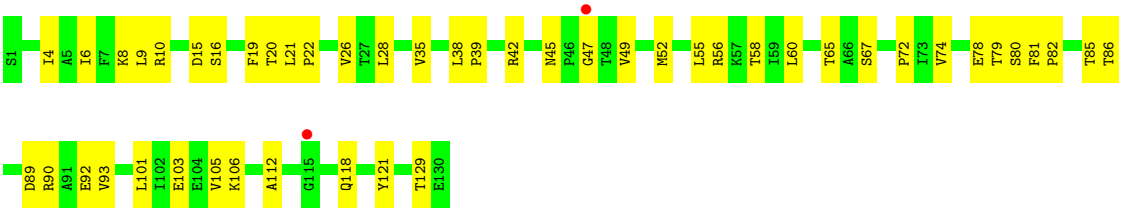
• Molecule 1: coat protein

Chain JK:



• Molecule 1: coat protein

Chain JL:

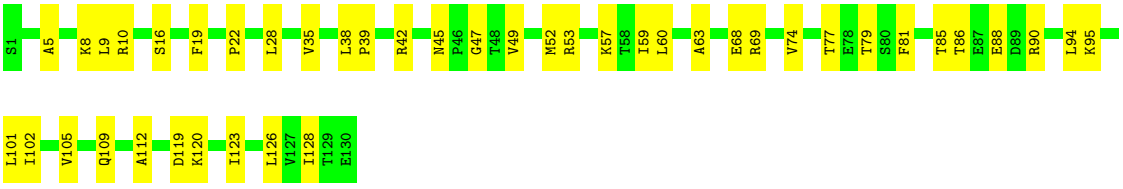


• Molecule 1: coat protein

Chain JM:

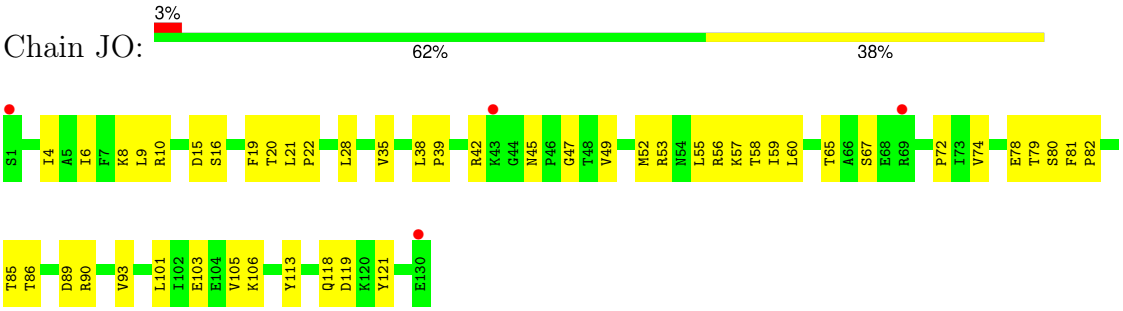
• Molecule 1: coat protein

Chain JN:



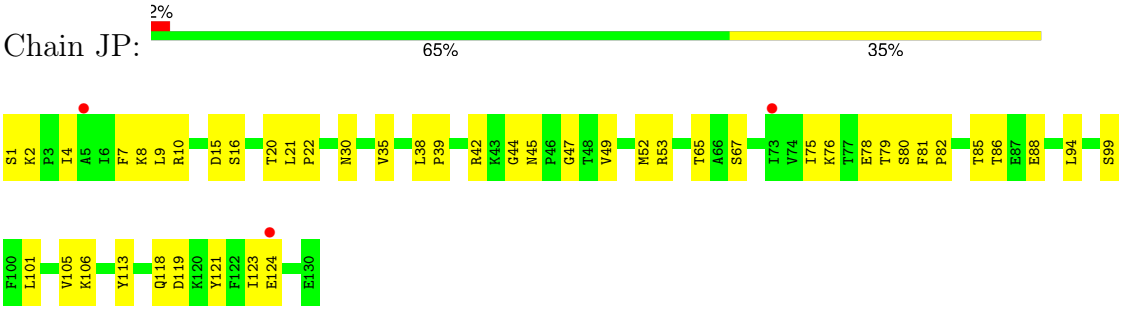
• Molecule 1: coat protein

Chain JO:



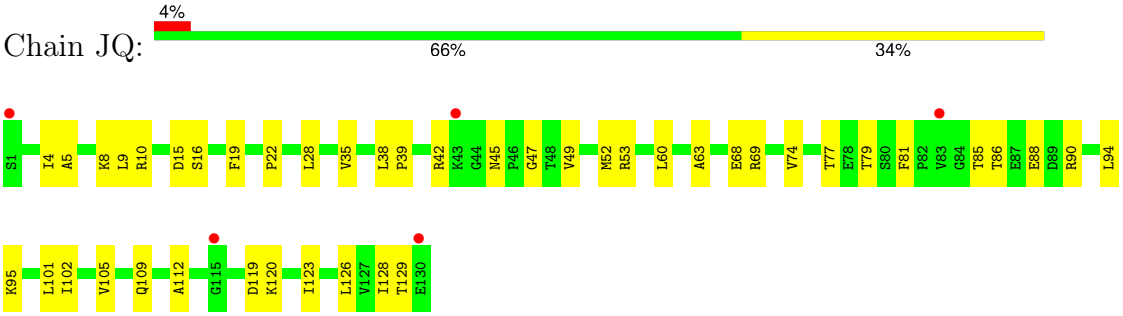
• Molecule 1: coat protein

Chain JP:



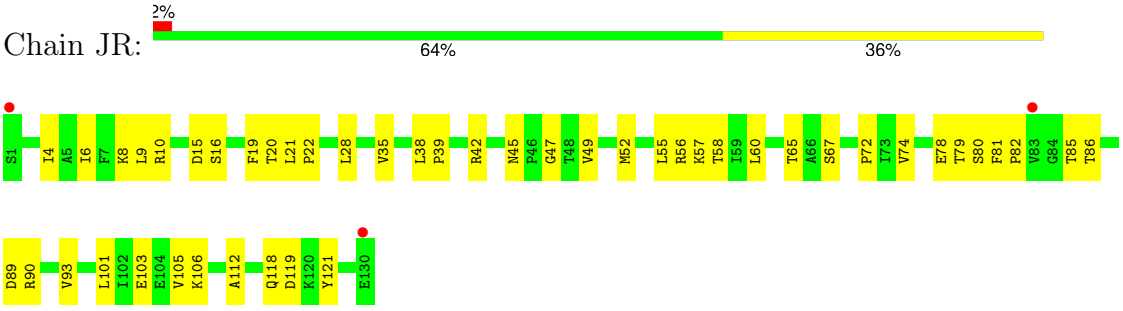
• Molecule 1: coat protein

Chain JQ:



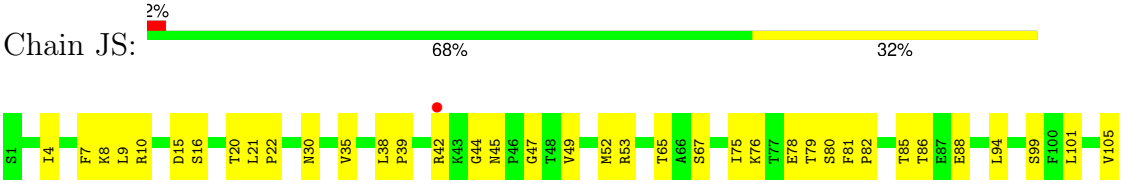
• Molecule 1: coat protein

Chain JR:



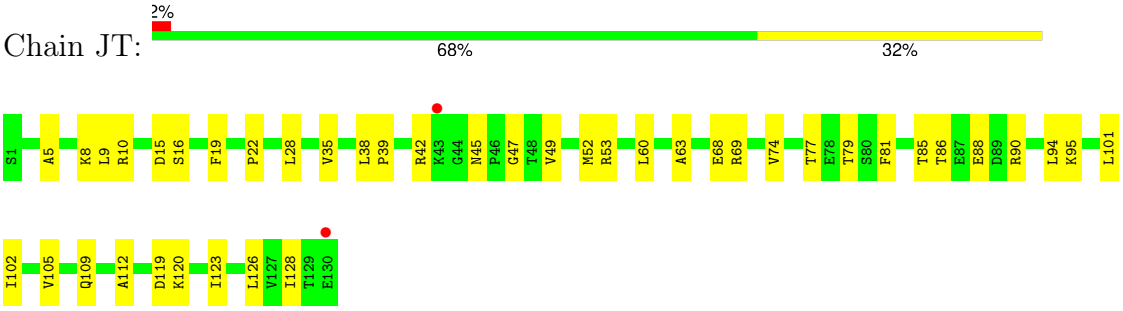
• Molecule 1: coat protein

Chain JS:



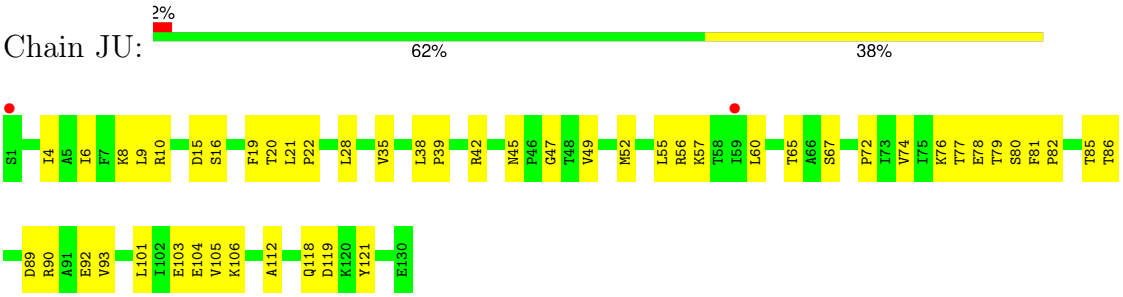
• Molecule 1: coat protein

Chain JT:



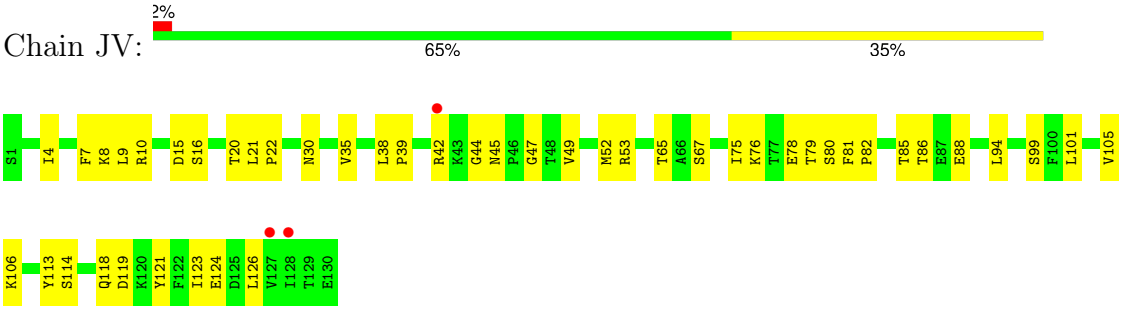
• Molecule 1: coat protein

Chain JU:



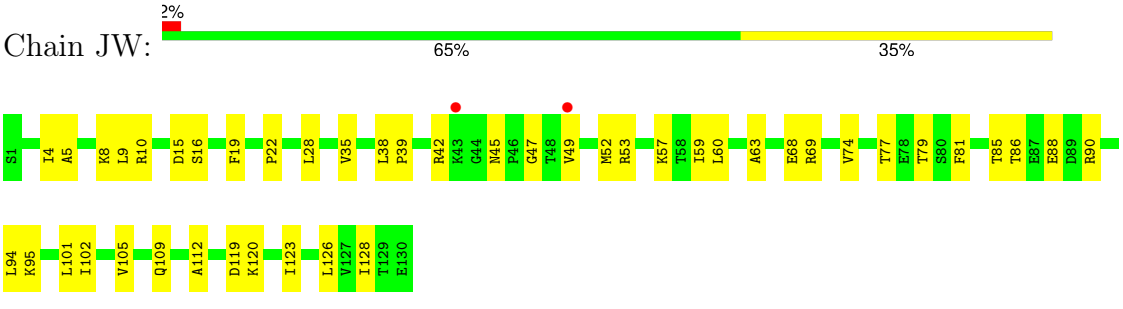
• Molecule 1: coat protein

Chain JV:



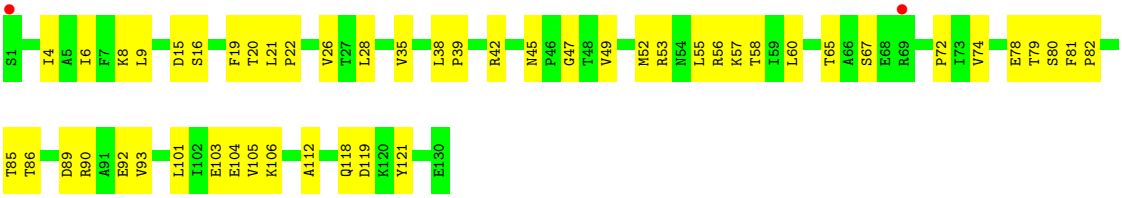
• Molecule 1: coat protein

Chain JW:

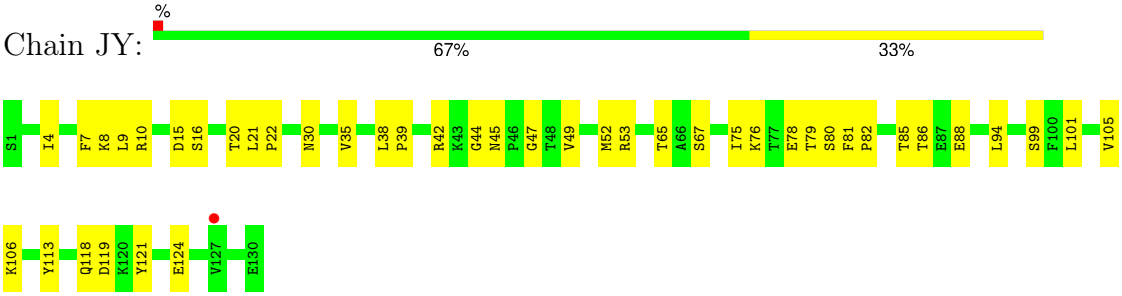


• Molecule 1: coat protein

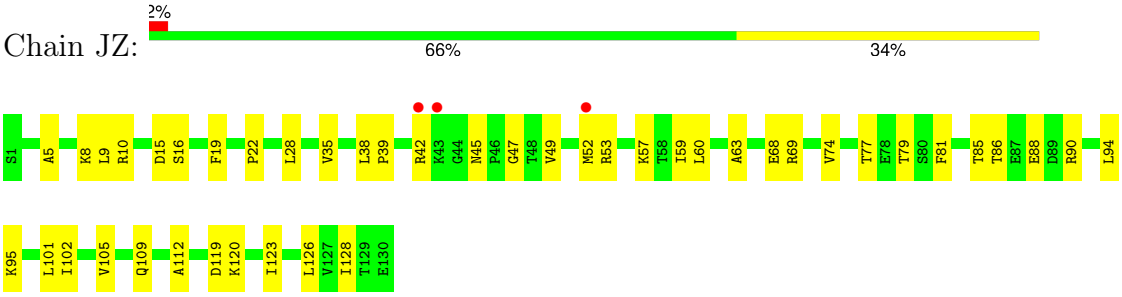
Chain JX:



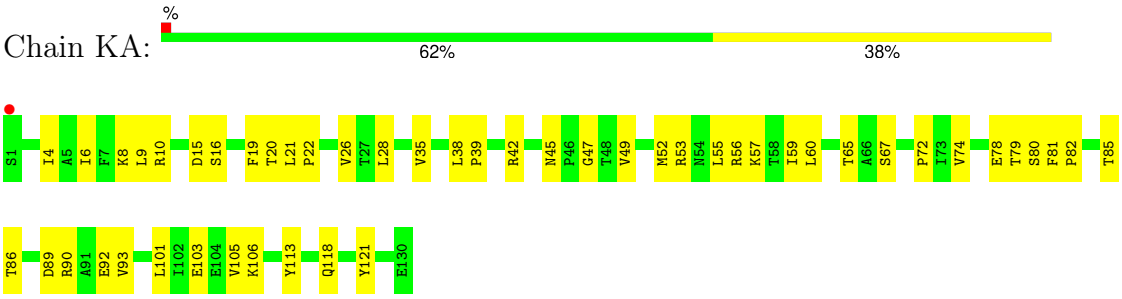
• Molecule 1: coat protein



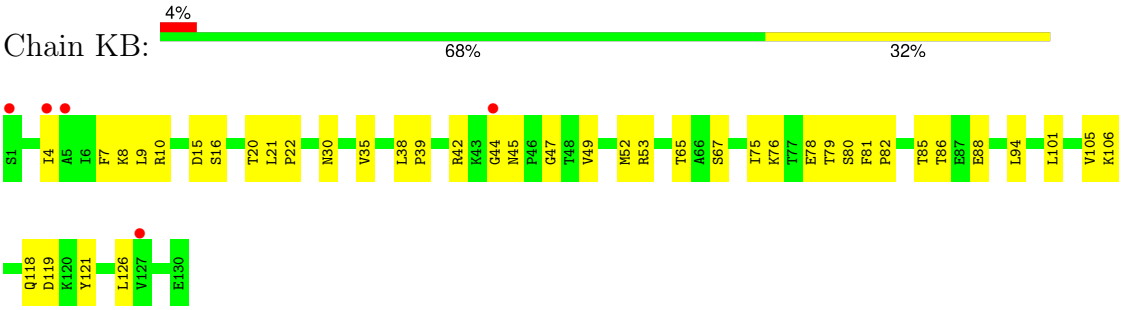
• Molecule 1: coat protein



• Molecule 1: coat protein

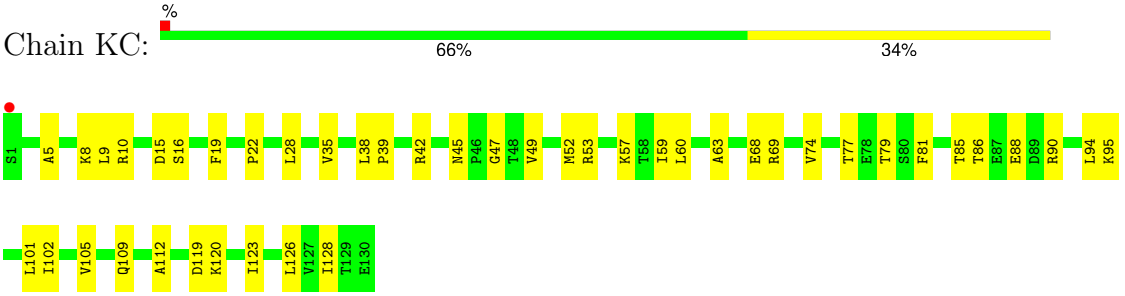


• Molecule 1: coat protein



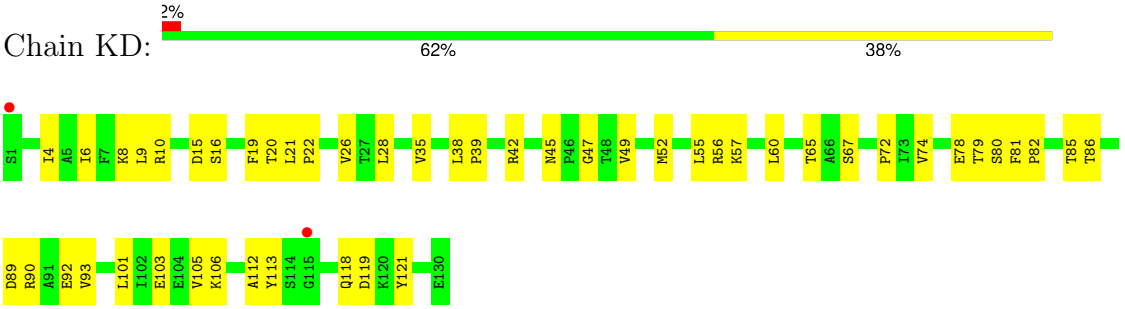
• Molecule 1: coat protein

Chain KC:



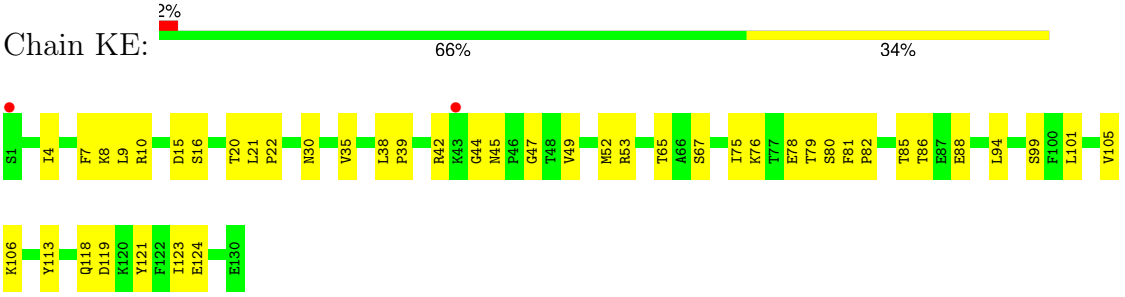
• Molecule 1: coat protein

Chain KD:



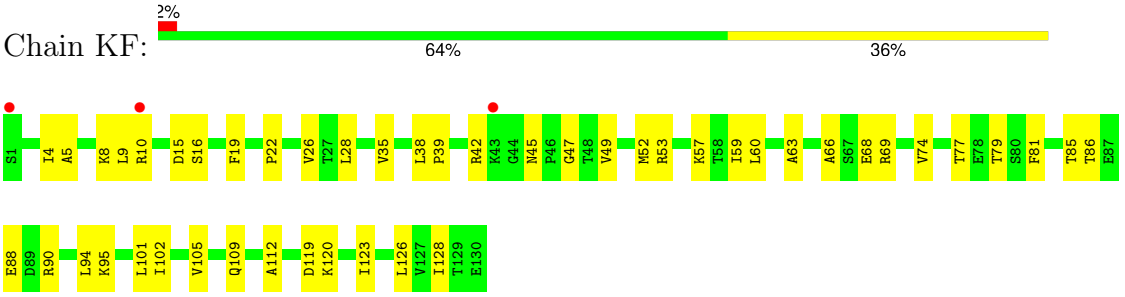
• Molecule 1: coat protein

Chain KE:



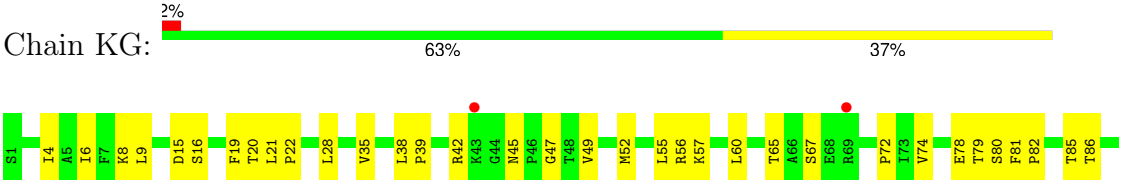
• Molecule 1: coat protein

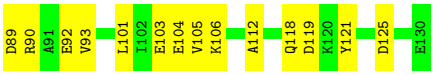
Chain KF:



• Molecule 1: coat protein

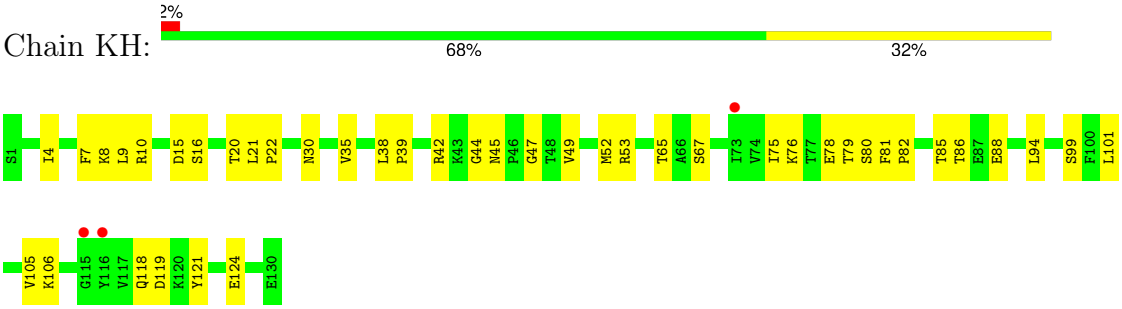
Chain KG:





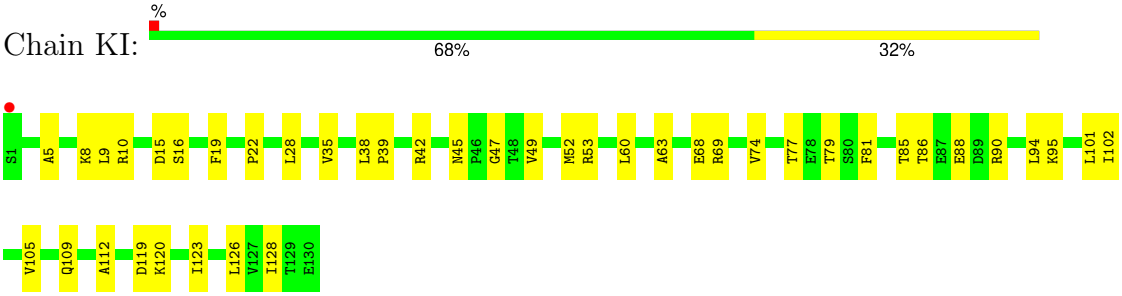
• Molecule 1: coat protein

Chain KH:



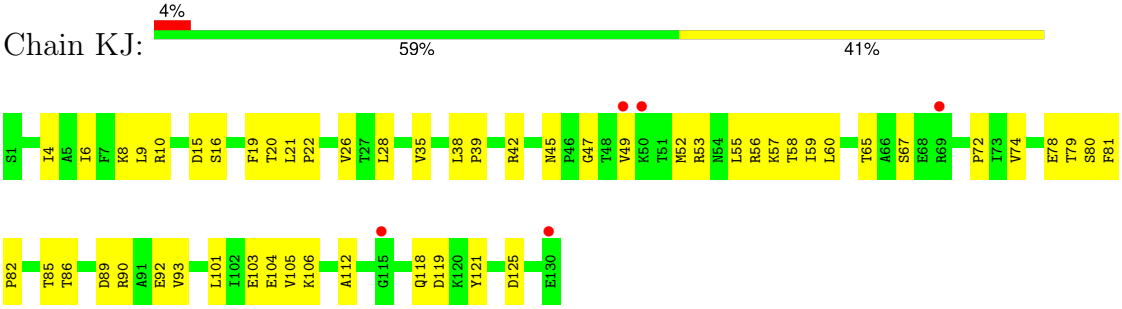
• Molecule 1: coat protein

Chain KI:



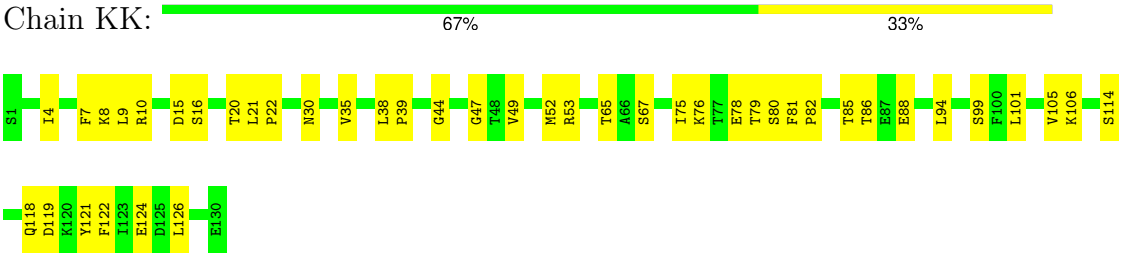
• Molecule 1: coat protein

Chain KJ:



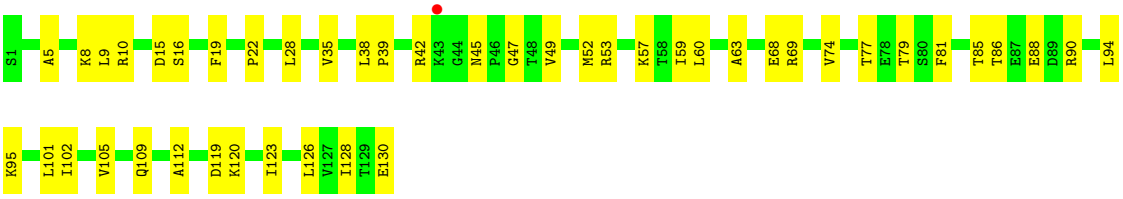
• Molecule 1: coat protein

Chain KK:



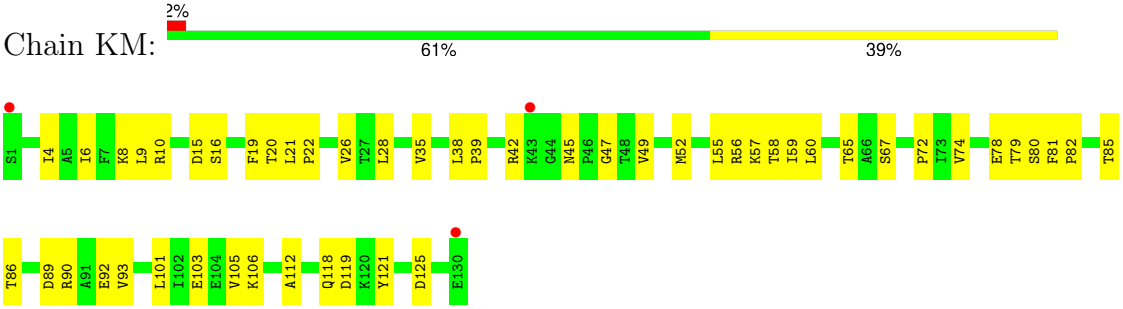
• Molecule 1: coat protein

Chain KL:



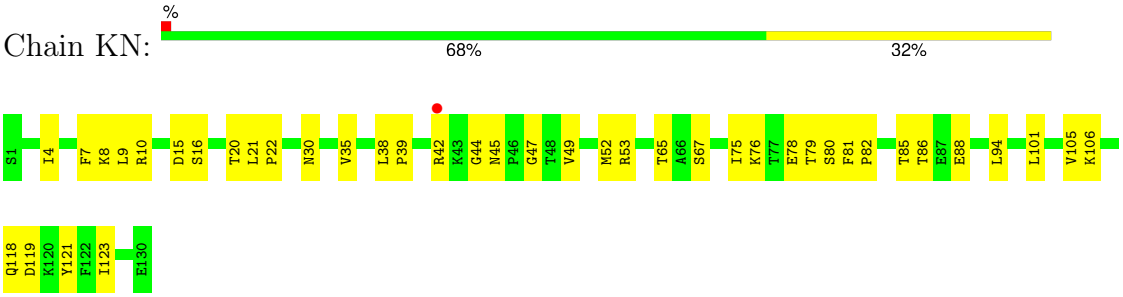
• Molecule 1: coat protein

Chain KM:



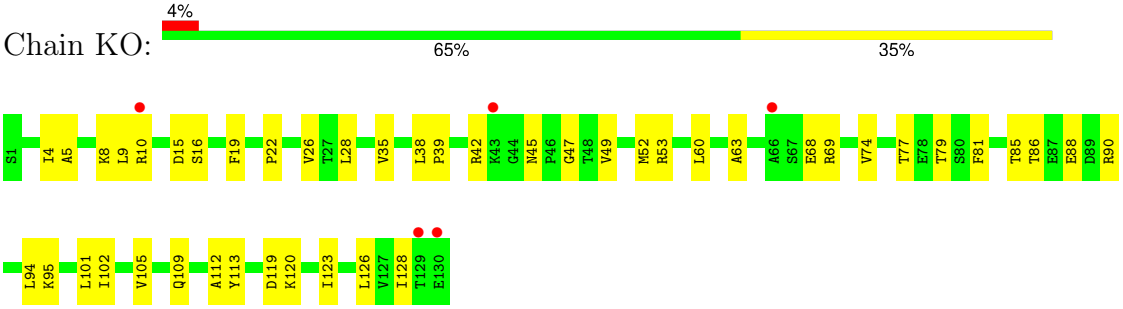
• Molecule 1: coat protein

Chain KN:



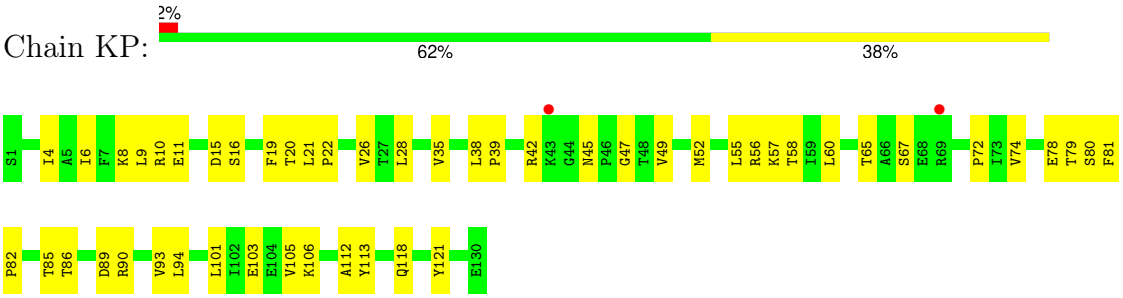
• Molecule 1: coat protein

Chain KO:



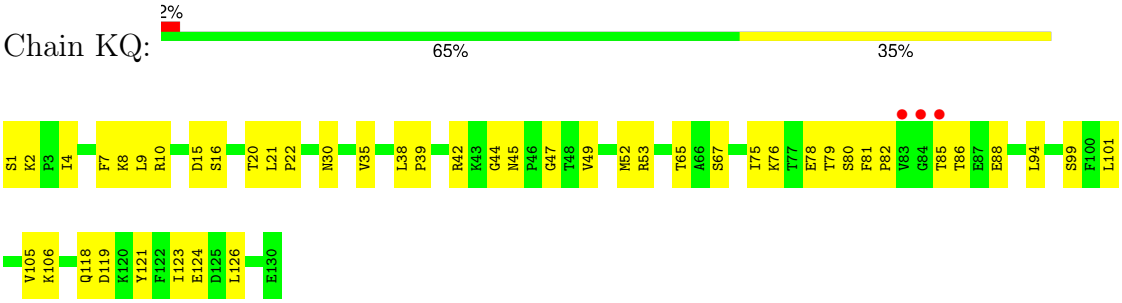
• Molecule 1: coat protein

Chain KP:



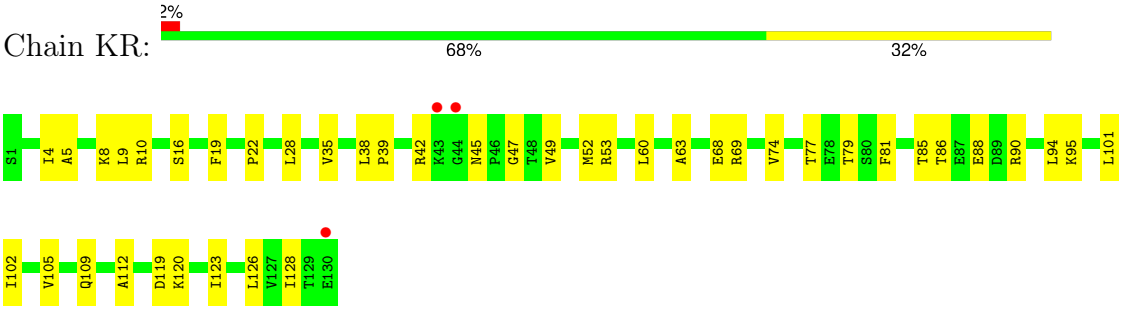
• Molecule 1: coat protein

Chain KQ:



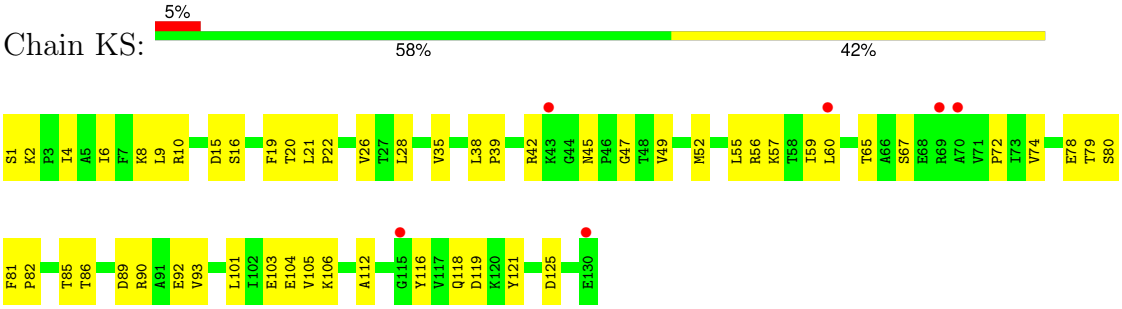
• Molecule 1: coat protein

Chain KR:



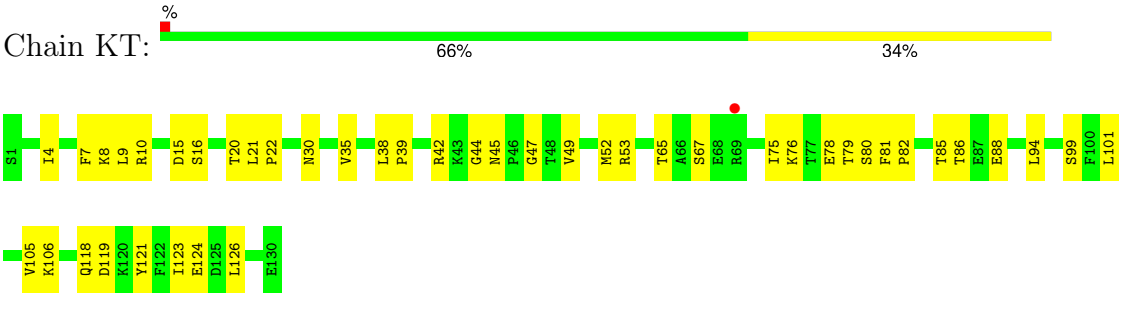
• Molecule 1: coat protein

Chain KS:



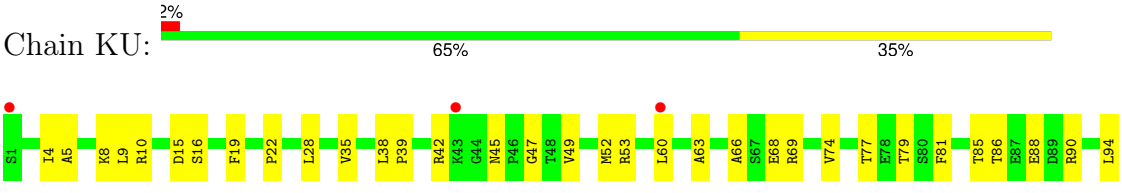
• Molecule 1: coat protein

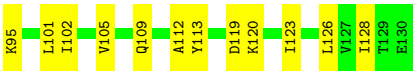
Chain KT:



• Molecule 1: coat protein

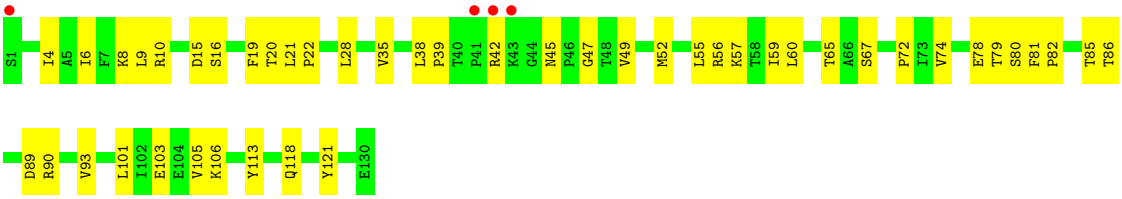
Chain KU:





• Molecule 1: coat protein

Chain KV:

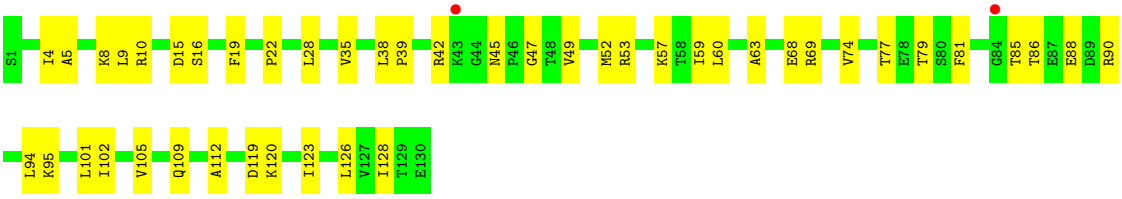


• Molecule 1: coat protein

Chain KW:

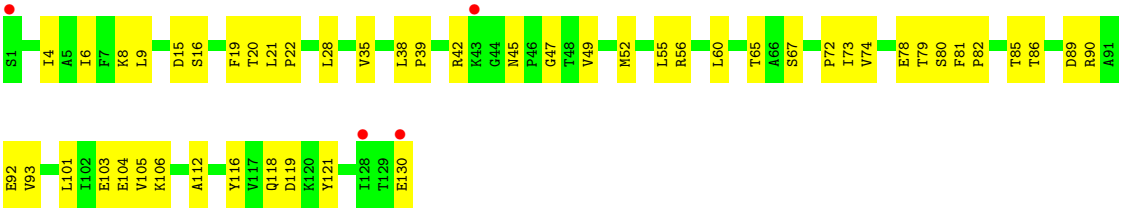
• Molecule 1: coat protein

Chain KX:



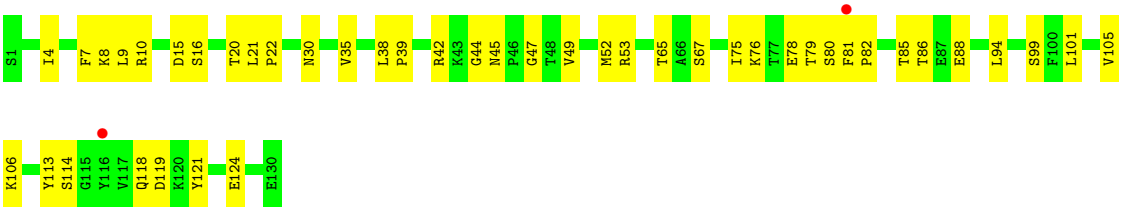
• Molecule 1: coat protein

Chain KY:



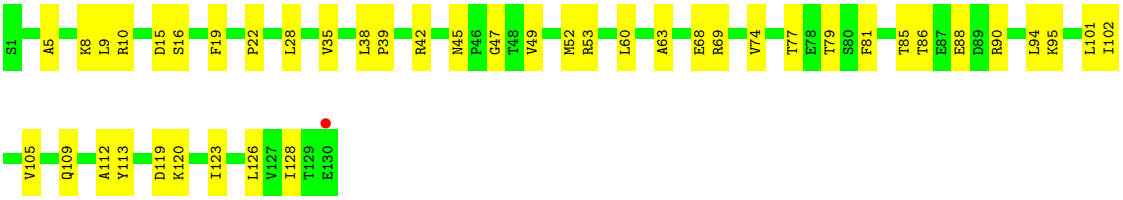
• Molecule 1: coat protein

Chain KZ:



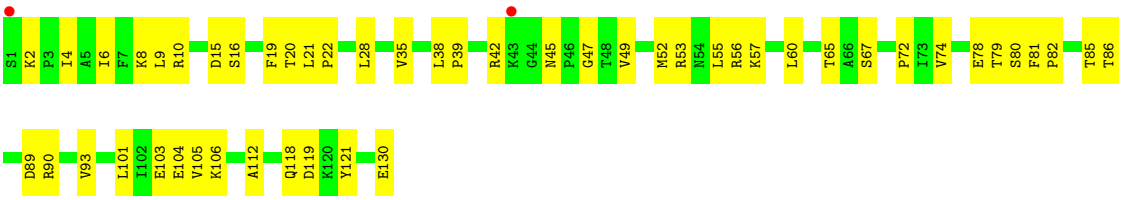
• Molecule 1: coat protein

Chain LA:



• Molecule 1: coat protein

Chain LB:

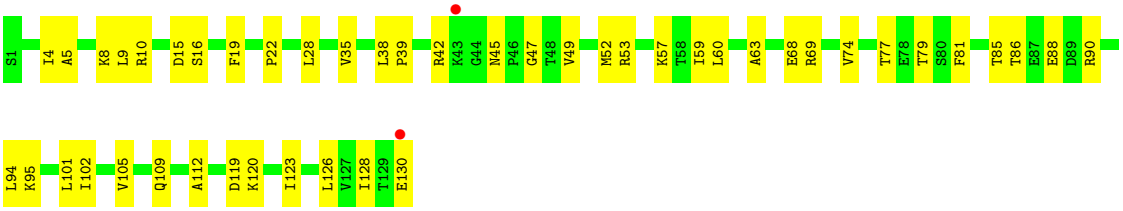


• Molecule 1: coat protein

Chain LC:

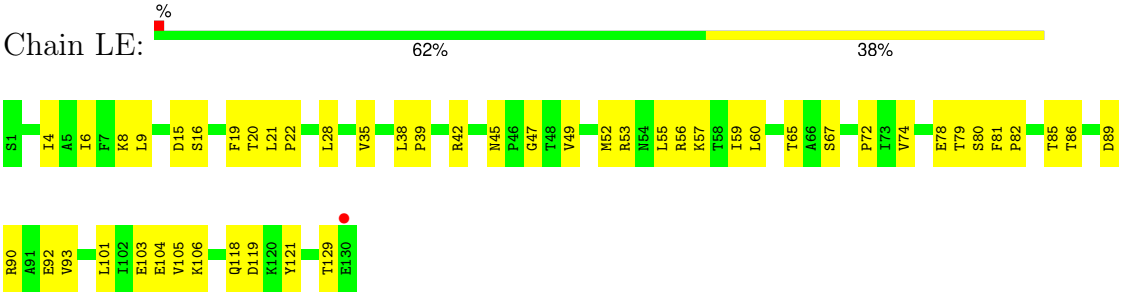
• Molecule 1: coat protein

Chain LD:



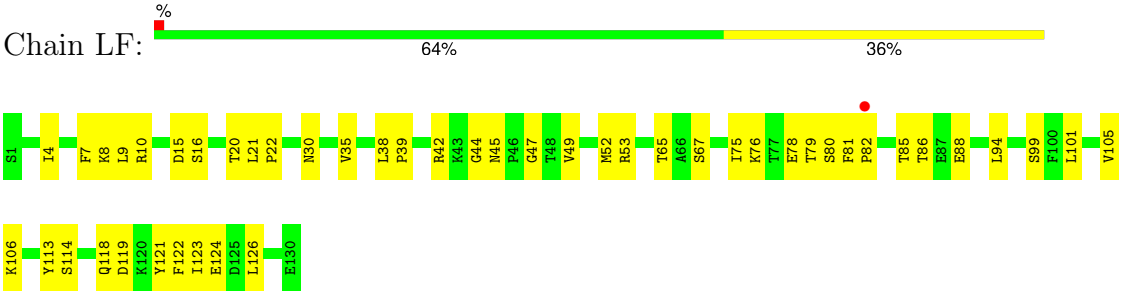
• Molecule 1: coat protein

Chain LE:



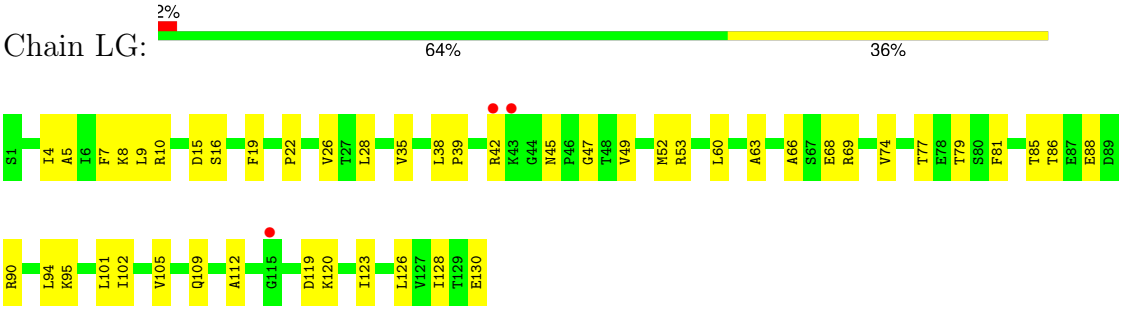
• Molecule 1: coat protein

Chain LF:



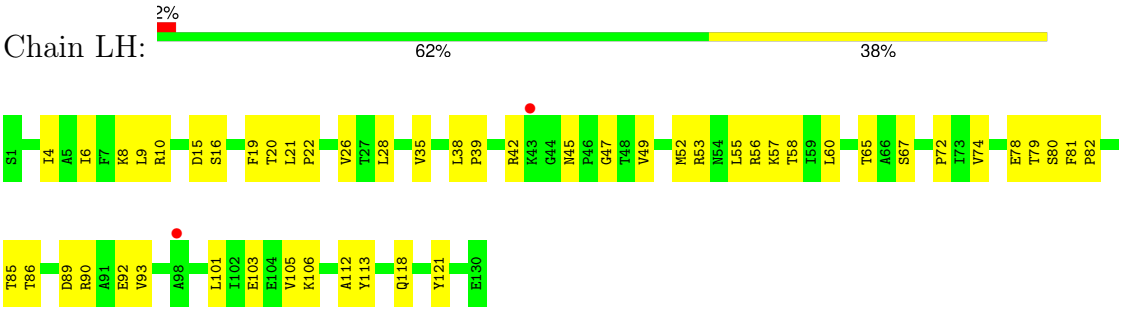
• Molecule 1: coat protein

Chain LG:



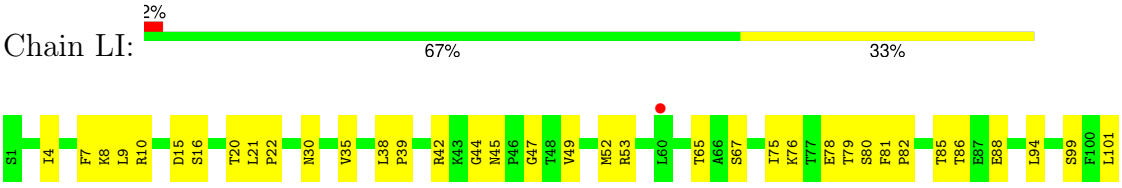
• Molecule 1: coat protein

Chain LH:



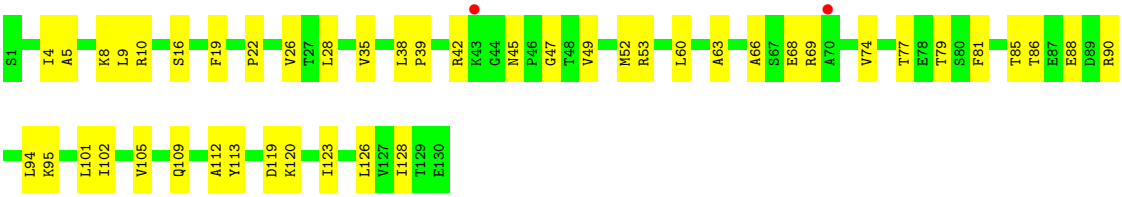
• Molecule 1: coat protein

Chain LI:



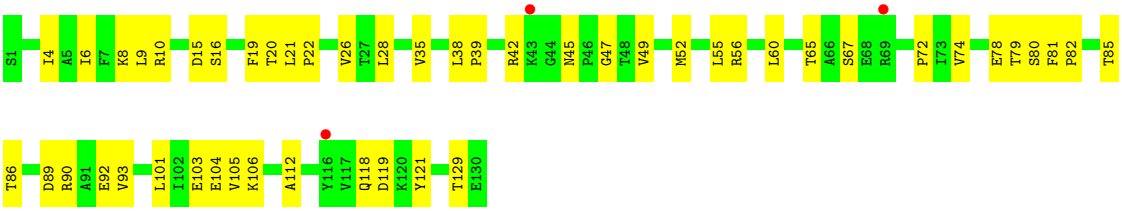
• Molecule 1: coat protein

Chain LJ:



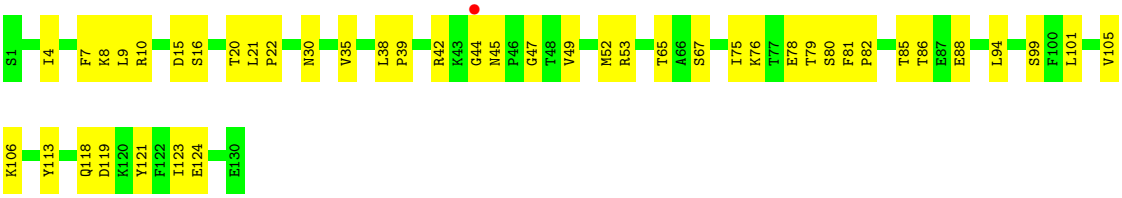
• Molecule 1: coat protein

Chain LK:



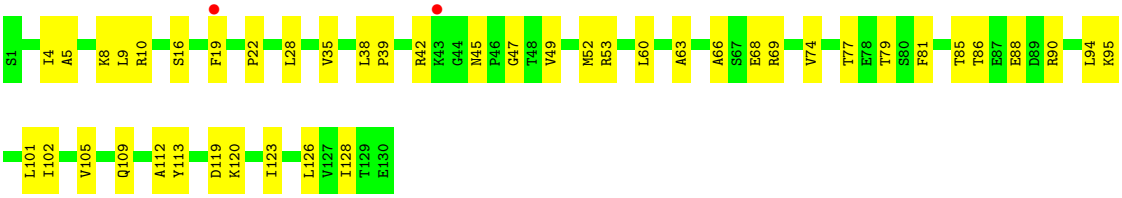
• Molecule 1: coat protein

Chain LL:



• Molecule 1: coat protein

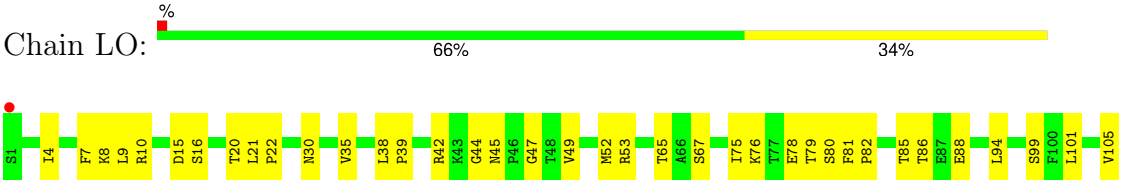
Chain LM:



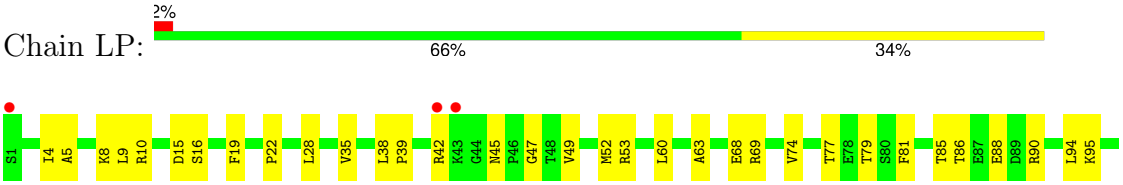
• Molecule 1: coat protein

Chain LN:

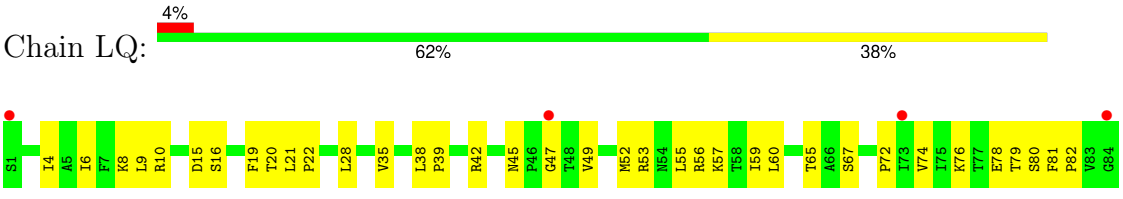
• Molecule 1: coat protein



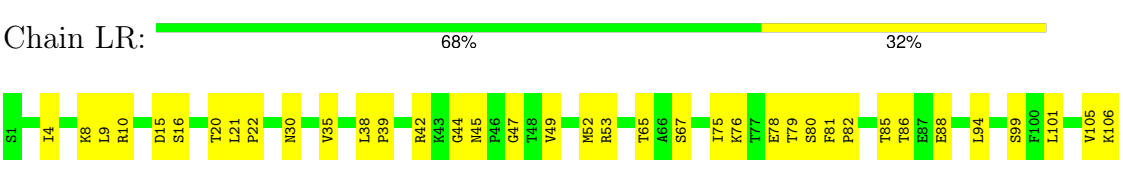
• Molecule 1: coat protein



• Molecule 1: coat protein

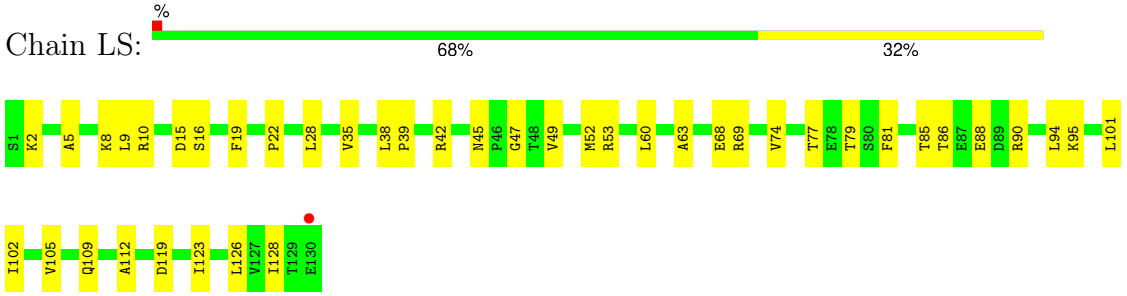


• Molecule 1: coat protein



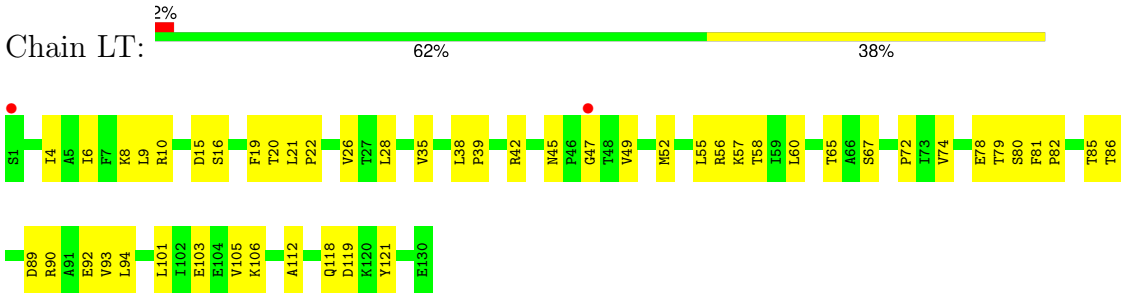
• Molecule 1: coat protein

Chain LS:



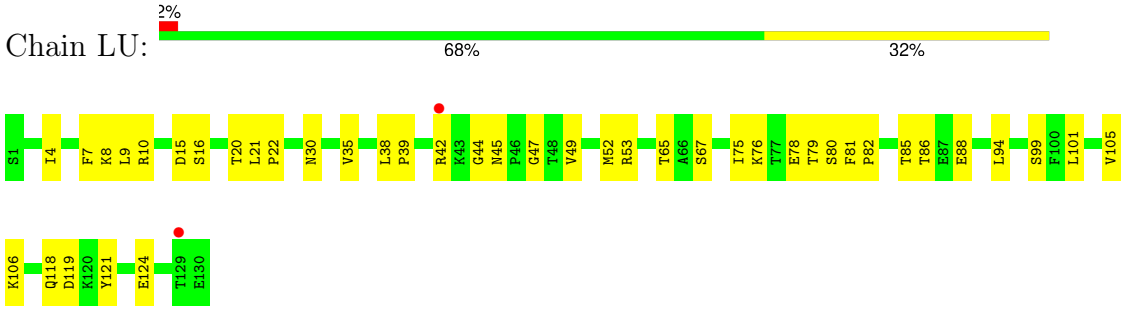
• Molecule 1: coat protein

Chain LT:



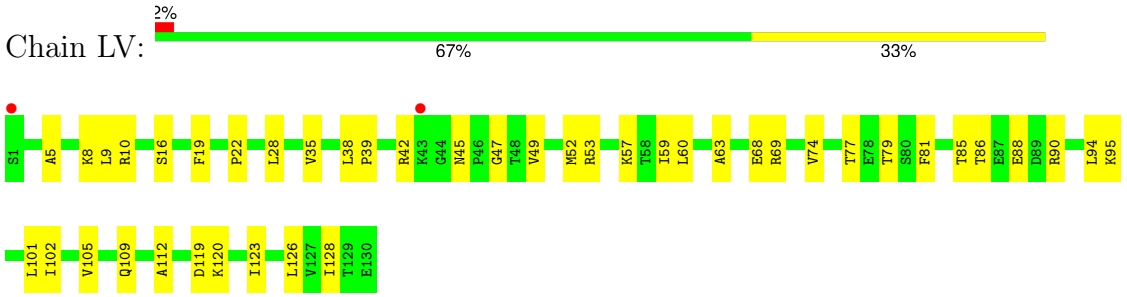
• Molecule 1: coat protein

Chain LU:



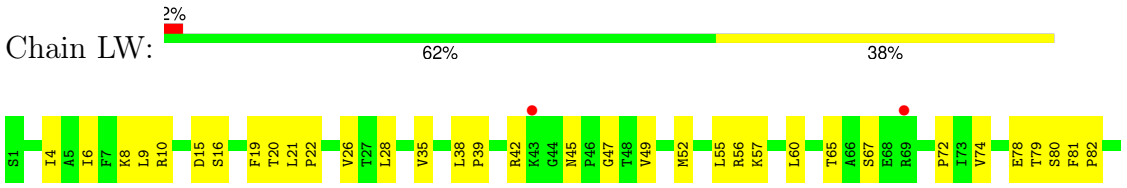
• Molecule 1: coat protein

Chain LV:



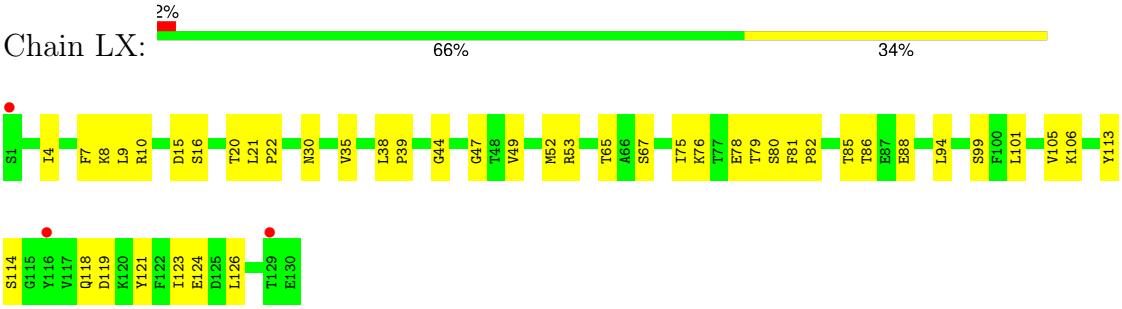
• Molecule 1: coat protein

Chain LW:



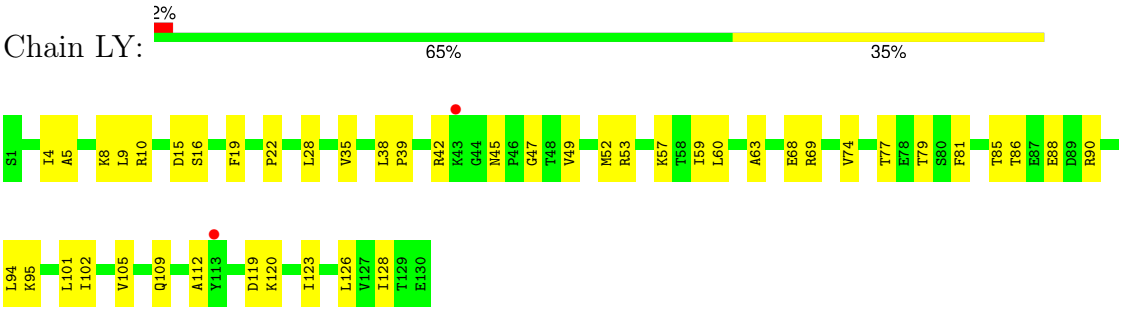
• Molecule 1: coat protein

Chain LX:



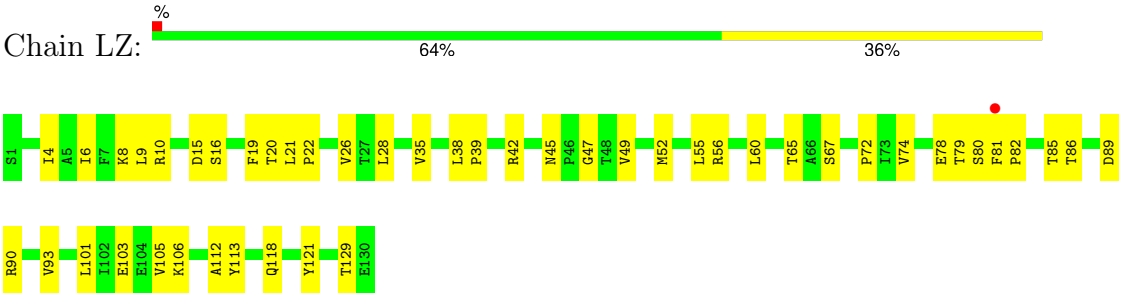
• Molecule 1: coat protein

Chain LY:



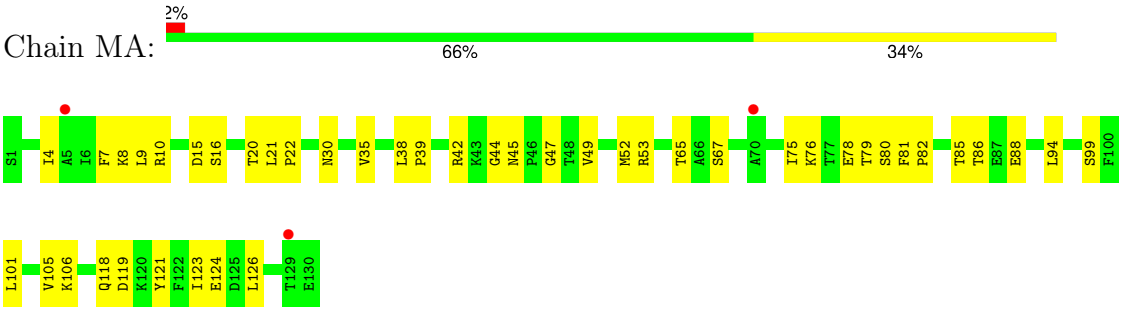
• Molecule 1: coat protein

Chain LZ:



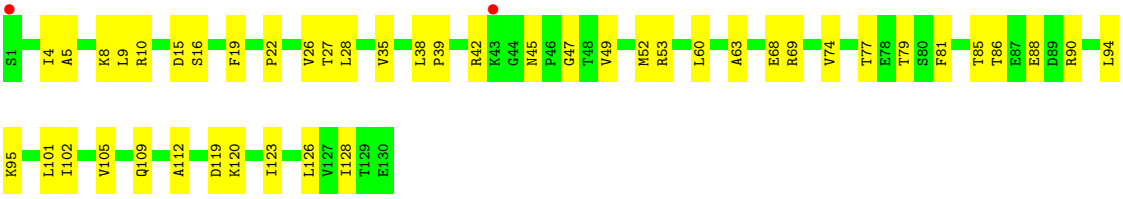
• Molecule 1: coat protein

Chain MA:



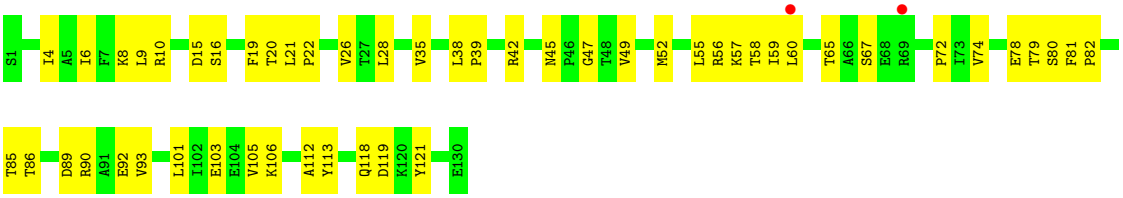
• Molecule 1: coat protein

Chain MB:



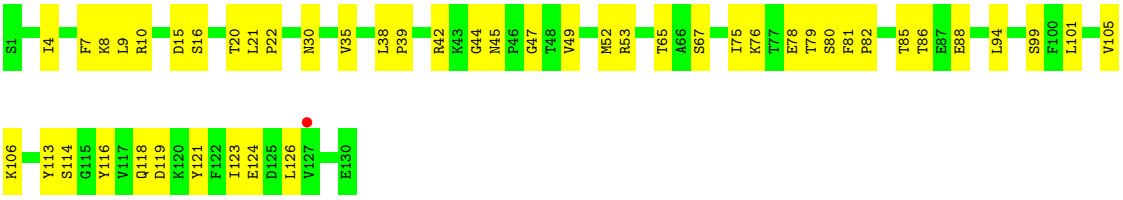
• Molecule 1: coat protein

Chain MC:



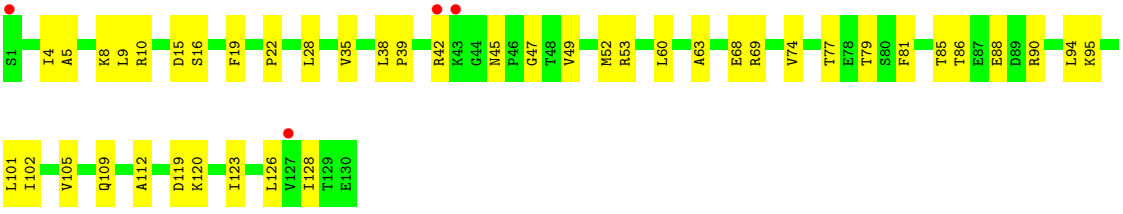
• Molecule 1: coat protein

Chain MD:



• Molecule 1: coat protein

Chain ME:

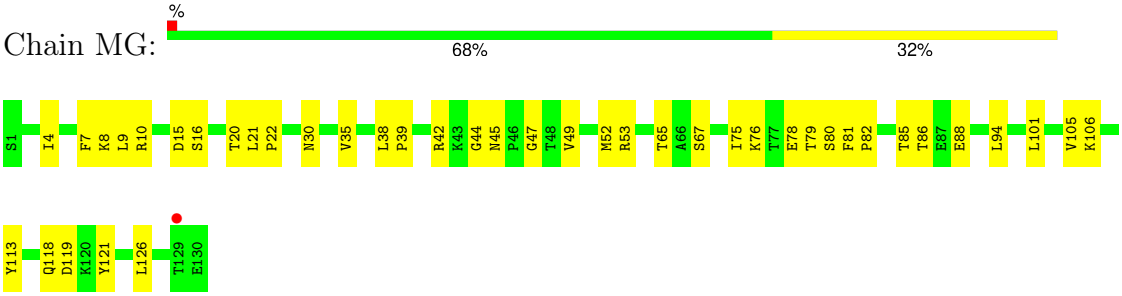


• Molecule 1: coat protein

Chain MF:

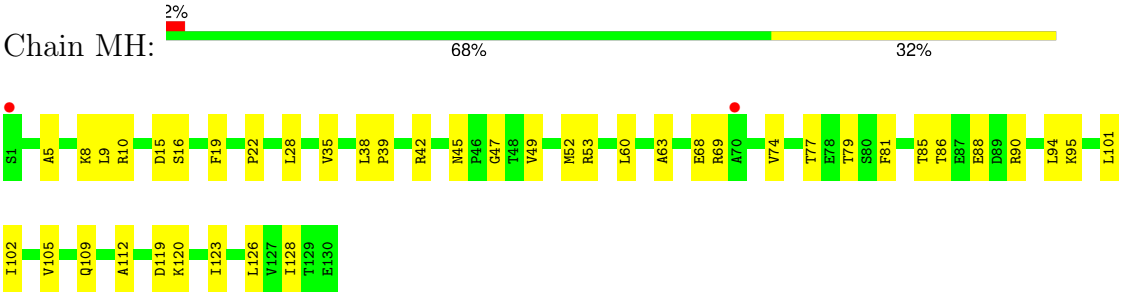
• Molecule 1: coat protein

Chain MG:



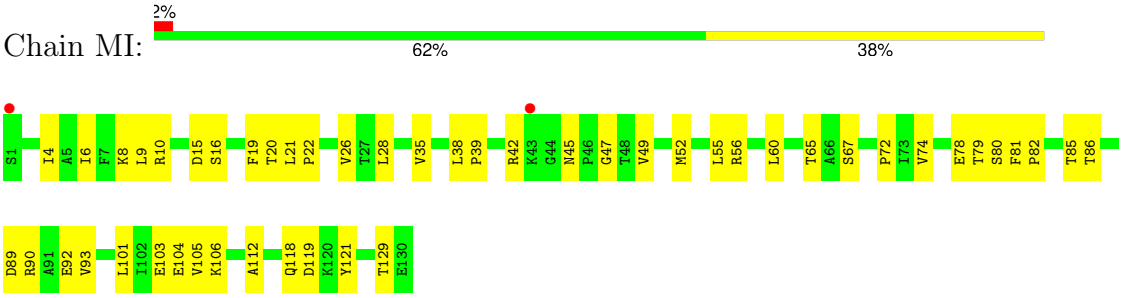
• Molecule 1: coat protein

Chain MH:



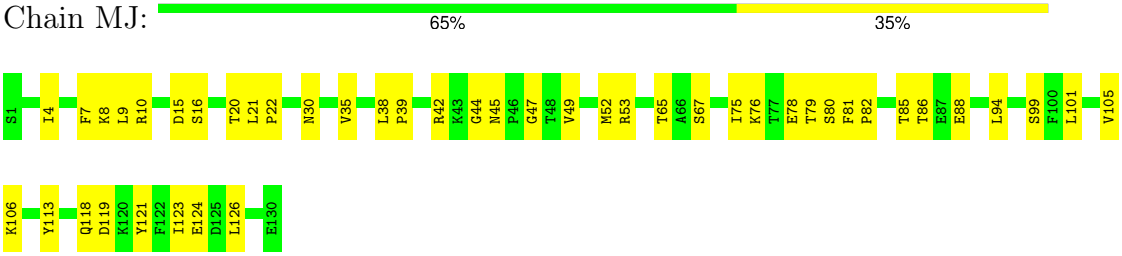
• Molecule 1: coat protein

Chain MI:



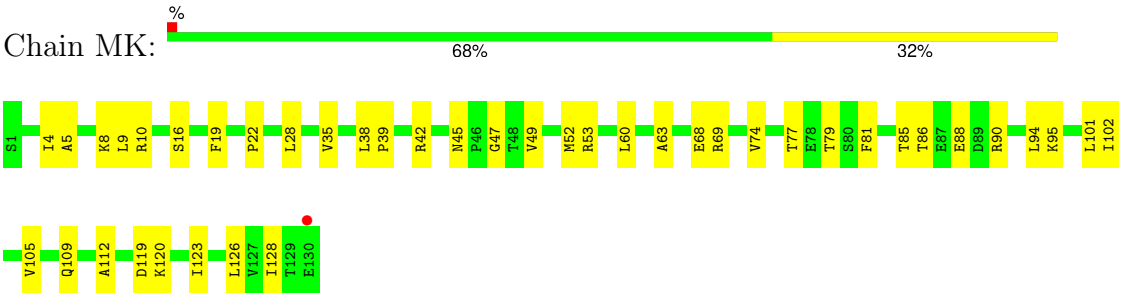
• Molecule 1: coat protein

Chain MJ:



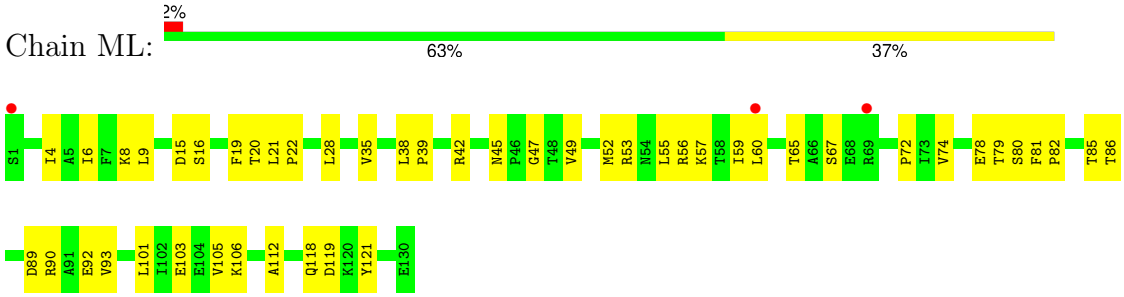
• Molecule 1: coat protein

Chain MK:



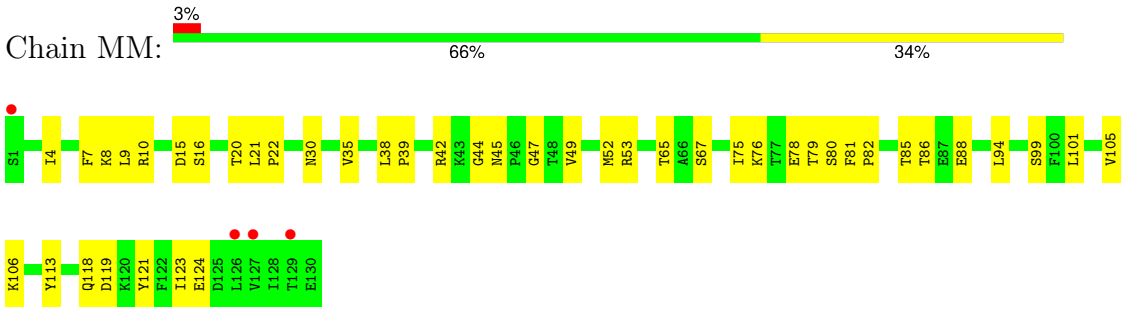
• Molecule 1: coat protein

Chain ML:



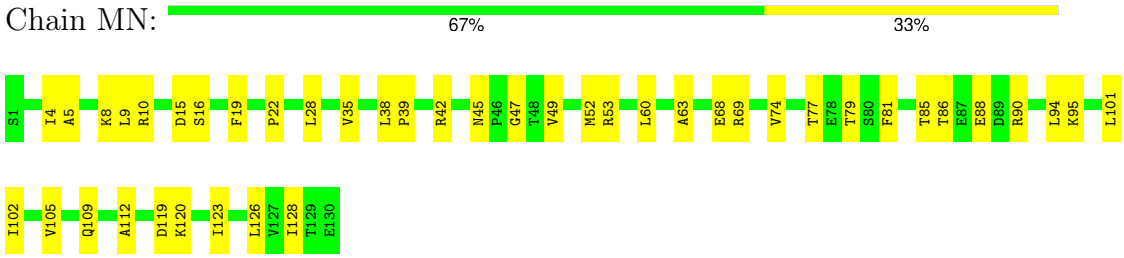
• Molecule 1: coat protein

Chain MM:



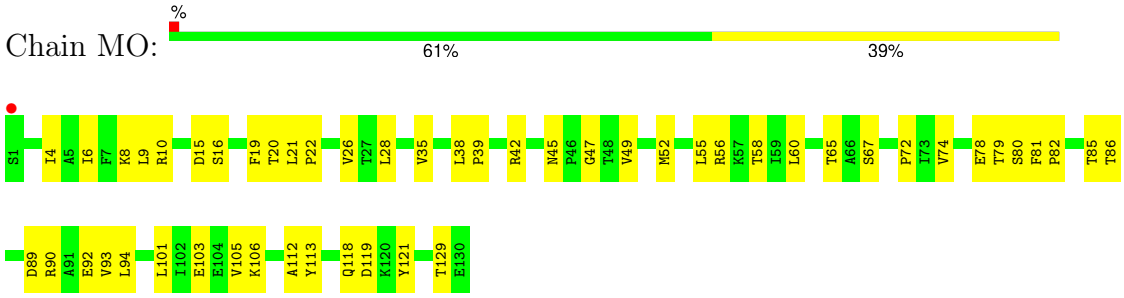
• Molecule 1: coat protein

Chain MN:



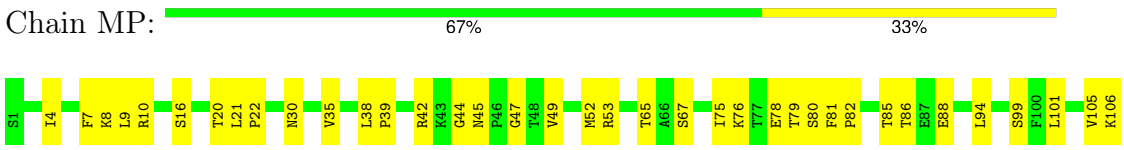
• Molecule 1: coat protein

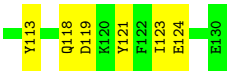
Chain MO:



• Molecule 1: coat protein

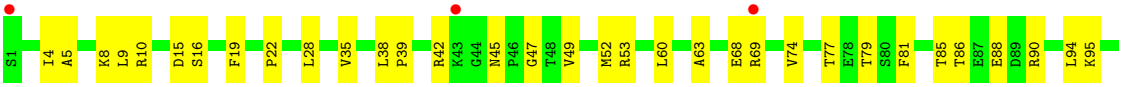
Chain MP:





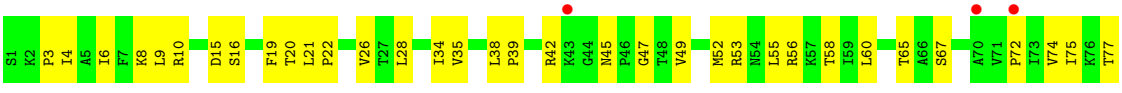
• Molecule 1: coat protein

Chain MQ:



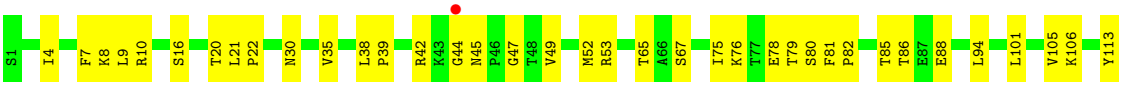
• Molecule 1: coat protein

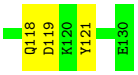
Chain MR:



• Molecule 1: coat protein

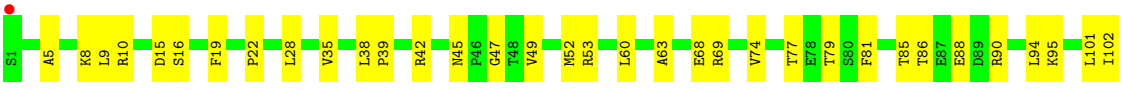
Chain MS:

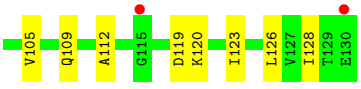




• Molecule 1: coat protein

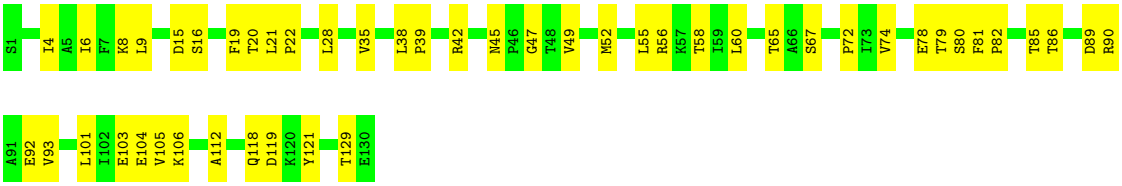
Chain MT:



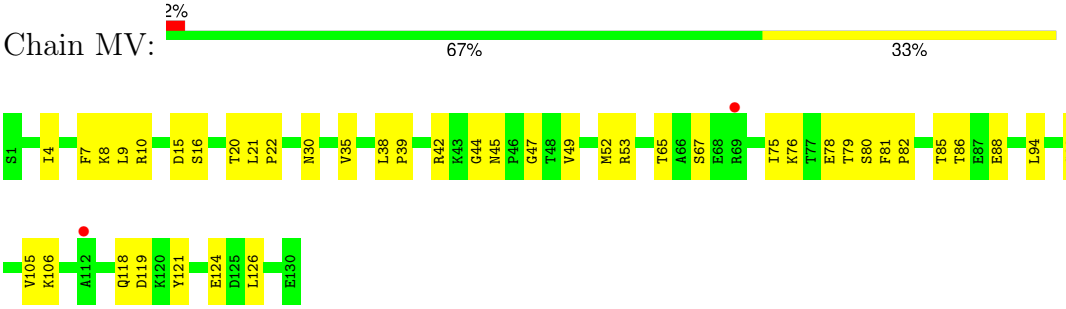


• Molecule 1: coat protein

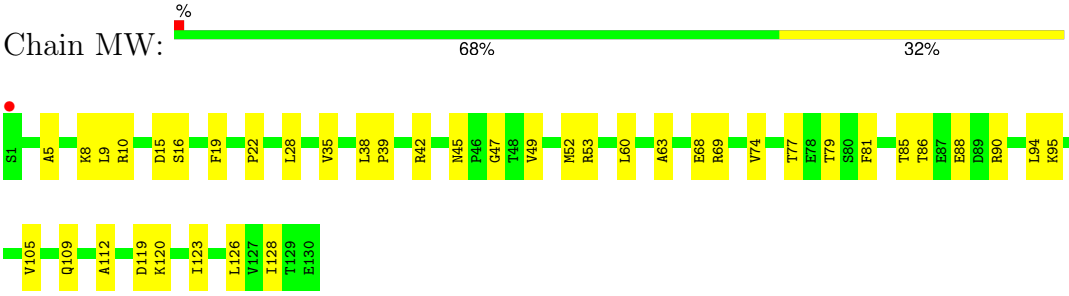
Chain MU:



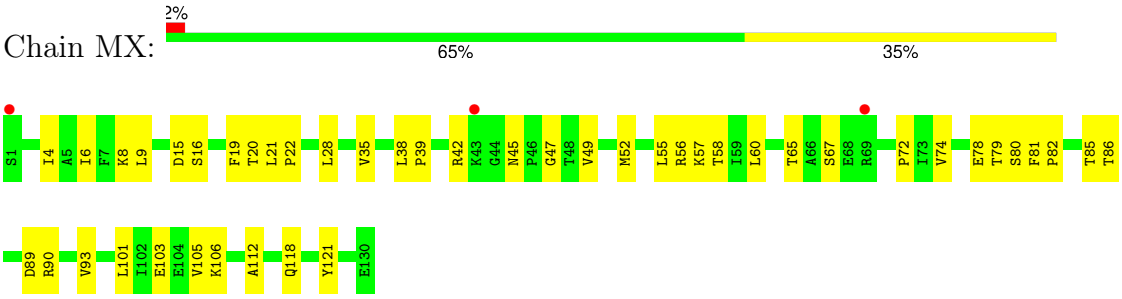
• Molecule 1: coat protein



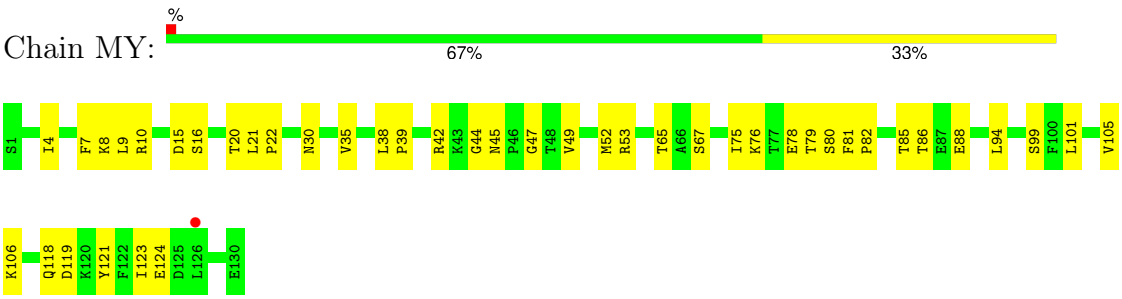
• Molecule 1: coat protein



• Molecule 1: coat protein

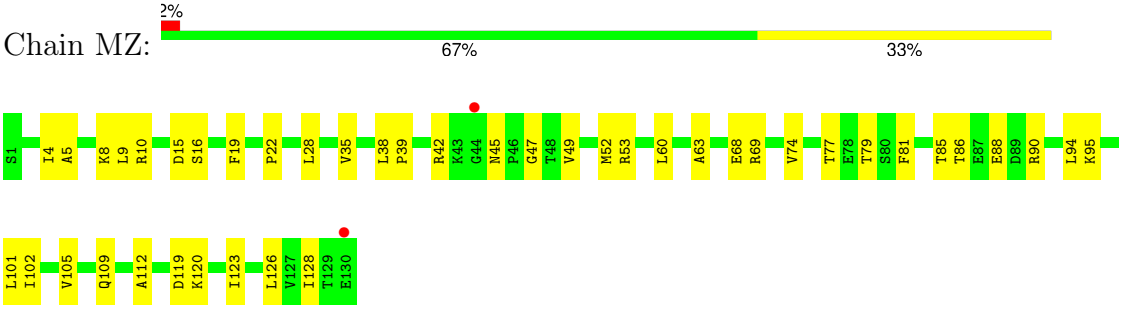


• Molecule 1: coat protein



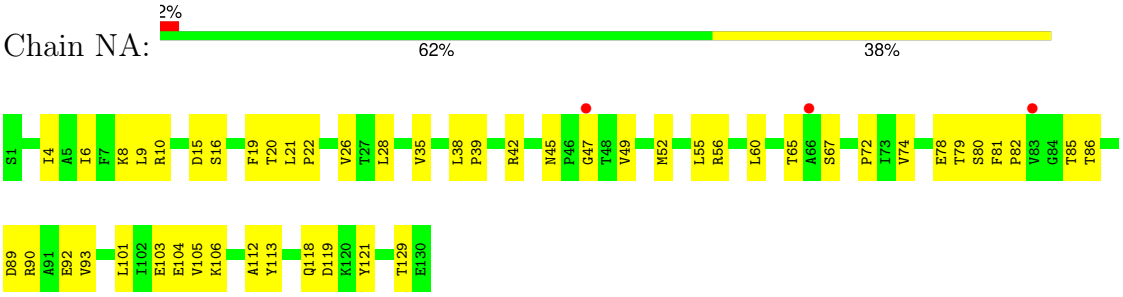
• Molecule 1: coat protein

Chain MZ:



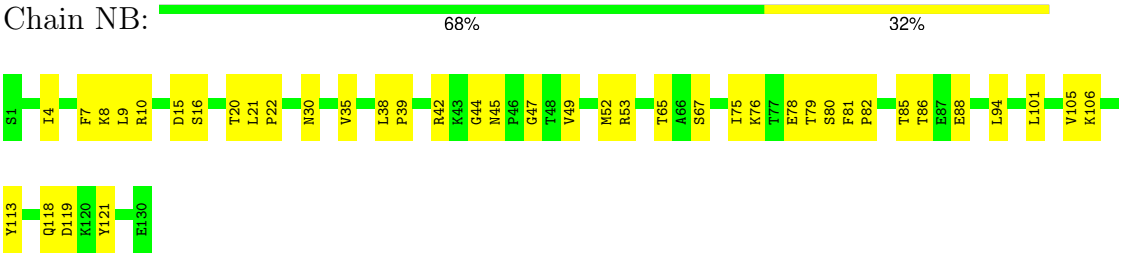
• Molecule 1: coat protein

Chain NA:



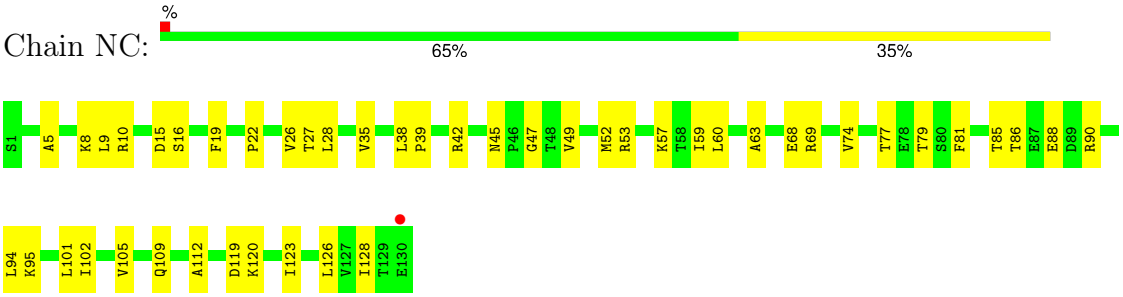
• Molecule 1: coat protein

Chain NB:



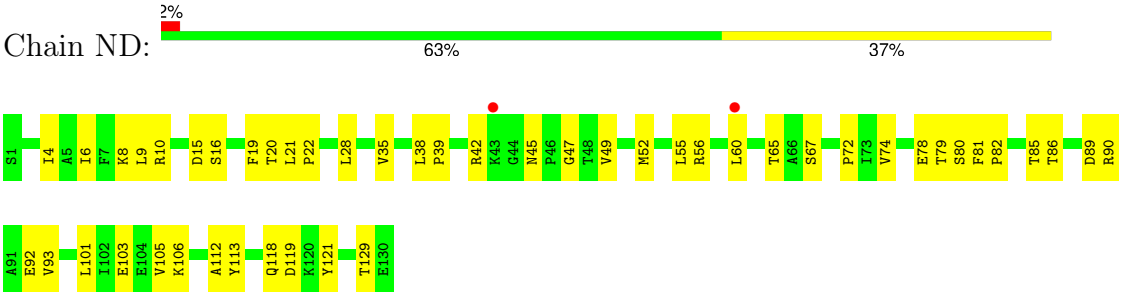
• Molecule 1: coat protein

Chain NC:



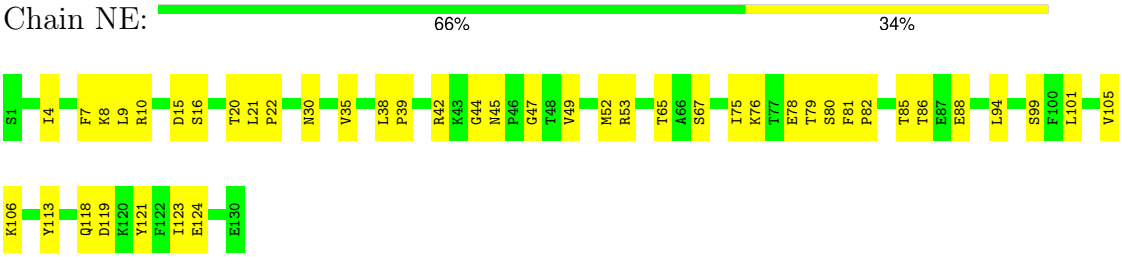
• Molecule 1: coat protein

Chain ND:



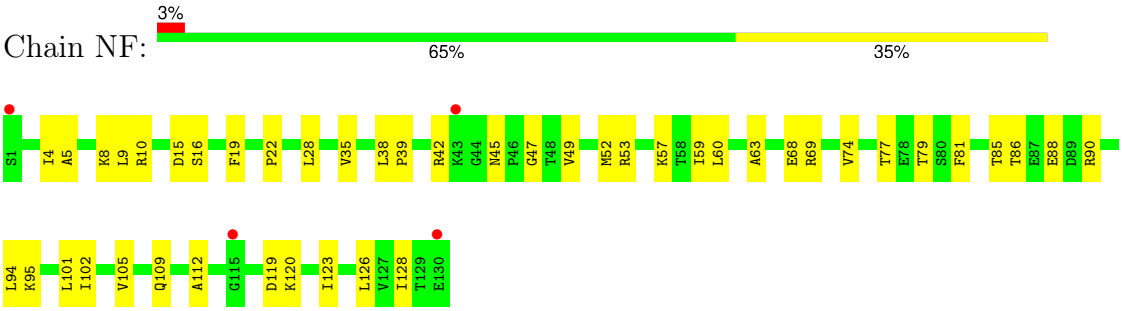
• Molecule 1: coat protein

Chain NE:



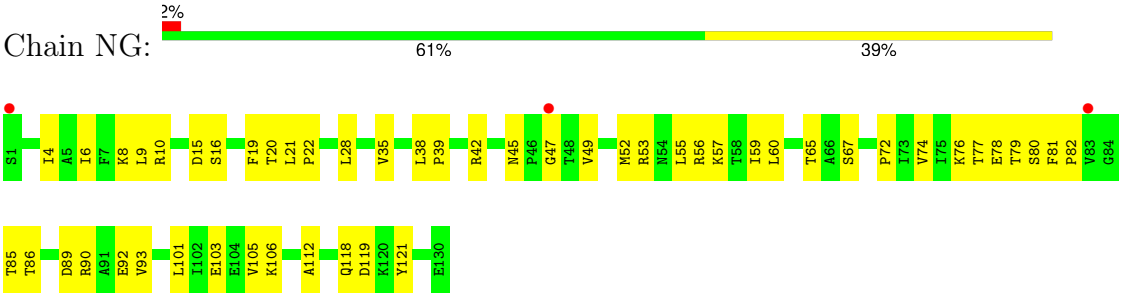
• Molecule 1: coat protein

Chain NF:



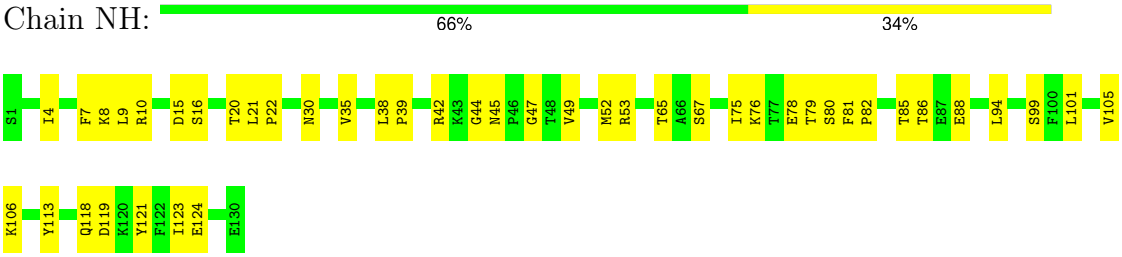
• Molecule 1: coat protein

Chain NG:



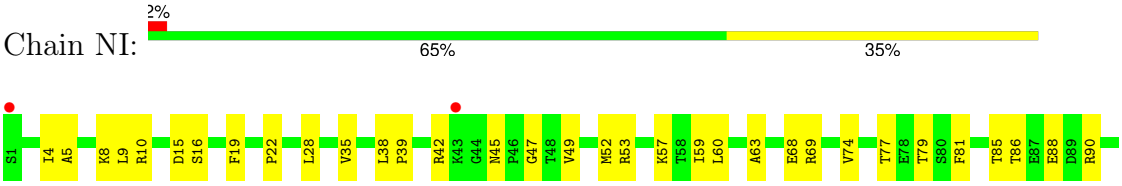
• Molecule 1: coat protein

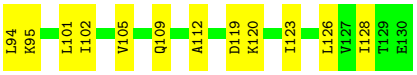
Chain NH:



• Molecule 1: coat protein

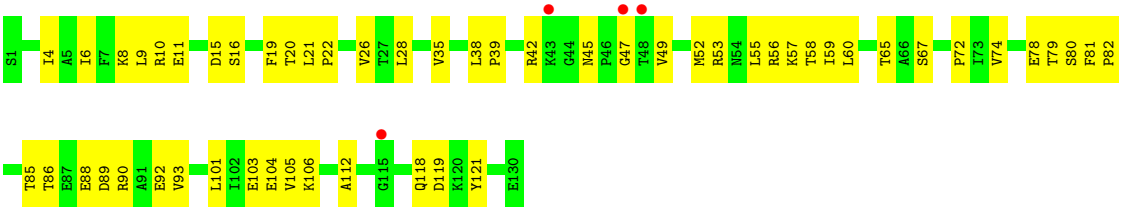
Chain NI:





• Molecule 1: coat protein

Chain NJ:

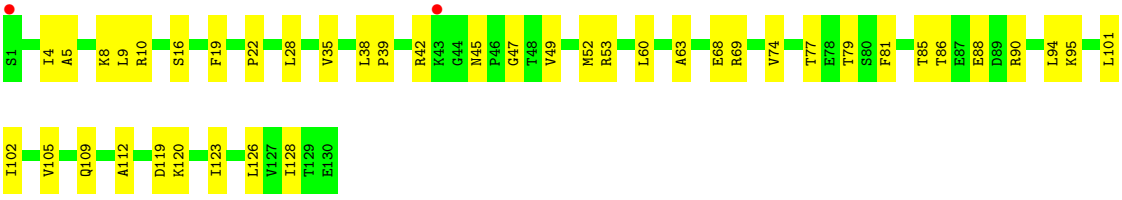


• Molecule 1: coat protein

Chain NK:

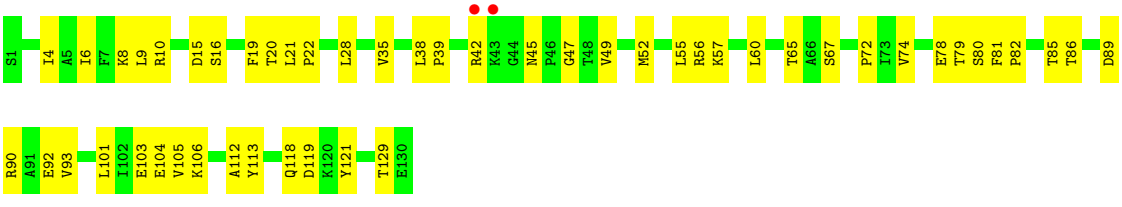
• Molecule 1: coat protein

Chain NL:



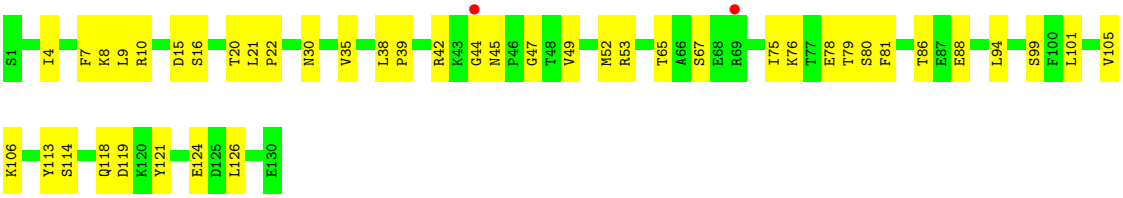
• Molecule 1: coat protein

Chain NM:



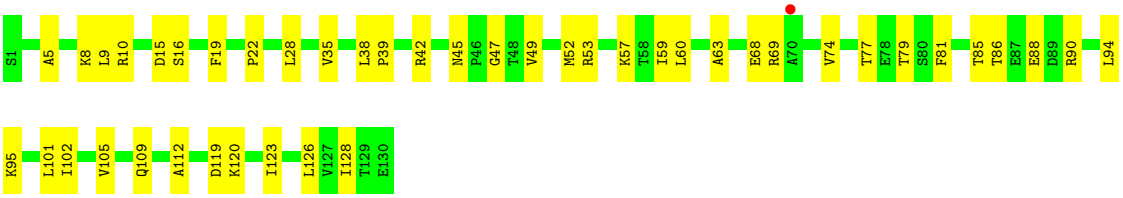
• Molecule 1: coat protein

Chain NN:



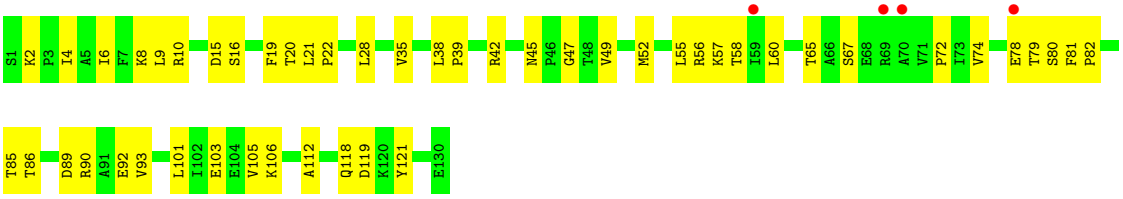
• Molecule 1: coat protein

Chain NO:



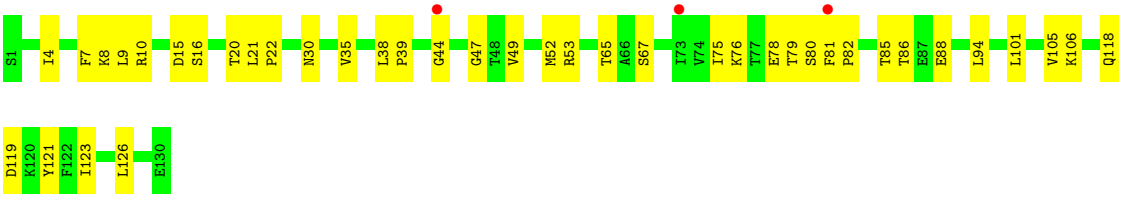
• Molecule 1: coat protein

Chain NP:



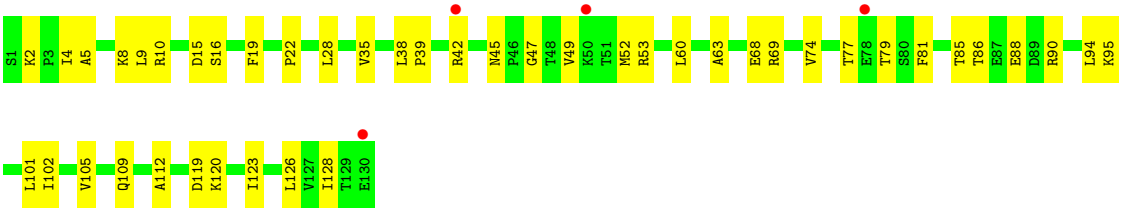
• Molecule 1: coat protein

Chain NQ:



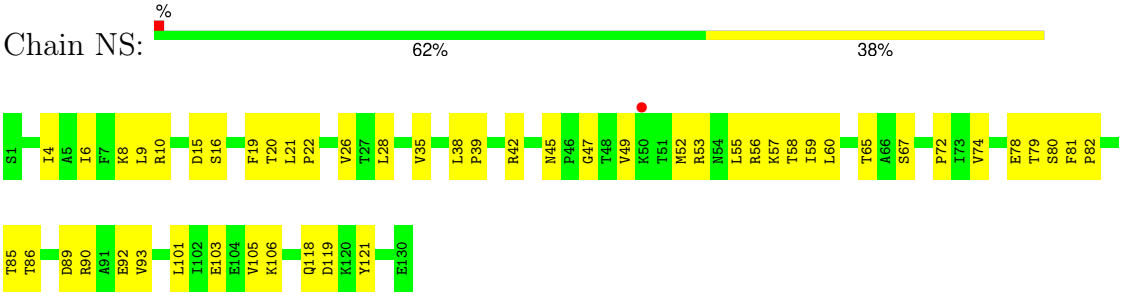
• Molecule 1: coat protein

Chain NR:



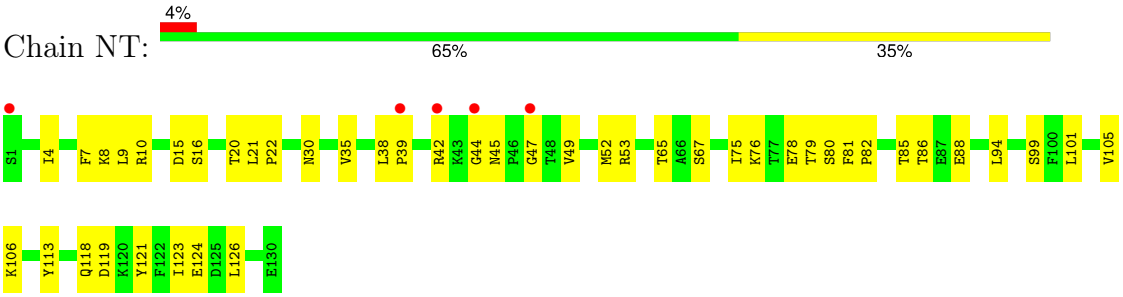
• Molecule 1: coat protein

Chain NS:



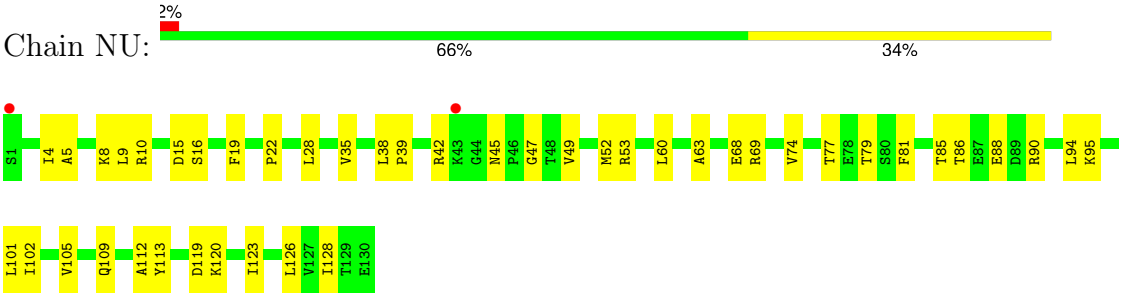
• Molecule 1: coat protein

Chain NT:



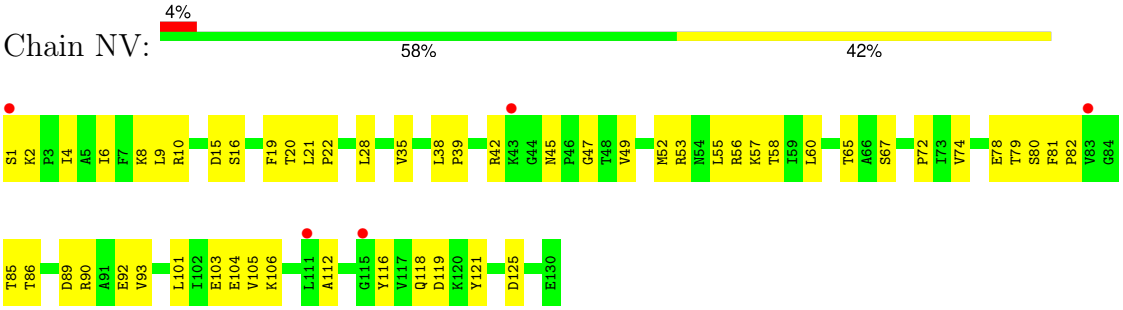
• Molecule 1: coat protein

Chain NU:



• Molecule 1: coat protein

Chain NV:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α, β, γ	291.94Å 292.53Å 469.20Å 75.79° 77.92° 69.51°	Depositor
Resolution (Å)	49.83 – 3.90 49.83 – 3.90	Depositor EDS
% Data completeness (in resolution range)	95.4 (49.83-3.90) 96.3 (49.83-3.90)	Depositor EDS
R_{merge}	0.21	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.02 (at 3.88Å)	Xtriage
Refinement program	PHENIX 1.14_3260	Depositor
R, R_{free}	0.282 , 0.285 0.283 , 0.287	Depositor DCC
R_{free} test set	20042 reflections (1.63%)	wwPDB-VP
Wilson B-factor (Å^2)	146.8	Xtriage
Anisotropy	0.146	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.27 , 128.6	EDS
L-test for twinning[2]	$< \|L\| > = 0.38$, $< L^2 > = 0.21$	Xtriage
Estimated twinning fraction	0.087 for -k,-h,-l	Xtriage
F_o,F_c correlation	0.88	EDS
Total number of atoms	363000	wwPDB-VP
Average B, all atoms (Å^2)	170.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.26% 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

Bond lengths and bond angles in the following residue types are not validated in this section: CA

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	0.39	0/1025	0.54	0/1389
1	AB	0.34	0/1025	0.54	0/1389
1	AC	0.37	0/1025	0.62	0/1389
1	AD	0.39	0/1025	0.54	0/1389
1	AE	0.35	0/1025	0.54	0/1389
1	AF	0.37	0/1025	0.62	0/1389
1	AG	0.39	0/1025	0.54	0/1389
1	AH	0.35	0/1025	0.54	0/1389
1	AI	0.37	0/1025	0.62	0/1389
1	AJ	0.39	0/1025	0.54	0/1389
1	AK	0.34	0/1025	0.54	0/1389
1	AL	0.37	0/1025	0.62	0/1389
1	AM	0.39	0/1025	0.54	0/1389
1	AN	0.34	0/1025	0.54	0/1389
1	AO	0.37	0/1025	0.62	0/1389
1	AP	0.39	0/1025	0.54	0/1389
1	AQ	0.34	0/1025	0.54	0/1389
1	AR	0.37	0/1025	0.62	0/1389
1	AS	0.39	0/1025	0.54	0/1389
1	AT	0.34	0/1025	0.54	0/1389
1	AU	0.37	0/1025	0.62	0/1389
1	AV	0.39	0/1025	0.54	0/1389
1	AW	0.35	0/1025	0.54	0/1389
1	AX	0.37	0/1025	0.62	0/1389
1	AY	0.39	0/1025	0.54	0/1389
1	AZ	0.34	0/1025	0.54	0/1389
1	BA	0.37	0/1025	0.62	0/1389
1	BB	0.39	0/1025	0.54	0/1389
1	BC	0.35	0/1025	0.54	0/1389
1	BD	0.37	0/1025	0.62	0/1389
1	BE	0.39	0/1025	0.53	0/1389
1	BF	0.34	0/1025	0.54	0/1389

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	BG	0.37	0/1025	0.62	0/1389
1	BH	0.39	0/1025	0.53	0/1389
1	BI	0.35	0/1025	0.54	0/1389
1	BJ	0.37	0/1025	0.62	0/1389
1	BK	0.39	0/1025	0.54	0/1389
1	BL	0.35	0/1025	0.54	0/1389
1	BM	0.37	0/1025	0.62	0/1389
1	BN	0.39	0/1025	0.53	0/1389
1	BO	0.35	0/1025	0.54	0/1389
1	BP	0.37	0/1025	0.62	0/1389
1	BQ	0.39	0/1025	0.54	0/1389
1	BR	0.35	0/1025	0.54	0/1389
1	BS	0.37	0/1025	0.62	0/1389
1	BT	0.39	0/1025	0.54	0/1389
1	BU	0.35	0/1025	0.54	0/1389
1	BV	0.37	0/1025	0.62	0/1389
1	BW	0.39	0/1025	0.54	0/1389
1	BX	0.34	0/1025	0.54	0/1389
1	BY	0.37	0/1025	0.62	0/1389
1	BZ	0.39	0/1025	0.54	0/1389
1	CA	0.35	0/1025	0.54	0/1389
1	CB	0.37	0/1025	0.62	0/1389
1	CC	0.39	0/1025	0.54	0/1389
1	CD	0.34	0/1025	0.54	0/1389
1	CE	0.37	0/1025	0.62	0/1389
1	CF	0.39	0/1025	0.54	0/1389
1	CG	0.34	0/1025	0.54	0/1389
1	CH	0.37	0/1025	0.62	0/1389
1	CI	0.39	0/1025	0.54	0/1389
1	CJ	0.34	0/1025	0.54	0/1389
1	CK	0.37	0/1025	0.62	0/1389
1	CL	0.39	0/1025	0.54	0/1389
1	CM	0.34	0/1025	0.54	0/1389
1	CN	0.37	0/1025	0.62	0/1389
1	CO	0.39	0/1025	0.54	0/1389
1	CP	0.35	0/1025	0.54	0/1389
1	CQ	0.37	0/1025	0.62	0/1389
1	CR	0.39	0/1025	0.54	0/1389
1	CS	0.35	0/1025	0.54	0/1389
1	CT	0.37	0/1025	0.62	0/1389
1	CU	0.39	0/1025	0.54	0/1389
1	CV	0.35	0/1025	0.54	0/1389
1	CW	0.37	0/1025	0.62	0/1389

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	CX	0.39	0/1025	0.53	0/1389
1	CY	0.34	0/1025	0.54	0/1389
1	CZ	0.37	0/1025	0.62	0/1389
1	DA	0.39	0/1025	0.53	0/1389
1	DB	0.34	0/1025	0.54	0/1389
1	DC	0.37	0/1025	0.62	0/1389
1	DD	0.39	0/1025	0.54	0/1389
1	DE	0.34	0/1025	0.54	0/1389
1	DF	0.37	0/1025	0.62	0/1389
1	DG	0.39	0/1025	0.53	0/1389
1	DH	0.34	0/1025	0.54	0/1389
1	DI	0.37	0/1025	0.62	0/1389
1	DJ	0.39	0/1025	0.54	0/1389
1	DK	0.35	0/1025	0.54	0/1389
1	DL	0.37	0/1025	0.62	0/1389
1	DM	0.39	0/1025	0.54	0/1389
1	DN	0.34	0/1025	0.54	0/1389
1	DO	0.37	0/1025	0.62	0/1389
1	DP	0.39	0/1025	0.53	0/1389
1	DQ	0.34	0/1025	0.54	0/1389
1	DR	0.37	0/1025	0.62	0/1389
1	DS	0.39	0/1025	0.54	0/1389
1	DT	0.35	0/1025	0.54	0/1389
1	DU	0.37	0/1025	0.62	0/1389
1	DV	0.39	0/1025	0.54	0/1389
1	DW	0.35	0/1025	0.54	0/1389
1	DX	0.37	0/1025	0.62	0/1389
1	DY	0.39	0/1025	0.54	0/1389
1	DZ	0.34	0/1025	0.54	0/1389
1	EA	0.37	0/1025	0.62	0/1389
1	EB	0.39	0/1025	0.54	0/1389
1	EC	0.35	0/1025	0.54	0/1389
1	ED	0.37	0/1025	0.62	0/1389
1	EE	0.39	0/1025	0.54	0/1389
1	EF	0.35	0/1025	0.54	0/1389
1	EG	0.37	0/1025	0.62	0/1389
1	EH	0.39	0/1025	0.54	0/1389
1	EI	0.35	0/1025	0.54	0/1389
1	EJ	0.37	0/1025	0.62	0/1389
1	EK	0.39	0/1025	0.54	0/1389
1	EL	0.35	0/1025	0.54	0/1389
1	EM	0.37	0/1025	0.62	0/1389
1	EN	0.39	0/1025	0.53	0/1389

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	EO	0.34	0/1025	0.54	0/1389
1	EP	0.37	0/1025	0.62	0/1389
1	EQ	0.39	0/1025	0.54	0/1389
1	ER	0.34	0/1025	0.54	0/1389
1	ES	0.37	0/1025	0.62	0/1389
1	ET	0.39	0/1025	0.54	0/1389
1	EU	0.34	0/1025	0.54	0/1389
1	EV	0.37	0/1025	0.62	0/1389
1	EW	0.39	0/1025	0.54	0/1389
1	EX	0.34	0/1025	0.54	0/1389
1	EY	0.37	0/1025	0.62	0/1389
1	EZ	0.39	0/1025	0.54	0/1389
1	FA	0.35	0/1025	0.54	0/1389
1	FB	0.37	0/1025	0.62	0/1389
1	FC	0.39	0/1025	0.54	0/1389
1	FD	0.34	0/1025	0.54	0/1389
1	FE	0.37	0/1025	0.62	0/1389
1	FF	0.39	0/1025	0.54	0/1389
1	FG	0.35	0/1025	0.54	0/1389
1	FH	0.37	0/1025	0.62	0/1389
1	FI	0.39	0/1025	0.54	0/1389
1	FJ	0.35	0/1025	0.54	0/1389
1	FK	0.37	0/1025	0.62	0/1389
1	FL	0.39	0/1025	0.54	0/1389
1	FM	0.34	0/1025	0.54	0/1389
1	FN	0.37	0/1025	0.62	0/1389
1	FO	0.39	0/1025	0.54	0/1389
1	FP	0.34	0/1025	0.54	0/1389
1	FQ	0.37	0/1025	0.62	0/1389
1	FR	0.39	0/1025	0.54	0/1389
1	FS	0.34	0/1025	0.54	0/1389
1	FT	0.37	0/1025	0.62	0/1389
1	FU	0.39	0/1025	0.54	0/1389
1	FV	0.34	0/1025	0.54	0/1389
1	FW	0.37	0/1025	0.62	0/1389
1	FX	0.39	0/1025	0.54	0/1389
1	FY	0.35	0/1025	0.54	0/1389
1	FZ	0.37	0/1025	0.62	0/1389
1	GA	0.39	0/1025	0.53	0/1389
1	GB	0.35	0/1025	0.54	0/1389
1	GC	0.37	0/1025	0.62	0/1389
1	GD	0.39	0/1025	0.54	0/1389
1	GE	0.35	0/1025	0.54	0/1389

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	GF	0.37	0/1025	0.62	0/1389
1	GG	0.39	0/1025	0.54	0/1389
1	GH	0.34	0/1025	0.54	0/1389
1	GI	0.37	0/1025	0.62	0/1389
1	GJ	0.39	0/1025	0.53	0/1389
1	GK	0.34	0/1025	0.54	0/1389
1	GL	0.37	0/1025	0.62	0/1389
1	GM	0.39	0/1025	0.54	0/1389
1	GN	0.34	0/1025	0.54	0/1389
1	GO	0.37	0/1025	0.62	0/1389
1	GP	0.39	0/1025	0.54	0/1389
1	GQ	0.35	0/1025	0.54	0/1389
1	GR	0.37	0/1025	0.62	0/1389
1	GS	0.39	0/1025	0.54	0/1389
1	GT	0.35	0/1025	0.54	0/1389
1	GU	0.37	0/1025	0.62	0/1389
1	GV	0.39	0/1025	0.54	0/1389
1	GW	0.34	0/1025	0.54	0/1389
1	GX	0.37	0/1025	0.62	0/1389
1	GY	0.39	0/1025	0.54	0/1389
1	GZ	0.35	0/1025	0.54	0/1389
1	HA	0.37	0/1025	0.62	0/1389
1	HB	0.39	0/1025	0.54	0/1389
1	HC	0.34	0/1025	0.54	0/1389
1	HD	0.37	0/1025	0.62	0/1389
1	HE	0.39	0/1025	0.54	0/1389
1	HF	0.34	0/1025	0.54	0/1389
1	HG	0.37	0/1025	0.62	0/1389
1	HH	0.39	0/1025	0.54	0/1389
1	HI	0.35	0/1025	0.54	0/1389
1	HJ	0.37	0/1025	0.62	0/1389
1	HK	0.39	0/1025	0.54	0/1389
1	HL	0.35	0/1025	0.54	0/1389
1	HM	0.37	0/1025	0.62	0/1389
1	HN	0.39	0/1025	0.54	0/1389
1	HO	0.34	0/1025	0.54	0/1389
1	HP	0.37	0/1025	0.62	0/1389
1	HQ	0.39	0/1025	0.54	0/1389
1	HR	0.34	0/1025	0.54	0/1389
1	HS	0.37	0/1025	0.62	0/1389
1	HT	0.39	0/1025	0.54	0/1389
1	HU	0.35	0/1025	0.54	0/1389
1	HV	0.37	0/1025	0.62	0/1389

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	HW	0.39	0/1025	0.54	0/1389
1	HX	0.35	0/1025	0.54	0/1389
1	HY	0.37	0/1025	0.62	0/1389
1	HZ	0.39	0/1025	0.54	0/1389
1	IA	0.35	0/1025	0.54	0/1389
1	IB	0.37	0/1025	0.62	0/1389
1	IC	0.39	0/1025	0.54	0/1389
1	ID	0.35	0/1025	0.54	0/1389
1	IE	0.37	0/1025	0.62	0/1389
1	IF	0.39	0/1025	0.54	0/1389
1	IG	0.34	0/1025	0.54	0/1389
1	IH	0.37	0/1025	0.62	0/1389
1	II	0.39	0/1025	0.54	0/1389
1	IJ	0.34	0/1025	0.54	0/1389
1	IK	0.37	0/1025	0.62	0/1389
1	IL	0.39	0/1025	0.54	0/1389
1	IM	0.35	0/1025	0.54	0/1389
1	IN	0.37	0/1025	0.62	0/1389
1	IO	0.39	0/1025	0.54	0/1389
1	IP	0.34	0/1025	0.54	0/1389
1	IQ	0.37	0/1025	0.62	0/1389
1	IR	0.39	0/1025	0.54	0/1389
1	IS	0.35	0/1025	0.54	0/1389
1	IT	0.37	0/1025	0.62	0/1389
1	IU	0.39	0/1025	0.54	0/1389
1	IV	0.35	0/1025	0.54	0/1389
1	IW	0.37	0/1025	0.62	0/1389
1	IX	0.39	0/1025	0.54	0/1389
1	IY	0.35	0/1025	0.54	0/1389
1	IZ	0.37	0/1025	0.62	0/1389
1	JA	0.39	0/1025	0.54	0/1389
1	JB	0.35	0/1025	0.54	0/1389
1	JC	0.37	0/1025	0.62	0/1389
1	JD	0.39	0/1025	0.54	0/1389
1	JE	0.34	0/1025	0.54	0/1389
1	JF	0.37	0/1025	0.62	0/1389
1	JG	0.39	0/1025	0.54	0/1389
1	JH	0.34	0/1025	0.54	0/1389
1	JI	0.37	0/1025	0.62	0/1389
1	JJ	0.39	0/1025	0.53	0/1389
1	JK	0.34	0/1025	0.54	0/1389
1	JL	0.37	0/1025	0.62	0/1389
1	JM	0.39	0/1025	0.54	0/1389

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	JN	0.34	0/1025	0.54	0/1389
1	JO	0.37	0/1025	0.62	0/1389
1	JP	0.39	0/1025	0.54	0/1389
1	JQ	0.35	0/1025	0.54	0/1389
1	JR	0.37	0/1025	0.62	0/1389
1	JS	0.39	0/1025	0.54	0/1389
1	JT	0.34	0/1025	0.54	0/1389
1	JU	0.37	0/1025	0.62	0/1389
1	JV	0.39	0/1025	0.54	0/1389
1	JW	0.34	0/1025	0.54	0/1389
1	JX	0.37	0/1025	0.62	0/1389
1	JY	0.39	0/1025	0.54	0/1389
1	JZ	0.34	0/1025	0.54	0/1389
1	KA	0.37	0/1025	0.62	0/1389
1	KB	0.39	0/1025	0.54	0/1389
1	KC	0.35	0/1025	0.54	0/1389
1	KD	0.37	0/1025	0.62	0/1389
1	KE	0.39	0/1025	0.54	0/1389
1	KF	0.34	0/1025	0.54	0/1389
1	KG	0.37	0/1025	0.62	0/1389
1	KH	0.39	0/1025	0.54	0/1389
1	KI	0.34	0/1025	0.54	0/1389
1	KJ	0.37	0/1025	0.62	0/1389
1	KK	0.39	0/1025	0.54	0/1389
1	KL	0.34	0/1025	0.54	0/1389
1	KM	0.37	0/1025	0.62	0/1389
1	KN	0.39	0/1025	0.54	0/1389
1	KO	0.34	0/1025	0.54	0/1389
1	KP	0.37	0/1025	0.62	0/1389
1	KQ	0.39	0/1025	0.54	0/1389
1	KR	0.34	0/1025	0.54	0/1389
1	KS	0.37	0/1025	0.62	0/1389
1	KT	0.39	0/1025	0.53	0/1389
1	KU	0.34	0/1025	0.54	0/1389
1	KV	0.37	0/1025	0.62	0/1389
1	KW	0.39	0/1025	0.53	0/1389
1	KX	0.34	0/1025	0.54	0/1389
1	KY	0.37	0/1025	0.62	0/1389
1	KZ	0.39	0/1025	0.53	0/1389
1	LA	0.34	0/1025	0.54	0/1389
1	LB	0.37	0/1025	0.62	0/1389
1	LC	0.39	0/1025	0.54	0/1389
1	LD	0.35	0/1025	0.54	0/1389

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	LE	0.37	0/1025	0.62	0/1389
1	LF	0.39	0/1025	0.53	0/1389
1	LG	0.35	0/1025	0.54	0/1389
1	LH	0.37	0/1025	0.62	0/1389
1	LI	0.39	0/1025	0.54	0/1389
1	LJ	0.35	0/1025	0.54	0/1389
1	LK	0.37	0/1025	0.62	0/1389
1	LL	0.39	0/1025	0.54	0/1389
1	LM	0.35	0/1025	0.54	0/1389
1	LN	0.37	0/1025	0.62	0/1389
1	LO	0.39	0/1025	0.54	0/1389
1	LP	0.35	0/1025	0.54	0/1389
1	LQ	0.37	0/1025	0.62	0/1389
1	LR	0.39	0/1025	0.54	0/1389
1	LS	0.34	0/1025	0.54	0/1389
1	LT	0.37	0/1025	0.62	0/1389
1	LU	0.39	0/1025	0.54	0/1389
1	LV	0.35	0/1025	0.54	0/1389
1	LW	0.37	0/1025	0.62	0/1389
1	LX	0.39	0/1025	0.54	0/1389
1	LY	0.34	0/1025	0.54	0/1389
1	LZ	0.37	0/1025	0.62	0/1389
1	MA	0.39	0/1025	0.54	0/1389
1	MB	0.35	0/1025	0.54	0/1389
1	MC	0.37	0/1025	0.62	0/1389
1	MD	0.39	0/1025	0.54	0/1389
1	ME	0.34	0/1025	0.54	0/1389
1	MF	0.37	0/1025	0.62	0/1389
1	MG	0.39	0/1025	0.53	0/1389
1	MH	0.34	0/1025	0.54	0/1389
1	MI	0.37	0/1025	0.62	0/1389
1	MJ	0.39	0/1025	0.54	0/1389
1	MK	0.34	0/1025	0.54	0/1389
1	ML	0.37	0/1025	0.62	0/1389
1	MM	0.39	0/1025	0.54	0/1389
1	MN	0.35	0/1025	0.54	0/1389
1	MO	0.37	0/1025	0.62	0/1389
1	MP	0.39	0/1025	0.53	0/1389
1	MQ	0.35	0/1025	0.54	0/1389
1	MR	0.37	0/1025	0.62	0/1389
1	MS	0.39	0/1025	0.54	0/1389
1	MT	0.35	0/1025	0.54	0/1389
1	MU	0.37	0/1025	0.62	0/1389

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	MV	0.39	0/1025	0.54	0/1389
1	MW	0.35	0/1025	0.54	0/1389
1	MX	0.37	0/1025	0.62	0/1389
1	MY	0.39	0/1025	0.54	0/1389
1	MZ	0.35	0/1025	0.54	0/1389
1	NA	0.37	0/1025	0.62	0/1389
1	NB	0.39	0/1025	0.54	0/1389
1	NC	0.34	0/1025	0.54	0/1389
1	ND	0.37	0/1025	0.62	0/1389
1	NE	0.39	0/1025	0.54	0/1389
1	NF	0.34	0/1025	0.54	0/1389
1	NG	0.37	0/1025	0.62	0/1389
1	NH	0.39	0/1025	0.53	0/1389
1	NI	0.35	0/1025	0.54	0/1389
1	NJ	0.37	0/1025	0.62	0/1389
1	NK	0.39	0/1025	0.54	0/1389
1	NL	0.35	0/1025	0.54	0/1389
1	NM	0.37	0/1025	0.62	0/1389
1	NN	0.39	0/1025	0.54	0/1389
1	NO	0.34	0/1025	0.54	0/1389
1	NP	0.37	0/1025	0.62	0/1389
1	NQ	0.39	0/1025	0.53	0/1389
1	NR	0.34	0/1025	0.54	0/1389
1	NS	0.37	0/1025	0.62	0/1389
1	NT	0.39	0/1025	0.54	0/1389
1	NU	0.34	0/1025	0.54	0/1389
1	NV	0.37	0/1025	0.62	0/1389
All	All	0.37	0/369000	0.57	0/500040

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (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	1008	0	1043	37	0
1	AB	1008	0	1043	41	0
1	AC	1008	0	1043	49	0
1	AD	1008	0	1043	41	0
1	AE	1008	0	1043	53	0
1	AF	1008	0	1043	42	0
1	AG	1008	0	1043	39	0
1	AH	1008	0	1043	40	0
1	AI	1008	0	1043	39	0
1	AJ	1008	0	1043	40	0
1	AK	1008	0	1043	36	0
1	AL	1008	0	1043	37	0
1	AM	1008	0	1043	38	0
1	AN	1008	0	1043	39	0
1	AO	1008	0	1043	36	0
1	AP	1008	0	1043	41	0
1	AQ	1008	0	1043	47	0
1	AR	1008	0	1043	38	0
1	AS	1008	0	1043	37	0
1	AT	1008	0	1043	39	0
1	AU	1008	0	1043	33	0
1	AV	1008	0	1043	43	0
1	AW	1008	0	1043	38	0
1	AX	1008	0	1043	33	0
1	AY	1008	0	1043	37	0
1	AZ	1008	0	1043	38	0
1	BA	1008	0	1043	35	0
1	BB	1008	0	1043	47	0
1	BC	1008	0	1043	39	0
1	BD	1008	0	1043	41	0
1	BE	1008	0	1043	41	0
1	BF	1008	0	1043	38	0
1	BG	1008	0	1043	39	0
1	BH	1008	0	1043	41	0
1	BI	1008	0	1043	36	0
1	BJ	1008	0	1043	42	0
1	BK	1008	0	1043	37	0
1	BL	1008	0	1043	36	2
1	BM	1008	0	1043	36	0
1	BN	1008	0	1043	37	0
1	BO	1008	0	1043	35	0
1	BP	1008	0	1043	44	0
1	BQ	1008	0	1043	38	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	BR	1008	0	1043	39	8
1	BS	1008	0	1043	41	17
1	BT	1008	0	1043	45	0
1	BU	1008	0	1043	38	0
1	BV	1008	0	1043	41	0
1	BW	1008	0	1043	36	0
1	BX	1008	0	1043	35	0
1	BY	1008	0	1043	33	0
1	BZ	1008	0	1043	42	0
1	CA	1008	0	1043	36	0
1	CB	1008	0	1043	53	0
1	CC	1008	0	1043	39	0
1	CD	1008	0	1043	38	0
1	CE	1008	0	1043	38	0
1	CF	1008	0	1043	36	0
1	CG	1008	0	1043	37	0
1	CH	1008	0	1043	39	0
1	CI	1008	0	1043	42	0
1	CJ	1008	0	1043	38	0
1	CK	1008	0	1043	40	0
1	CL	1008	0	1043	41	1
1	CM	1008	0	1043	36	4
1	CN	1008	0	1043	44	0
1	CO	1008	0	1043	40	0
1	CP	1008	0	1043	40	0
1	CQ	1008	0	1043	39	0
1	CR	1008	0	1043	39	1
1	CS	1008	0	1043	40	9
1	CT	1008	0	1043	36	0
1	CU	1008	0	1043	37	0
1	CV	1008	0	1043	40	0
1	CW	1008	0	1043	39	0
1	CX	1008	0	1043	37	0
1	CY	1008	0	1043	44	0
1	CZ	1008	0	1043	34	0
1	DA	1008	0	1043	37	0
1	DB	1008	0	1043	40	0
1	DC	1008	0	1043	42	0
1	DD	1008	0	1043	37	0
1	DE	1008	0	1043	40	0
1	DF	1008	0	1043	34	0
1	DG	1008	0	1043	37	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	DH	1008	0	1043	38	0
1	DI	1008	0	1043	38	0
1	DJ	1008	0	1043	37	0
1	DK	1008	0	1043	42	2
1	DL	1008	0	1043	39	0
1	DM	1008	0	1043	38	0
1	DN	1008	0	1043	39	0
1	DO	1008	0	1043	48	0
1	DP	1008	0	1043	35	0
1	DQ	1008	0	1043	39	0
1	DR	1008	0	1043	40	0
1	DS	1008	0	1043	39	2
1	DT	1008	0	1043	37	3
1	DU	1008	0	1043	35	0
1	DV	1008	0	1043	41	0
1	DW	1008	0	1043	37	0
1	DX	1008	0	1043	39	0
1	DY	1008	0	1043	38	0
1	DZ	1008	0	1043	36	0
1	EA	1008	0	1043	36	0
1	EB	1008	0	1043	39	0
1	EC	1008	0	1043	36	0
1	ED	1008	0	1043	37	1
1	EE	1008	0	1043	34	9
1	EF	1008	0	1043	39	1
1	EG	1008	0	1043	37	0
1	EH	1008	0	1043	38	1
1	EI	1008	0	1043	35	2
1	EJ	1008	0	1043	36	0
1	EK	1008	0	1043	40	0
1	EL	1008	0	1043	41	0
1	EM	1008	0	1043	36	0
1	EN	1008	0	1043	36	0
1	EO	1008	0	1043	40	9
1	EP	1008	0	1043	38	0
1	EQ	1008	0	1043	36	0
1	ER	1008	0	1043	34	0
1	ES	1008	0	1043	40	0
1	ET	1008	0	1043	38	0
1	EU	1008	0	1043	41	0
1	EV	1008	0	1043	41	0
1	EW	1008	0	1043	37	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	EX	1008	0	1043	38	0
1	EY	1008	0	1043	32	0
1	EZ	1008	0	1043	41	0
1	FA	1008	0	1043	35	0
1	FB	1008	0	1043	44	0
1	FC	1008	0	1043	38	0
1	FD	1008	0	1043	39	0
1	FE	1008	0	1043	38	0
1	FF	1008	0	1043	39	0
1	FG	1008	0	1043	35	0
1	FH	1008	0	1043	38	0
1	FI	1008	0	1043	36	0
1	FJ	1008	0	1043	39	0
1	FK	1008	0	1043	31	0
1	FL	1008	0	1043	39	0
1	FM	1008	0	1043	43	2
1	FN	1008	0	1043	54	14
1	FO	1008	0	1043	37	0
1	FP	1008	0	1043	41	0
1	FQ	1008	0	1043	38	0
1	FR	1008	0	1043	36	0
1	FS	1008	0	1043	40	0
1	FT	1008	0	1043	40	0
1	FU	1008	0	1043	39	0
1	FV	1008	0	1043	44	0
1	FW	1008	0	1043	39	0
1	FX	1008	0	1043	40	0
1	FY	1008	0	1043	37	0
1	FZ	1008	0	1043	47	0
1	GA	1008	0	1043	35	0
1	GB	1008	0	1043	42	0
1	GC	1008	0	1043	42	14
1	GD	1008	0	1043	37	0
1	GE	1008	0	1043	39	0
1	GF	1008	0	1043	37	0
1	GG	1008	0	1043	37	0
1	GH	1008	0	1043	37	0
1	GI	1008	0	1043	40	0
1	GJ	1008	0	1043	40	0
1	GK	1008	0	1043	39	0
1	GL	1008	0	1043	32	0
1	GM	1008	0	1043	38	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	GN	1008	0	1043	43	0
1	GO	1008	0	1043	38	0
1	GP	1008	0	1043	37	0
1	GQ	1008	0	1043	38	0
1	GR	1008	0	1043	35	3
1	GS	1008	0	1043	41	0
1	GT	1008	0	1043	39	0
1	GU	1008	0	1043	39	2
1	GV	1008	0	1043	36	0
1	GW	1008	0	1043	38	0
1	GX	1008	0	1043	38	0
1	GY	1008	0	1043	39	0
1	GZ	1008	0	1043	37	0
1	HA	1008	0	1043	46	0
1	HB	1008	0	1043	39	0
1	HC	1008	0	1043	38	0
1	HD	1008	0	1043	40	0
1	HE	1008	0	1043	38	0
1	HF	1008	0	1043	42	0
1	HG	1008	0	1043	46	0
1	HH	1008	0	1043	39	0
1	HI	1008	0	1043	38	0
1	HJ	1008	0	1043	37	0
1	HK	1008	0	1043	40	0
1	HL	1008	0	1043	41	0
1	HM	1008	0	1043	42	0
1	HN	1008	0	1043	37	0
1	HO	1008	0	1043	37	0
1	HP	1008	0	1043	39	0
1	HQ	1008	0	1043	37	0
1	HR	1008	0	1043	41	0
1	HS	1008	0	1043	40	0
1	HT	1008	0	1043	38	0
1	HU	1008	0	1043	38	0
1	HV	1008	0	1043	36	0
1	HW	1008	0	1043	40	0
1	HX	1008	0	1043	36	0
1	HY	1008	0	1043	32	0
1	HZ	1008	0	1043	39	0
1	IA	1008	0	1043	36	0
1	IB	1008	0	1043	35	0
1	IC	1008	0	1043	42	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	ID	1008	0	1043	37	2
1	IE	1008	0	1043	39	0
1	IF	1008	0	1043	34	0
1	IG	1008	0	1043	42	0
1	IH	1008	0	1043	40	0
1	II	1008	0	1043	38	0
1	IJ	1008	0	1043	44	0
1	IK	1008	0	1043	39	5
1	IL	1008	0	1043	37	2
1	IM	1008	0	1043	37	0
1	IN	1008	0	1043	35	14
1	IO	1008	0	1043	38	0
1	IP	1008	0	1043	42	2
1	IQ	1008	0	1043	39	0
1	IR	1008	0	1043	39	0
1	IS	1008	0	1043	42	0
1	IT	1008	0	1043	44	0
1	IU	1008	0	1043	39	0
1	IV	1008	0	1043	40	0
1	IW	1008	0	1043	38	0
1	IX	1008	0	1043	36	0
1	IY	1008	0	1043	39	0
1	IZ	1008	0	1043	41	0
1	JA	1008	0	1043	39	0
1	JB	1008	0	1043	37	0
1	JC	1008	0	1043	42	5
1	JD	1008	0	1043	39	0
1	JE	1008	0	1043	40	0
1	JF	1008	0	1043	53	8
1	JG	1008	0	1043	39	0
1	JH	1008	0	1043	40	0
1	JI	1008	0	1043	34	0
1	JJ	1008	0	1043	38	1
1	JK	1008	0	1043	44	2
1	JL	1008	0	1043	37	0
1	JM	1008	0	1043	38	0
1	JN	1008	0	1043	39	0
1	JO	1008	0	1043	39	0
1	JP	1008	0	1043	38	2
1	JQ	1008	0	1043	37	2
1	JR	1008	0	1043	35	0
1	JS	1008	0	1043	38	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	JT	1008	0	1043	35	0
1	JU	1008	0	1043	39	0
1	JV	1008	0	1043	40	0
1	JW	1008	0	1043	37	0
1	JX	1008	0	1043	38	0
1	JY	1008	0	1043	37	0
1	JZ	1008	0	1043	37	0
1	KA	1008	0	1043	41	0
1	KB	1008	0	1043	35	0
1	KC	1008	0	1043	37	0
1	KD	1008	0	1043	37	0
1	KE	1008	0	1043	38	0
1	KF	1008	0	1043	45	0
1	KG	1008	0	1043	37	0
1	KH	1008	0	1043	38	0
1	KI	1008	0	1043	40	0
1	KJ	1008	0	1043	48	0
1	KK	1008	0	1043	38	2
1	KL	1008	0	1043	36	1
1	KM	1008	0	1043	47	0
1	KN	1008	0	1043	36	0
1	KO	1008	0	1043	39	2
1	KP	1008	0	1043	44	0
1	KQ	1008	0	1043	39	8
1	KR	1008	0	1043	37	0
1	KS	1008	0	1043	49	17
1	KT	1008	0	1043	40	0
1	KU	1008	0	1043	45	0
1	KV	1008	0	1043	38	0
1	KW	1008	0	1043	38	0
1	KX	1008	0	1043	40	0
1	KY	1008	0	1043	39	0
1	KZ	1008	0	1043	41	0
1	LA	1008	0	1043	35	0
1	LB	1008	0	1043	36	6
1	LC	1008	0	1043	38	2
1	LD	1008	0	1043	38	2
1	LE	1008	0	1043	35	0
1	LF	1008	0	1043	42	2
1	LG	1008	0	1043	42	3
1	LH	1008	0	1043	40	0
1	LI	1008	0	1043	36	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	LJ	1008	0	1043	44	0
1	LK	1008	0	1043	34	0
1	LL	1008	0	1043	37	0
1	LM	1008	0	1043	42	0
1	LN	1008	0	1043	40	0
1	LO	1008	0	1043	40	0
1	LP	1008	0	1043	38	0
1	LQ	1008	0	1043	39	0
1	LR	1008	0	1043	34	1
1	LS	1008	0	1043	36	4
1	LT	1008	0	1043	40	0
1	LU	1008	0	1043	37	0
1	LV	1008	0	1043	36	0
1	LW	1008	0	1043	37	0
1	LX	1008	0	1043	39	0
1	LY	1008	0	1043	37	0
1	LZ	1008	0	1043	34	0
1	MA	1008	0	1043	37	0
1	MB	1008	0	1043	40	0
1	MC	1008	0	1043	43	0
1	MD	1008	0	1043	44	0
1	ME	1008	0	1043	34	0
1	MF	1008	0	1043	42	0
1	MG	1008	0	1043	39	0
1	MH	1008	0	1043	39	0
1	MI	1008	0	1043	38	0
1	MJ	1008	0	1043	40	0
1	MK	1008	0	1043	36	0
1	ML	1008	0	1043	39	0
1	MM	1008	0	1043	38	0
1	MN	1008	0	1043	34	0
1	MO	1008	0	1043	44	0
1	MP	1008	0	1043	37	0
1	MQ	1008	0	1043	38	0
1	MR	1008	0	1043	57	1
1	MS	1008	0	1043	38	0
1	MT	1008	0	1043	35	0
1	MU	1008	0	1043	33	0
1	MV	1008	0	1043	39	0
1	MW	1008	0	1043	39	0
1	MX	1008	0	1043	33	0
1	MY	1008	0	1043	37	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	MZ	1008	0	1043	41	0
1	NA	1008	0	1043	41	0
1	NB	1008	0	1043	38	0
1	NC	1008	0	1043	38	0
1	ND	1008	0	1043	35	0
1	NE	1008	0	1043	41	0
1	NF	1008	0	1043	37	0
1	NG	1008	0	1043	39	0
1	NH	1008	0	1043	36	0
1	NI	1008	0	1043	41	0
1	NJ	1008	0	1043	41	0
1	NK	1008	0	1043	38	0
1	NL	1008	0	1043	39	0
1	NM	1008	0	1043	38	0
1	NN	1008	0	1043	41	0
1	NO	1008	0	1043	37	0
1	NP	1008	0	1043	37	1
1	NQ	1008	0	1043	35	0
1	NR	1008	0	1043	37	5
1	NS	1008	0	1043	39	0
1	NT	1008	0	1043	38	0
1	NU	1008	0	1043	41	0
1	NV	1008	0	1043	49	14
2	AB	1	0	0	0	0
2	AH	1	0	0	0	0
2	AJ	1	0	0	0	0
2	AK	1	0	0	0	0
2	AN	1	0	0	0	0
2	AQ	1	0	0	0	0
2	AT	1	0	0	0	0
2	AW	1	0	0	0	0
2	AZ	1	0	0	0	0
2	BB	1	0	0	0	0
2	BC	1	0	0	0	0
2	BF	1	0	0	0	0
2	BI	1	0	0	0	0
2	BL	1	0	0	0	0
2	BO	1	0	0	0	0
2	BU	1	0	0	0	0
2	BX	1	0	0	0	0
2	CA	1	0	0	0	0
2	CD	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	CG	1	0	0	0	0
2	CJ	1	0	0	0	0
2	CM	1	0	0	0	0
2	CO	1	0	0	0	0
2	CP	1	0	0	0	0
2	CS	1	0	0	0	0
2	CV	1	0	0	0	0
2	CY	1	0	0	0	0
2	DB	1	0	0	0	0
2	DE	1	0	0	0	0
2	DH	1	0	0	0	0
2	DQ	1	0	0	0	0
2	DT	1	0	0	0	0
2	DW	1	0	0	0	0
2	DZ	1	0	0	0	0
2	EB	1	0	0	0	0
2	EC	1	0	0	0	0
2	EF	1	0	0	0	0
2	EI	1	0	0	0	0
2	EL	1	0	0	0	0
2	EO	1	0	0	0	0
2	ER	1	0	0	0	0
2	EU	1	0	0	0	0
2	EX	1	0	0	0	0
2	FA	1	0	0	0	0
2	FD	1	0	0	0	0
2	FG	1	0	0	0	0
2	FJ	1	0	0	0	0
2	FM	1	0	0	0	0
2	FS	1	0	0	0	0
2	FV	1	0	0	0	0
2	FY	1	0	0	0	0
2	GB	1	0	0	0	0
2	GE	1	0	0	0	0
2	GH	1	0	0	0	0
2	GK	1	0	0	0	0
2	GN	1	0	0	0	0
2	GQ	1	0	0	0	0
2	GS	1	0	0	0	0
2	GT	1	0	0	0	0
2	GW	1	0	0	0	0
2	GZ	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	HC	1	0	0	0	0
2	HF	1	0	0	0	0
2	HI	1	0	0	0	0
2	HL	1	0	0	0	0
2	HO	1	0	0	0	0
2	HR	1	0	0	0	0
2	HU	1	0	0	0	0
2	HX	1	0	0	0	0
2	IA	1	0	0	0	0
2	ID	1	0	0	0	0
2	IG	1	0	0	0	0
2	IJ	1	0	0	0	0
2	IM	1	0	0	0	0
2	IS	1	0	0	0	0
2	IV	1	0	0	0	0
2	IY	1	0	0	0	0
2	JB	1	0	0	0	0
2	JD	1	0	0	0	0
2	JE	1	0	0	0	0
2	JH	1	0	0	0	0
2	JN	1	0	0	0	0
2	JQ	1	0	0	0	0
2	JT	1	0	0	0	0
2	JW	1	0	0	0	0
2	JZ	1	0	0	0	0
2	KC	1	0	0	0	0
2	KF	1	0	0	0	0
2	KI	1	0	0	0	0
2	KL	1	0	0	0	0
2	KO	1	0	0	0	0
2	KR	1	0	0	0	0
2	KU	1	0	0	0	0
2	KX	1	0	0	0	0
2	KZ	1	0	0	0	0
2	LA	1	0	0	0	0
2	LD	1	0	0	0	0
2	LG	1	0	0	0	0
2	LJ	1	0	0	0	0
2	LM	1	0	0	0	0
2	LP	1	0	0	0	0
2	LS	1	0	0	0	0
2	LV	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	LY	1	0	0	0	0
2	MB	1	0	0	0	0
2	ME	1	0	0	0	0
2	MH	1	0	0	0	0
2	MK	1	0	0	0	0
2	MN	1	0	0	0	0
2	MQ	1	0	0	0	0
2	MT	1	0	0	0	0
2	MW	1	0	0	0	0
2	MZ	1	0	0	0	0
2	NC	1	0	0	0	0
2	NF	1	0	0	0	0
2	NI	1	0	0	0	0
2	NL	1	0	0	0	0
2	NO	1	0	0	0	0
2	NR	1	0	0	0	0
2	NU	1	0	0	0	0
All	All	363000	0	375480	10612	112

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 14.

All (10612) 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:EZ:15:ASP:OD1	1:FM:10:ARG:NH2	1.85	1.09
1:FB:10:ARG:HH21	1:FM:38:LEU:HD22	1.18	1.08
1:AE:10:ARG:NH1	1:BB:38:LEU:HB2	1.72	1.03
1:JF:53:ARG:NH1	1:MR:104:GLU:OE1	2.01	0.93
1:AQ:10:ARG:NH1	1:BT:38:LEU:HB2	1.86	0.91
1:CO:15:ASP:OD1	1:DK:10:ARG:NH2	2.05	0.90
1:AD:15:ASP:OD1	1:GB:10:ARG:NH2	2.06	0.89
1:CU:15:ASP:OD1	1:GN:10:ARG:NH2	2.05	0.89
1:HE:15:ASP:OD1	1:NC:10:ARG:NH2	2.06	0.88
1:IJ:10:ARG:NH2	1:KT:15:ASP:OD1	2.07	0.87
1:IP:10:ARG:NH2	1:KZ:15:ASP:OD1	2.06	0.87
1:HM:49:VAL:HG11	1:KY:112:ALA:O	1.75	0.87
1:AP:15:ASP:OD1	1:FV:10:ARG:NH2	2.07	0.87
1:EF:10:ARG:NH2	1:ET:15:ASP:OD1	2.08	0.87
1:CN:74:VAL:HG22	1:FZ:80:SER:HB2	1.57	0.86
1:AE:10:ARG:HH11	1:BB:38:LEU:HB2	1.39	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LJ:10:ARG:NH2	1:LO:15:ASP:OD1	2.08	0.86
1:CN:112:ALA:O	1:FZ:49:VAL:HG11	1.75	0.86
1:HG:57:LYS:NZ	1:KS:92:GLU:OE2	2.09	0.84
1:AC:8:LYS:HB2	1:DO:119:ASP:O	1.78	0.84
1:FB:10:ARG:HH21	1:FM:38:LEU:CD2	1.91	0.83
1:AC:57:LYS:NZ	1:DO:92:GLU:OE2	2.12	0.82
1:CX:15:ASP:OD1	1:GH:10:ARG:NH2	2.12	0.82
1:BP:92:GLU:OE2	1:FB:57:LYS:NZ	2.13	0.81
1:CC:15:ASP:OD1	1:CS:10:ARG:NH2	2.13	0.81
1:HL:10:ARG:NH2	1:IX:15:ASP:OD1	2.14	0.81
1:DQ:10:ARG:NH2	1:GV:15:ASP:OD1	2.14	0.81
1:AC:80:SER:HB2	1:DO:74:VAL:HG22	1.61	0.81
1:JU:74:VAL:HG22	1:NG:80:SER:HB2	1.62	0.81
1:EU:10:ARG:NH2	1:FF:15:ASP:OD1	2.15	0.80
1:MC:26:VAL:HG21	1:MD:113:TYR:O	1.80	0.80
1:IY:10:ARG:NH2	1:KQ:15:ASP:OD1	2.14	0.80
1:AH:10:ARG:NH2	1:BE:15:ASP:OD1	2.15	0.80
1:GZ:10:ARG:NH2	1:IF:15:ASP:OD1	2.14	0.80
1:JF:8:LYS:HB2	1:MR:119:ASP:O	1.82	0.79
1:HP:112:ALA:O	1:LB:49:VAL:HG11	1.82	0.79
1:KO:10:ARG:NH2	1:NT:15:ASP:OD1	2.15	0.79
1:JJ:15:ASP:OD1	1:KF:10:ARG:NH2	2.15	0.79
1:HV:119:ASP:O	1:LH:8:LYS:HB2	1.82	0.79
1:KJ:8:LYS:HB2	1:NV:119:ASP:O	1.82	0.79
1:HA:74:VAL:HG22	1:KM:80:SER:HB2	1.65	0.78
1:CY:10:ARG:NH1	1:DJ:38:LEU:HB2	1.99	0.78
1:AE:38:LEU:HD22	1:BD:10:ARG:HH21	1.48	0.78
1:HG:8:LYS:HB2	1:KS:119:ASP:O	1.83	0.78
1:JD:15:ASP:OD1	1:JK:10:ARG:NH2	2.16	0.78
1:CB:80:SER:HB2	1:FN:74:VAL:HG22	1.63	0.78
1:BS:112:ALA:O	1:FE:49:VAL:HG11	1.83	0.78
1:HM:26:VAL:HG21	1:MP:113:TYR:O	1.84	0.78
1:BJ:80:SER:HB2	1:EV:74:VAL:HG22	1.66	0.77
1:IW:49:VAL:HG11	1:MI:112:ALA:O	1.85	0.77
1:LM:10:ARG:NH2	1:MG:15:ASP:OD1	2.18	0.77
1:IG:10:ARG:NH2	1:IL:15:ASP:OD1	2.18	0.77
1:JU:80:SER:HB2	1:NG:74:VAL:HG22	1.67	0.76
1:KJ:49:VAL:HG11	1:NV:112:ALA:O	1.84	0.76
1:GY:15:ASP:OD1	1:MW:10:ARG:NH2	2.18	0.76
1:JS:15:ASP:OD1	1:NL:10:ARG:NH2	2.19	0.76
1:HV:74:VAL:HG22	1:LH:80:SER:HB2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HY:80:SER:HB2	1:LK:74:VAL:HG22	1.68	0.76
1:HT:15:ASP:OD1	1:MB:10:ARG:NH2	2.19	0.76
1:IU:113:TYR:O	1:KP:26:VAL:HG21	1.85	0.76
1:JC:49:VAL:HG11	1:MO:112:ALA:O	1.85	0.76
1:HA:80:SER:HB2	1:KM:74:VAL:HG22	1.66	0.76
1:BP:112:ALA:O	1:FB:49:VAL:HG11	1.85	0.76
1:CB:8:LYS:HB2	1:FN:119:ASP:O	1.85	0.75
1:CE:80:SER:HB2	1:FQ:74:VAL:HG22	1.68	0.75
1:IP:38:LEU:HD22	1:LB:10:ARG:HH21	1.50	0.75
1:BA:74:VAL:HG22	1:EM:80:SER:HB2	1.65	0.75
1:BJ:74:VAL:HG22	1:EV:80:SER:HB2	1.68	0.75
1:CB:74:VAL:HG22	1:FN:80:SER:HB2	1.65	0.75
1:DS:113:TYR:O	1:GR:26:VAL:HG21	1.86	0.75
1:HO:10:ARG:NH2	1:IR:15:ASP:OD1	2.20	0.75
1:BR:10:ARG:NH2	1:EB:15:ASP:OD1	2.19	0.74
1:DV:113:TYR:O	1:GF:26:VAL:HG21	1.87	0.74
1:IZ:74:VAL:HG22	1:ML:80:SER:HB2	1.68	0.74
1:AM:15:ASP:OD1	1:FS:10:ARG:NH2	2.20	0.74
1:CW:10:ARG:HH21	1:GN:38:LEU:HD22	1.50	0.74
1:IJ:38:LEU:HD22	1:KV:10:ARG:HH21	1.51	0.74
1:FO:15:ASP:OD1	1:GW:10:ARG:NH2	2.21	0.73
1:CB:119:ASP:O	1:FN:8:LYS:HB2	1.88	0.73
1:CG:39:PRO:HD3	1:CG:49:VAL:HG12	1.71	0.73
1:EI:39:PRO:HD3	1:EI:49:VAL:HG12	1.71	0.73
1:GZ:39:PRO:HD3	1:GZ:49:VAL:HG12	1.71	0.73
1:KC:39:PRO:HD3	1:KC:49:VAL:HG12	1.71	0.73
1:CY:39:PRO:HD3	1:CY:49:VAL:HG12	1.71	0.73
1:DT:39:PRO:HD3	1:DT:49:VAL:HG12	1.71	0.73
1:HG:119:ASP:O	1:KS:8:LYS:HB2	1.88	0.73
1:LV:39:PRO:HD3	1:LV:49:VAL:HG12	1.71	0.73
1:AR:119:ASP:O	1:ED:8:LYS:HB2	1.87	0.73
1:CA:39:PRO:HD3	1:CA:49:VAL:HG12	1.71	0.73
1:JQ:39:PRO:HD3	1:JQ:49:VAL:HG12	1.71	0.73
1:LG:39:PRO:HD3	1:LG:49:VAL:HG12	1.71	0.73
1:BR:39:PRO:HD3	1:BR:49:VAL:HG12	1.71	0.73
1:CN:80:SER:HB2	1:FZ:74:VAL:HG22	1.70	0.73
1:CP:39:PRO:HD3	1:CP:49:VAL:HG12	1.71	0.73
1:IE:74:VAL:HG22	1:LQ:80:SER:HB2	1.69	0.73
1:IP:39:PRO:HD3	1:IP:49:VAL:HG12	1.71	0.73
1:IS:39:PRO:HD3	1:IS:49:VAL:HG12	1.71	0.73
1:KG:92:GLU:OE2	1:NS:57:LYS:NZ	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MB:39:PRO:HD3	1:MB:49:VAL:HG12	1.71	0.73
1:BL:39:PRO:HD3	1:BL:49:VAL:HG12	1.71	0.73
1:FA:39:PRO:HD3	1:FA:49:VAL:HG12	1.71	0.73
1:FJ:39:PRO:HD3	1:FJ:49:VAL:HG12	1.71	0.73
1:GT:39:PRO:HD3	1:GT:49:VAL:HG12	1.71	0.73
1:HF:39:PRO:HD3	1:HF:49:VAL:HG12	1.71	0.73
1:HQ:15:ASP:OD1	1:LY:10:ARG:NH2	2.22	0.73
1:JK:39:PRO:HD3	1:JK:49:VAL:HG12	1.71	0.73
1:ER:39:PRO:HD3	1:ER:49:VAL:HG12	1.71	0.73
1:IM:39:PRO:HD3	1:IM:49:VAL:HG12	1.71	0.73
1:KJ:57:LYS:NZ	1:NV:92:GLU:OE2	2.22	0.73
1:KO:39:PRO:HD3	1:KO:49:VAL:HG12	1.71	0.73
1:MW:39:PRO:HD3	1:MW:49:VAL:HG12	1.71	0.73
1:AQ:39:PRO:HD3	1:AQ:49:VAL:HG12	1.71	0.73
1:BC:39:PRO:HD3	1:BC:49:VAL:HG12	1.71	0.73
1:DE:39:PRO:HD3	1:DE:49:VAL:HG12	1.71	0.73
1:HR:39:PRO:HD3	1:HR:49:VAL:HG12	1.71	0.73
1:JH:39:PRO:HD3	1:JH:49:VAL:HG12	1.71	0.73
1:JL:74:VAL:HG22	1:MX:80:SER:HB2	1.71	0.73
1:NI:39:PRO:HD3	1:NI:49:VAL:HG12	1.71	0.73
1:AK:39:PRO:HD3	1:AK:49:VAL:HG12	1.71	0.73
1:FG:39:PRO:HD3	1:FG:49:VAL:HG12	1.71	0.73
1:FM:39:PRO:HD3	1:FM:49:VAL:HG12	1.71	0.73
1:GE:39:PRO:HD3	1:GE:49:VAL:HG12	1.71	0.73
1:ID:10:ARG:NH2	1:II:15:ASP:OD1	2.22	0.73
1:JZ:39:PRO:HD3	1:JZ:49:VAL:HG12	1.71	0.73
1:KU:39:PRO:HD3	1:KU:49:VAL:HG12	1.71	0.73
1:LD:39:PRO:HD3	1:LD:49:VAL:HG12	1.71	0.73
1:AT:39:PRO:HD3	1:AT:49:VAL:HG12	1.71	0.73
1:BA:80:SER:HB2	1:EM:74:VAL:HG22	1.69	0.73
1:BI:39:PRO:HD3	1:BI:49:VAL:HG12	1.71	0.73
1:GK:39:PRO:HD3	1:GK:49:VAL:HG12	1.70	0.73
1:GQ:39:PRO:HD3	1:GQ:49:VAL:HG12	1.71	0.73
1:HL:39:PRO:HD3	1:HL:49:VAL:HG12	1.71	0.73
1:KF:39:PRO:HD3	1:KF:49:VAL:HG12	1.70	0.73
1:KI:39:PRO:HD3	1:KI:49:VAL:HG12	1.71	0.73
1:AE:38:LEU:CD2	1:BD:10:ARG:HH21	2.00	0.72
1:CJ:39:PRO:HD3	1:CJ:49:VAL:HG12	1.71	0.72
1:FV:39:PRO:HD3	1:FV:49:VAL:HG12	1.71	0.72
1:NF:39:PRO:HD3	1:NF:49:VAL:HG12	1.71	0.72
1:AT:10:ARG:NH2	1:EK:15:ASP:OD1	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:39:PRO:HD3	1:CD:49:VAL:HG12	1.71	0.72
1:DF:112:ALA:O	1:GR:49:VAL:HG11	1.89	0.72
1:DZ:39:PRO:HD3	1:DZ:49:VAL:HG12	1.71	0.72
1:EC:39:PRO:HD3	1:EC:49:VAL:HG12	1.71	0.72
1:MK:39:PRO:HD3	1:MK:49:VAL:HG12	1.71	0.72
1:DW:15:ASP:OD1	1:GF:10:ARG:NH1	2.23	0.72
1:JB:39:PRO:HD3	1:JB:49:VAL:HG12	1.71	0.72
1:KJ:119:ASP:O	1:NV:8:LYS:HB2	1.88	0.72
1:LP:39:PRO:HD3	1:LP:49:VAL:HG12	1.71	0.72
1:MN:39:PRO:HD3	1:MN:49:VAL:HG12	1.71	0.72
1:MZ:39:PRO:HD3	1:MZ:49:VAL:HG12	1.71	0.72
1:AE:10:ARG:HH11	1:BB:38:LEU:CB	2.02	0.72
1:DN:39:PRO:HD3	1:DN:49:VAL:HG12	1.71	0.72
1:EF:39:PRO:HD3	1:EF:49:VAL:HG12	1.71	0.72
1:HI:39:PRO:HD3	1:HI:49:VAL:HG12	1.71	0.72
1:HX:39:PRO:HD3	1:HX:49:VAL:HG12	1.71	0.72
1:KL:39:PRO:HD3	1:KL:49:VAL:HG12	1.71	0.72
1:LU:15:ASP:OD1	1:MH:10:ARG:NH2	2.23	0.72
1:BO:39:PRO:HD3	1:BO:49:VAL:HG12	1.71	0.72
1:BX:39:PRO:HD3	1:BX:49:VAL:HG12	1.71	0.72
1:GH:39:PRO:HD3	1:GH:49:VAL:HG12	1.71	0.72
1:HC:39:PRO:HD3	1:HC:49:VAL:HG12	1.71	0.72
1:IA:39:PRO:HD3	1:IA:49:VAL:HG12	1.71	0.72
1:KR:39:PRO:HD3	1:KR:49:VAL:HG12	1.71	0.72
1:AN:39:PRO:HD3	1:AN:49:VAL:HG12	1.71	0.72
1:AO:57:LYS:HZ1	1:EA:92:GLU:CD	1.92	0.72
1:DW:39:PRO:HD3	1:DW:49:VAL:HG12	1.71	0.72
1:EX:39:PRO:HD3	1:EX:49:VAL:HG12	1.71	0.72
1:IY:39:PRO:HD3	1:IY:49:VAL:HG12	1.71	0.72
1:JN:39:PRO:HD3	1:JN:49:VAL:HG12	1.71	0.72
1:AW:39:PRO:HD3	1:AW:49:VAL:HG12	1.71	0.72
1:BY:80:SER:HB2	1:FK:74:VAL:HG22	1.71	0.72
1:CS:39:PRO:HD3	1:CS:49:VAL:HG12	1.70	0.72
1:GW:39:PRO:HD3	1:GW:49:VAL:HG12	1.71	0.72
1:MH:39:PRO:HD3	1:MH:49:VAL:HG12	1.71	0.72
1:BF:39:PRO:HD3	1:BF:49:VAL:HG12	1.71	0.72
1:CF:15:ASP:OD1	1:CM:10:ARG:NH2	2.23	0.72
1:EL:39:PRO:HD3	1:EL:49:VAL:HG12	1.71	0.72
1:FS:39:PRO:HD3	1:FS:49:VAL:HG12	1.71	0.72
1:ID:39:PRO:HD3	1:ID:49:VAL:HG12	1.71	0.72
1:LA:39:PRO:HD3	1:LA:49:VAL:HG12	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NL:39:PRO:HD3	1:NL:49:VAL:HG12	1.71	0.72
1:AC:59:ILE:HD12	1:DO:89:ASP:OD2	1.88	0.72
1:DH:39:PRO:HD3	1:DH:49:VAL:HG12	1.71	0.72
1:EO:10:ARG:NH2	1:FI:15:ASP:OD1	2.23	0.72
1:FY:39:PRO:HD3	1:FY:49:VAL:HG12	1.71	0.72
1:EU:39:PRO:HD3	1:EU:49:VAL:HG12	1.71	0.71
1:FP:39:PRO:HD3	1:FP:49:VAL:HG12	1.71	0.71
1:HO:39:PRO:HD3	1:HO:49:VAL:HG12	1.71	0.71
1:IZ:92:GLU:CD	1:ML:57:LYS:HZ3	1.93	0.71
1:JW:39:PRO:HD3	1:JW:49:VAL:HG12	1.71	0.71
1:LM:39:PRO:HD3	1:LM:49:VAL:HG12	1.71	0.71
1:NO:39:PRO:HD3	1:NO:49:VAL:HG12	1.71	0.71
1:AH:39:PRO:HD3	1:AH:49:VAL:HG12	1.71	0.71
1:AI:112:ALA:O	1:DU:49:VAL:HG11	1.89	0.71
1:CY:10:ARG:HH11	1:DJ:38:LEU:HB2	1.55	0.71
1:HG:92:GLU:OE2	1:KS:57:LYS:NZ	2.22	0.71
1:IG:39:PRO:HD3	1:IG:49:VAL:HG12	1.71	0.71
1:LJ:39:PRO:HD3	1:LJ:49:VAL:HG12	1.71	0.71
1:ME:39:PRO:HD3	1:ME:49:VAL:HG12	1.71	0.71
1:AE:39:PRO:HD3	1:AE:49:VAL:HG12	1.71	0.71
1:AZ:39:PRO:HD3	1:AZ:49:VAL:HG12	1.71	0.71
1:CR:38:LEU:HB2	1:DE:10:ARG:NH1	2.03	0.71
1:FO:38:LEU:HB2	1:GW:10:ARG:NH1	2.05	0.71
1:IV:39:PRO:HD3	1:IV:49:VAL:HG12	1.71	0.71
1:JE:39:PRO:HD3	1:JE:49:VAL:HG12	1.71	0.71
1:AB:39:PRO:HD3	1:AB:49:VAL:HG12	1.71	0.71
1:AL:74:VAL:HG22	1:DX:80:SER:HB2	1.71	0.71
1:DB:39:PRO:HD3	1:DB:49:VAL:HG12	1.71	0.71
1:CV:39:PRO:HD3	1:CV:49:VAL:HG12	1.71	0.71
1:GN:39:PRO:HD3	1:GN:49:VAL:HG12	1.71	0.71
1:HU:39:PRO:HD3	1:HU:49:VAL:HG12	1.71	0.71
1:JT:39:PRO:HD3	1:JT:49:VAL:HG12	1.71	0.71
1:LY:39:PRO:HD3	1:LY:49:VAL:HG12	1.71	0.71
1:NR:39:PRO:HD3	1:NR:49:VAL:HG12	1.71	0.71
1:BU:39:PRO:HD3	1:BU:49:VAL:HG12	1.71	0.71
1:CE:74:VAL:HG22	1:FQ:80:SER:HB2	1.71	0.71
1:DQ:39:PRO:HD3	1:DQ:49:VAL:HG12	1.71	0.71
1:EZ:38:LEU:HB2	1:FM:10:ARG:HH11	1.53	0.71
1:FD:39:PRO:HD3	1:FD:49:VAL:HG12	1.71	0.71
1:IZ:80:SER:HB2	1:ML:74:VAL:HG22	1.72	0.71
1:KL:10:ARG:NH2	1:NQ:15:ASP:OD1	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CY:10:ARG:NH2	1:DJ:15:ASP:OD1	2.23	0.71
1:EO:39:PRO:HD3	1:EO:49:VAL:HG12	1.71	0.71
1:IJ:39:PRO:HD3	1:IJ:49:VAL:HG12	1.71	0.71
1:MT:39:PRO:HD3	1:MT:49:VAL:HG12	1.71	0.71
1:DK:39:PRO:HD3	1:DK:49:VAL:HG12	1.71	0.71
1:HG:92:GLU:CD	1:KS:57:LYS:HZ3	1.94	0.71
1:HM:8:LYS:HB2	1:KY:119:ASP:O	1.91	0.71
1:NC:39:PRO:HD3	1:NC:49:VAL:HG12	1.71	0.71
1:NU:39:PRO:HD3	1:NU:49:VAL:HG12	1.71	0.71
1:AC:74:VAL:HG22	1:DO:80:SER:HB2	1.73	0.71
1:GB:39:PRO:HD3	1:GB:49:VAL:HG12	1.71	0.71
1:KX:39:PRO:HD3	1:KX:49:VAL:HG12	1.71	0.71
1:CW:80:SER:HB2	1:GI:74:VAL:HG22	1.72	0.71
1:LS:39:PRO:HD3	1:LS:49:VAL:HG12	1.71	0.71
1:MQ:39:PRO:HD3	1:MQ:49:VAL:HG12	1.71	0.71
1:HM:80:SER:HB2	1:KY:74:VAL:HG22	1.70	0.70
1:AA:15:ASP:OD1	1:FY:10:ARG:NH2	2.24	0.70
1:IH:49:VAL:HG11	1:LT:112:ALA:O	1.91	0.70
1:FQ:10:ARG:HH21	1:GW:38:LEU:HD22	1.56	0.70
1:HA:57:LYS:HZ1	1:KM:92:GLU:CD	1.95	0.70
1:BA:39:PRO:HD3	1:BA:49:VAL:HG22	1.74	0.70
1:CB:112:ALA:O	1:FN:49:VAL:HG11	1.91	0.70
1:CZ:39:PRO:HD3	1:CZ:49:VAL:HG22	1.74	0.70
1:HG:49:VAL:HG11	1:KS:112:ALA:O	1.91	0.70
1:AC:39:PRO:HD3	1:AC:49:VAL:HG22	1.74	0.70
1:BY:39:PRO:HD3	1:BY:49:VAL:HG22	1.74	0.70
1:CM:39:PRO:HD3	1:CM:49:VAL:HG12	1.71	0.70
1:CN:119:ASP:O	1:FZ:8:LYS:HB2	1.91	0.70
1:CW:74:VAL:HG22	1:GI:80:SER:HB2	1.74	0.70
1:FT:39:PRO:HD3	1:FT:49:VAL:HG22	1.74	0.70
1:GL:39:PRO:HD3	1:GL:49:VAL:HG22	1.74	0.70
1:IN:39:PRO:HD3	1:IN:49:VAL:HG22	1.74	0.70
1:JA:114:SER:HA	1:NJ:26:VAL:HG21	1.74	0.70
1:JU:39:PRO:HD3	1:JU:49:VAL:HG22	1.74	0.70
1:KD:39:PRO:HD3	1:KD:49:VAL:HG22	1.74	0.70
1:KS:39:PRO:HD3	1:KS:49:VAL:HG22	1.74	0.70
1:LH:39:PRO:HD3	1:LH:49:VAL:HG22	1.74	0.70
1:MI:39:PRO:HD3	1:MI:49:VAL:HG22	1.74	0.70
1:NS:39:PRO:HD3	1:NS:49:VAL:HG22	1.74	0.70
1:AI:39:PRO:HD3	1:AI:49:VAL:HG22	1.74	0.70
1:EM:39:PRO:HD3	1:EM:49:VAL:HG22	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HS:39:PRO:HD3	1:HS:49:VAL:HG22	1.74	0.70
1:KA:39:PRO:HD3	1:KA:49:VAL:HG22	1.74	0.70
1:LE:39:PRO:HD3	1:LE:49:VAL:HG22	1.74	0.70
1:BP:39:PRO:HD3	1:BP:49:VAL:HG22	1.74	0.70
1:BS:74:VAL:HG22	1:FE:80:SER:HB2	1.72	0.70
1:CN:39:PRO:HD3	1:CN:49:VAL:HG22	1.74	0.70
1:ED:39:PRO:HD3	1:ED:49:VAL:HG22	1.74	0.70
1:FE:39:PRO:HD3	1:FE:49:VAL:HG22	1.74	0.70
1:GC:39:PRO:HD3	1:GC:49:VAL:HG22	1.74	0.70
1:GR:39:PRO:HD3	1:GR:49:VAL:HG22	1.74	0.70
1:GU:39:PRO:HD3	1:GU:49:VAL:HG22	1.74	0.70
1:HV:112:ALA:O	1:LH:49:VAL:HG11	1.91	0.70
1:IK:39:PRO:HD3	1:IK:49:VAL:HG22	1.74	0.70
1:MR:39:PRO:HD3	1:MR:49:VAL:HG22	1.74	0.70
1:EG:39:PRO:HD3	1:EG:49:VAL:HG22	1.74	0.70
1:FQ:39:PRO:HD3	1:FQ:49:VAL:HG22	1.74	0.70
1:HG:39:PRO:HD3	1:HG:49:VAL:HG22	1.74	0.70
1:IQ:39:PRO:HD3	1:IQ:49:VAL:HG22	1.74	0.70
1:KP:39:PRO:HD3	1:KP:49:VAL:HG22	1.74	0.70
1:LK:39:PRO:HD3	1:LK:49:VAL:HG22	1.74	0.70
1:LN:39:PRO:HD3	1:LN:49:VAL:HG22	1.74	0.70
1:LT:39:PRO:HD3	1:LT:49:VAL:HG22	1.74	0.70
1:LZ:39:PRO:HD3	1:LZ:49:VAL:HG22	1.74	0.70
1:NA:39:PRO:HD3	1:NA:49:VAL:HG22	1.74	0.70
1:AQ:10:ARG:HH11	1:BT:38:LEU:HB2	1.55	0.70
1:BM:39:PRO:HD3	1:BM:49:VAL:HG22	1.74	0.70
1:DO:39:PRO:HD3	1:DO:49:VAL:HG22	1.74	0.70
1:DR:39:PRO:HD3	1:DR:49:VAL:HG22	1.74	0.70
1:EA:39:PRO:HD3	1:EA:49:VAL:HG22	1.74	0.70
1:GI:39:PRO:HD3	1:GI:49:VAL:HG22	1.74	0.70
1:HY:39:PRO:HD3	1:HY:49:VAL:HG22	1.74	0.70
1:JR:39:PRO:HD3	1:JR:49:VAL:HG22	1.74	0.70
1:LW:39:PRO:HD3	1:LW:49:VAL:HG22	1.74	0.70
1:MO:39:PRO:HD3	1:MO:49:VAL:HG22	1.74	0.70
1:CK:39:PRO:HD3	1:CK:49:VAL:HG22	1.74	0.69
1:CQ:39:PRO:HD3	1:CQ:49:VAL:HG22	1.74	0.69
1:IW:39:PRO:HD3	1:IW:49:VAL:HG22	1.74	0.69
1:MF:39:PRO:HD3	1:MF:49:VAL:HG22	1.74	0.69
1:ML:39:PRO:HD3	1:ML:49:VAL:HG22	1.74	0.69
1:MX:39:PRO:HD3	1:MX:49:VAL:HG22	1.74	0.69
1:AJ:15:ASP:OD1	1:FP:10:ARG:NH2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:38:LEU:HB2	1:FP:10:ARG:NH1	2.07	0.69
1:BS:39:PRO:HD3	1:BS:49:VAL:HG22	1.74	0.69
1:BV:74:VAL:HG22	1:FH:80:SER:HB2	1.74	0.69
1:DI:39:PRO:HD3	1:DI:49:VAL:HG22	1.74	0.69
1:GX:39:PRO:HD3	1:GX:49:VAL:HG22	1.74	0.69
1:JF:39:PRO:HD3	1:JF:49:VAL:HG22	1.74	0.69
1:LQ:39:PRO:HD3	1:LQ:49:VAL:HG22	1.74	0.69
1:AC:49:VAL:HG11	1:DO:112:ALA:O	1.93	0.69
1:AO:39:PRO:HD3	1:AO:49:VAL:HG22	1.74	0.69
1:BV:80:SER:HB2	1:FH:74:VAL:HG22	1.73	0.69
1:EJ:39:PRO:HD3	1:EJ:49:VAL:HG22	1.74	0.69
1:IH:80:SER:HB2	1:LT:74:VAL:HG22	1.74	0.69
1:KY:39:PRO:HD3	1:KY:49:VAL:HG22	1.74	0.69
1:MU:39:PRO:HD3	1:MU:49:VAL:HG22	1.74	0.69
1:NP:39:PRO:HD3	1:NP:49:VAL:HG22	1.74	0.69
1:AL:39:PRO:HD3	1:AL:49:VAL:HG22	1.74	0.69
1:HB:38:LEU:HB2	1:MZ:10:ARG:NH1	2.08	0.69
1:NJ:39:PRO:HD3	1:NJ:49:VAL:HG22	1.74	0.69
1:NM:39:PRO:HD3	1:NM:49:VAL:HG22	1.74	0.69
1:AF:39:PRO:HD3	1:AF:49:VAL:HG22	1.74	0.69
1:BD:39:PRO:HD3	1:BD:49:VAL:HG22	1.74	0.69
1:FN:39:PRO:HD3	1:FN:49:VAL:HG22	1.74	0.69
1:JX:39:PRO:HD3	1:JX:49:VAL:HG22	1.74	0.69
1:KM:39:PRO:HD3	1:KM:49:VAL:HG22	1.74	0.69
1:KV:39:PRO:HD3	1:KV:49:VAL:HG22	1.74	0.69
1:BJ:92:GLU:CD	1:EV:57:LYS:HZ1	1.96	0.69
1:FK:39:PRO:HD3	1:FK:49:VAL:HG22	1.74	0.69
1:IE:39:PRO:HD3	1:IE:49:VAL:HG22	1.74	0.69
1:IV:15:ASP:OD1	1:KP:10:ARG:NH1	2.25	0.69
1:KJ:39:PRO:HD3	1:KJ:49:VAL:HG22	1.74	0.69
1:LB:39:PRO:HD3	1:LB:49:VAL:HG22	1.74	0.69
1:CE:39:PRO:HD3	1:CE:49:VAL:HG22	1.74	0.69
1:EP:39:PRO:HD3	1:EP:49:VAL:HG22	1.74	0.69
1:FH:39:PRO:HD3	1:FH:49:VAL:HG22	1.74	0.69
1:MC:39:PRO:HD3	1:MC:49:VAL:HG22	1.74	0.69
1:BJ:39:PRO:HD3	1:BJ:49:VAL:HG22	1.74	0.69
1:CB:39:PRO:HD3	1:CB:49:VAL:HG22	1.74	0.69
1:CW:39:PRO:HD3	1:CW:49:VAL:HG22	1.74	0.69
1:DU:39:PRO:HD3	1:DU:49:VAL:HG22	1.74	0.69
1:ES:39:PRO:HD3	1:ES:49:VAL:HG22	1.74	0.69
1:FU:15:ASP:OD1	1:GT:10:ARG:NH2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HD:39:PRO:HD3	1:HD:49:VAL:HG22	1.74	0.69
1:HM:10:ARG:NH1	1:MQ:15:ASP:OD1	2.26	0.69
1:HR:10:ARG:NH2	1:LI:15:ASP:OD1	2.25	0.69
1:HV:39:PRO:HD3	1:HV:49:VAL:HG22	1.74	0.69
1:JL:39:PRO:HD3	1:JL:49:VAL:HG22	1.74	0.69
1:AR:39:PRO:HD3	1:AR:49:VAL:HG22	1.74	0.69
1:CB:49:VAL:HG11	1:FN:112:ALA:O	1.93	0.69
1:DF:39:PRO:HD3	1:DF:49:VAL:HG22	1.74	0.69
1:EV:39:PRO:HD3	1:EV:49:VAL:HG22	1.74	0.69
1:FZ:39:PRO:HD3	1:FZ:49:VAL:HG22	1.74	0.69
1:HJ:39:PRO:HD3	1:HJ:49:VAL:HG22	1.74	0.69
1:HM:39:PRO:HD3	1:HM:49:VAL:HG22	1.74	0.69
1:IZ:39:PRO:HD3	1:IZ:49:VAL:HG22	1.74	0.69
1:AF:10:ARG:HH21	1:GB:38:LEU:HD22	1.57	0.69
1:CH:39:PRO:HD3	1:CH:49:VAL:HG22	1.74	0.69
1:HP:39:PRO:HD3	1:HP:49:VAL:HG22	1.74	0.69
1:JI:39:PRO:HD3	1:JI:49:VAL:HG22	1.74	0.69
1:JL:80:SER:HB2	1:MX:74:VAL:HG22	1.73	0.69
1:KG:92:GLU:CD	1:NS:57:LYS:HZ1	1.96	0.69
1:CT:39:PRO:HD3	1:CT:49:VAL:HG22	1.74	0.68
1:DX:39:PRO:HD3	1:DX:49:VAL:HG22	1.74	0.68
1:EO:10:ARG:NH1	1:FI:38:LEU:HB2	2.07	0.68
1:IB:112:ALA:O	1:LN:49:VAL:HG11	1.93	0.68
1:IT:39:PRO:HD3	1:IT:49:VAL:HG22	1.74	0.68
1:JO:39:PRO:HD3	1:JO:49:VAL:HG22	1.74	0.68
1:DI:92:GLU:OE2	1:GU:57:LYS:NZ	2.23	0.68
1:FW:39:PRO:HD3	1:FW:49:VAL:HG22	1.74	0.68
1:GO:39:PRO:HD3	1:GO:49:VAL:HG22	1.74	0.68
1:HA:39:PRO:HD3	1:HA:49:VAL:HG22	1.74	0.68
1:IE:119:ASP:O	1:LQ:8:LYS:HB2	1.93	0.68
1:IS:10:ARG:NH2	1:KK:15:ASP:OD1	2.26	0.68
1:DL:39:PRO:HD3	1:DL:49:VAL:HG22	1.74	0.68
1:JG:15:ASP:OD1	1:JN:10:ARG:NH2	2.25	0.68
1:KG:39:PRO:HD3	1:KG:49:VAL:HG22	1.74	0.68
1:ND:39:PRO:HD3	1:ND:49:VAL:HG22	1.74	0.68
1:CE:49:VAL:HG11	1:FQ:112:ALA:O	1.94	0.68
1:DW:10:ARG:NH2	1:GD:15:ASP:OD1	2.26	0.68
1:GF:39:PRO:HD3	1:GF:49:VAL:HG22	1.74	0.68
1:AI:119:ASP:O	1:DU:8:LYS:HB2	1.94	0.68
1:AX:39:PRO:HD3	1:AX:49:VAL:HG22	1.74	0.68
1:BS:80:SER:HB2	1:FE:74:VAL:HG22	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ET:80:SER:HB2	1:EU:74:VAL:HG22	1.76	0.68
1:KW:80:SER:HB2	1:KX:74:VAL:HG22	1.76	0.68
1:AJ:80:SER:HB2	1:AK:74:VAL:HG22	1.76	0.68
1:BH:80:SER:HB2	1:BI:74:VAL:HG22	1.76	0.68
1:BX:10:ARG:NH2	1:DP:15:ASP:OD1	2.26	0.68
1:DV:80:SER:HB2	1:DW:74:VAL:HG22	1.76	0.68
1:IH:39:PRO:HD3	1:IH:49:VAL:HG22	1.74	0.68
1:KT:80:SER:HB2	1:KU:74:VAL:HG22	1.76	0.68
1:NV:39:PRO:HD3	1:NV:49:VAL:HG22	1.74	0.68
1:AD:80:SER:HB2	1:AE:74:VAL:HG22	1.76	0.68
1:HK:80:SER:HB2	1:HL:74:VAL:HG22	1.76	0.68
1:IC:80:SER:HB2	1:ID:74:VAL:HG22	1.76	0.68
1:MS:80:SER:HB2	1:MT:74:VAL:HG22	1.76	0.68
1:NG:39:PRO:HD3	1:NG:49:VAL:HG22	1.74	0.68
1:AZ:10:ARG:NH2	1:EH:15:ASP:OD1	2.27	0.68
1:FF:80:SER:HB2	1:FG:74:VAL:HG22	1.76	0.68
1:GV:80:SER:HB2	1:GW:74:VAL:HG22	1.76	0.68
1:HD:112:ALA:O	1:KP:49:VAL:HG11	1.94	0.68
1:IO:80:SER:HB2	1:IP:74:VAL:HG22	1.76	0.68
1:IU:80:SER:HB2	1:IV:74:VAL:HG22	1.76	0.68
1:JC:39:PRO:HD3	1:JC:49:VAL:HG22	1.74	0.68
1:JG:80:SER:HB2	1:JH:74:VAL:HG22	1.76	0.68
1:MG:80:SER:HB2	1:MH:74:VAL:HG22	1.76	0.68
1:AB:10:ARG:NH2	1:BH:15:ASP:OD1	2.27	0.68
1:BG:39:PRO:HD3	1:BG:49:VAL:HG22	1.74	0.68
1:BP:92:GLU:CD	1:FB:57:LYS:HZ3	1.96	0.68
1:EN:80:SER:HB2	1:EO:74:VAL:HG22	1.76	0.68
1:EY:39:PRO:HD3	1:EY:49:VAL:HG22	1.74	0.68
1:FB:10:ARG:NH2	1:FM:38:LEU:HD22	2.00	0.68
1:HH:80:SER:HB2	1:HI:74:VAL:HG22	1.76	0.68
1:MA:80:SER:HB2	1:MB:74:VAL:HG22	1.76	0.68
1:BH:106:LYS:HE3	1:BI:128:ILE:HG22	1.76	0.68
1:BT:80:SER:HB2	1:BU:74:VAL:HG22	1.76	0.68
1:DJ:80:SER:HB2	1:DK:74:VAL:HG22	1.76	0.68
1:DP:80:SER:HB2	1:DQ:74:VAL:HG22	1.76	0.68
1:DV:106:LYS:HE3	1:DW:128:ILE:HG22	1.77	0.68
1:FB:39:PRO:HD3	1:FB:49:VAL:HG22	1.74	0.68
1:FO:80:SER:HB2	1:FP:74:VAL:HG22	1.76	0.68
1:HB:80:SER:HB2	1:HC:74:VAL:HG22	1.76	0.68
1:KN:80:SER:HB2	1:KO:74:VAL:HG22	1.76	0.68
1:KZ:106:LYS:HE3	1:LA:128:ILE:HG22	1.77	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LO:80:SER:HB2	1:LP:74:VAL:HG22	1.76	0.68
1:BB:106:LYS:HE3	1:BC:128:ILE:HG22	1.77	0.67
1:BP:119:ASP:O	1:FB:8:LYS:HB2	1.93	0.67
1:CU:80:SER:HB2	1:CV:74:VAL:HG22	1.76	0.67
1:DC:39:PRO:HD3	1:DC:49:VAL:HG22	1.74	0.67
1:EK:106:LYS:HE3	1:EL:128:ILE:HG22	1.77	0.67
1:IB:39:PRO:HD3	1:IB:49:VAL:HG22	1.74	0.67
1:JP:106:LYS:HE3	1:JQ:128:ILE:HG22	1.77	0.67
1:KB:80:SER:HB2	1:KC:74:VAL:HG22	1.76	0.67
1:MC:20:THR:HG1	1:MD:116:TYR:HH	1.41	0.67
1:NQ:80:SER:HB2	1:NR:74:VAL:HG22	1.76	0.67
1:NQ:106:LYS:HE3	1:NR:128:ILE:HG22	1.77	0.67
1:AE:10:ARG:NH1	1:BB:38:LEU:CB	2.52	0.67
1:AG:106:LYS:HE3	1:AH:128:ILE:HG22	1.77	0.67
1:AM:80:SER:HB2	1:AN:74:VAL:HG22	1.76	0.67
1:BZ:80:SER:HB2	1:CA:74:VAL:HG22	1.76	0.67
1:CC:80:SER:HB2	1:CD:74:VAL:HG22	1.76	0.67
1:CF:80:SER:HB2	1:CG:74:VAL:HG22	1.76	0.67
1:DA:80:SER:HB2	1:DB:74:VAL:HG22	1.76	0.67
1:DG:80:SER:HB2	1:DH:74:VAL:HG22	1.76	0.67
1:EK:39:PRO:HD3	1:EK:49:VAL:HG22	1.77	0.67
1:FL:80:SER:HB2	1:FM:74:VAL:HG22	1.76	0.67
1:FL:106:LYS:HE3	1:FM:128:ILE:HG22	1.77	0.67
1:FU:80:SER:HB2	1:FV:74:VAL:HG22	1.76	0.67
1:GY:80:SER:HB2	1:GZ:74:VAL:HG22	1.76	0.67
1:JM:106:LYS:HE3	1:JN:128:ILE:HG22	1.77	0.67
1:JV:106:LYS:HE3	1:JW:128:ILE:HG22	1.77	0.67
1:KH:39:PRO:HD3	1:KH:49:VAL:HG22	1.77	0.67
1:KK:80:SER:HB2	1:KL:74:VAL:HG22	1.76	0.67
1:LR:39:PRO:HD3	1:LR:49:VAL:HG22	1.77	0.67
1:NN:80:SER:HB2	1:NO:74:VAL:HG22	1.76	0.67
1:AG:39:PRO:HD3	1:AG:49:VAL:HG22	1.77	0.67
1:AU:39:PRO:HD3	1:AU:49:VAL:HG22	1.74	0.67
1:BM:112:ALA:O	1:EY:49:VAL:HG11	1.94	0.67
1:BZ:106:LYS:HE3	1:CA:128:ILE:HG22	1.77	0.67
1:CI:106:LYS:HE3	1:CJ:128:ILE:HG22	1.77	0.67
1:CX:39:PRO:HD3	1:CX:49:VAL:HG22	1.77	0.67
1:DD:106:LYS:HE3	1:DE:128:ILE:HG22	1.77	0.67
1:DG:39:PRO:HD3	1:DG:49:VAL:HG22	1.77	0.67
1:DL:74:VAL:HG22	1:GX:80:SER:HB2	1.75	0.67
1:EB:39:PRO:HD3	1:EB:49:VAL:HG22	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EL:10:ARG:NH2	1:EQ:15:ASP:OD1	2.27	0.67
1:GG:80:SER:HB2	1:GH:74:VAL:HG22	1.76	0.67
1:GG:106:LYS:HE3	1:GH:128:ILE:HG22	1.77	0.67
1:HD:74:VAL:HG22	1:KP:80:SER:HB2	1.75	0.67
1:HK:106:LYS:HE3	1:HL:128:ILE:HG22	1.77	0.67
1:HN:106:LYS:HE3	1:HO:128:ILE:HG22	1.77	0.67
1:HQ:39:PRO:HD3	1:HQ:49:VAL:HG22	1.77	0.67
1:IF:39:PRO:HD3	1:IF:49:VAL:HG22	1.77	0.67
1:JS:80:SER:HB2	1:JT:74:VAL:HG22	1.76	0.67
1:KT:39:PRO:HD3	1:KT:49:VAL:HG22	1.77	0.67
1:LF:106:LYS:HE3	1:LG:128:ILE:HG22	1.77	0.67
1:LL:39:PRO:HD3	1:LL:49:VAL:HG22	1.77	0.67
1:LS:10:ARG:NH2	1:MD:15:ASP:OD1	2.28	0.67
1:MG:39:PRO:HD3	1:MG:49:VAL:HG22	1.77	0.67
1:NH:39:PRO:HD3	1:NH:49:VAL:HG22	1.77	0.67
1:NN:106:LYS:HE3	1:NO:128:ILE:HG22	1.77	0.67
1:NT:106:LYS:HE3	1:NU:128:ILE:HG22	1.77	0.67
1:AI:74:VAL:HG22	1:DU:80:SER:HB2	1.77	0.67
1:AP:39:PRO:HD3	1:AP:49:VAL:HG22	1.77	0.67
1:AR:112:ALA:O	1:ED:49:VAL:HG11	1.95	0.67
1:BB:80:SER:HB2	1:BC:74:VAL:HG22	1.76	0.67
1:BW:106:LYS:HE3	1:BX:128:ILE:HG22	1.77	0.67
1:CC:106:LYS:HE3	1:CD:128:ILE:HG22	1.77	0.67
1:CR:80:SER:HB2	1:CS:74:VAL:HG22	1.76	0.67
1:DA:39:PRO:HD3	1:DA:49:VAL:HG22	1.77	0.67
1:DL:80:SER:HB2	1:GX:74:VAL:HG22	1.77	0.67
1:EH:39:PRO:HD3	1:EH:49:VAL:HG22	1.76	0.67
1:EQ:80:SER:HB2	1:ER:74:VAL:HG22	1.76	0.67
1:FC:106:LYS:HE3	1:FD:128:ILE:HG22	1.77	0.67
1:FF:106:LYS:HE3	1:FG:128:ILE:HG22	1.77	0.67
1:FR:80:SER:HB2	1:FS:74:VAL:HG22	1.76	0.67
1:GM:106:LYS:HE3	1:GN:128:ILE:HG22	1.77	0.67
1:HY:74:VAL:HG22	1:LK:80:SER:HB2	1.75	0.67
1:HZ:80:SER:HB2	1:IA:74:VAL:HG22	1.76	0.67
1:IR:39:PRO:HD3	1:IR:49:VAL:HG22	1.77	0.67
1:IZ:59:ILE:HD12	1:ML:89:ASP:OD2	1.93	0.67
1:KK:39:PRO:HD3	1:KK:49:VAL:HG22	1.77	0.67
1:AJ:39:PRO:HD3	1:AJ:49:VAL:HG22	1.77	0.67
1:AJ:106:LYS:HE3	1:AK:128:ILE:HG22	1.77	0.67
1:BE:39:PRO:HD3	1:BE:49:VAL:HG22	1.77	0.67
1:BH:39:PRO:HD3	1:BH:49:VAL:HG22	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BV:39:PRO:HD3	1:BV:49:VAL:HG22	1.74	0.67
1:DC:26:VAL:HG21	1:GJ:113:TYR:O	1.93	0.67
1:DD:39:PRO:HD3	1:DD:49:VAL:HG22	1.77	0.67
1:DG:106:LYS:HE3	1:DH:128:ILE:HG22	1.77	0.67
1:DY:80:SER:HB2	1:DZ:74:VAL:HG22	1.76	0.67
1:EH:106:LYS:HE3	1:EI:128:ILE:HG22	1.76	0.67
1:EZ:106:LYS:HE3	1:FA:128:ILE:HG22	1.77	0.67
1:GD:80:SER:HB2	1:GE:74:VAL:HG22	1.76	0.67
1:GJ:39:PRO:HD3	1:GJ:49:VAL:HG22	1.77	0.67
1:GM:80:SER:HB2	1:GN:74:VAL:HG22	1.76	0.67
1:GP:39:PRO:HD3	1:GP:49:VAL:HG22	1.77	0.67
1:GS:39:PRO:HD3	1:GS:49:VAL:HG22	1.77	0.67
1:GV:39:PRO:HD3	1:GV:49:VAL:HG22	1.77	0.67
1:JJ:39:PRO:HD3	1:JJ:49:VAL:HG22	1.77	0.67
1:JM:80:SER:HB2	1:JN:74:VAL:HG22	1.76	0.67
1:KE:80:SER:HB2	1:KF:74:VAL:HG22	1.76	0.67
1:KN:106:LYS:HE3	1:KO:128:ILE:HG22	1.77	0.67
1:KW:39:PRO:HD3	1:KW:49:VAL:HG22	1.77	0.67
1:LO:106:LYS:HE3	1:LP:128:ILE:HG22	1.77	0.67
1:LU:80:SER:HB2	1:LV:74:VAL:HG22	1.76	0.67
1:LX:39:PRO:HD3	1:LX:49:VAL:HG22	1.77	0.67
1:NB:80:SER:HB2	1:NC:74:VAL:HG22	1.76	0.67
1:NE:80:SER:HB2	1:NF:74:VAL:HG22	1.76	0.67
1:AA:80:SER:HB2	1:AB:74:VAL:HG22	1.76	0.67
1:AS:80:SER:HB2	1:AT:74:VAL:HG22	1.76	0.67
1:BC:10:ARG:NH2	1:BQ:15:ASP:OD1	2.28	0.67
1:BK:80:SER:HB2	1:BL:74:VAL:HG22	1.76	0.67
1:CI:80:SER:HB2	1:CJ:74:VAL:HG22	1.76	0.67
1:CL:80:SER:HB2	1:CM:74:VAL:HG22	1.76	0.67
1:CU:106:LYS:HE3	1:CV:128:ILE:HG22	1.77	0.67
1:DF:74:VAL:HG22	1:GR:80:SER:HB2	1.77	0.67
1:DS:80:SER:HB2	1:DT:74:VAL:HG22	1.76	0.67
1:EN:106:LYS:HE3	1:EO:128:ILE:HG22	1.77	0.67
1:FU:39:PRO:HD3	1:FU:49:VAL:HG22	1.77	0.67
1:FX:39:PRO:HD3	1:FX:49:VAL:HG22	1.77	0.67
1:GD:106:LYS:HE3	1:GE:128:ILE:HG22	1.77	0.67
1:GS:80:SER:HB2	1:GT:74:VAL:HG22	1.76	0.67
1:HH:39:PRO:HD3	1:HH:49:VAL:HG22	1.77	0.67
1:HL:38:LEU:HD22	1:IZ:10:ARG:HH21	1.60	0.67
1:HQ:106:LYS:HE3	1:HR:128:ILE:HG22	1.77	0.67
1:HW:80:SER:HB2	1:HX:74:VAL:HG22	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:9:LEU:HG	1:IA:10:ARG:H	1.60	0.67
1:JJ:106:LYS:HE3	1:JK:128:ILE:HG22	1.77	0.67
1:JM:39:PRO:HD3	1:JM:49:VAL:HG22	1.77	0.67
1:JP:80:SER:HB2	1:JQ:74:VAL:HG22	1.76	0.67
1:KH:106:LYS:HE3	1:KI:128:ILE:HG22	1.77	0.67
1:KZ:39:PRO:HD3	1:KZ:49:VAL:HG22	1.77	0.67
1:MD:39:PRO:HD3	1:MD:49:VAL:HG22	1.77	0.67
1:NB:39:PRO:HD3	1:NB:49:VAL:HG22	1.77	0.67
1:AG:80:SER:HB2	1:AH:74:VAL:HG22	1.76	0.67
1:AY:106:LYS:HE3	1:AZ:128:ILE:HG22	1.76	0.67
1:BQ:106:LYS:HE3	1:BR:128:ILE:HG22	1.77	0.67
1:CC:39:PRO:HD3	1:CC:49:VAL:HG22	1.77	0.67
1:CG:9:LEU:HG	1:CG:10:ARG:H	1.60	0.67
1:DM:80:SER:HB2	1:DN:74:VAL:HG22	1.76	0.67
1:DM:106:LYS:HE3	1:DN:128:ILE:HG22	1.76	0.67
1:DY:106:LYS:HE3	1:DZ:128:ILE:HG22	1.76	0.67
1:EE:39:PRO:HD3	1:EE:49:VAL:HG22	1.77	0.67
1:EE:80:SER:HB2	1:EF:74:VAL:HG22	1.76	0.67
1:EZ:39:PRO:HD3	1:EZ:49:VAL:HG22	1.77	0.67
1:FI:39:PRO:HD3	1:FI:49:VAL:HG22	1.77	0.67
1:FI:106:LYS:HE3	1:FJ:128:ILE:HG22	1.77	0.67
1:GP:80:SER:HB2	1:GQ:74:VAL:HG22	1.76	0.67
1:HE:106:LYS:HE3	1:HF:128:ILE:HG22	1.77	0.67
1:IE:104:GLU:OE1	1:LQ:53:ARG:NH1	2.20	0.67
1:IG:9:LEU:HG	1:IG:10:ARG:H	1.60	0.67
1:JD:106:LYS:HE3	1:JE:128:ILE:HG22	1.77	0.67
1:LI:106:LYS:HE3	1:LJ:128:ILE:HG22	1.77	0.67
1:LL:80:SER:HB2	1:LM:74:VAL:HG22	1.76	0.67
1:LR:106:LYS:HE3	1:LS:128:ILE:HG22	1.77	0.67
1:LU:106:LYS:HE3	1:LV:128:ILE:HG22	1.76	0.67
1:MA:39:PRO:HD3	1:MA:49:VAL:HG22	1.77	0.67
1:MJ:39:PRO:HD3	1:MJ:49:VAL:HG22	1.77	0.67
1:NH:106:LYS:HE3	1:NI:128:ILE:HG22	1.77	0.67
1:BE:80:SER:HB2	1:BF:74:VAL:HG22	1.76	0.67
1:BK:39:PRO:HD3	1:BK:49:VAL:HG22	1.77	0.67
1:BX:9:LEU:HG	1:BX:10:ARG:H	1.60	0.67
1:DB:9:LEU:HG	1:DB:10:ARG:H	1.60	0.67
1:DW:9:LEU:HG	1:DW:10:ARG:H	1.60	0.67
1:EF:9:LEU:HG	1:EF:10:ARG:H	1.60	0.67
1:FX:80:SER:HB2	1:FY:74:VAL:HG22	1.76	0.67
1:GA:106:LYS:HE3	1:GB:128:ILE:HG22	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HB:106:LYS:HE3	1:HC:128:ILE:HG22	1.77	0.67
1:HN:39:PRO:HD3	1:HN:49:VAL:HG22	1.77	0.67
1:II:80:SER:HB2	1:IJ:74:VAL:HG22	1.76	0.67
1:JK:9:LEU:HG	1:JK:10:ARG:H	1.60	0.67
1:LI:80:SER:HB2	1:LJ:74:VAL:HG22	1.76	0.67
1:LJ:9:LEU:HG	1:LJ:10:ARG:H	1.60	0.67
1:MY:80:SER:HB2	1:MZ:74:VAL:HG22	1.76	0.67
1:MY:106:LYS:HE3	1:MZ:128:ILE:HG22	1.77	0.67
1:NC:9:LEU:HG	1:NC:10:ARG:H	1.60	0.67
1:NI:9:LEU:HG	1:NI:10:ARG:H	1.60	0.67
1:AB:9:LEU:HG	1:AB:10:ARG:H	1.60	0.67
1:BB:39:PRO:HD3	1:BB:49:VAL:HG22	1.77	0.67
1:BC:9:LEU:HG	1:BC:10:ARG:H	1.60	0.67
1:BR:9:LEU:HG	1:BR:10:ARG:H	1.60	0.67
1:CL:39:PRO:HD3	1:CL:49:VAL:HG22	1.77	0.67
1:CU:39:PRO:HD3	1:CU:49:VAL:HG22	1.77	0.67
1:CX:80:SER:HB2	1:CY:74:VAL:HG22	1.76	0.67
1:DD:80:SER:HB2	1:DE:74:VAL:HG22	1.76	0.67
1:DK:9:LEU:HG	1:DK:10:ARG:H	1.60	0.67
1:EE:106:LYS:HE3	1:EF:128:ILE:HG22	1.77	0.67
1:FA:9:LEU:HG	1:FA:10:ARG:H	1.60	0.67
1:FO:39:PRO:HD3	1:FO:49:VAL:HG22	1.77	0.67
1:GK:9:LEU:HG	1:GK:10:ARG:H	1.60	0.67
1:GZ:38:LEU:HD22	1:IH:10:ARG:HH21	1.60	0.67
1:IS:9:LEU:HG	1:IS:10:ARG:H	1.60	0.67
1:IX:80:SER:HB2	1:IY:74:VAL:HG22	1.76	0.67
1:JA:39:PRO:HD3	1:JA:49:VAL:HG22	1.77	0.67
1:JE:10:ARG:NH2	1:NK:15:ASP:OD1	2.28	0.67
1:KD:80:SER:HB2	1:NP:74:VAL:HG22	1.77	0.67
1:KL:9:LEU:HG	1:KL:10:ARG:H	1.60	0.67
1:KZ:80:SER:HB2	1:LA:74:VAL:HG22	1.76	0.67
1:LV:9:LEU:HG	1:LV:10:ARG:H	1.60	0.67
1:MQ:9:LEU:HG	1:MQ:10:ARG:H	1.60	0.67
1:MV:106:LYS:HE3	1:MW:128:ILE:HG22	1.76	0.67
1:MZ:9:LEU:HG	1:MZ:10:ARG:H	1.60	0.67
1:NK:39:PRO:HD3	1:NK:49:VAL:HG22	1.77	0.67
1:AA:106:LYS:HE3	1:AB:128:ILE:HG22	1.77	0.67
1:AD:39:PRO:HD3	1:AD:49:VAL:HG22	1.77	0.67
1:AE:9:LEU:HG	1:AE:10:ARG:H	1.60	0.67
1:AX:74:VAL:HG22	1:EJ:80:SER:HB2	1.75	0.67
1:BQ:39:PRO:HD3	1:BQ:49:VAL:HG22	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DS:106:LYS:HE3	1:DT:128:ILE:HG22	1.77	0.67
1:EQ:39:PRO:HD3	1:EQ:49:VAL:HG22	1.77	0.67
1:EU:9:LEU:HG	1:EU:10:ARG:H	1.60	0.67
1:EW:80:SER:HB2	1:EX:74:VAL:HG22	1.76	0.67
1:FF:39:PRO:HD3	1:FF:49:VAL:HG22	1.77	0.67
1:FL:39:PRO:HD3	1:FL:49:VAL:HG22	1.77	0.67
1:HC:9:LEU:HG	1:HC:10:ARG:H	1.60	0.67
1:HN:80:SER:HB2	1:HO:74:VAL:HG22	1.76	0.67
1:IX:39:PRO:HD3	1:IX:49:VAL:HG22	1.76	0.67
1:JJ:80:SER:HB2	1:JK:74:VAL:HG22	1.76	0.67
1:KH:80:SER:HB2	1:KI:74:VAL:HG22	1.76	0.67
1:KN:39:PRO:HD3	1:KN:49:VAL:HG22	1.77	0.67
1:KX:9:LEU:HG	1:KX:10:ARG:H	1.60	0.67
1:LD:9:LEU:HG	1:LD:10:ARG:H	1.60	0.67
1:MJ:80:SER:HB2	1:MK:74:VAL:HG22	1.76	0.67
1:NF:9:LEU:HG	1:NF:10:ARG:H	1.60	0.67
1:NT:80:SER:HB2	1:NU:74:VAL:HG22	1.76	0.67
1:AA:39:PRO:HD3	1:AA:49:VAL:HG22	1.77	0.66
1:AD:106:LYS:HE3	1:AE:128:ILE:HG22	1.77	0.66
1:AV:80:SER:HB2	1:AW:74:VAL:HG22	1.76	0.66
1:BL:9:LEU:HG	1:BL:10:ARG:H	1.60	0.66
1:CJ:9:LEU:HG	1:CJ:10:ARG:H	1.60	0.66
1:FC:39:PRO:HD3	1:FC:49:VAL:HG22	1.77	0.66
1:FM:9:LEU:HG	1:FM:10:ARG:H	1.60	0.66
1:FU:106:LYS:HE3	1:FV:128:ILE:HG22	1.77	0.66
1:GN:9:LEU:HG	1:GN:10:ARG:H	1.60	0.66
1:II:106:LYS:HE3	1:IJ:128:ILE:HG22	1.77	0.66
1:JB:9:LEU:HG	1:JB:10:ARG:H	1.60	0.66
1:JT:9:LEU:HG	1:JT:10:ARG:H	1.60	0.66
1:LC:80:SER:HB2	1:LD:74:VAL:HG22	1.76	0.66
1:LR:80:SER:HB2	1:LS:74:VAL:HG22	1.76	0.66
1:MB:9:LEU:HG	1:MB:10:ARG:H	1.60	0.66
1:AV:106:LYS:HE3	1:AW:128:ILE:HG22	1.77	0.66
1:BO:9:LEU:HG	1:BO:10:ARG:H	1.60	0.66
1:CP:9:LEU:HG	1:CP:10:ARG:H	1.60	0.66
1:DE:9:LEU:HG	1:DE:10:ARG:H	1.60	0.66
1:DI:104:GLU:OE1	1:GU:53:ARG:NH1	2.23	0.66
1:DJ:39:PRO:HD3	1:DJ:49:VAL:HG22	1.77	0.66
1:DN:10:ARG:NH2	1:GS:15:ASP:OD1	2.28	0.66
1:DS:39:PRO:HD3	1:DS:49:VAL:HG22	1.77	0.66
1:EH:80:SER:HB2	1:EI:74:VAL:HG22	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EQ:106:LYS:HE3	1:ER:128:ILE:HG22	1.77	0.66
1:EW:106:LYS:HE3	1:EX:128:ILE:HG22	1.76	0.66
1:FG:9:LEU:HG	1:FG:10:ARG:H	1.60	0.66
1:FJ:9:LEU:HG	1:FJ:10:ARG:H	1.60	0.66
1:FO:38:LEU:HB2	1:GW:10:ARG:HH11	1.60	0.66
1:FP:9:LEU:HG	1:FP:10:ARG:H	1.60	0.66
1:FR:39:PRO:HD3	1:FR:49:VAL:HG22	1.77	0.66
1:FS:9:LEU:HG	1:FS:10:ARG:H	1.60	0.66
1:GA:39:PRO:HD3	1:GA:49:VAL:HG22	1.77	0.66
1:GJ:80:SER:HB2	1:GK:74:VAL:HG22	1.76	0.66
1:IF:80:SER:HB2	1:IG:74:VAL:HG22	1.76	0.66
1:JO:57:LYS:NZ	1:NA:92:GLU:OE2	2.25	0.66
1:KB:39:PRO:HD3	1:KB:49:VAL:HG22	1.77	0.66
1:KI:9:LEU:HG	1:KI:10:ARG:H	1.60	0.66
1:NV:21:LEU:HD11	1:NV:55:LEU:HD11	1.78	0.66
1:AR:21:LEU:HD11	1:AR:55:LEU:HD11	1.78	0.66
1:BG:74:VAL:HG22	1:ES:80:SER:HB2	1.77	0.66
1:BN:113:TYR:O	1:EA:26:VAL:HG21	1.95	0.66
1:BY:21:LEU:HD11	1:BY:55:LEU:HD11	1.78	0.66
1:CQ:8:LYS:HB2	1:GC:119:ASP:O	1.95	0.66
1:CX:106:LYS:HE3	1:CY:128:ILE:HG22	1.77	0.66
1:EB:106:LYS:HE3	1:EC:128:ILE:HG22	1.76	0.66
1:EI:10:ARG:NH2	1:EN:15:ASP:OD1	2.28	0.66
1:FE:21:LEU:HD11	1:FE:55:LEU:HD11	1.78	0.66
1:FO:106:LYS:HE3	1:FP:128:ILE:HG22	1.77	0.66
1:GG:39:PRO:HD3	1:GG:49:VAL:HG22	1.77	0.66
1:HT:80:SER:HB2	1:HU:74:VAL:HG22	1.76	0.66
1:HW:39:PRO:HD3	1:HW:49:VAL:HG22	1.77	0.66
1:IP:9:LEU:HG	1:IP:10:ARG:H	1.60	0.66
1:JV:39:PRO:HD3	1:JV:49:VAL:HG22	1.77	0.66
1:KO:9:LEU:HG	1:KO:10:ARG:H	1.60	0.66
1:KQ:80:SER:HB2	1:KR:74:VAL:HG22	1.76	0.66
1:LF:80:SER:HB2	1:LG:74:VAL:HG22	1.76	0.66
1:LH:21:LEU:HD11	1:LH:55:LEU:HD11	1.78	0.66
1:MV:80:SER:HB2	1:MW:74:VAL:HG22	1.76	0.66
1:NO:9:LEU:HG	1:NO:10:ARG:H	1.60	0.66
1:BE:106:LYS:HE3	1:BF:128:ILE:HG22	1.77	0.66
1:CB:21:LEU:HD11	1:CB:55:LEU:HD11	1.78	0.66
1:DA:106:LYS:HE3	1:DB:128:ILE:HG22	1.77	0.66
1:DF:21:LEU:HD11	1:DF:55:LEU:HD11	1.78	0.66
1:DI:119:ASP:O	1:GU:8:LYS:HB2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DM:39:PRO:HD3	1:DM:49:VAL:HG22	1.77	0.66
1:DO:21:LEU:HD11	1:DO:55:LEU:HD11	1.78	0.66
1:EN:39:PRO:HD3	1:EN:49:VAL:HG22	1.77	0.66
1:EW:39:PRO:HD3	1:EW:49:VAL:HG22	1.77	0.66
1:FZ:21:LEU:HD11	1:FZ:55:LEU:HD11	1.78	0.66
1:GE:9:LEU:HG	1:GE:10:ARG:H	1.60	0.66
1:HE:80:SER:HB2	1:HF:74:VAL:HG22	1.76	0.66
1:HJ:21:LEU:HD11	1:HJ:55:LEU:HD11	1.78	0.66
1:HM:21:LEU:HD11	1:HM:55:LEU:HD11	1.78	0.66
1:HW:106:LYS:HE3	1:HX:128:ILE:HG22	1.77	0.66
1:HW:113:TYR:O	1:LH:26:VAL:HG21	1.93	0.66
1:ID:9:LEU:HG	1:ID:10:ARG:H	1.60	0.66
1:IE:21:LEU:HD11	1:IE:55:LEU:HD11	1.78	0.66
1:JA:80:SER:HB2	1:JB:74:VAL:HG22	1.76	0.66
1:JO:21:LEU:HD11	1:JO:55:LEU:HD11	1.78	0.66
1:JP:39:PRO:HD3	1:JP:49:VAL:HG22	1.77	0.66
1:JY:80:SER:HB2	1:JZ:74:VAL:HG22	1.76	0.66
1:KD:21:LEU:HD11	1:KD:55:LEU:HD11	1.78	0.66
1:KT:106:LYS:HE3	1:KU:128:ILE:HG22	1.77	0.66
1:MM:80:SER:HB2	1:MN:74:VAL:HG22	1.76	0.66
1:MP:80:SER:HB2	1:MQ:74:VAL:HG22	1.76	0.66
1:MV:39:PRO:HD3	1:MV:49:VAL:HG22	1.77	0.66
1:NE:106:LYS:HE3	1:NF:128:ILE:HG22	1.77	0.66
1:NK:80:SER:HB2	1:NL:74:VAL:HG22	1.76	0.66
1:NU:9:LEU:HG	1:NU:10:ARG:H	1.60	0.66
1:AL:21:LEU:HD11	1:AL:55:LEU:HD11	1.78	0.66
1:BQ:80:SER:HB2	1:BR:74:VAL:HG22	1.76	0.66
1:BW:80:SER:HB2	1:BX:74:VAL:HG22	1.76	0.66
1:CO:39:PRO:HD3	1:CO:49:VAL:HG22	1.77	0.66
1:CZ:21:LEU:HD11	1:CZ:55:LEU:HD11	1.78	0.66
1:DN:9:LEU:HG	1:DN:10:ARG:H	1.60	0.66
1:EL:9:LEU:HG	1:EL:10:ARG:H	1.60	0.66
1:FI:80:SER:HB2	1:FJ:74:VAL:HG22	1.76	0.66
1:GD:39:PRO:HD3	1:GD:49:VAL:HG22	1.77	0.66
1:GV:106:LYS:HE3	1:GW:128:ILE:HG22	1.77	0.66
1:GX:21:LEU:HD11	1:GX:55:LEU:HD11	1.78	0.66
1:HF:9:LEU:HG	1:HF:10:ARG:H	1.60	0.66
1:HH:106:LYS:HE3	1:HI:128:ILE:HG22	1.77	0.66
1:HI:9:LEU:HG	1:HI:10:ARG:H	1.60	0.66
1:HR:9:LEU:HG	1:HR:10:ARG:H	1.60	0.66
1:HX:9:LEU:HG	1:HX:10:ARG:H	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IC:39:PRO:HD3	1:IC:49:VAL:HG22	1.77	0.66
1:II:39:PRO:HD3	1:II:49:VAL:HG22	1.77	0.66
1:IK:21:LEU:HD11	1:IK:55:LEU:HD11	1.78	0.66
1:IO:39:PRO:HD3	1:IO:49:VAL:HG22	1.77	0.66
1:IU:106:LYS:HE3	1:IV:128:ILE:HG22	1.77	0.66
1:KB:106:LYS:HE3	1:KC:128:ILE:HG22	1.77	0.66
1:LO:39:PRO:HD3	1:LO:49:VAL:HG22	1.77	0.66
1:LX:106:LYS:HE3	1:LY:128:ILE:HG22	1.77	0.66
1:NM:21:LEU:HD11	1:NM:55:LEU:HD11	1.78	0.66
1:NN:39:PRO:HD3	1:NN:49:VAL:HG22	1.77	0.66
1:AO:21:LEU:HD11	1:AO:55:LEU:HD11	1.78	0.66
1:BT:106:LYS:HE3	1:BU:128:ILE:HG22	1.77	0.66
1:CR:39:PRO:HD3	1:CR:49:VAL:HG22	1.77	0.66
1:CW:21:LEU:HD11	1:CW:55:LEU:HD11	1.78	0.66
1:DI:21:LEU:HD11	1:DI:55:LEU:HD11	1.78	0.66
1:GI:21:LEU:HD11	1:GI:55:LEU:HD11	1.78	0.66
1:GP:106:LYS:HE3	1:GQ:128:ILE:HG22	1.77	0.66
1:HK:39:PRO:HD3	1:HK:49:VAL:HG22	1.77	0.66
1:HP:21:LEU:HD11	1:HP:55:LEU:HD11	1.78	0.66
1:IC:106:LYS:HE3	1:ID:128:ILE:HG22	1.77	0.66
1:IL:39:PRO:HD3	1:IL:49:VAL:HG22	1.77	0.66
1:IL:106:LYS:HE3	1:IM:128:ILE:HG22	1.77	0.66
1:IO:106:LYS:HE3	1:IP:128:ILE:HG22	1.77	0.66
1:IY:9:LEU:HG	1:IY:10:ARG:H	1.60	0.66
1:JA:106:LYS:HE3	1:JB:128:ILE:HG22	1.77	0.66
1:JD:80:SER:HB2	1:JE:74:VAL:HG22	1.76	0.66
1:JV:80:SER:HB2	1:JW:74:VAL:HG22	1.76	0.66
1:JY:106:LYS:HE3	1:JZ:128:ILE:HG22	1.77	0.66
1:KQ:106:LYS:HE3	1:KR:128:ILE:HG22	1.77	0.66
1:MM:39:PRO:HD3	1:MM:49:VAL:HG22	1.77	0.66
1:MR:21:LEU:HD11	1:MR:55:LEU:HD11	1.78	0.66
1:MY:39:PRO:HD3	1:MY:49:VAL:HG22	1.76	0.66
1:NP:21:LEU:HD11	1:NP:55:LEU:HD11	1.78	0.66
1:AF:21:LEU:HD11	1:AF:55:LEU:HD11	1.78	0.66
1:AM:106:LYS:HE3	1:AN:128:ILE:HG22	1.77	0.66
1:AT:9:LEU:HG	1:AT:10:ARG:H	1.60	0.66
1:AY:39:PRO:HD3	1:AY:49:VAL:HG22	1.77	0.66
1:BD:21:LEU:HD11	1:BD:55:LEU:HD11	1.78	0.66
1:BK:106:LYS:HE3	1:BL:128:ILE:HG22	1.77	0.66
1:CE:21:LEU:HD11	1:CE:55:LEU:HD11	1.78	0.66
1:CO:80:SER:HB2	1:CP:74:VAL:HG22	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CV:9:LEU:HG	1:CV:10:ARG:H	1.60	0.66
1:DU:21:LEU:HD11	1:DU:55:LEU:HD11	1.78	0.66
1:DZ:9:LEU:HG	1:DZ:10:ARG:H	1.60	0.66
1:ET:106:LYS:HE3	1:EU:128:ILE:HG22	1.77	0.66
1:EX:9:LEU:HG	1:EX:10:ARG:H	1.60	0.66
1:FC:80:SER:HB2	1:FD:74:VAL:HG22	1.76	0.66
1:GA:80:SER:HB2	1:GB:74:VAL:HG22	1.76	0.66
1:GH:9:LEU:HG	1:GH:10:ARG:H	1.60	0.66
1:GT:9:LEU:HG	1:GT:10:ARG:H	1.60	0.66
1:HB:15:ASP:OD1	1:MZ:10:ARG:NH2	2.29	0.66
1:HB:39:PRO:HD3	1:HB:49:VAL:HG22	1.77	0.66
1:HO:9:LEU:HG	1:HO:10:ARG:H	1.60	0.66
1:HQ:80:SER:HB2	1:HR:74:VAL:HG22	1.76	0.66
1:HS:21:LEU:HD11	1:HS:55:LEU:HD11	1.78	0.66
1:HZ:39:PRO:HD3	1:HZ:49:VAL:HG22	1.77	0.66
1:IH:21:LEU:HD11	1:IH:55:LEU:HD11	1.78	0.66
1:IR:106:LYS:HE3	1:IS:128:ILE:HG22	1.76	0.66
1:JI:80:SER:HB2	1:MU:74:VAL:HG22	1.77	0.66
1:JN:9:LEU:HG	1:JN:10:ARG:H	1.60	0.66
1:KM:21:LEU:HD11	1:KM:55:LEU:HD11	1.78	0.66
1:KU:9:LEU:HG	1:KU:10:ARG:H	1.60	0.66
1:LU:39:PRO:HD3	1:LU:49:VAL:HG22	1.77	0.66
1:BF:9:LEU:HG	1:BF:10:ARG:H	1.60	0.66
1:BN:106:LYS:HE3	1:BO:128:ILE:HG22	1.77	0.66
1:BP:21:LEU:HD11	1:BP:55:LEU:HD11	1.78	0.66
1:BS:21:LEU:HD11	1:BS:55:LEU:HD11	1.78	0.66
1:GQ:9:LEU:HG	1:GQ:10:ARG:H	1.60	0.66
1:HL:10:ARG:HH11	1:IX:38:LEU:HB2	1.61	0.66
1:JX:119:ASP:O	1:NJ:8:LYS:HB2	1.95	0.66
1:KR:9:LEU:HG	1:KR:10:ARG:H	1.60	0.66
1:LB:21:LEU:HD11	1:LB:55:LEU:HD11	1.78	0.66
1:MA:106:LYS:HE3	1:MB:128:ILE:HG22	1.77	0.66
1:MG:106:LYS:HE3	1:MH:128:ILE:HG22	1.76	0.66
1:MM:106:LYS:HE3	1:MN:128:ILE:HG22	1.77	0.66
1:MN:9:LEU:HG	1:MN:10:ARG:H	1.60	0.66
1:MO:21:LEU:HD11	1:MO:55:LEU:HD11	1.78	0.66
1:MU:21:LEU:HD11	1:MU:55:LEU:HD11	1.78	0.66
1:MW:9:LEU:HG	1:MW:10:ARG:H	1.60	0.66
1:NR:9:LEU:HG	1:NR:10:ARG:H	1.60	0.66
1:NT:39:PRO:HD3	1:NT:49:VAL:HG22	1.77	0.66
1:AP:106:LYS:HE3	1:AQ:128:ILE:HG22	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:106:LYS:HE3	1:AT:128:ILE:HG22	1.77	0.66
1:BZ:39:PRO:HD3	1:BZ:49:VAL:HG22	1.77	0.66
1:DP:39:PRO:HD3	1:DP:49:VAL:HG22	1.77	0.66
1:DR:21:LEU:HD11	1:DR:55:LEU:HD11	1.78	0.66
1:FB:21:LEU:HD11	1:FB:55:LEU:HD11	1.78	0.66
1:FV:9:LEU:HG	1:FV:10:ARG:H	1.60	0.66
1:GY:106:LYS:HE3	1:GZ:128:ILE:HG22	1.77	0.66
1:GZ:9:LEU:HG	1:GZ:10:ARG:H	1.60	0.66
1:HT:39:PRO:HD3	1:HT:49:VAL:HG22	1.77	0.66
1:IX:106:LYS:HE3	1:IY:128:ILE:HG22	1.77	0.66
1:JF:21:LEU:HD11	1:JF:55:LEU:HD11	1.78	0.66
1:JS:39:PRO:HD3	1:JS:49:VAL:HG22	1.77	0.66
1:JS:106:LYS:HE3	1:JT:128:ILE:HG22	1.76	0.66
1:JY:39:PRO:HD3	1:JY:49:VAL:HG22	1.77	0.66
1:KA:21:LEU:HD11	1:KA:55:LEU:HD11	1.78	0.66
1:LC:106:LYS:HE3	1:LD:128:ILE:HG22	1.77	0.66
1:LM:9:LEU:HG	1:LM:10:ARG:H	1.60	0.66
1:NA:21:LEU:HD11	1:NA:55:LEU:HD11	1.78	0.66
1:NH:80:SER:HB2	1:NI:74:VAL:HG22	1.76	0.66
1:BJ:21:LEU:HD11	1:BJ:55:LEU:HD11	1.78	0.66
1:BN:80:SER:HB2	1:BO:74:VAL:HG22	1.76	0.66
1:CD:9:LEU:HG	1:CD:10:ARG:H	1.60	0.66
1:CI:39:PRO:HD3	1:CI:49:VAL:HG22	1.77	0.66
1:DH:9:LEU:HG	1:DH:10:ARG:H	1.60	0.66
1:EP:21:LEU:HD11	1:EP:55:LEU:HD11	1.78	0.66
1:GJ:106:LYS:HE3	1:GK:128:ILE:HG22	1.76	0.66
1:GL:21:LEU:HD11	1:GL:55:LEU:HD11	1.78	0.66
1:GW:9:LEU:HG	1:GW:10:ARG:H	1.60	0.66
1:HL:9:LEU:HG	1:HL:10:ARG:H	1.60	0.66
1:HT:106:LYS:HE3	1:HU:128:ILE:HG22	1.77	0.66
1:HU:9:LEU:HG	1:HU:10:ARG:H	1.60	0.66
1:HZ:106:LYS:HE3	1:IA:128:ILE:HG22	1.77	0.66
1:JL:21:LEU:HD11	1:JL:55:LEU:HD11	1.78	0.66
1:KG:21:LEU:HD11	1:KG:55:LEU:HD11	1.78	0.66
1:LG:10:ARG:NH2	1:LL:15:ASP:OD1	2.29	0.66
1:MS:106:LYS:HE3	1:MT:128:ILE:HG22	1.77	0.66
1:ND:21:LEU:HD11	1:ND:55:LEU:HD11	1.78	0.66
1:AI:21:LEU:HD11	1:AI:55:LEU:HD11	1.78	0.65
1:AQ:9:LEU:HG	1:AQ:10:ARG:H	1.60	0.65
1:AY:80:SER:HB2	1:AZ:74:VAL:HG22	1.76	0.65
1:BA:21:LEU:HD11	1:BA:55:LEU:HD11	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:21:LEU:HD11	1:BG:55:LEU:HD11	1.78	0.65
1:BT:39:PRO:HD3	1:BT:49:VAL:HG22	1.77	0.65
1:CF:106:LYS:HE3	1:CG:128:ILE:HG22	1.77	0.65
1:CT:21:LEU:HD11	1:CT:55:LEU:HD11	1.78	0.65
1:EC:15:ASP:OD1	1:GC:10:ARG:NH1	2.30	0.65
1:EH:119:ASP:HB3	1:EI:8:LYS:HE3	1.79	0.65
1:ET:39:PRO:HD3	1:ET:49:VAL:HG22	1.77	0.65
1:FY:9:LEU:HG	1:FY:10:ARG:H	1.60	0.65
1:GS:106:LYS:HE3	1:GT:128:ILE:HG22	1.77	0.65
1:GY:39:PRO:HD3	1:GY:49:VAL:HG22	1.77	0.65
1:HV:21:LEU:HD11	1:HV:55:LEU:HD11	1.78	0.65
1:IR:80:SER:HB2	1:IS:74:VAL:HG22	1.76	0.65
1:JH:9:LEU:HG	1:JH:10:ARG:H	1.60	0.65
1:JI:21:LEU:HD11	1:JI:55:LEU:HD11	1.78	0.65
1:KK:106:LYS:HE3	1:KL:128:ILE:HG22	1.77	0.65
1:KW:106:LYS:HE3	1:KX:128:ILE:HG22	1.77	0.65
1:LK:21:LEU:HD11	1:LK:55:LEU:HD11	1.78	0.65
1:LT:21:LEU:HD11	1:LT:55:LEU:HD11	1.78	0.65
1:LY:9:LEU:HG	1:LY:10:ARG:H	1.60	0.65
1:AM:39:PRO:HD3	1:AM:49:VAL:HG22	1.77	0.65
1:AP:80:SER:HB2	1:AQ:74:VAL:HG22	1.76	0.65
1:AS:39:PRO:HD3	1:AS:49:VAL:HG22	1.77	0.65
1:AV:39:PRO:HD3	1:AV:49:VAL:HG22	1.77	0.65
1:AZ:9:LEU:HG	1:AZ:10:ARG:H	1.60	0.65
1:CI:119:ASP:HB3	1:CJ:8:LYS:HE3	1.79	0.65
1:CQ:21:LEU:HD11	1:CQ:55:LEU:HD11	1.78	0.65
1:DP:106:LYS:HE3	1:DQ:128:ILE:HG22	1.77	0.65
1:EB:80:SER:HB2	1:EC:74:VAL:HG22	1.76	0.65
1:EI:9:LEU:HG	1:EI:10:ARG:H	1.60	0.65
1:EK:80:SER:HB2	1:EL:74:VAL:HG22	1.76	0.65
1:GM:39:PRO:HD3	1:GM:49:VAL:HG22	1.77	0.65
1:GR:21:LEU:HD11	1:GR:55:LEU:HD11	1.78	0.65
1:GU:21:LEU:HD11	1:GU:55:LEU:HD11	1.78	0.65
1:HG:21:LEU:HD11	1:HG:55:LEU:HD11	1.78	0.65
1:IB:21:LEU:HD11	1:IB:55:LEU:HD11	1.78	0.65
1:IL:80:SER:HB2	1:IM:74:VAL:HG22	1.76	0.65
1:IT:21:LEU:HD11	1:IT:55:LEU:HD11	1.78	0.65
1:KE:39:PRO:HD3	1:KE:49:VAL:HG22	1.77	0.65
1:KQ:39:PRO:HD3	1:KQ:49:VAL:HG22	1.77	0.65
1:LL:106:LYS:HE3	1:LM:128:ILE:HG22	1.77	0.65
1:LP:9:LEU:HG	1:LP:10:ARG:H	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MG:119:ASP:HB3	1:MH:8:LYS:HE3	1.79	0.65
1:MH:9:LEU:HG	1:MH:10:ARG:H	1.60	0.65
1:ML:21:LEU:HD11	1:ML:55:LEU:HD11	1.78	0.65
1:MP:106:LYS:HE3	1:MQ:128:ILE:HG22	1.77	0.65
1:AX:21:LEU:HD11	1:AX:55:LEU:HD11	1.78	0.65
1:AY:119:ASP:HB3	1:AZ:8:LYS:HE3	1.79	0.65
1:BH:119:ASP:HB3	1:BI:8:LYS:HE3	1.79	0.65
1:BW:39:PRO:HD3	1:BW:49:VAL:HG22	1.77	0.65
1:CY:9:LEU:HG	1:CY:10:ARG:H	1.60	0.65
1:EM:21:LEU:HD11	1:EM:55:LEU:HD11	1.78	0.65
1:ER:9:LEU:HG	1:ER:10:ARG:H	1.60	0.65
1:FX:106:LYS:HE3	1:FY:128:ILE:HG22	1.77	0.65
1:IF:106:LYS:HE3	1:IG:128:ILE:HG22	1.76	0.65
1:KY:21:LEU:HD11	1:KY:55:LEU:HD11	1.78	0.65
1:LA:9:LEU:HG	1:LA:10:ARG:H	1.60	0.65
1:LI:39:PRO:HD3	1:LI:49:VAL:HG22	1.77	0.65
1:LQ:21:LEU:HD11	1:LQ:55:LEU:HD11	1.78	0.65
1:LU:119:ASP:HB3	1:LV:8:LYS:HE3	1.79	0.65
1:MD:106:LYS:HE3	1:ME:128:ILE:HG22	1.77	0.65
1:NJ:21:LEU:HD11	1:NJ:55:LEU:HD11	1.78	0.65
1:NK:106:LYS:HE3	1:NL:128:ILE:HG22	1.77	0.65
1:NN:119:ASP:HB3	1:NO:8:LYS:HE3	1.79	0.65
1:NQ:39:PRO:HD3	1:NQ:49:VAL:HG22	1.77	0.65
1:BV:21:LEU:HD11	1:BV:55:LEU:HD11	1.78	0.65
1:DJ:106:LYS:HE3	1:DK:128:ILE:HG22	1.77	0.65
1:DV:39:PRO:HD3	1:DV:49:VAL:HG22	1.77	0.65
1:EA:21:LEU:HD11	1:EA:55:LEU:HD11	1.78	0.65
1:HA:8:LYS:HB2	1:KM:119:ASP:O	1.97	0.65
1:HL:10:ARG:NH1	1:IX:38:LEU:HB2	2.10	0.65
1:HN:119:ASP:HB3	1:HO:8:LYS:HE3	1.79	0.65
1:IQ:4:ILE:HG23	1:IQ:22:PRO:HG3	1.79	0.65
1:IT:57:LYS:NZ	1:MF:92:GLU:OE2	2.26	0.65
1:JG:106:LYS:HE3	1:JH:128:ILE:HG22	1.77	0.65
1:JY:119:ASP:HB3	1:JZ:8:LYS:HE3	1.79	0.65
1:LS:9:LEU:HG	1:LS:10:ARG:H	1.60	0.65
1:LX:80:SER:HB2	1:LY:74:VAL:HG22	1.76	0.65
1:MX:21:LEU:HD11	1:MX:55:LEU:HD11	1.78	0.65
1:NB:106:LYS:HE3	1:NC:128:ILE:HG22	1.77	0.65
1:AR:4:ILE:HG23	1:AR:22:PRO:HG3	1.79	0.65
1:CN:21:LEU:HD11	1:CN:55:LEU:HD11	1.78	0.65
1:CO:106:LYS:HE3	1:CP:128:ILE:HG22	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CR:106:LYS:HE3	1:CS:128:ILE:HG22	1.77	0.65
1:DX:21:LEU:HD11	1:DX:55:LEU:HD11	1.78	0.65
1:DY:39:PRO:HD3	1:DY:49:VAL:HG22	1.77	0.65
1:EG:21:LEU:HD11	1:EG:55:LEU:HD11	1.78	0.65
1:FF:119:ASP:HB3	1:FG:8:LYS:HE3	1.79	0.65
1:FN:21:LEU:HD11	1:FN:55:LEU:HD11	1.78	0.65
1:FZ:4:ILE:HG23	1:FZ:22:PRO:HG3	1.79	0.65
1:GJ:119:ASP:HB3	1:GK:8:LYS:HE3	1.79	0.65
1:GY:119:ASP:HB3	1:GZ:8:LYS:HE3	1.79	0.65
1:HB:119:ASP:HB3	1:HC:8:LYS:HE3	1.79	0.65
1:HY:21:LEU:HD11	1:HY:55:LEU:HD11	1.78	0.65
1:IJ:9:LEU:HG	1:IJ:10:ARG:H	1.60	0.65
1:IL:119:ASP:HB3	1:IM:8:LYS:HE3	1.79	0.65
1:IZ:57:LYS:NZ	1:ML:92:GLU:OE2	2.25	0.65
1:JD:39:PRO:HD3	1:JD:49:VAL:HG22	1.77	0.65
1:JE:9:LEU:HG	1:JE:10:ARG:H	1.60	0.65
1:KC:9:LEU:HG	1:KC:10:ARG:H	1.60	0.65
1:LC:119:ASP:HB3	1:LD:8:LYS:HE3	1.79	0.65
1:MD:80:SER:HB2	1:ME:74:VAL:HG22	1.76	0.65
1:MV:119:ASP:HB3	1:MW:8:LYS:HE3	1.79	0.65
1:NE:39:PRO:HD3	1:NE:49:VAL:HG22	1.77	0.65
1:NS:4:ILE:HG23	1:NS:22:PRO:HG3	1.79	0.65
1:AC:53:ARG:NH1	1:DO:104:GLU:OE1	2.25	0.65
1:AC:57:LYS:HZ1	1:DO:92:GLU:CD	1.99	0.65
1:AO:74:VAL:HG22	1:EA:80:SER:HB2	1.78	0.65
1:BN:39:PRO:HD3	1:BN:49:VAL:HG22	1.77	0.65
1:BQ:119:ASP:HB3	1:BR:8:LYS:HE3	1.79	0.65
1:BU:9:LEU:HG	1:BU:10:ARG:H	1.60	0.65
1:CA:9:LEU:HG	1:CA:10:ARG:H	1.60	0.65
1:CC:119:ASP:HB3	1:CD:8:LYS:HE3	1.78	0.65
1:CF:39:PRO:HD3	1:CF:49:VAL:HG22	1.77	0.65
1:CS:9:LEU:HG	1:CS:10:ARG:H	1.60	0.65
1:CZ:49:VAL:HG11	1:GL:112:ALA:O	1.96	0.65
1:DQ:9:LEU:HG	1:DQ:10:ARG:H	1.60	0.65
1:EO:9:LEU:HG	1:EO:10:ARG:H	1.60	0.65
1:ES:21:LEU:HD11	1:ES:55:LEU:HD11	1.78	0.65
1:EZ:80:SER:HB2	1:FA:74:VAL:HG22	1.76	0.65
1:FR:106:LYS:HE3	1:FS:128:ILE:HG22	1.77	0.65
1:FW:4:ILE:HG23	1:FW:22:PRO:HG3	1.79	0.65
1:GO:4:ILE:HG23	1:GO:22:PRO:HG3	1.79	0.65
1:HH:119:ASP:HB3	1:HI:8:LYS:HE3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HQ:119:ASP:HB3	1:HR:8:LYS:HE3	1.79	0.65
1:IU:39:PRO:HD3	1:IU:49:VAL:HG22	1.77	0.65
1:JC:21:LEU:HD11	1:JC:55:LEU:HD11	1.78	0.65
1:JQ:9:LEU:HG	1:JQ:10:ARG:H	1.60	0.65
1:KE:119:ASP:HB3	1:KF:8:LYS:HE3	1.79	0.65
1:KS:4:ILE:HG23	1:KS:22:PRO:HG3	1.79	0.65
1:MI:21:LEU:HD11	1:MI:55:LEU:HD11	1.78	0.65
1:MJ:106:LYS:HE3	1:MK:128:ILE:HG22	1.77	0.65
1:NB:119:ASP:HB3	1:NC:8:LYS:HE3	1.79	0.65
1:NV:4:ILE:HG23	1:NV:22:PRO:HG3	1.79	0.65
1:AH:9:LEU:HG	1:AH:10:ARG:H	1.60	0.65
1:AJ:119:ASP:HB3	1:AK:8:LYS:HE3	1.79	0.65
1:AN:9:LEU:HG	1:AN:10:ARG:H	1.60	0.65
1:BM:4:ILE:HG23	1:BM:22:PRO:HG3	1.79	0.65
1:CH:4:ILE:HG23	1:CH:22:PRO:HG3	1.79	0.65
1:CH:21:LEU:HD11	1:CH:55:LEU:HD11	1.78	0.65
1:CM:9:LEU:HG	1:CM:10:ARG:H	1.60	0.65
1:CQ:4:ILE:HG23	1:CQ:22:PRO:HG3	1.79	0.65
1:DF:49:VAL:HG11	1:GR:112:ALA:O	1.96	0.65
1:DT:9:LEU:HG	1:DT:10:ARG:H	1.60	0.65
1:EQ:119:ASP:HB3	1:ER:8:LYS:HE3	1.79	0.65
1:ET:119:ASP:HB3	1:EU:8:LYS:HE3	1.79	0.65
1:GV:119:ASP:HB3	1:GW:8:LYS:HE3	1.79	0.65
1:HD:4:ILE:HG23	1:HD:22:PRO:HG3	1.79	0.65
1:HK:119:ASP:HB3	1:HL:8:LYS:HE3	1.79	0.65
1:IN:74:VAL:HG22	1:LZ:80:SER:HB2	1.78	0.65
1:JF:49:VAL:HG11	1:MR:112:ALA:O	1.96	0.65
1:JS:119:ASP:HB3	1:JT:8:LYS:HE3	1.79	0.65
1:JX:4:ILE:HG23	1:JX:22:PRO:HG3	1.79	0.65
1:LR:119:ASP:HB3	1:LS:8:LYS:HE3	1.79	0.65
1:LX:119:ASP:HB3	1:LY:8:LYS:HE3	1.79	0.65
1:MT:9:LEU:HG	1:MT:10:ARG:H	1.60	0.65
1:NG:21:LEU:HD11	1:NG:55:LEU:HD11	1.78	0.65
1:AK:9:LEU:HG	1:AK:10:ARG:H	1.60	0.65
1:AU:21:LEU:HD11	1:AU:55:LEU:HD11	1.78	0.65
1:BY:49:VAL:HG11	1:FK:112:ALA:O	1.97	0.65
1:DC:4:ILE:HG23	1:DC:22:PRO:HG3	1.79	0.65
1:DX:4:ILE:HG23	1:DX:22:PRO:HG3	1.79	0.65
1:FR:119:ASP:HB3	1:FS:8:LYS:HE3	1.79	0.65
1:GL:4:ILE:HG23	1:GL:22:PRO:HG3	1.79	0.65
1:GX:4:ILE:HG23	1:GX:22:PRO:HG3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HT:119:ASP:HB3	1:HU:8:LYS:HE3	1.79	0.65
1:HV:4:ILE:HG23	1:HV:22:PRO:HG3	1.79	0.65
1:IM:9:LEU:HG	1:IM:10:ARG:H	1.60	0.65
1:IW:4:ILE:HG23	1:IW:22:PRO:HG3	1.79	0.65
1:JG:39:PRO:HD3	1:JG:49:VAL:HG22	1.77	0.65
1:JM:15:ASP:OD1	1:KI:10:ARG:NH2	2.30	0.65
1:KD:4:ILE:HG23	1:KD:22:PRO:HG3	1.79	0.65
1:KJ:4:ILE:HG23	1:KJ:22:PRO:HG3	1.79	0.65
1:LG:9:LEU:HG	1:LG:10:ARG:H	1.60	0.65
1:ME:9:LEU:HG	1:ME:10:ARG:H	1.60	0.65
1:ML:4:ILE:HG23	1:ML:22:PRO:HG3	1.79	0.65
1:NL:9:LEU:HG	1:NL:10:ARG:H	1.60	0.65
1:CL:106:LYS:HE3	1:CM:128:ILE:HG22	1.77	0.65
1:EG:4:ILE:HG23	1:EG:22:PRO:HG3	1.79	0.65
1:EJ:4:ILE:HG23	1:EJ:22:PRO:HG3	1.79	0.65
1:EM:4:ILE:HG23	1:EM:22:PRO:HG3	1.79	0.65
1:EV:4:ILE:HG23	1:EV:22:PRO:HG3	1.79	0.65
1:FX:119:ASP:HB3	1:FY:8:LYS:HE3	1.79	0.65
1:GO:21:LEU:HD11	1:GO:55:LEU:HD11	1.78	0.65
1:GS:119:ASP:HB3	1:GT:8:LYS:HE3	1.79	0.65
1:HG:4:ILE:CG1	1:KS:125:ASP:HB2	2.27	0.65
1:HM:53:ARG:NH1	1:KY:104:GLU:OE1	2.23	0.65
1:HS:4:ILE:HG23	1:HS:22:PRO:HG3	1.79	0.65
1:IN:4:ILE:HG23	1:IN:22:PRO:HG3	1.79	0.65
1:IZ:4:ILE:HG23	1:IZ:22:PRO:HG3	1.79	0.65
1:JU:4:ILE:HG23	1:JU:22:PRO:HG3	1.79	0.65
1:JW:9:LEU:HG	1:JW:10:ARG:H	1.60	0.65
1:JX:112:ALA:O	1:NJ:49:VAL:HG11	1.97	0.65
1:KV:4:ILE:HG23	1:KV:22:PRO:HG3	1.79	0.65
1:LW:21:LEU:HD11	1:LW:55:LEU:HD11	1.78	0.65
1:MM:119:ASP:HB3	1:MN:8:LYS:HE3	1.79	0.65
1:MS:39:PRO:HD3	1:MS:49:VAL:HG22	1.77	0.65
1:AG:119:ASP:HB3	1:AH:8:LYS:HE3	1.79	0.65
1:AO:49:VAL:HG11	1:EA:112:ALA:O	1.97	0.65
1:BA:4:ILE:HG23	1:BA:22:PRO:HG3	1.79	0.65
1:BI:9:LEU:HG	1:BI:10:ARG:H	1.60	0.65
1:BM:21:LEU:HD11	1:BM:55:LEU:HD11	1.78	0.65
1:CK:4:ILE:HG23	1:CK:22:PRO:HG3	1.79	0.65
1:CT:4:ILE:HG23	1:CT:22:PRO:HG3	1.79	0.65
1:DD:119:ASP:HB3	1:DE:8:LYS:HE3	1.79	0.65
1:DM:119:ASP:HB3	1:DN:8:LYS:HE3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EC:9:LEU:HG	1:EC:10:ARG:H	1.60	0.65
1:ED:21:LEU:HD11	1:ED:55:LEU:HD11	1.78	0.65
1:FT:4:ILE:HG23	1:FT:22:PRO:HG3	1.79	0.65
1:FU:119:ASP:HB3	1:FV:8:LYS:HE3	1.79	0.65
1:GA:119:ASP:HB3	1:GB:8:LYS:HE3	1.79	0.65
1:GC:21:LEU:HD11	1:GC:55:LEU:HD11	1.78	0.65
1:GF:21:LEU:HD11	1:GF:55:LEU:HD11	1.78	0.65
1:HZ:119:ASP:HB3	1:IA:8:LYS:HE3	1.79	0.65
1:IW:21:LEU:HD11	1:IW:55:LEU:HD11	1.78	0.65
1:JI:4:ILE:HG23	1:JI:22:PRO:HG3	1.79	0.65
1:KE:106:LYS:HE3	1:KF:128:ILE:HG22	1.77	0.65
1:KJ:57:LYS:HZ1	1:NV:92:GLU:CD	2.00	0.65
1:KN:119:ASP:HB3	1:KO:8:LYS:HE3	1.79	0.65
1:KP:21:LEU:HD11	1:KP:55:LEU:HD11	1.78	0.65
1:LB:4:ILE:HG23	1:LB:22:PRO:HG3	1.79	0.65
1:LC:39:PRO:HD3	1:LC:49:VAL:HG22	1.77	0.65
1:LF:39:PRO:HD3	1:LF:49:VAL:HG22	1.77	0.65
1:LH:4:ILE:HG23	1:LH:22:PRO:HG3	1.79	0.65
1:LM:10:ARG:NH1	1:MG:38:LEU:HB2	2.12	0.65
1:MO:4:ILE:HG23	1:MO:22:PRO:HG3	1.79	0.65
1:NG:4:ILE:HG23	1:NG:22:PRO:HG3	1.79	0.65
1:NQ:119:ASP:HB3	1:NR:8:LYS:HE3	1.79	0.65
1:AW:9:LEU:HG	1:AW:10:ARG:H	1.60	0.64
1:CF:119:ASP:HB3	1:CG:8:LYS:HE3	1.79	0.64
1:DY:119:ASP:HB3	1:DZ:8:LYS:HE3	1.79	0.64
1:EB:119:ASP:HB3	1:EC:8:LYS:HE3	1.79	0.64
1:FC:119:ASP:HB3	1:FD:8:LYS:HE3	1.79	0.64
1:FE:4:ILE:HG23	1:FE:22:PRO:HG3	1.79	0.64
1:FK:21:LEU:HD11	1:FK:55:LEU:HD11	1.78	0.64
1:GG:119:ASP:HB3	1:GH:8:LYS:HE3	1.79	0.64
1:IE:92:GLU:CD	1:LQ:57:LYS:HZ3	2.01	0.64
1:IF:119:ASP:HB3	1:IG:8:LYS:HE3	1.79	0.64
1:JF:52:MET:HG2	1:JF:78:GLU:HG3	1.80	0.64
1:JO:53:ARG:NH1	1:NA:104:GLU:OE1	2.24	0.64
1:JZ:9:LEU:HG	1:JZ:10:ARG:H	1.60	0.64
1:KG:74:VAL:HG22	1:NS:80:SER:HB2	1.79	0.64
1:KJ:52:MET:HG2	1:KJ:78:GLU:HG3	1.80	0.64
1:KQ:119:ASP:HB3	1:KR:8:LYS:HE3	1.79	0.64
1:KY:4:ILE:HG23	1:KY:22:PRO:HG3	1.79	0.64
1:LN:21:LEU:HD11	1:LN:55:LEU:HD11	1.78	0.64
1:MJ:119:ASP:HB3	1:MK:8:LYS:HE3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:21:LEU:HD11	1:AC:55:LEU:HD11	1.78	0.64
1:BI:10:ARG:NH2	1:BN:15:ASP:OD1	2.30	0.64
1:CN:4:ILE:HG23	1:CN:22:PRO:HG3	1.79	0.64
1:CT:52:MET:HG2	1:CT:78:GLU:HG3	1.80	0.64
1:DC:21:LEU:HD11	1:DC:55:LEU:HD11	1.78	0.64
1:DV:119:ASP:HB3	1:DW:8:LYS:HE3	1.79	0.64
1:EJ:21:LEU:HD11	1:EJ:55:LEU:HD11	1.78	0.64
1:EK:119:ASP:HB3	1:EL:8:LYS:HE3	1.79	0.64
1:EY:21:LEU:HD11	1:EY:55:LEU:HD11	1.78	0.64
1:GD:119:ASP:HB3	1:GE:8:LYS:HE3	1.79	0.64
1:GM:119:ASP:HB3	1:GN:8:LYS:HE3	1.79	0.64
1:HE:39:PRO:HD3	1:HE:49:VAL:HG22	1.77	0.64
1:II:119:ASP:HB3	1:IJ:8:LYS:HE3	1.79	0.64
1:KM:52:MET:HG2	1:KM:78:GLU:HG3	1.80	0.64
1:KZ:119:ASP:HB3	1:LA:8:LYS:HE3	1.79	0.64
1:LA:15:ASP:OD1	1:NA:10:ARG:NH1	2.30	0.64
1:LO:119:ASP:HB3	1:LP:8:LYS:HE3	1.79	0.64
1:MI:4:ILE:HG23	1:MI:22:PRO:HG3	1.79	0.64
1:MK:9:LEU:HG	1:MK:10:ARG:H	1.60	0.64
1:BJ:52:MET:HG2	1:BJ:78:GLU:HG3	1.80	0.64
1:BR:38:LEU:HD22	1:ED:10:ARG:HH21	1.62	0.64
1:CQ:57:LYS:HZ3	1:GC:92:GLU:CD	2.01	0.64
1:DC:52:MET:HG2	1:DC:78:GLU:HG3	1.80	0.64
1:DI:52:MET:HG2	1:DI:78:GLU:HG3	1.80	0.64
1:DR:4:ILE:HG23	1:DR:22:PRO:HG3	1.79	0.64
1:EV:21:LEU:HD11	1:EV:55:LEU:HD11	1.78	0.64
1:EZ:38:LEU:HB2	1:FM:10:ARG:NH1	2.12	0.64
1:FE:52:MET:HG2	1:FE:78:GLU:HG3	1.80	0.64
1:FW:21:LEU:HD11	1:FW:55:LEU:HD11	1.78	0.64
1:GB:9:LEU:HG	1:GB:10:ARG:H	1.60	0.64
1:GF:52:MET:HG2	1:GF:78:GLU:HG3	1.80	0.64
1:HM:74:VAL:HG22	1:KY:80:SER:HB2	1.80	0.64
1:IZ:21:LEU:HD11	1:IZ:55:LEU:HD11	1.78	0.64
1:KG:4:ILE:HG23	1:KG:22:PRO:HG3	1.79	0.64
1:MF:21:LEU:HD11	1:MF:55:LEU:HD11	1.78	0.64
1:AD:119:ASP:HB3	1:AE:8:LYS:HE3	1.79	0.64
1:AI:4:ILE:HG23	1:AI:22:PRO:HG3	1.79	0.64
1:AX:52:MET:HG2	1:AX:78:GLU:HG3	1.80	0.64
1:BG:4:ILE:HG23	1:BG:22:PRO:HG3	1.79	0.64
1:BG:52:MET:HG2	1:BG:78:GLU:HG3	1.80	0.64
1:BP:104:GLU:OE1	1:FB:53:ARG:NH1	2.21	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:10:ARG:NH2	1:DD:15:ASP:OD1	2.31	0.64
1:DO:4:ILE:HG23	1:DO:22:PRO:HG3	1.79	0.64
1:DS:119:ASP:HB3	1:DT:8:LYS:HE3	1.79	0.64
1:FH:4:ILE:HG23	1:FH:22:PRO:HG3	1.79	0.64
1:FI:119:ASP:HB3	1:FJ:8:LYS:HE3	1.79	0.64
1:GR:4:ILE:HG23	1:GR:22:PRO:HG3	1.79	0.64
1:GR:52:MET:HG2	1:GR:78:GLU:HG3	1.80	0.64
1:HA:119:ASP:O	1:KM:8:LYS:HB2	1.97	0.64
1:HS:80:SER:HB2	1:LE:74:VAL:HG22	1.80	0.64
1:IC:119:ASP:HB3	1:ID:8:LYS:HE3	1.79	0.64
1:IW:8:LYS:HB2	1:MI:119:ASP:O	1.97	0.64
1:JC:106:LYS:NZ	1:MO:129:THR:O	2.31	0.64
1:JO:52:MET:HG2	1:JO:78:GLU:HG3	1.80	0.64
1:JP:119:ASP:HB3	1:JQ:8:LYS:HE3	1.79	0.64
1:KD:52:MET:HG2	1:KD:78:GLU:HG3	1.80	0.64
1:KJ:21:LEU:HD11	1:KJ:55:LEU:HD11	1.78	0.64
1:KS:21:LEU:HD11	1:KS:55:LEU:HD11	1.78	0.64
1:KS:52:MET:HG2	1:KS:78:GLU:HG3	1.80	0.64
1:KT:119:ASP:HB3	1:KU:8:LYS:HE3	1.79	0.64
1:LH:52:MET:HG2	1:LH:78:GLU:HG3	1.80	0.64
1:MF:52:MET:HG2	1:MF:78:GLU:HG3	1.80	0.64
1:MP:39:PRO:HD3	1:MP:49:VAL:HG22	1.77	0.64
1:ND:4:ILE:HG23	1:ND:22:PRO:HG3	1.79	0.64
1:AU:52:MET:HG2	1:AU:78:GLU:HG3	1.80	0.64
1:AV:119:ASP:HB3	1:AW:8:LYS:HE3	1.79	0.64
1:BV:4:ILE:HG23	1:BV:22:PRO:HG3	1.79	0.64
1:BV:52:MET:HG2	1:BV:78:GLU:HG3	1.80	0.64
1:BZ:119:ASP:HB3	1:CA:8:LYS:HE3	1.79	0.64
1:DP:119:ASP:HB3	1:DQ:8:LYS:HE3	1.79	0.64
1:EB:113:TYR:O	1:GC:26:VAL:HG21	1.96	0.64
1:EN:119:ASP:HB3	1:EO:8:LYS:HE3	1.79	0.64
1:FD:9:LEU:HG	1:FD:10:ARG:H	1.60	0.64
1:FH:21:LEU:HD11	1:FH:55:LEU:HD11	1.78	0.64
1:FQ:4:ILE:HG23	1:FQ:22:PRO:HG3	1.79	0.64
1:HA:21:LEU:HD11	1:HA:55:LEU:HD11	1.78	0.64
1:HE:119:ASP:HB3	1:HF:8:LYS:HE3	1.79	0.64
1:HG:4:ILE:HG23	1:HG:22:PRO:HG3	1.79	0.64
1:IE:52:MET:HG2	1:IE:78:GLU:HG3	1.80	0.64
1:IH:52:MET:HG2	1:IH:78:GLU:HG3	1.80	0.64
1:IN:9:LEU:HB2	1:IN:20:THR:HG23	1.80	0.64
1:IV:9:LEU:HG	1:IV:10:ARG:H	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IZ:57:LYS:HZ1	1:ML:92:GLU:CD	2.01	0.64
1:JX:21:LEU:HD11	1:JX:55:LEU:HD11	1.78	0.64
1:KG:9:LEU:HB2	1:KG:20:THR:HG23	1.80	0.64
1:KH:119:ASP:HB3	1:KI:8:LYS:HE3	1.79	0.64
1:KV:21:LEU:HD11	1:KV:55:LEU:HD11	1.78	0.64
1:KY:52:MET:HG2	1:KY:78:GLU:HG3	1.80	0.64
1:LE:21:LEU:HD11	1:LE:55:LEU:HD11	1.78	0.64
1:LT:52:MET:HG2	1:LT:78:GLU:HG3	1.80	0.64
1:LZ:21:LEU:HD11	1:LZ:55:LEU:HD11	1.78	0.64
1:ND:52:MET:HG2	1:ND:78:GLU:HG3	1.80	0.64
1:NM:52:MET:HG2	1:NM:78:GLU:HG3	1.80	0.64
1:BJ:4:ILE:HG23	1:BJ:22:PRO:HG3	1.79	0.64
1:BJ:9:LEU:HB2	1:BJ:20:THR:HG23	1.80	0.64
1:BM:9:LEU:HB2	1:BM:20:THR:HG23	1.80	0.64
1:BY:74:VAL:HG22	1:FK:80:SER:HB2	1.80	0.64
1:CE:9:LEU:HB2	1:CE:20:THR:HG23	1.80	0.64
1:DL:4:ILE:HG23	1:DL:22:PRO:HG3	1.79	0.64
1:DS:114:SER:HA	1:GR:26:VAL:HG21	1.80	0.64
1:ES:9:LEU:HB2	1:ES:20:THR:HG23	1.80	0.64
1:FZ:9:LEU:HB2	1:FZ:20:THR:HG23	1.80	0.64
1:HD:21:LEU:HD11	1:HD:55:LEU:HD11	1.78	0.64
1:HS:9:LEU:HB2	1:HS:20:THR:HG23	1.80	0.64
1:HY:52:MET:HG2	1:HY:78:GLU:HG3	1.80	0.64
1:IE:80:SER:HB2	1:LQ:74:VAL:HG22	1.79	0.64
1:IE:112:ALA:O	1:LQ:49:VAL:HG11	1.98	0.64
1:IN:21:LEU:HD11	1:IN:55:LEU:HD11	1.78	0.64
1:IT:9:LEU:HB2	1:IT:20:THR:HG23	1.80	0.64
1:JL:4:ILE:HG23	1:JL:22:PRO:HG3	1.79	0.64
1:KG:112:ALA:O	1:NS:49:VAL:HG11	1.97	0.64
1:KP:52:MET:HG2	1:KP:78:GLU:HG3	1.80	0.64
1:MX:9:LEU:HB2	1:MX:20:THR:HG23	1.80	0.64
1:MY:119:ASP:HB3	1:MZ:8:LYS:HE3	1.79	0.64
1:AF:52:MET:HG2	1:AF:78:GLU:HG3	1.80	0.64
1:AO:4:ILE:HG23	1:AO:22:PRO:HG3	1.79	0.64
1:BD:9:LEU:HB2	1:BD:20:THR:HG23	1.80	0.64
1:BT:119:ASP:HB3	1:BU:8:LYS:HE3	1.79	0.64
1:BW:119:ASP:HB3	1:BX:8:LYS:HE3	1.79	0.64
1:CB:125:ASP:HB2	1:FN:4:ILE:CG1	2.28	0.64
1:CH:26:VAL:HG21	1:CL:113:TYR:O	1.98	0.64
1:CK:21:LEU:HD11	1:CK:55:LEU:HD11	1.78	0.64
1:CZ:74:VAL:HG22	1:GL:80:SER:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DU:4:ILE:HG23	1:DU:22:PRO:HG3	1.79	0.64
1:EG:9:LEU:HB2	1:EG:20:THR:HG23	1.80	0.64
1:ES:4:ILE:HG23	1:ES:22:PRO:HG3	1.79	0.64
1:FB:52:MET:HG2	1:FB:78:GLU:HG3	1.80	0.64
1:FN:9:LEU:HB2	1:FN:20:THR:HG23	1.80	0.64
1:FQ:21:LEU:HD11	1:FQ:55:LEU:HD11	1.78	0.64
1:GC:52:MET:HG2	1:GC:78:GLU:HG3	1.80	0.64
1:GX:9:LEU:HB2	1:GX:20:THR:HG23	1.80	0.64
1:HJ:4:ILE:HG23	1:HJ:22:PRO:HG3	1.79	0.64
1:HP:119:ASP:O	1:LB:8:LYS:HB2	1.97	0.64
1:IQ:9:LEU:HB2	1:IQ:20:THR:HG23	1.80	0.64
1:IT:119:ASP:O	1:MF:8:LYS:HB2	1.98	0.64
1:JD:119:ASP:HB3	1:JE:8:LYS:HE3	1.79	0.64
1:JV:119:ASP:HB3	1:JW:8:LYS:HE3	1.79	0.64
1:LE:9:LEU:HB2	1:LE:20:THR:HG23	1.80	0.64
1:LN:52:MET:HG2	1:LN:78:GLU:HG3	1.80	0.64
1:LT:4:ILE:HG23	1:LT:22:PRO:HG3	1.79	0.64
1:MI:9:LEU:HB2	1:MI:20:THR:HG23	1.80	0.64
1:MS:119:ASP:HB3	1:MT:8:LYS:HE3	1.79	0.64
1:MU:4:ILE:HG23	1:MU:22:PRO:HG3	1.79	0.64
1:NA:9:LEU:HB2	1:NA:20:THR:HG23	1.80	0.64
1:AA:119:ASP:HB3	1:AB:8:LYS:HE3	1.79	0.64
1:AI:52:MET:HG2	1:AI:78:GLU:HG3	1.80	0.64
1:AL:52:MET:HG2	1:AL:78:GLU:HG3	1.80	0.64
1:AP:119:ASP:HB3	1:AQ:8:LYS:HE3	1.79	0.64
1:AR:52:MET:HG2	1:AR:78:GLU:HG3	1.80	0.64
1:AS:119:ASP:HB3	1:AT:8:LYS:HE3	1.79	0.64
1:AV:113:TYR:O	1:EG:26:VAL:HG21	1.98	0.64
1:BK:119:ASP:HB3	1:BL:8:LYS:HE3	1.79	0.64
1:BP:9:LEU:HB2	1:BP:20:THR:HG23	1.80	0.64
1:CB:9:LEU:HB2	1:CB:20:THR:HG23	1.80	0.64
1:DJ:119:ASP:HB3	1:DK:8:LYS:HE3	1.79	0.64
1:ED:52:MET:HG2	1:ED:78:GLU:HG3	1.80	0.64
1:EM:52:MET:HG2	1:EM:78:GLU:HG3	1.80	0.64
1:EY:4:ILE:HG23	1:EY:22:PRO:HG3	1.79	0.64
1:FB:4:ILE:HG23	1:FB:22:PRO:HG3	1.79	0.64
1:FE:9:LEU:HB2	1:FE:20:THR:HG23	1.80	0.64
1:FQ:52:MET:HG2	1:FQ:78:GLU:HG3	1.80	0.64
1:HA:4:ILE:HG23	1:HA:22:PRO:HG3	1.79	0.64
1:IZ:52:MET:HG2	1:IZ:78:GLU:HG3	1.80	0.64
1:JC:52:MET:HG2	1:JC:78:GLU:HG3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JR:4:ILE:HG23	1:JR:22:PRO:HG3	1.79	0.64
1:JR:21:LEU:HD11	1:JR:55:LEU:HD11	1.78	0.64
1:JU:21:LEU:HD11	1:JU:55:LEU:HD11	1.78	0.64
1:KB:119:ASP:HB3	1:KC:8:LYS:HE3	1.79	0.64
1:LB:9:LEU:HB2	1:LB:20:THR:HG23	1.80	0.64
1:LB:52:MET:HG2	1:LB:78:GLU:HG3	1.80	0.64
1:LK:4:ILE:HG23	1:LK:22:PRO:HG3	1.79	0.64
1:NA:4:ILE:HG23	1:NA:22:PRO:HG3	1.79	0.64
1:AI:9:LEU:HB2	1:AI:20:THR:HG23	1.80	0.64
1:AL:9:LEU:HB2	1:AL:20:THR:HG23	1.80	0.64
1:BB:119:ASP:HB3	1:BC:8:LYS:HE3	1.79	0.64
1:BS:9:LEU:HB2	1:BS:20:THR:HG23	1.80	0.64
1:CB:4:ILE:HG23	1:CB:22:PRO:HG3	1.79	0.64
1:DL:21:LEU:HD11	1:DL:55:LEU:HD11	1.78	0.64
1:DU:9:LEU:HB2	1:DU:20:THR:HG23	1.80	0.64
1:EE:119:ASP:HB3	1:EF:8:LYS:HE3	1.79	0.64
1:EJ:9:LEU:HB2	1:EJ:20:THR:HG23	1.80	0.64
1:EP:9:LEU:HB2	1:EP:20:THR:HG23	1.80	0.64
1:FH:52:MET:HG2	1:FH:78:GLU:HG3	1.80	0.64
1:FT:52:MET:HG2	1:FT:78:GLU:HG3	1.80	0.64
1:HG:9:LEU:HB2	1:HG:20:THR:HG23	1.80	0.64
1:HP:9:LEU:HB2	1:HP:20:THR:HG23	1.80	0.64
1:HY:49:VAL:HG11	1:LK:112:ALA:O	1.98	0.64
1:IB:4:ILE:HG23	1:IB:22:PRO:HG3	1.79	0.64
1:IE:4:ILE:HG23	1:IE:22:PRO:HG3	1.79	0.64
1:IK:9:LEU:HB2	1:IK:20:THR:HG23	1.80	0.64
1:IO:119:ASP:HB3	1:IP:8:LYS:HE3	1.79	0.64
1:IQ:21:LEU:HD11	1:IQ:55:LEU:HD11	1.78	0.64
1:IT:57:LYS:HZ3	1:MF:92:GLU:CD	2.00	0.64
1:JI:52:MET:HG2	1:JI:78:GLU:HG3	1.80	0.64
1:KF:9:LEU:HG	1:KF:10:ARG:H	1.60	0.64
1:LZ:4:ILE:HG23	1:LZ:22:PRO:HG3	1.79	0.64
1:NK:119:ASP:HB3	1:NL:8:LYS:HE3	1.79	0.64
1:AM:119:ASP:HB3	1:AN:8:LYS:HE3	1.79	0.64
1:AQ:10:ARG:HH11	1:BT:38:LEU:HD22	1.62	0.64
1:AX:4:ILE:HG23	1:AX:22:PRO:HG3	1.79	0.64
1:BE:119:ASP:HB3	1:BF:8:LYS:HE3	1.79	0.64
1:CK:9:LEU:HB2	1:CK:20:THR:HG23	1.80	0.64
1:CX:119:ASP:HB3	1:CY:8:LYS:HE3	1.79	0.64
1:DF:4:ILE:HG23	1:DF:22:PRO:HG3	1.79	0.64
1:DG:119:ASP:HB3	1:DH:8:LYS:HE3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ED:4:ILE:HG23	1:ED:22:PRO:HG3	1.79	0.64
1:ES:52:MET:HG2	1:ES:78:GLU:HG3	1.80	0.64
1:EY:52:MET:HG2	1:EY:78:GLU:HG3	1.80	0.64
1:FH:9:LEU:HB2	1:FH:20:THR:HG23	1.80	0.64
1:FK:4:ILE:HG23	1:FK:22:PRO:HG3	1.79	0.64
1:FK:52:MET:HG2	1:FK:78:GLU:HG3	1.80	0.64
1:GP:119:ASP:HB3	1:GQ:8:LYS:HE3	1.79	0.64
1:GU:4:ILE:HG23	1:GU:22:PRO:HG3	1.79	0.64
1:HJ:52:MET:HG2	1:HJ:78:GLU:HG3	1.80	0.64
1:HY:9:LEU:HB2	1:HY:20:THR:HG23	1.80	0.64
1:IW:80:SER:HB2	1:MI:74:VAL:HG22	1.80	0.64
1:JO:9:LEU:HB2	1:JO:20:THR:HG23	1.80	0.64
1:JX:52:MET:HG2	1:JX:78:GLU:HG3	1.80	0.64
1:KY:9:LEU:HB2	1:KY:20:THR:HG23	1.80	0.64
1:KZ:113:TYR:O	1:NA:26:VAL:HG21	1.98	0.64
1:LW:9:LEU:HB2	1:LW:20:THR:HG23	1.80	0.64
1:MP:119:ASP:HB3	1:MQ:8:LYS:HE3	1.79	0.64
1:NP:9:LEU:HB2	1:NP:20:THR:HG23	1.80	0.64
1:NS:52:MET:HG2	1:NS:78:GLU:HG3	1.80	0.64
1:AF:4:ILE:HG23	1:AF:22:PRO:HG3	1.79	0.63
1:AO:52:MET:HG2	1:AO:78:GLU:HG3	1.80	0.63
1:BS:4:ILE:HG23	1:BS:22:PRO:HG3	1.79	0.63
1:DI:4:ILE:HG23	1:DI:22:PRO:HG3	1.79	0.63
1:EC:10:ARG:NH2	1:GA:15:ASP:OD1	2.31	0.63
1:EZ:119:ASP:HB3	1:FA:8:LYS:HE3	1.79	0.63
1:FL:119:ASP:HB3	1:FM:8:LYS:HE3	1.79	0.63
1:GC:4:ILE:HG23	1:GC:22:PRO:HG3	1.79	0.63
1:HN:10:ARG:NH2	1:HP:15:ASP:HA	2.14	0.63
1:IQ:52:MET:HG2	1:IQ:78:GLU:HG3	1.80	0.63
1:IW:9:LEU:HB2	1:IW:20:THR:HG23	1.80	0.63
1:JR:74:VAL:HG22	1:ND:80:SER:HB2	1.79	0.63
1:KK:119:ASP:HB3	1:KL:8:LYS:HE3	1.79	0.63
1:KV:9:LEU:HB2	1:KV:20:THR:HG23	1.80	0.63
1:LI:119:ASP:HB3	1:LJ:8:LYS:HE3	1.79	0.63
1:LN:4:ILE:HG23	1:LN:22:PRO:HG3	1.79	0.63
1:MC:4:ILE:HG23	1:MC:22:PRO:HG3	1.79	0.63
1:NA:52:MET:HG2	1:NA:78:GLU:HG3	1.80	0.63
1:NE:10:ARG:NH2	1:NG:15:ASP:HA	2.14	0.63
1:NM:4:ILE:HG23	1:NM:22:PRO:HG3	1.79	0.63
1:NP:4:ILE:HG23	1:NP:22:PRO:HG3	1.79	0.63
1:NS:9:LEU:HB2	1:NS:20:THR:HG23	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:4:ILE:HG23	1:AL:22:PRO:HG3	1.79	0.63
1:AO:9:LEU:HB2	1:AO:20:THR:HG23	1.80	0.63
1:AU:9:LEU:HB2	1:AU:20:THR:HG23	1.80	0.63
1:BK:10:ARG:NH2	1:BM:15:ASP:HA	2.14	0.63
1:BW:10:ARG:NH2	1:BY:15:ASP:HA	2.14	0.63
1:BZ:10:ARG:NH2	1:CB:15:ASP:HA	2.14	0.63
1:CC:10:ARG:NH2	1:CE:15:ASP:HA	2.14	0.63
1:CI:10:ARG:NH2	1:CK:15:ASP:HA	2.14	0.63
1:CN:52:MET:HG2	1:CN:78:GLU:HG3	1.80	0.63
1:CU:10:ARG:NH2	1:CW:15:ASP:HA	2.14	0.63
1:CW:4:ILE:HG23	1:CW:22:PRO:HG3	1.79	0.63
1:DC:10:ARG:NH1	1:GK:15:ASP:OD1	2.31	0.63
1:DG:10:ARG:NH2	1:DI:15:ASP:HA	2.14	0.63
1:ET:10:ARG:NH2	1:EV:15:ASP:HA	2.14	0.63
1:EW:10:ARG:NH2	1:EY:15:ASP:HA	2.14	0.63
1:FX:10:ARG:NH2	1:FZ:15:ASP:HA	2.14	0.63
1:GD:10:ARG:NH2	1:GF:15:ASP:HA	2.14	0.63
1:HD:52:MET:HG2	1:HD:78:GLU:HG3	1.80	0.63
1:HJ:92:GLU:OE2	1:KV:57:LYS:NZ	2.30	0.63
1:HP:4:ILE:HG23	1:HP:22:PRO:HG3	1.79	0.63
1:HY:4:ILE:HG23	1:HY:22:PRO:HG3	1.79	0.63
1:IB:92:GLU:OE2	1:LN:57:LYS:NZ	2.28	0.63
1:IE:9:LEU:HB2	1:IE:20:THR:HG23	1.80	0.63
1:IH:4:ILE:HG23	1:IH:22:PRO:HG3	1.79	0.63
1:JA:10:ARG:NH2	1:JC:15:ASP:HA	2.14	0.63
1:JA:119:ASP:HB3	1:JB:8:LYS:HE3	1.79	0.63
1:JJ:119:ASP:HB3	1:JK:8:LYS:HE3	1.79	0.63
1:JX:9:LEU:HB2	1:JX:20:THR:HG23	1.80	0.63
1:KM:4:ILE:HG23	1:KM:22:PRO:HG3	1.79	0.63
1:KP:4:ILE:HG23	1:KP:22:PRO:HG3	1.79	0.63
1:KW:119:ASP:HB3	1:KX:8:LYS:HE3	1.79	0.63
1:LE:4:ILE:HG23	1:LE:22:PRO:HG3	1.79	0.63
1:LT:9:LEU:HB2	1:LT:20:THR:HG23	1.80	0.63
1:MA:119:ASP:HB3	1:MB:8:LYS:HE3	1.79	0.63
1:MF:4:ILE:HG23	1:MF:22:PRO:HG3	1.79	0.63
1:MX:4:ILE:HG23	1:MX:22:PRO:HG3	1.79	0.63
1:NJ:4:ILE:HG23	1:NJ:22:PRO:HG3	1.79	0.63
1:NS:21:LEU:HD11	1:NS:55:LEU:HD11	1.78	0.63
1:NV:52:MET:HG2	1:NV:78:GLU:HG3	1.80	0.63
1:AF:9:LEU:HB2	1:AF:20:THR:HG23	1.80	0.63
1:AM:10:ARG:NH2	1:AO:15:ASP:HA	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:10:ARG:NH2	1:AU:15:ASP:HA	2.14	0.63
1:BY:9:LEU:HB2	1:BY:20:THR:HG23	1.80	0.63
1:CU:119:ASP:HB3	1:CV:8:LYS:HE3	1.79	0.63
1:CW:9:LEU:HB2	1:CW:20:THR:HG23	1.80	0.63
1:DA:119:ASP:HB3	1:DB:8:LYS:HE3	1.79	0.63
1:DD:10:ARG:NH2	1:DF:15:ASP:HA	2.14	0.63
1:DU:52:MET:HG2	1:DU:78:GLU:HG3	1.80	0.63
1:EK:10:ARG:NH2	1:EM:15:ASP:HA	2.14	0.63
1:EW:119:ASP:HB3	1:EX:8:LYS:HE3	1.79	0.63
1:FC:10:ARG:NH2	1:FE:15:ASP:HA	2.14	0.63
1:FL:10:ARG:NH2	1:FN:15:ASP:HA	2.14	0.63
1:FO:119:ASP:HB3	1:FP:8:LYS:HE3	1.79	0.63
1:GV:10:ARG:NH2	1:GX:15:ASP:HA	2.14	0.63
1:HG:52:MET:HG2	1:HG:78:GLU:HG3	1.80	0.63
1:JM:10:ARG:NH2	1:JO:15:ASP:HA	2.14	0.63
1:JR:49:VAL:HG11	1:ND:112:ALA:O	1.97	0.63
1:JU:52:MET:HG2	1:JU:78:GLU:HG3	1.80	0.63
1:KA:9:LEU:HB2	1:KA:20:THR:HG23	1.80	0.63
1:KN:10:ARG:NH2	1:KP:15:ASP:HA	2.14	0.63
1:LO:10:ARG:NH2	1:LQ:15:ASP:HA	2.14	0.63
1:MC:21:LEU:HD11	1:MC:55:LEU:HD11	1.78	0.63
1:MM:10:ARG:NH2	1:MO:15:ASP:HA	2.14	0.63
1:MR:9:LEU:HB2	1:MR:20:THR:HG23	1.80	0.63
1:MU:52:MET:HG2	1:MU:78:GLU:HG3	1.80	0.63
1:NG:9:LEU:HB2	1:NG:20:THR:HG23	1.80	0.63
1:NM:9:LEU:HB2	1:NM:20:THR:HG23	1.80	0.63
1:NT:119:ASP:HB3	1:NU:8:LYS:HE3	1.79	0.63
1:AC:9:LEU:HB2	1:AC:20:THR:HG23	1.80	0.63
1:AJ:10:ARG:NH2	1:AL:15:ASP:HA	2.14	0.63
1:AX:9:LEU:HB2	1:AX:20:THR:HG23	1.80	0.63
1:AX:80:SER:HB2	1:EJ:74:VAL:HG22	1.79	0.63
1:BB:10:ARG:NH2	1:BD:15:ASP:HA	2.14	0.63
1:BM:74:VAL:HG22	1:EY:80:SER:HB2	1.79	0.63
1:BP:52:MET:HG2	1:BP:78:GLU:HG3	1.80	0.63
1:BV:9:LEU:HB2	1:BV:20:THR:HG23	1.80	0.63
1:CE:4:ILE:HG23	1:CE:22:PRO:HG3	1.79	0.63
1:CN:9:LEU:HB2	1:CN:20:THR:HG23	1.80	0.63
1:CR:119:ASP:HB3	1:CS:8:LYS:HE3	1.79	0.63
1:CZ:52:MET:HG2	1:CZ:78:GLU:HG3	1.80	0.63
1:DL:9:LEU:HB2	1:DL:20:THR:HG23	1.80	0.63
1:DY:10:ARG:NH2	1:EA:15:ASP:HA	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:4:ILE:HG23	1:EA:22:PRO:HG3	1.79	0.63
1:EA:52:MET:HG2	1:EA:78:GLU:HG3	1.80	0.63
1:EZ:10:ARG:NH2	1:FB:15:ASP:HA	2.14	0.63
1:FN:4:ILE:HG23	1:FN:22:PRO:HG3	1.79	0.63
1:GF:4:ILE:HG23	1:GF:22:PRO:HG3	1.79	0.63
1:GF:9:LEU:HB2	1:GF:20:THR:HG23	1.80	0.63
1:GX:52:MET:HG2	1:GX:78:GLU:HG3	1.80	0.63
1:HA:57:LYS:NZ	1:KM:92:GLU:OE2	2.31	0.63
1:HQ:10:ARG:NH2	1:HS:15:ASP:HA	2.14	0.63
1:IT:4:ILE:HG23	1:IT:22:PRO:HG3	1.79	0.63
1:IZ:92:GLU:OE2	1:ML:57:LYS:NZ	2.28	0.63
1:JC:4:ILE:HG23	1:JC:22:PRO:HG3	1.79	0.63
1:JH:10:ARG:NH2	1:NE:15:ASP:OD1	2.31	0.63
1:KA:4:ILE:HG23	1:KA:22:PRO:HG3	1.79	0.63
1:KD:49:VAL:HG11	1:NP:112:ALA:O	1.97	0.63
1:LF:10:ARG:NH2	1:LH:15:ASP:HA	2.14	0.63
1:LH:9:LEU:HB2	1:LH:20:THR:HG23	1.80	0.63
1:LL:10:ARG:NH2	1:LN:15:ASP:HA	2.13	0.63
1:LU:10:ARG:NH2	1:LW:15:ASP:HA	2.14	0.63
1:LW:4:ILE:HG23	1:LW:22:PRO:HG3	1.79	0.63
1:LZ:9:LEU:HB2	1:LZ:20:THR:HG23	1.80	0.63
1:NE:119:ASP:HB3	1:NF:8:LYS:HE3	1.79	0.63
1:NH:119:ASP:HB3	1:NI:8:LYS:HE3	1.79	0.63
1:CO:119:ASP:HB3	1:CP:8:LYS:HE3	1.79	0.63
1:CY:66:ALA:HB1	1:DK:66:ALA:CB	2.28	0.63
1:DA:10:ARG:NH2	1:DC:15:ASP:HA	2.14	0.63
1:DG:38:LEU:HG	1:DG:39:PRO:HD2	1.81	0.63
1:DJ:10:ARG:NH2	1:DL:15:ASP:HA	2.14	0.63
1:DS:10:ARG:NH2	1:DU:15:ASP:HA	2.14	0.63
1:EV:52:MET:HG2	1:EV:78:GLU:HG3	1.80	0.63
1:FT:21:LEU:HD11	1:FT:55:LEU:HD11	1.78	0.63
1:FW:9:LEU:HB2	1:FW:20:THR:HG23	1.80	0.63
1:FW:52:MET:HG2	1:FW:78:GLU:HG3	1.80	0.63
1:GJ:10:ARG:NH2	1:GL:15:ASP:HA	2.14	0.63
1:HB:10:ARG:NH2	1:HD:15:ASP:HA	2.14	0.63
1:HE:10:ARG:NH2	1:HG:15:ASP:HA	2.14	0.63
1:HT:10:ARG:NH2	1:HV:15:ASP:HA	2.14	0.63
1:HV:52:MET:HG2	1:HV:78:GLU:HG3	1.80	0.63
1:HW:119:ASP:HB3	1:HX:8:LYS:HE3	1.79	0.63
1:IC:10:ARG:NH2	1:IE:15:ASP:HA	2.14	0.63
1:IQ:92:GLU:OE2	1:MC:57:LYS:NZ	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IR:10:ARG:NH2	1:IT:15:ASP:HA	2.14	0.63
1:IS:10:ARG:NH1	1:KK:38:LEU:HB2	2.13	0.63
1:IU:119:ASP:HB3	1:IV:8:LYS:HE3	1.79	0.63
1:JM:119:ASP:HB3	1:JN:8:LYS:HE3	1.79	0.63
1:JR:9:LEU:HB2	1:JR:20:THR:HG23	1.80	0.63
1:KH:10:ARG:NH2	1:KJ:15:ASP:HA	2.14	0.63
1:KJ:9:LEU:HB2	1:KJ:20:THR:HG23	1.80	0.63
1:LE:52:MET:HG2	1:LE:78:GLU:HG3	1.80	0.63
1:LZ:52:MET:HG2	1:LZ:78:GLU:HG3	1.80	0.63
1:MD:119:ASP:HB3	1:ME:8:LYS:HE3	1.79	0.63
1:MR:26:VAL:HG21	1:NN:113:TYR:O	1.98	0.63
1:MY:10:ARG:NH2	1:NA:15:ASP:HA	2.14	0.63
1:NH:10:ARG:NH2	1:NJ:15:ASP:HA	2.14	0.63
1:AX:112:ALA:O	1:EJ:49:VAL:HG11	1.98	0.63
1:BG:9:LEU:HB2	1:BG:20:THR:HG23	1.80	0.63
1:BN:10:ARG:NH2	1:BP:15:ASP:HA	2.14	0.63
1:CH:52:MET:HG2	1:CH:78:GLU:HG3	1.80	0.63
1:CK:80:SER:HB2	1:FW:74:VAL:HG22	1.81	0.63
1:CL:119:ASP:HB3	1:CM:8:LYS:HE3	1.79	0.63
1:DY:38:LEU:HG	1:DY:39:PRO:HD2	1.81	0.63
1:EO:10:ARG:HH11	1:FI:38:LEU:HB2	1.62	0.63
1:EW:15:ASP:OD1	1:FJ:10:ARG:NH2	2.32	0.63
1:FQ:9:LEU:HB2	1:FQ:20:THR:HG23	1.80	0.63
1:GI:4:ILE:HG23	1:GI:22:PRO:HG3	1.79	0.63
1:GU:52:MET:HG2	1:GU:78:GLU:HG3	1.80	0.63
1:IB:92:GLU:CD	1:LN:57:LYS:HZ1	2.02	0.63
1:IZ:9:LEU:HB2	1:IZ:20:THR:HG23	1.80	0.63
1:JO:4:ILE:HG23	1:JO:22:PRO:HG3	1.79	0.63
1:JV:113:TYR:O	1:KJ:26:VAL:HG21	1.98	0.63
1:JY:10:ARG:NH2	1:KA:15:ASP:HA	2.14	0.63
1:LC:10:ARG:NH2	1:LE:15:ASP:HA	2.14	0.63
1:LI:10:ARG:NH2	1:LK:15:ASP:HA	2.14	0.63
1:LQ:4:ILE:HG23	1:LQ:22:PRO:HG3	1.79	0.63
1:MC:52:MET:HG2	1:MC:78:GLU:HG3	1.80	0.63
1:MR:4:ILE:HG23	1:MR:22:PRO:HG3	1.79	0.63
1:NB:38:LEU:HG	1:NB:39:PRO:HD2	1.81	0.63
1:AO:57:LYS:NZ	1:EA:92:GLU:OE2	2.27	0.63
1:AU:4:ILE:HG23	1:AU:22:PRO:HG3	1.79	0.63
1:BD:4:ILE:HG23	1:BD:22:PRO:HG3	1.79	0.63
1:BE:10:ARG:NH2	1:BG:15:ASP:HA	2.14	0.63
1:BQ:38:LEU:HG	1:BQ:39:PRO:HD2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BT:38:LEU:HG	1:BT:39:PRO:HD2	1.81	0.63
1:CF:38:LEU:HG	1:CF:39:PRO:HD2	1.81	0.63
1:CO:38:LEU:HG	1:CO:39:PRO:HD2	1.81	0.63
1:CQ:52:MET:HG2	1:CQ:78:GLU:HG3	1.80	0.63
1:CR:10:ARG:NH2	1:CT:15:ASP:HA	2.14	0.63
1:CT:9:LEU:HB2	1:CT:20:THR:HG23	1.80	0.63
1:CX:38:LEU:HG	1:CX:39:PRO:HD2	1.81	0.63
1:DA:38:LEU:HG	1:DA:39:PRO:HD2	1.81	0.63
1:DM:10:ARG:NH2	1:DO:15:ASP:HA	2.14	0.63
1:DO:9:LEU:HB2	1:DO:20:THR:HG23	1.80	0.63
1:EG:52:MET:HG2	1:EG:78:GLU:HG3	1.80	0.63
1:EN:10:ARG:NH2	1:EP:15:ASP:HA	2.14	0.63
1:EY:9:LEU:HB2	1:EY:20:THR:HG23	1.80	0.63
1:FF:10:ARG:NH2	1:FH:15:ASP:HA	2.14	0.63
1:GA:10:ARG:NH2	1:GC:15:ASP:HA	2.14	0.63
1:HA:52:MET:HG2	1:HA:78:GLU:HG3	1.80	0.63
1:HK:10:ARG:NH2	1:HM:15:ASP:HA	2.14	0.63
1:JF:57:LYS:HZ1	1:MR:92:GLU:CD	2.02	0.63
1:JG:10:ARG:NH2	1:JI:15:ASP:HA	2.14	0.63
1:JG:38:LEU:HG	1:JG:39:PRO:HD2	1.81	0.63
1:JV:38:LEU:HG	1:JV:39:PRO:HD2	1.81	0.63
1:JZ:10:ARG:NH2	1:KB:15:ASP:OD1	2.32	0.63
1:KA:80:SER:HB2	1:NM:74:VAL:HG22	1.80	0.63
1:KM:9:LEU:HB2	1:KM:20:THR:HG23	1.80	0.63
1:KZ:10:ARG:NH2	1:LB:15:ASP:HA	2.14	0.63
1:LK:52:MET:HG2	1:LK:78:GLU:HG3	1.80	0.63
1:LL:38:LEU:HG	1:LL:39:PRO:HD2	1.81	0.63
1:LL:119:ASP:HB3	1:LM:8:LYS:HE3	1.79	0.63
1:LX:10:ARG:NH2	1:LZ:15:ASP:HA	2.14	0.63
1:LX:15:ASP:OD1	1:MK:10:ARG:NH2	2.32	0.63
1:LX:38:LEU:HG	1:LX:39:PRO:HD2	1.81	0.63
1:MF:9:LEU:HB2	1:MF:20:THR:HG23	1.80	0.63
1:MS:38:LEU:HG	1:MS:39:PRO:HD2	1.81	0.63
1:MV:38:LEU:HG	1:MV:39:PRO:HD2	1.81	0.63
1:NV:9:LEU:HB2	1:NV:20:THR:HG23	1.80	0.63
1:AP:10:ARG:NH2	1:AR:15:ASP:HA	2.14	0.63
1:BY:4:ILE:HG23	1:BY:22:PRO:HG3	1.79	0.63
1:CK:52:MET:HG2	1:CK:78:GLU:HG3	1.80	0.63
1:CZ:9:LEU:HB2	1:CZ:20:THR:HG23	1.80	0.63
1:DS:38:LEU:HG	1:DS:39:PRO:HD2	1.81	0.63
1:EP:4:ILE:HG23	1:EP:22:PRO:HG3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FI:38:LEU:HG	1:FI:39:PRO:HD2	1.81	0.63
1:GC:9:LEU:HB2	1:GC:20:THR:HG23	1.80	0.63
1:GG:10:ARG:NH2	1:GI:15:ASP:HA	2.14	0.63
1:GR:9:LEU:HB2	1:GR:20:THR:HG23	1.80	0.63
1:HM:52:MET:HG2	1:HM:78:GLU:HG3	1.80	0.63
1:HV:104:GLU:OE1	1:LH:53:ARG:NH1	2.23	0.63
1:IK:4:ILE:HG23	1:IK:22:PRO:HG3	1.79	0.63
1:JI:74:VAL:HG22	1:MU:80:SER:HB2	1.80	0.63
1:JP:10:ARG:NH2	1:JR:15:ASP:HA	2.14	0.63
1:JR:52:MET:HG2	1:JR:78:GLU:HG3	1.80	0.63
1:LF:38:LEU:HG	1:LF:39:PRO:HD2	1.81	0.63
1:MV:10:ARG:NH2	1:MX:15:ASP:HA	2.14	0.63
1:MX:52:MET:HG2	1:MX:78:GLU:HG3	1.80	0.63
1:NK:10:ARG:NH2	1:NM:15:ASP:HA	2.14	0.63
1:NK:38:LEU:HG	1:NK:39:PRO:HD2	1.81	0.63
1:AA:10:ARG:NH2	1:AC:15:ASP:HA	2.14	0.63
1:AV:10:ARG:NH2	1:AX:15:ASP:HA	2.14	0.63
1:AY:10:ARG:NH2	1:BA:15:ASP:HA	2.14	0.63
1:BE:113:TYR:O	1:BM:26:VAL:HG21	1.99	0.63
1:BH:38:LEU:HG	1:BH:39:PRO:HD2	1.81	0.63
1:BY:52:MET:HG2	1:BY:78:GLU:HG3	1.80	0.63
1:CF:10:ARG:NH2	1:CH:15:ASP:HA	2.14	0.63
1:CV:10:ARG:NH2	1:DG:15:ASP:OD1	2.32	0.63
1:DF:9:LEU:HB2	1:DF:20:THR:HG23	1.80	0.63
1:DI:9:LEU:HB2	1:DI:20:THR:HG23	1.80	0.63
1:DV:38:LEU:HG	1:DV:39:PRO:HD2	1.81	0.63
1:EB:10:ARG:NH2	1:ED:15:ASP:HA	2.14	0.63
1:EP:52:MET:HG2	1:EP:78:GLU:HG3	1.80	0.63
1:FN:52:MET:HG2	1:FN:78:GLU:HG3	1.80	0.63
1:GS:10:ARG:NH2	1:GU:15:ASP:HA	2.14	0.63
1:GU:9:LEU:HB2	1:GU:20:THR:HG23	1.80	0.63
1:GV:38:LEU:HG	1:GV:39:PRO:HD2	1.81	0.63
1:HK:38:LEU:HG	1:HK:39:PRO:HD2	1.81	0.63
1:IB:52:MET:HG2	1:IB:78:GLU:HG3	1.80	0.63
1:IC:38:LEU:HG	1:IC:39:PRO:HD2	1.81	0.63
1:IR:119:ASP:HB3	1:IS:8:LYS:HE3	1.79	0.63
1:IW:52:MET:HG2	1:IW:78:GLU:HG3	1.80	0.63
1:IX:10:ARG:NH2	1:IZ:15:ASP:HA	2.14	0.63
1:JD:10:ARG:NH2	1:JF:15:ASP:HA	2.14	0.63
1:JD:38:LEU:HG	1:JD:39:PRO:HD2	1.81	0.63
1:JF:9:LEU:HB2	1:JF:20:THR:HG23	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JJ:10:ARG:NH2	1:JL:15:ASP:HA	2.14	0.63
1:KQ:38:LEU:HG	1:KQ:39:PRO:HD2	1.81	0.63
1:LQ:52:MET:HG2	1:LQ:78:GLU:HG3	1.80	0.63
1:LW:52:MET:HG2	1:LW:78:GLU:HG3	1.80	0.63
1:MJ:10:ARG:NH2	1:ML:15:ASP:HA	2.14	0.63
1:MS:10:ARG:NH2	1:MU:15:ASP:HA	2.14	0.63
1:NN:10:ARG:NH2	1:NP:15:ASP:HA	2.14	0.63
1:AF:112:ALA:O	1:DR:49:VAL:HG11	1.98	0.62
1:AY:38:LEU:HG	1:AY:39:PRO:HD2	1.81	0.62
1:BA:9:LEU:HB2	1:BA:20:THR:HG23	1.80	0.62
1:BA:52:MET:HG2	1:BA:78:GLU:HG3	1.80	0.62
1:BM:52:MET:HG2	1:BM:78:GLU:HG3	1.80	0.62
1:BP:4:ILE:HG23	1:BP:22:PRO:HG3	1.79	0.62
1:CL:38:LEU:HG	1:CL:39:PRO:HD2	1.81	0.62
1:CU:38:LEU:HG	1:CU:39:PRO:HD2	1.81	0.62
1:CZ:4:ILE:HG23	1:CZ:22:PRO:HG3	1.79	0.62
1:DF:52:MET:HG2	1:DF:78:GLU:HG3	1.80	0.62
1:DP:10:ARG:NH2	1:DR:15:ASP:HA	2.14	0.62
1:DP:38:LEU:HG	1:DP:39:PRO:HD2	1.81	0.62
1:EJ:52:MET:HG2	1:EJ:78:GLU:HG3	1.80	0.62
1:FU:38:LEU:HG	1:FU:39:PRO:HD2	1.81	0.62
1:FX:38:LEU:HG	1:FX:39:PRO:HD2	1.81	0.62
1:GI:9:LEU:HB2	1:GI:20:THR:HG23	1.80	0.62
1:GO:9:LEU:HB2	1:GO:20:THR:HG23	1.80	0.62
1:GY:10:ARG:NH2	1:HA:15:ASP:HA	2.14	0.62
1:HA:9:LEU:HB2	1:HA:20:THR:HG23	1.80	0.62
1:HS:52:MET:HG2	1:HS:78:GLU:HG3	1.80	0.62
1:HW:10:ARG:NH2	1:HY:15:ASP:HA	2.14	0.62
1:IL:10:ARG:NH2	1:IN:15:ASP:HA	2.14	0.62
1:IN:52:MET:HG2	1:IN:78:GLU:HG3	1.80	0.62
1:IO:10:ARG:NH2	1:IQ:15:ASP:HA	2.14	0.62
1:IT:52:MET:HG2	1:IT:78:GLU:HG3	1.80	0.62
1:IX:38:LEU:HG	1:IX:39:PRO:HD2	1.81	0.62
1:JA:38:LEU:HG	1:JA:39:PRO:HD2	1.81	0.62
1:JF:4:ILE:HG23	1:JF:22:PRO:HG3	1.79	0.62
1:JL:9:LEU:HB2	1:JL:20:THR:HG23	1.80	0.62
1:KK:10:ARG:NH2	1:KM:15:ASP:HA	2.14	0.62
1:KQ:10:ARG:NH2	1:KS:15:ASP:HA	2.14	0.62
1:LO:38:LEU:HG	1:LO:39:PRO:HD2	1.81	0.62
1:MA:38:LEU:HG	1:MA:39:PRO:HD2	1.81	0.62
1:MC:10:ARG:NH1	1:ME:15:ASP:OD1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ML:52:MET:HG2	1:ML:78:GLU:HG3	1.80	0.62
1:MO:9:LEU:HB2	1:MO:20:THR:HG23	1.80	0.62
1:NG:52:MET:HG2	1:NG:78:GLU:HG3	1.80	0.62
1:NJ:52:MET:HG2	1:NJ:78:GLU:HG3	1.80	0.62
1:NP:52:MET:HG2	1:NP:78:GLU:HG3	1.80	0.62
1:AC:4:ILE:HG23	1:AC:22:PRO:HG3	1.79	0.62
1:AP:38:LEU:HG	1:AP:39:PRO:HD2	1.81	0.62
1:AR:9:LEU:HB2	1:AR:20:THR:HG23	1.80	0.62
1:BD:52:MET:HG2	1:BD:78:GLU:HG3	1.80	0.62
1:BE:38:LEU:HG	1:BE:39:PRO:HD2	1.81	0.62
1:DJ:38:LEU:HG	1:DJ:39:PRO:HD2	1.81	0.62
1:DR:52:MET:HG2	1:DR:78:GLU:HG3	1.80	0.62
1:DX:9:LEU:HB2	1:DX:20:THR:HG23	1.80	0.62
1:EB:38:LEU:HG	1:EB:39:PRO:HD2	1.81	0.62
1:EZ:38:LEU:HG	1:EZ:39:PRO:HD2	1.81	0.62
1:FI:10:ARG:NH2	1:FK:15:ASP:HA	2.14	0.62
1:FK:9:LEU:HB2	1:FK:20:THR:HG23	1.80	0.62
1:FU:10:ARG:NH2	1:FW:15:ASP:HA	2.14	0.62
1:GM:10:ARG:NH2	1:GO:15:ASP:HA	2.14	0.62
1:GP:38:LEU:HG	1:GP:39:PRO:HD2	1.81	0.62
1:HM:4:ILE:HG23	1:HM:22:PRO:HG3	1.79	0.62
1:HT:38:LEU:HG	1:HT:39:PRO:HD2	1.81	0.62
1:JY:15:ASP:OD1	1:NI:10:ARG:NH2	2.32	0.62
1:LM:10:ARG:HH11	1:MG:38:LEU:HB2	1.64	0.62
1:LR:38:LEU:HG	1:LR:39:PRO:HD2	1.81	0.62
1:MG:10:ARG:NH2	1:MI:15:ASP:HA	2.14	0.62
1:MJ:38:LEU:HG	1:MJ:39:PRO:HD2	1.81	0.62
1:NT:10:ARG:NH2	1:NV:15:ASP:HA	2.14	0.62
1:AC:52:MET:HG2	1:AC:78:GLU:HG3	1.80	0.62
1:BN:119:ASP:HB3	1:BO:8:LYS:HE3	1.79	0.62
1:BZ:38:LEU:HG	1:BZ:39:PRO:HD2	1.81	0.62
1:CJ:10:ARG:NH2	1:GG:15:ASP:OD1	2.32	0.62
1:DL:52:MET:HG2	1:DL:78:GLU:HG3	1.80	0.62
1:GD:38:LEU:HG	1:GD:39:PRO:HD2	1.81	0.62
1:GL:52:MET:HG2	1:GL:78:GLU:HG3	1.80	0.62
1:HZ:10:ARG:NH2	1:IB:15:ASP:HA	2.14	0.62
1:IX:119:ASP:HB3	1:IY:8:LYS:HE3	1.79	0.62
1:KD:9:LEU:HB2	1:KD:20:THR:HG23	1.80	0.62
1:KT:38:LEU:HG	1:KT:39:PRO:HD2	1.81	0.62
1:LF:119:ASP:HB3	1:LG:8:LYS:HE3	1.79	0.62
1:NQ:38:LEU:HG	1:NQ:39:PRO:HD2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:38:LEU:HG	1:AV:39:PRO:HD2	1.81	0.62
1:BM:80:SER:HB2	1:EY:74:VAL:HG22	1.80	0.62
1:CH:49:VAL:HG11	1:FT:112:ALA:O	1.99	0.62
1:CI:38:LEU:HG	1:CI:39:PRO:HD2	1.81	0.62
1:CL:10:ARG:NH2	1:CN:15:ASP:HA	2.14	0.62
1:CQ:9:LEU:HB2	1:CQ:20:THR:HG23	1.80	0.62
1:DD:38:LEU:HG	1:DD:39:PRO:HD2	1.81	0.62
1:DO:52:MET:HG2	1:DO:78:GLU:HG3	1.80	0.62
1:DV:10:ARG:NH2	1:DX:15:ASP:HA	2.14	0.62
1:DX:52:MET:HG2	1:DX:78:GLU:HG3	1.80	0.62
1:EM:9:LEU:HB2	1:EM:20:THR:HG23	1.80	0.62
1:HH:10:ARG:NH2	1:HJ:15:ASP:HA	2.14	0.62
1:HQ:38:LEU:HG	1:HQ:39:PRO:HD2	1.81	0.62
1:IU:10:ARG:NH2	1:IW:15:ASP:HA	2.14	0.62
1:JG:119:ASP:HB3	1:JH:8:LYS:HE3	1.79	0.62
1:JL:52:MET:HG2	1:JL:78:GLU:HG3	1.80	0.62
1:JM:38:LEU:HG	1:JM:39:PRO:HD2	1.81	0.62
1:JS:10:ARG:NH2	1:JU:15:ASP:HA	2.14	0.62
1:JV:10:ARG:NH2	1:JX:15:ASP:HA	2.14	0.62
1:KB:10:ARG:NH2	1:KD:15:ASP:HA	2.14	0.62
1:KE:10:ARG:NH2	1:KG:15:ASP:HA	2.14	0.62
1:KG:52:MET:HG2	1:KG:78:GLU:HG3	1.80	0.62
1:KZ:38:LEU:HG	1:KZ:39:PRO:HD2	1.81	0.62
1:LR:10:ARG:NH2	1:LT:15:ASP:HA	2.14	0.62
1:MC:9:LEU:HB2	1:MC:20:THR:HG23	1.80	0.62
1:MY:38:LEU:HG	1:MY:39:PRO:HD2	1.81	0.62
1:NT:38:LEU:HG	1:NT:39:PRO:HD2	1.81	0.62
1:AE:10:ARG:HH11	1:BB:38:LEU:HD22	1.63	0.62
1:AG:10:ARG:NH2	1:AI:15:ASP:HA	2.13	0.62
1:AL:112:ALA:O	1:DX:49:VAL:HG11	2.00	0.62
1:BB:38:LEU:HG	1:BB:39:PRO:HD2	1.81	0.62
1:BH:10:ARG:NH2	1:BJ:15:ASP:HA	2.14	0.62
1:BQ:10:ARG:NH2	1:BS:15:ASP:HA	2.14	0.62
1:CE:52:MET:HG2	1:CE:78:GLU:HG3	1.80	0.62
1:EH:10:ARG:NH2	1:EJ:15:ASP:HA	2.14	0.62
1:GP:10:ARG:NH2	1:GR:15:ASP:HA	2.14	0.62
1:HA:92:GLU:CD	1:KM:57:LYS:HZ1	2.03	0.62
1:HD:9:LEU:HB2	1:HD:20:THR:HG23	1.80	0.62
1:HJ:9:LEU:HB2	1:HJ:20:THR:HG23	1.80	0.62
1:IB:9:LEU:HB2	1:IB:20:THR:HG23	1.80	0.62
1:II:10:ARG:NH2	1:IK:15:ASP:HA	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JX:92:GLU:CD	1:NJ:57:LYS:HZ3	2.02	0.62
1:KN:38:LEU:HG	1:KN:39:PRO:HD2	1.81	0.62
1:KV:52:MET:HG2	1:KV:78:GLU:HG3	1.80	0.62
1:LC:38:LEU:HG	1:LC:39:PRO:HD2	1.81	0.62
1:MA:10:ARG:NH2	1:MC:15:ASP:HA	2.14	0.62
1:MD:10:ARG:NH2	1:MF:15:ASP:HA	2.14	0.62
1:ML:9:LEU:HB2	1:ML:20:THR:HG23	1.80	0.62
1:MO:52:MET:HG2	1:MO:78:GLU:HG3	1.80	0.62
1:MU:9:LEU:HB2	1:MU:20:THR:HG23	1.80	0.62
1:NB:10:ARG:NH2	1:ND:15:ASP:HA	2.14	0.62
1:NJ:9:LEU:HB2	1:NJ:20:THR:HG23	1.80	0.62
1:NN:38:LEU:HG	1:NN:39:PRO:HD2	1.81	0.62
1:BW:38:LEU:HG	1:BW:39:PRO:HD2	1.81	0.62
1:CH:9:LEU:HB2	1:CH:20:THR:HG23	1.80	0.62
1:CX:10:ARG:NH2	1:CZ:15:ASP:HA	2.14	0.62
1:DR:9:LEU:HB2	1:DR:20:THR:HG23	1.80	0.62
1:EE:38:LEU:HG	1:EE:39:PRO:HD2	1.81	0.62
1:FF:38:LEU:HG	1:FF:39:PRO:HD2	1.81	0.62
1:GL:9:LEU:HB2	1:GL:20:THR:HG23	1.80	0.62
1:HF:38:LEU:HD22	1:IE:10:ARG:HH21	1.64	0.62
1:IF:38:LEU:HG	1:IF:39:PRO:HD2	1.81	0.62
1:IQ:92:GLU:CD	1:MC:57:LYS:HZ3	2.03	0.62
1:KS:9:LEU:HB2	1:KS:20:THR:HG23	1.80	0.62
1:KT:10:ARG:NH2	1:KV:15:ASP:HA	2.14	0.62
1:DC:9:LEU:HB2	1:DC:20:THR:HG23	1.80	0.62
1:FR:10:ARG:NH2	1:FT:15:ASP:HA	2.14	0.62
1:GO:52:MET:HG2	1:GO:78:GLU:HG3	1.80	0.62
1:HZ:38:LEU:HG	1:HZ:39:PRO:HD2	1.81	0.62
1:IH:9:LEU:HB2	1:IH:20:THR:HG23	1.80	0.62
1:KA:52:MET:HG2	1:KA:78:GLU:HG3	1.80	0.62
1:LU:38:LEU:HG	1:LU:39:PRO:HD2	1.81	0.62
1:NQ:10:ARG:NH2	1:NS:15:ASP:HA	2.14	0.62
1:CN:104:GLU:OE1	1:FZ:53:ARG:NH1	2.26	0.62
1:CT:74:VAL:HG22	1:GF:80:SER:HB2	1.81	0.62
1:EE:10:ARG:NH2	1:EG:15:ASP:HA	2.14	0.62
1:EV:9:LEU:HB2	1:EV:20:THR:HG23	1.80	0.62
1:FT:9:LEU:HB2	1:FT:20:THR:HG23	1.80	0.62
1:FZ:52:MET:HG2	1:FZ:78:GLU:HG3	1.80	0.62
1:HP:52:MET:HG2	1:HP:78:GLU:HG3	1.80	0.62
1:HW:38:LEU:HG	1:HW:39:PRO:HD2	1.81	0.62
1:IF:10:ARG:NH2	1:IH:15:ASP:HA	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JU:9:LEU:HB2	1:JU:20:THR:HG23	1.80	0.62
1:JY:38:LEU:HG	1:JY:39:PRO:HD2	1.81	0.62
1:LQ:9:LEU:HB2	1:LQ:20:THR:HG23	1.80	0.62
1:MP:10:ARG:NH2	1:MR:15:ASP:HA	2.14	0.62
1:MR:52:MET:HG2	1:MR:78:GLU:HG3	1.80	0.62
1:AD:10:ARG:NH2	1:AF:15:ASP:HA	2.14	0.62
1:AL:80:SER:HB2	1:DX:74:VAL:HG22	1.81	0.62
1:AS:38:LEU:HG	1:AS:39:PRO:HD2	1.81	0.62
1:BG:57:LYS:HZ1	1:ES:92:GLU:CD	2.02	0.62
1:CB:4:ILE:CG1	1:FN:125:ASP:HB2	2.30	0.62
1:CB:52:MET:HG2	1:CB:78:GLU:HG3	1.80	0.62
1:EQ:10:ARG:NH2	1:ES:15:ASP:HA	2.14	0.62
1:GM:38:LEU:HG	1:GM:39:PRO:HD2	1.81	0.62
1:HD:16:SER:HA	1:HD:35:VAL:HG12	1.82	0.62
1:IK:52:MET:HG2	1:IK:78:GLU:HG3	1.80	0.62
1:IK:112:ALA:O	1:LW:49:VAL:HG11	2.00	0.62
1:IQ:119:ASP:O	1:MC:8:LYS:HB2	2.00	0.62
1:JB:10:ARG:NH2	1:NH:15:ASP:OD1	2.33	0.62
1:JC:9:LEU:HB2	1:JC:20:THR:HG23	1.80	0.62
1:JF:57:LYS:NZ	1:MR:92:GLU:OE2	2.27	0.62
1:KW:10:ARG:NH2	1:KY:15:ASP:HA	2.14	0.62
1:LK:9:LEU:HB2	1:LK:20:THR:HG23	1.80	0.62
1:LN:9:LEU:HB2	1:LN:20:THR:HG23	1.80	0.62
1:MI:52:MET:HG2	1:MI:78:GLU:HG3	1.80	0.62
1:MM:38:LEU:HG	1:MM:39:PRO:HD2	1.81	0.62
1:AA:38:LEU:HG	1:AA:39:PRO:HD2	1.81	0.62
1:AJ:38:LEU:HB2	1:FP:10:ARG:HH11	1.63	0.62
1:BD:16:SER:HA	1:BD:35:VAL:HG12	1.82	0.62
1:BK:38:LEU:HG	1:BK:39:PRO:HD2	1.81	0.62
1:BS:52:MET:HG2	1:BS:78:GLU:HG3	1.80	0.62
1:CO:10:ARG:NH2	1:CQ:15:ASP:HA	2.14	0.62
1:DU:16:SER:HA	1:DU:35:VAL:HG12	1.82	0.62
1:GW:85:THR:O	1:GW:90:ARG:NH2	2.33	0.62
1:HB:38:LEU:HG	1:HB:39:PRO:HD2	1.81	0.62
1:HP:16:SER:HA	1:HP:35:VAL:HG12	1.82	0.62
1:HV:9:LEU:HB2	1:HV:20:THR:HG23	1.80	0.62
1:JI:9:LEU:HB2	1:JI:20:THR:HG23	1.80	0.62
1:JP:38:LEU:HG	1:JP:39:PRO:HD2	1.81	0.62
1:KG:80:SER:HB2	1:NS:74:VAL:HG22	1.81	0.62
1:KH:38:LEU:HG	1:KH:39:PRO:HD2	1.81	0.62
1:KK:38:LEU:HG	1:KK:39:PRO:HD2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KP:9:LEU:HB2	1:KP:20:THR:HG23	1.80	0.62
1:LI:38:LEU:HG	1:LI:39:PRO:HD2	1.81	0.62
1:MC:16:SER:HA	1:MC:35:VAL:HG12	1.82	0.62
1:NE:38:LEU:HG	1:NE:39:PRO:HD2	1.81	0.62
1:AC:16:SER:HA	1:AC:35:VAL:HG12	1.82	0.61
1:AQ:38:LEU:CD2	1:BV:10:ARG:HH21	2.13	0.61
1:BO:85:THR:O	1:BO:90:ARG:NH2	2.33	0.61
1:BS:16:SER:HA	1:BS:35:VAL:HG12	1.82	0.61
1:EA:9:LEU:HB2	1:EA:20:THR:HG23	1.80	0.61
1:EP:16:SER:HA	1:EP:35:VAL:HG12	1.82	0.61
1:EY:16:SER:HA	1:EY:35:VAL:HG12	1.82	0.61
1:FB:16:SER:HA	1:FB:35:VAL:HG12	1.82	0.61
1:FO:10:ARG:NH2	1:FQ:15:ASP:HA	2.14	0.61
1:FQ:16:SER:HA	1:FQ:35:VAL:HG12	1.83	0.61
1:FT:16:SER:HA	1:FT:35:VAL:HG12	1.82	0.61
1:GA:38:LEU:HG	1:GA:39:PRO:HD2	1.81	0.61
1:HH:38:LEU:HG	1:HH:39:PRO:HD2	1.81	0.61
1:HL:85:THR:O	1:HL:90:ARG:NH2	2.33	0.61
1:HM:16:SER:HA	1:HM:35:VAL:HG12	1.82	0.61
1:HR:85:THR:O	1:HR:90:ARG:NH2	2.33	0.61
1:IG:85:THR:O	1:IG:90:ARG:NH2	2.33	0.61
1:IN:80:SER:HB2	1:LZ:74:VAL:HG22	1.82	0.61
1:IT:16:SER:HA	1:IT:35:VAL:HG12	1.82	0.61
1:JX:16:SER:HA	1:JX:35:VAL:HG12	1.82	0.61
1:LJ:85:THR:O	1:LJ:90:ARG:NH2	2.33	0.61
1:ML:16:SER:HA	1:ML:35:VAL:HG12	1.82	0.61
1:NO:85:THR:O	1:NO:90:ARG:NH2	2.33	0.61
1:AK:85:THR:O	1:AK:90:ARG:NH2	2.33	0.61
1:AU:16:SER:HA	1:AU:35:VAL:HG12	1.82	0.61
1:AW:85:THR:O	1:AW:90:ARG:NH2	2.33	0.61
1:BJ:112:ALA:O	1:EV:49:VAL:HG11	1.99	0.61
1:DC:16:SER:HA	1:DC:35:VAL:HG12	1.83	0.61
1:DE:85:THR:O	1:DE:90:ARG:NH2	2.33	0.61
1:EI:85:THR:O	1:EI:90:ARG:NH2	2.33	0.61
1:EK:38:LEU:HG	1:EK:39:PRO:HD2	1.81	0.61
1:EQ:38:LEU:HG	1:EQ:39:PRO:HD2	1.81	0.61
1:FK:16:SER:HA	1:FK:35:VAL:HG12	1.82	0.61
1:GG:38:LEU:HG	1:GG:39:PRO:HD2	1.81	0.61
1:GK:85:THR:O	1:GK:90:ARG:NH2	2.34	0.61
1:GR:16:SER:HA	1:GR:35:VAL:HG12	1.82	0.61
1:GU:16:SER:HA	1:GU:35:VAL:HG12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IL:38:LEU:HG	1:IL:39:PRO:HD2	1.81	0.61
1:IU:38:LEU:HG	1:IU:39:PRO:HD2	1.81	0.61
1:KO:85:THR:O	1:KO:90:ARG:NH2	2.33	0.61
1:LH:16:SER:HA	1:LH:35:VAL:HG12	1.82	0.61
1:NF:85:THR:O	1:NF:90:ARG:NH2	2.33	0.61
1:AI:80:SER:HB2	1:DU:74:VAL:HG22	1.80	0.61
1:AJ:38:LEU:HG	1:AJ:39:PRO:HD2	1.81	0.61
1:BG:57:LYS:NZ	1:ES:92:GLU:OE2	2.32	0.61
1:BT:10:ARG:NH2	1:BV:15:ASP:HA	2.14	0.61
1:CK:16:SER:HA	1:CK:35:VAL:HG12	1.82	0.61
1:CR:38:LEU:HG	1:CR:39:PRO:HD2	1.81	0.61
1:CW:52:MET:HG2	1:CW:78:GLU:HG3	1.80	0.61
1:EC:85:THR:O	1:EC:90:ARG:NH2	2.33	0.61
1:ED:9:LEU:HB2	1:ED:20:THR:HG23	1.80	0.61
1:EW:38:LEU:HG	1:EW:39:PRO:HD2	1.81	0.61
1:FA:85:THR:O	1:FA:90:ARG:NH2	2.33	0.61
1:FC:38:LEU:HG	1:FC:39:PRO:HD2	1.81	0.61
1:FW:16:SER:HA	1:FW:35:VAL:HG12	1.82	0.61
1:GI:52:MET:HG2	1:GI:78:GLU:HG3	1.80	0.61
1:GX:16:SER:HA	1:GX:35:VAL:HG12	1.82	0.61
1:HM:9:LEU:HB2	1:HM:20:THR:HG23	1.80	0.61
1:HX:85:THR:O	1:HX:90:ARG:NH2	2.33	0.61
1:IA:85:THR:O	1:IA:90:ARG:NH2	2.33	0.61
1:IE:16:SER:HA	1:IE:35:VAL:HG12	1.82	0.61
1:II:38:LEU:HG	1:II:39:PRO:HD2	1.81	0.61
1:JS:38:LEU:HG	1:JS:39:PRO:HD2	1.81	0.61
1:JT:10:ARG:NH2	1:KE:15:ASP:OD1	2.32	0.61
1:JX:104:GLU:OE1	1:NJ:53:ARG:NH1	2.26	0.61
1:MW:85:THR:O	1:MW:90:ARG:NH2	2.33	0.61
1:ND:9:LEU:HB2	1:ND:20:THR:HG23	1.80	0.61
1:AD:38:LEU:HG	1:AD:39:PRO:HD2	1.81	0.61
1:AE:38:LEU:HD22	1:BD:10:ARG:NH2	2.15	0.61
1:ET:38:LEU:HG	1:ET:39:PRO:HD2	1.81	0.61
1:FB:9:LEU:HB2	1:FB:20:THR:HG23	1.80	0.61
1:FE:16:SER:HA	1:FE:35:VAL:HG12	1.82	0.61
1:FG:85:THR:O	1:FG:90:ARG:NH2	2.33	0.61
1:FL:38:LEU:HG	1:FL:39:PRO:HD2	1.81	0.61
1:HG:16:SER:HA	1:HG:35:VAL:HG12	1.82	0.61
1:HN:38:LEU:HG	1:HN:39:PRO:HD2	1.81	0.61
1:IJ:85:THR:O	1:IJ:90:ARG:NH2	2.33	0.61
1:IQ:16:SER:HA	1:IQ:35:VAL:HG12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IQ:112:ALA:O	1:MC:49:VAL:HG11	2.00	0.61
1:KE:38:LEU:HG	1:KE:39:PRO:HD2	1.81	0.61
1:KJ:16:SER:HA	1:KJ:35:VAL:HG12	1.82	0.61
1:KP:16:SER:HA	1:KP:35:VAL:HG12	1.82	0.61
1:LD:85:THR:O	1:LD:90:ARG:NH2	2.33	0.61
1:LW:16:SER:HA	1:LW:35:VAL:HG12	1.83	0.61
1:MI:16:SER:HA	1:MI:35:VAL:HG12	1.82	0.61
1:BF:85:THR:O	1:BF:90:ARG:NH2	2.34	0.61
1:BJ:92:GLU:OE2	1:EV:57:LYS:NZ	2.32	0.61
1:BR:85:THR:O	1:BR:90:ARG:NH2	2.33	0.61
1:BX:85:THR:O	1:BX:90:ARG:NH2	2.33	0.61
1:CQ:57:LYS:NZ	1:GC:92:GLU:OE2	2.29	0.61
1:DR:16:SER:HA	1:DR:35:VAL:HG12	1.82	0.61
1:GJ:38:LEU:HG	1:GJ:39:PRO:HD2	1.81	0.61
1:HA:16:SER:HA	1:HA:35:VAL:HG12	1.82	0.61
1:HV:16:SER:HA	1:HV:35:VAL:HG12	1.82	0.61
1:IN:16:SER:HA	1:IN:35:VAL:HG12	1.82	0.61
1:IO:38:LEU:HG	1:IO:39:PRO:HD2	1.81	0.61
1:JT:85:THR:O	1:JT:90:ARG:NH2	2.33	0.61
1:KG:119:ASP:O	1:NS:8:LYS:HB2	2.01	0.61
1:KL:85:THR:O	1:KL:90:ARG:NH2	2.34	0.61
1:LB:16:SER:HA	1:LB:35:VAL:HG12	1.83	0.61
1:MX:16:SER:HA	1:MX:35:VAL:HG12	1.82	0.61
1:NP:16:SER:HA	1:NP:35:VAL:HG12	1.82	0.61
1:AR:104:GLU:OE1	1:ED:53:ARG:NH1	2.27	0.61
1:CM:85:THR:O	1:CM:90:ARG:NH2	2.33	0.61
1:DM:38:LEU:HG	1:DM:39:PRO:HD2	1.81	0.61
1:EA:16:SER:HA	1:EA:35:VAL:HG12	1.83	0.61
1:FS:85:THR:O	1:FS:90:ARG:NH2	2.33	0.61
1:GB:85:THR:O	1:GB:90:ARG:NH2	2.33	0.61
1:GS:38:LEU:HG	1:GS:39:PRO:HD2	1.81	0.61
1:HE:38:LEU:HG	1:HE:39:PRO:HD2	1.81	0.61
1:HF:85:THR:O	1:HF:90:ARG:NH2	2.33	0.61
1:HP:80:SER:HB2	1:LB:74:VAL:HG22	1.81	0.61
1:IK:119:ASP:O	1:LW:8:LYS:HB2	2.00	0.61
1:IR:38:LEU:HG	1:IR:39:PRO:HD2	1.81	0.61
1:IZ:16:SER:HA	1:IZ:35:VAL:HG12	1.82	0.61
1:IZ:119:ASP:O	1:ML:8:LYS:HB2	2.00	0.61
1:JC:16:SER:HA	1:JC:35:VAL:HG12	1.82	0.61
1:JQ:85:THR:O	1:JQ:90:ARG:NH2	2.34	0.61
1:KD:8:LYS:HB2	1:NP:119:ASP:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MG:38:LEU:HG	1:MG:39:PRO:HD2	1.81	0.61
1:MH:85:THR:O	1:MH:90:ARG:NH2	2.33	0.61
1:MQ:85:THR:O	1:MQ:90:ARG:NH2	2.33	0.61
1:NC:85:THR:O	1:NC:90:ARG:NH2	2.33	0.61
1:NH:38:LEU:HG	1:NH:39:PRO:HD2	1.81	0.61
1:NI:85:THR:O	1:NI:90:ARG:NH2	2.33	0.61
1:AM:38:LEU:HG	1:AM:39:PRO:HD2	1.81	0.61
1:CS:85:THR:O	1:CS:90:ARG:NH2	2.33	0.61
1:DB:85:THR:O	1:DB:90:ARG:NH2	2.33	0.61
1:EG:16:SER:HA	1:EG:35:VAL:HG12	1.82	0.61
1:FM:85:THR:O	1:FM:90:ARG:NH2	2.33	0.61
1:FO:38:LEU:HG	1:FO:39:PRO:HD2	1.81	0.61
1:GC:16:SER:HA	1:GC:35:VAL:HG12	1.82	0.61
1:GE:85:THR:O	1:GE:90:ARG:NH2	2.33	0.61
1:GY:38:LEU:HG	1:GY:39:PRO:HD2	1.81	0.61
1:HP:26:VAL:HG21	1:MS:113:TYR:O	2.00	0.61
1:HU:10:ARG:HH11	1:LC:38:LEU:HD22	1.65	0.61
1:IK:16:SER:HA	1:IK:35:VAL:HG12	1.82	0.61
1:IV:85:THR:O	1:IV:90:ARG:NH2	2.33	0.61
1:JZ:85:THR:O	1:JZ:90:ARG:NH2	2.33	0.61
1:KC:85:THR:O	1:KC:90:ARG:NH2	2.33	0.61
1:KM:16:SER:HA	1:KM:35:VAL:HG12	1.82	0.61
1:LD:10:ARG:NH2	1:LR:15:ASP:OD1	2.34	0.61
1:LQ:16:SER:HA	1:LQ:35:VAL:HG12	1.82	0.61
1:MA:15:ASP:OD1	1:ME:10:ARG:NH2	2.34	0.61
1:ME:85:THR:O	1:ME:90:ARG:NH2	2.33	0.61
1:MN:85:THR:O	1:MN:90:ARG:NH2	2.33	0.61
1:MO:10:ARG:HH21	1:NU:38:LEU:HD22	1.66	0.61
1:MP:38:LEU:HG	1:MP:39:PRO:HD2	1.81	0.61
1:MT:85:THR:O	1:MT:90:ARG:NH2	2.33	0.61
1:NA:16:SER:HA	1:NA:35:VAL:HG12	1.82	0.61
1:AH:85:THR:O	1:AH:90:ARG:NH2	2.33	0.61
1:AI:49:VAL:HG11	1:DU:112:ALA:O	2.01	0.61
1:BJ:16:SER:HA	1:BJ:35:VAL:HG12	1.82	0.61
1:BU:85:THR:O	1:BU:90:ARG:NH2	2.33	0.61
1:CH:16:SER:HA	1:CH:35:VAL:HG12	1.82	0.61
1:CT:16:SER:HA	1:CT:35:VAL:HG12	1.82	0.61
1:EH:38:LEU:HG	1:EH:39:PRO:HD2	1.81	0.61
1:ER:85:THR:O	1:ER:90:ARG:NH2	2.33	0.61
1:GL:16:SER:HA	1:GL:35:VAL:HG12	1.82	0.61
1:HJ:16:SER:HA	1:HJ:35:VAL:HG12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HN:15:ASP:OD1	1:MT:10:ARG:NH2	2.34	0.61
1:HS:74:VAL:HG22	1:LE:80:SER:HB2	1.82	0.61
1:KG:89:ASP:OD2	1:NS:59:ILE:HD12	2.01	0.61
1:KY:16:SER:HA	1:KY:35:VAL:HG12	1.82	0.61
1:LS:85:THR:O	1:LS:90:ARG:NH2	2.33	0.61
1:LZ:16:SER:HA	1:LZ:35:VAL:HG12	1.82	0.61
1:MB:85:THR:O	1:MB:90:ARG:NH2	2.33	0.61
1:MD:38:LEU:HG	1:MD:39:PRO:HD2	1.81	0.61
1:AG:38:LEU:HG	1:AG:39:PRO:HD2	1.81	0.61
1:AI:104:GLU:OE1	1:DU:53:ARG:NH1	2.28	0.61
1:BM:16:SER:HA	1:BM:35:VAL:HG12	1.82	0.61
1:CC:38:LEU:HG	1:CC:39:PRO:HD2	1.81	0.61
1:CE:16:SER:HA	1:CE:35:VAL:HG12	1.83	0.61
1:CJ:85:THR:O	1:CJ:90:ARG:NH2	2.33	0.61
1:CW:16:SER:HA	1:CW:35:VAL:HG12	1.82	0.61
1:CY:85:THR:O	1:CY:90:ARG:NH2	2.33	0.61
1:HO:85:THR:O	1:HO:90:ARG:NH2	2.33	0.61
1:HY:16:SER:HA	1:HY:35:VAL:HG12	1.82	0.61
1:JJ:38:LEU:HG	1:JJ:39:PRO:HD2	1.81	0.61
1:JO:8:LYS:HB2	1:NA:119:ASP:O	2.01	0.61
1:KD:16:SER:HA	1:KD:35:VAL:HG12	1.82	0.61
1:KU:85:THR:O	1:KU:90:ARG:NH2	2.34	0.61
1:ND:16:SER:HA	1:ND:35:VAL:HG12	1.82	0.61
1:AL:16:SER:HA	1:AL:35:VAL:HG12	1.82	0.61
1:BD:74:VAL:HG22	1:EP:80:SER:HB2	1.83	0.61
1:BN:9:LEU:HB2	1:BN:20:THR:HG23	1.83	0.61
1:BP:16:SER:HA	1:BP:35:VAL:HG12	1.82	0.61
1:DF:16:SER:HA	1:DF:35:VAL:HG12	1.82	0.61
1:DI:16:SER:HA	1:DI:35:VAL:HG12	1.82	0.61
1:ED:16:SER:HA	1:ED:35:VAL:HG12	1.82	0.61
1:IG:38:LEU:HD22	1:IN:10:ARG:HH21	1.65	0.61
1:JC:106:LYS:HZ2	1:MO:129:THR:C	2.04	0.61
1:JU:16:SER:HA	1:JU:35:VAL:HG12	1.82	0.61
1:LE:16:SER:HA	1:LE:35:VAL:HG12	1.82	0.61
1:MO:16:SER:HA	1:MO:35:VAL:HG12	1.82	0.61
1:AF:74:VAL:HG22	1:DR:80:SER:HB2	1.83	0.60
1:AO:16:SER:HA	1:AO:35:VAL:HG12	1.82	0.60
1:AQ:38:LEU:HD22	1:BV:10:ARG:HH21	1.65	0.60
1:BU:10:ARG:NH2	1:DM:15:ASP:OD1	2.34	0.60
1:CT:119:ASP:O	1:GF:8:LYS:HB2	2.00	0.60
1:HB:38:LEU:HB2	1:MZ:10:ARG:HH11	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HP:74:VAL:HG22	1:LB:80:SER:HB2	1.83	0.60
1:HS:16:SER:HA	1:HS:35:VAL:HG12	1.82	0.60
1:KW:38:LEU:HG	1:KW:39:PRO:HD2	1.81	0.60
1:LA:85:THR:O	1:LA:90:ARG:NH2	2.33	0.60
1:LI:9:LEU:HB2	1:LI:20:THR:HG23	1.83	0.60
1:AE:85:THR:O	1:AE:90:ARG:NH2	2.33	0.60
1:AI:16:SER:HA	1:AI:35:VAL:HG12	1.82	0.60
1:BN:38:LEU:HG	1:BN:39:PRO:HD2	1.81	0.60
1:BV:16:SER:HA	1:BV:35:VAL:HG12	1.82	0.60
1:CX:9:LEU:HB2	1:CX:20:THR:HG23	1.83	0.60
1:DO:16:SER:HA	1:DO:35:VAL:HG12	1.82	0.60
1:DS:9:LEU:HB2	1:DS:20:THR:HG23	1.84	0.60
1:DW:85:THR:O	1:DW:90:ARG:NH2	2.33	0.60
1:DY:113:TYR:O	1:FZ:26:VAL:HG21	2.01	0.60
1:EB:9:LEU:HB2	1:EB:20:THR:HG23	1.84	0.60
1:EN:9:LEU:HB2	1:EN:20:THR:HG23	1.83	0.60
1:EW:9:LEU:HB2	1:EW:20:THR:HG23	1.83	0.60
1:FR:38:LEU:HG	1:FR:39:PRO:HD2	1.81	0.60
1:GH:85:THR:O	1:GH:90:ARG:NH2	2.33	0.60
1:GP:9:LEU:HB2	1:GP:20:THR:HG23	1.84	0.60
1:HQ:9:LEU:HB2	1:HQ:20:THR:HG23	1.84	0.60
1:JR:16:SER:HA	1:JR:35:VAL:HG12	1.82	0.60
1:NK:9:LEU:HB2	1:NK:20:THR:HG23	1.84	0.60
1:AE:10:ARG:NH2	1:BB:15:ASP:OD1	2.34	0.60
1:AX:16:SER:HA	1:AX:35:VAL:HG12	1.82	0.60
1:BB:9:LEU:HB2	1:BB:20:THR:HG23	1.84	0.60
1:BG:16:SER:HA	1:BG:35:VAL:HG12	1.82	0.60
1:BQ:9:LEU:HB2	1:BQ:20:THR:HG23	1.84	0.60
1:BT:9:LEU:HB2	1:BT:20:THR:HG23	1.83	0.60
1:BW:9:LEU:HB2	1:BW:20:THR:HG23	1.84	0.60
1:CZ:119:ASP:O	1:GL:8:LYS:HB2	2.01	0.60
1:DL:16:SER:HA	1:DL:35:VAL:HG12	1.82	0.60
1:DX:16:SER:HA	1:DX:35:VAL:HG12	1.82	0.60
1:EN:38:LEU:HG	1:EN:39:PRO:HD2	1.81	0.60
1:EO:85:THR:O	1:EO:90:ARG:NH2	2.33	0.60
1:FO:9:LEU:HB2	1:FO:20:THR:HG23	1.83	0.60
1:FU:9:LEU:HB2	1:FU:20:THR:HG23	1.83	0.60
1:GN:85:THR:O	1:GN:90:ARG:NH2	2.33	0.60
1:GO:16:SER:HA	1:GO:35:VAL:HG12	1.82	0.60
1:HB:9:LEU:HB2	1:HB:20:THR:HG23	1.84	0.60
1:JK:85:THR:O	1:JK:90:ARG:NH2	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KG:16:SER:HA	1:KG:35:VAL:HG12	1.82	0.60
1:KT:9:LEU:HB2	1:KT:20:THR:HG23	1.83	0.60
1:LX:9:LEU:HB2	1:LX:20:THR:HG23	1.83	0.60
1:MD:9:LEU:HB2	1:MD:20:THR:HG23	1.83	0.60
1:AQ:85:THR:O	1:AQ:90:ARG:NH2	2.33	0.60
1:AX:49:VAL:HG11	1:EJ:112:ALA:O	2.00	0.60
1:BL:85:THR:O	1:BL:90:ARG:NH2	2.33	0.60
1:CB:16:SER:HA	1:CB:35:VAL:HG12	1.82	0.60
1:CI:9:LEU:HB2	1:CI:20:THR:HG23	1.84	0.60
1:CN:16:SER:HA	1:CN:35:VAL:HG12	1.82	0.60
1:CO:83:VAL:CG1	1:DK:27:THR:HG22	2.32	0.60
1:DZ:85:THR:O	1:DZ:90:ARG:NH2	2.33	0.60
1:EJ:16:SER:HA	1:EJ:35:VAL:HG12	1.82	0.60
1:FL:9:LEU:HB2	1:FL:20:THR:HG23	1.84	0.60
1:FV:85:THR:O	1:FV:90:ARG:NH2	2.33	0.60
1:GF:16:SER:HA	1:GF:35:VAL:HG12	1.82	0.60
1:GI:16:SER:HA	1:GI:35:VAL:HG12	1.82	0.60
1:IB:16:SER:HA	1:IB:35:VAL:HG12	1.82	0.60
1:IF:9:LEU:HB2	1:IF:20:THR:HG23	1.83	0.60
1:IM:85:THR:O	1:IM:90:ARG:NH2	2.33	0.60
1:JF:16:SER:HA	1:JF:35:VAL:HG12	1.82	0.60
1:JP:15:ASP:OD1	1:KC:10:ARG:NH2	2.34	0.60
1:JW:85:THR:O	1:JW:90:ARG:NH2	2.33	0.60
1:KB:9:LEU:HB2	1:KB:20:THR:HG23	1.84	0.60
1:KF:85:THR:O	1:KF:90:ARG:NH2	2.33	0.60
1:NM:16:SER:HA	1:NM:35:VAL:HG12	1.82	0.60
1:AA:9:LEU:HB2	1:AA:20:THR:HG23	1.83	0.60
1:AM:9:LEU:HB2	1:AM:20:THR:HG23	1.84	0.60
1:AR:16:SER:HA	1:AR:35:VAL:HG12	1.82	0.60
1:BS:92:GLU:OE2	1:FE:57:LYS:NZ	2.34	0.60
1:BY:16:SER:HA	1:BY:35:VAL:HG12	1.83	0.60
1:CQ:16:SER:HA	1:CQ:35:VAL:HG12	1.82	0.60
1:DN:38:LEU:HD22	1:GU:10:ARG:HH21	1.66	0.60
1:FN:16:SER:HA	1:FN:35:VAL:HG12	1.82	0.60
1:HA:49:VAL:HG11	1:KM:112:ALA:O	2.01	0.60
1:HG:4:ILE:HG13	1:KS:125:ASP:HB2	1.83	0.60
1:IH:16:SER:HA	1:IH:35:VAL:HG12	1.82	0.60
1:IY:85:THR:O	1:IY:90:ARG:NH2	2.33	0.60
1:JB:85:THR:O	1:JB:90:ARG:NH2	2.33	0.60
1:JL:16:SER:HA	1:JL:35:VAL:HG12	1.82	0.60
1:JM:9:LEU:HB2	1:JM:20:THR:HG23	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KB:38:LEU:HG	1:KB:39:PRO:HD2	1.81	0.60
1:MA:9:LEU:HB2	1:MA:20:THR:HG23	1.83	0.60
1:MF:16:SER:HA	1:MF:35:VAL:HG12	1.82	0.60
1:MK:85:THR:O	1:MK:90:ARG:NH2	2.33	0.60
1:AB:85:THR:O	1:AB:90:ARG:NH2	2.33	0.60
1:BC:85:THR:O	1:BC:90:ARG:NH2	2.33	0.60
1:BD:80:SER:HB2	1:EP:74:VAL:HG22	1.83	0.60
1:BE:9:LEU:HB2	1:BE:20:THR:HG23	1.84	0.60
1:CQ:53:ARG:NH1	1:GC:104:GLU:OE1	2.27	0.60
1:DI:74:VAL:HG22	1:GU:80:SER:HB2	1.82	0.60
1:DQ:85:THR:O	1:DQ:90:ARG:NH2	2.34	0.60
1:EF:85:THR:O	1:EF:90:ARG:NH2	2.33	0.60
1:EM:16:SER:HA	1:EM:35:VAL:HG12	1.83	0.60
1:EU:85:THR:O	1:EU:90:ARG:NH2	2.33	0.60
1:GV:9:LEU:HB2	1:GV:20:THR:HG23	1.83	0.60
1:HK:9:LEU:HB2	1:HK:20:THR:HG23	1.83	0.60
1:JO:16:SER:HA	1:JO:35:VAL:HG12	1.82	0.60
1:JP:9:LEU:HB2	1:JP:20:THR:HG23	1.83	0.60
1:LY:85:THR:O	1:LY:90:ARG:NH2	2.33	0.60
1:MO:26:VAL:HG21	1:NT:113:TYR:O	2.02	0.60
1:MP:9:LEU:HB2	1:MP:20:THR:HG23	1.84	0.60
1:MV:9:LEU:HB2	1:MV:20:THR:HG23	1.84	0.60
1:NU:85:THR:O	1:NU:90:ARG:NH2	2.33	0.60
1:AJ:9:LEU:HB2	1:AJ:20:THR:HG23	1.84	0.60
1:AU:80:SER:HB2	1:EG:74:VAL:HG22	1.83	0.60
1:CZ:16:SER:HA	1:CZ:35:VAL:HG12	1.82	0.60
1:EX:85:THR:O	1:EX:90:ARG:NH2	2.34	0.60
1:FT:10:ARG:NH1	1:GQ:15:ASP:OD1	2.34	0.60
1:HG:59:ILE:HD12	1:KS:89:ASP:OD2	2.02	0.60
1:HT:9:LEU:HB2	1:HT:20:THR:HG23	1.84	0.60
1:IK:92:GLU:OE2	1:LW:57:LYS:NZ	2.34	0.60
1:IS:85:THR:O	1:IS:90:ARG:NH2	2.33	0.60
1:JX:74:VAL:HG22	1:NJ:80:SER:HB2	1.84	0.60
1:KA:16:SER:HA	1:KA:35:VAL:HG12	1.82	0.60
1:KJ:112:ALA:O	1:NV:49:VAL:HG11	2.02	0.60
1:KW:9:LEU:HB2	1:KW:20:THR:HG23	1.84	0.60
1:KX:85:THR:O	1:KX:90:ARG:NH2	2.33	0.60
1:KZ:9:LEU:HB2	1:KZ:20:THR:HG23	1.83	0.60
1:LT:16:SER:HA	1:LT:35:VAL:HG12	1.82	0.60
1:NG:16:SER:HA	1:NG:35:VAL:HG12	1.83	0.60
1:AF:16:SER:HA	1:AF:35:VAL:HG12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:9:LEU:HB2	1:AS:20:THR:HG23	1.83	0.60
1:CP:85:THR:O	1:CP:90:ARG:NH2	2.33	0.60
1:FH:16:SER:HA	1:FH:35:VAL:HG12	1.82	0.60
1:FJ:85:THR:O	1:FJ:90:ARG:NH2	2.33	0.60
1:FP:85:THR:O	1:FP:90:ARG:NH2	2.33	0.60
1:FZ:16:SER:HA	1:FZ:35:VAL:HG12	1.82	0.60
1:II:9:LEU:HB2	1:II:20:THR:HG23	1.83	0.60
1:KK:9:LEU:HB2	1:KK:20:THR:HG23	1.84	0.60
1:KS:16:SER:HA	1:KS:35:VAL:HG12	1.82	0.60
1:NB:9:LEU:HB2	1:NB:20:THR:HG23	1.84	0.60
1:NN:9:LEU:HB2	1:NN:20:THR:HG23	1.84	0.60
1:AD:38:LEU:HB2	1:GB:10:ARG:HH11	1.66	0.60
1:AU:26:VAL:HG21	1:EZ:113:TYR:O	2.02	0.60
1:CV:85:THR:O	1:CV:90:ARG:NH2	2.33	0.60
1:DF:119:ASP:O	1:GR:8:LYS:HB2	2.01	0.60
1:FF:9:LEU:HB2	1:FF:20:THR:HG23	1.83	0.60
1:FQ:10:ARG:HH21	1:GW:38:LEU:CD2	2.14	0.60
1:GM:9:LEU:HB2	1:GM:20:THR:HG23	1.84	0.60
1:HW:9:LEU:HB2	1:HW:20:THR:HG23	1.83	0.60
1:KH:9:LEU:HB2	1:KH:20:THR:HG23	1.83	0.60
1:LO:9:LEU:HB2	1:LO:20:THR:HG23	1.83	0.60
1:LR:9:LEU:HB2	1:LR:20:THR:HG23	1.84	0.60
1:MZ:85:THR:O	1:MZ:90:ARG:NH2	2.33	0.60
1:NQ:9:LEU:HB2	1:NQ:20:THR:HG23	1.84	0.60
1:NR:85:THR:O	1:NR:90:ARG:NH2	2.33	0.60
1:AD:9:LEU:HB2	1:AD:20:THR:HG23	1.83	0.60
1:BA:16:SER:HA	1:BA:35:VAL:HG12	1.82	0.60
1:BZ:9:LEU:HB2	1:BZ:20:THR:HG23	1.84	0.60
1:DA:9:LEU:HB2	1:DA:20:THR:HG23	1.84	0.60
1:EF:38:LEU:HD22	1:EV:10:ARG:HH21	1.67	0.60
1:FD:85:THR:O	1:FD:90:ARG:NH2	2.34	0.60
1:FI:9:LEU:HB2	1:FI:20:THR:HG23	1.84	0.60
1:GG:9:LEU:HB2	1:GG:20:THR:HG23	1.83	0.60
1:GJ:9:LEU:HB2	1:GJ:20:THR:HG23	1.83	0.60
1:HN:9:LEU:HB2	1:HN:20:THR:HG23	1.83	0.60
1:JE:85:THR:O	1:JE:90:ARG:NH2	2.33	0.60
1:JS:9:LEU:HB2	1:JS:20:THR:HG23	1.84	0.60
1:KD:57:LYS:HZ3	1:NP:92:GLU:CD	2.06	0.60
1:LF:9:LEU:HB2	1:LF:20:THR:HG23	1.84	0.60
1:MR:16:SER:HA	1:MR:35:VAL:HG12	1.82	0.60
1:NJ:16:SER:HA	1:NJ:35:VAL:HG12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EL:85:THR:O	1:EL:90:ARG:NH2	2.33	0.59
1:ES:16:SER:HA	1:ES:35:VAL:HG12	1.82	0.59
1:EV:16:SER:HA	1:EV:35:VAL:HG12	1.83	0.59
1:EZ:9:LEU:HB2	1:EZ:20:THR:HG23	1.83	0.59
1:JG:9:LEU:HB2	1:JG:20:THR:HG23	1.83	0.59
1:KU:10:ARG:NH1	1:NB:38:LEU:HB2	2.17	0.59
1:LP:85:THR:O	1:LP:90:ARG:NH2	2.33	0.59
1:LU:9:LEU:HB2	1:LU:20:THR:HG23	1.84	0.59
1:AV:9:LEU:HB2	1:AV:20:THR:HG23	1.84	0.59
1:AZ:85:THR:O	1:AZ:90:ARG:NH2	2.33	0.59
1:BG:80:SER:HB2	1:ES:74:VAL:HG22	1.84	0.59
1:BK:9:LEU:HB2	1:BK:20:THR:HG23	1.84	0.59
1:DI:92:GLU:CD	1:GU:57:LYS:HZ3	2.06	0.59
1:DN:85:THR:O	1:DN:90:ARG:NH2	2.33	0.59
1:FY:85:THR:O	1:FY:90:ARG:NH2	2.33	0.59
1:HG:125:ASP:HB2	1:KS:4:ILE:CG1	2.32	0.59
1:IL:9:LEU:HB2	1:IL:20:THR:HG23	1.83	0.59
1:IZ:89:ASP:OD2	1:ML:59:ILE:HD12	2.01	0.59
1:JI:16:SER:HA	1:JI:35:VAL:HG12	1.82	0.59
1:KE:9:LEU:HB2	1:KE:20:THR:HG23	1.84	0.59
1:KQ:9:LEU:HB2	1:KQ:20:THR:HG23	1.83	0.59
1:LK:16:SER:HA	1:LK:35:VAL:HG12	1.82	0.59
1:LN:16:SER:HA	1:LN:35:VAL:HG12	1.82	0.59
1:MU:16:SER:HA	1:MU:35:VAL:HG12	1.82	0.59
1:NL:85:THR:O	1:NL:90:ARG:NH2	2.33	0.59
1:NV:16:SER:HA	1:NV:35:VAL:HG12	1.82	0.59
1:AG:9:LEU:HB2	1:AG:20:THR:HG23	1.84	0.59
1:CO:9:LEU:HB2	1:CO:20:THR:HG23	1.83	0.59
1:CZ:112:ALA:O	1:GL:49:VAL:HG11	2.02	0.59
1:DK:85:THR:O	1:DK:90:ARG:NH2	2.33	0.59
1:EE:9:LEU:HB2	1:EE:20:THR:HG23	1.84	0.59
1:HC:85:THR:O	1:HC:90:ARG:NH2	2.33	0.59
1:IT:8:LYS:HB2	1:MF:119:ASP:O	2.02	0.59
1:JD:9:LEU:HB2	1:JD:20:THR:HG23	1.84	0.59
1:JH:85:THR:O	1:JH:90:ARG:NH2	2.33	0.59
1:JJ:9:LEU:HB2	1:JJ:20:THR:HG23	1.83	0.59
1:KJ:53:ARG:NH1	1:NV:104:GLU:OE1	2.26	0.59
1:MY:9:LEU:HB2	1:MY:20:THR:HG23	1.83	0.59
1:CC:9:LEU:HB2	1:CC:20:THR:HG23	1.83	0.59
1:JR:80:SER:HB2	1:ND:74:VAL:HG22	1.85	0.59
1:NH:9:LEU:HB2	1:NH:20:THR:HG23	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:38:LEU:HD22	1:BJ:10:ARG:HH21	1.67	0.59
1:AI:26:VAL:HG21	1:GD:113:TYR:O	2.03	0.59
1:AL:10:ARG:HH21	1:FP:38:LEU:HD22	1.68	0.59
1:AR:74:VAL:HG22	1:ED:80:SER:HB2	1.85	0.59
1:BS:119:ASP:O	1:FE:8:LYS:HB2	2.02	0.59
1:CD:85:THR:O	1:CD:90:ARG:NH2	2.33	0.59
1:DG:9:LEU:HB2	1:DG:20:THR:HG23	1.83	0.59
1:DM:9:LEU:HB2	1:DM:20:THR:HG23	1.83	0.59
1:DP:9:LEU:HB2	1:DP:20:THR:HG23	1.83	0.59
1:GD:9:LEU:HB2	1:GD:20:THR:HG23	1.84	0.59
1:HH:15:ASP:OD1	1:MN:10:ARG:NH2	2.36	0.59
1:IH:74:VAL:HG22	1:LT:80:SER:HB2	1.85	0.59
1:IW:16:SER:HA	1:IW:35:VAL:HG12	1.83	0.59
1:JC:80:SER:HB2	1:MO:74:VAL:HG22	1.83	0.59
1:NS:16:SER:HA	1:NS:35:VAL:HG12	1.82	0.59
1:AN:85:THR:O	1:AN:90:ARG:NH2	2.33	0.59
1:AO:80:SER:HB2	1:EA:74:VAL:HG22	1.83	0.59
1:BH:9:LEU:HB2	1:BH:20:THR:HG23	1.84	0.59
1:BV:119:ASP:O	1:FH:8:LYS:HB2	2.03	0.59
1:CR:9:LEU:HB2	1:CR:20:THR:HG23	1.83	0.59
1:KI:85:THR:O	1:KI:90:ARG:NH2	2.34	0.59
1:KV:16:SER:HA	1:KV:35:VAL:HG12	1.82	0.59
1:NT:9:LEU:HB2	1:NT:20:THR:HG23	1.84	0.59
1:AY:9:LEU:HB2	1:AY:20:THR:HG23	1.84	0.59
1:BJ:80:SER:HB2	1:EV:74:VAL:CG2	2.33	0.59
1:CL:76:LYS:O	1:CM:77:THR:HA	2.03	0.59
1:CU:9:LEU:HB2	1:CU:20:THR:HG23	1.83	0.59
1:DF:80:SER:HB2	1:GR:74:VAL:HG22	1.84	0.59
1:EE:76:LYS:O	1:EF:77:THR:HA	2.03	0.59
1:FF:76:LYS:O	1:FG:77:THR:HA	2.03	0.59
1:FX:9:LEU:HB2	1:FX:20:THR:HG23	1.84	0.59
1:GT:85:THR:O	1:GT:90:ARG:NH2	2.33	0.59
1:HH:76:LYS:O	1:HI:77:THR:HA	2.03	0.59
1:IP:85:THR:O	1:IP:90:ARG:NH2	2.33	0.59
1:IT:92:GLU:OE2	1:MF:57:LYS:NZ	2.34	0.59
1:JA:9:LEU:HB2	1:JA:20:THR:HG23	1.83	0.59
1:JN:85:THR:O	1:JN:90:ARG:NH2	2.33	0.59
1:NE:9:LEU:HB2	1:NE:20:THR:HG23	1.83	0.59
1:CA:85:THR:O	1:CA:90:ARG:NH2	2.33	0.59
1:CL:9:LEU:HB2	1:CL:20:THR:HG23	1.84	0.59
1:CT:112:ALA:O	1:GF:49:VAL:HG11	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EH:9:LEU:HB2	1:EH:20:THR:HG23	1.83	0.59
1:FO:76:LYS:O	1:FP:77:THR:HA	2.03	0.59
1:FU:76:LYS:O	1:FV:77:THR:HA	2.03	0.59
1:GS:9:LEU:HB2	1:GS:20:THR:HG23	1.83	0.59
1:HU:85:THR:O	1:HU:90:ARG:NH2	2.33	0.59
1:ID:85:THR:O	1:ID:90:ARG:NH2	2.33	0.59
1:IX:9:LEU:HB2	1:IX:20:THR:HG23	1.83	0.59
1:JD:38:LEU:HB2	1:JK:10:ARG:NH1	2.18	0.59
1:LX:76:LYS:O	1:LY:77:THR:HA	2.03	0.59
1:MM:15:ASP:OD1	1:NU:10:ARG:NH2	2.36	0.59
1:NK:76:LYS:O	1:NL:77:THR:HA	2.03	0.59
1:AM:76:LYS:O	1:AN:77:THR:HA	2.03	0.59
1:AT:85:THR:O	1:AT:90:ARG:NH2	2.33	0.59
1:BE:76:LYS:O	1:BF:77:THR:HA	2.03	0.59
1:CG:85:THR:O	1:CG:90:ARG:NH2	2.33	0.59
1:CQ:49:VAL:HG11	1:GC:112:ALA:O	2.02	0.59
1:CX:76:LYS:O	1:CY:77:THR:HA	2.03	0.59
1:DA:76:LYS:O	1:DB:77:THR:HA	2.03	0.59
1:DD:9:LEU:HB2	1:DD:20:THR:HG23	1.84	0.59
1:DS:114:SER:HA	1:GR:26:VAL:CG2	2.32	0.59
1:ET:9:LEU:HB2	1:ET:20:THR:HG23	1.84	0.59
1:GA:9:LEU:HB2	1:GA:20:THR:HG23	1.83	0.59
1:GZ:85:THR:O	1:GZ:90:ARG:NH2	2.33	0.59
1:HN:76:LYS:O	1:HO:77:THR:HA	2.03	0.59
1:IO:76:LYS:O	1:IP:77:THR:HA	2.03	0.59
1:IU:76:LYS:O	1:IV:77:THR:HA	2.03	0.59
1:JA:76:LYS:O	1:JB:77:THR:HA	2.03	0.59
1:MG:76:LYS:O	1:MH:77:THR:HA	2.03	0.59
1:MJ:9:LEU:HB2	1:MJ:20:THR:HG23	1.84	0.59
1:AV:15:ASP:OD1	1:FD:10:ARG:NH2	2.36	0.59
1:BT:76:LYS:O	1:BU:77:THR:HA	2.03	0.59
1:CY:38:LEU:HD22	1:DL:10:ARG:HH21	1.67	0.59
1:DC:92:GLU:OE2	1:GO:57:LYS:NZ	2.31	0.59
1:DJ:76:LYS:O	1:DK:77:THR:HA	2.03	0.59
1:DM:76:LYS:O	1:DN:77:THR:HA	2.03	0.59
1:DP:76:LYS:O	1:DQ:77:THR:HA	2.03	0.59
1:DS:76:LYS:O	1:DT:77:THR:HA	2.03	0.59
1:DY:9:LEU:HB2	1:DY:20:THR:HG23	1.83	0.59
1:EQ:9:LEU:HB2	1:EQ:20:THR:HG23	1.84	0.59
1:ET:76:LYS:O	1:EU:77:THR:HA	2.03	0.59
1:EW:76:LYS:O	1:EX:77:THR:HA	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FI:76:LYS:O	1:FJ:77:THR:HA	2.03	0.59
1:GD:76:LYS:O	1:GE:77:THR:HA	2.03	0.59
1:GG:76:LYS:O	1:GH:77:THR:HA	2.03	0.59
1:GY:9:LEU:HB2	1:GY:20:THR:HG23	1.84	0.59
1:HA:59:ILE:HD12	1:KM:89:ASP:OD2	2.03	0.59
1:IC:9:LEU:HB2	1:IC:20:THR:HG23	1.84	0.59
1:JG:76:LYS:O	1:JH:77:THR:HA	2.03	0.59
1:JL:112:ALA:O	1:MX:49:VAL:HG11	2.03	0.59
1:JS:76:LYS:O	1:JT:77:THR:HA	2.03	0.59
1:JV:9:LEU:HB2	1:JV:20:THR:HG23	1.84	0.59
1:KB:76:LYS:O	1:KC:77:THR:HA	2.03	0.59
1:LC:76:LYS:O	1:LD:77:THR:HA	2.03	0.59
1:LG:85:THR:O	1:LG:90:ARG:NH2	2.33	0.59
1:MG:9:LEU:HB2	1:MG:20:THR:HG23	1.83	0.59
1:NQ:76:LYS:O	1:NR:77:THR:HA	2.03	0.59
1:AS:76:LYS:O	1:AT:77:THR:HA	2.03	0.58
1:CC:76:LYS:O	1:CD:77:THR:HA	2.03	0.58
1:CF:76:LYS:O	1:CG:77:THR:HA	2.03	0.58
1:EH:76:LYS:O	1:EI:77:THR:HA	2.03	0.58
1:EN:76:LYS:O	1:EO:77:THR:HA	2.03	0.58
1:FC:9:LEU:HB2	1:FC:20:THR:HG23	1.84	0.58
1:FT:26:VAL:HG21	1:GP:113:TYR:O	2.03	0.58
1:GP:76:LYS:O	1:GQ:77:THR:HA	2.03	0.58
1:GQ:85:THR:O	1:GQ:90:ARG:NH2	2.33	0.58
1:HG:112:ALA:O	1:KS:49:VAL:HG11	2.03	0.58
1:II:76:LYS:O	1:IJ:77:THR:HA	2.03	0.58
1:KN:9:LEU:HB2	1:KN:20:THR:HG23	1.84	0.58
1:KZ:76:LYS:O	1:LA:77:THR:HA	2.03	0.58
1:MA:76:LYS:O	1:MB:77:THR:HA	2.03	0.58
1:MM:9:LEU:HB2	1:MM:20:THR:HG23	1.84	0.58
1:MM:76:LYS:O	1:MN:77:THR:HA	2.03	0.58
1:AJ:52:MET:HG2	1:AJ:78:GLU:HG3	1.86	0.58
1:AM:52:MET:HG2	1:AM:78:GLU:HG3	1.86	0.58
1:AV:52:MET:HG2	1:AV:78:GLU:HG3	1.86	0.58
1:BB:76:LYS:O	1:BC:77:THR:HA	2.03	0.58
1:BK:76:LYS:O	1:BL:77:THR:HA	2.03	0.58
1:BN:76:LYS:O	1:BO:77:THR:HA	2.03	0.58
1:BZ:76:LYS:O	1:CA:77:THR:HA	2.03	0.58
1:CB:125:ASP:HB2	1:FN:4:ILE:HG12	1.85	0.58
1:DD:76:LYS:O	1:DE:77:THR:HA	2.03	0.58
1:DT:85:THR:O	1:DT:90:ARG:NH2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FC:76:LYS:O	1:FD:77:THR:HA	2.03	0.58
1:GY:76:LYS:O	1:GZ:77:THR:HA	2.03	0.58
1:HF:10:ARG:NH1	1:IC:38:LEU:HB2	2.18	0.58
1:IC:76:LYS:O	1:ID:77:THR:HA	2.03	0.58
1:IO:52:MET:HG2	1:IO:78:GLU:HG3	1.86	0.58
1:IU:9:LEU:HB2	1:IU:20:THR:HG23	1.84	0.58
1:JD:76:LYS:O	1:JE:77:THR:HA	2.03	0.58
1:JS:86:THR:HG22	1:JS:88:GLU:H	1.69	0.58
1:JV:52:MET:HG2	1:JV:78:GLU:HG3	1.86	0.58
1:JY:9:LEU:HB2	1:JY:20:THR:HG23	1.84	0.58
1:JY:86:THR:HG22	1:JY:88:GLU:H	1.69	0.58
1:KR:85:THR:O	1:KR:90:ARG:NH2	2.33	0.58
1:LR:52:MET:HG2	1:LR:78:GLU:HG3	1.86	0.58
1:NH:76:LYS:O	1:NI:77:THR:HA	2.03	0.58
1:AF:92:GLU:CD	1:DR:57:LYS:HZ3	2.07	0.58
1:AU:74:VAL:HG22	1:EG:80:SER:HB2	1.85	0.58
1:BV:8:LYS:HB2	1:FH:119:ASP:O	2.02	0.58
1:BV:92:GLU:CD	1:FH:57:LYS:HZ3	2.06	0.58
1:CO:52:MET:HG2	1:CO:78:GLU:HG3	1.86	0.58
1:CO:86:THR:HG22	1:CO:88:GLU:H	1.69	0.58
1:DC:92:GLU:CD	1:GO:57:LYS:HZ3	2.06	0.58
1:DD:86:THR:HG22	1:DD:88:GLU:H	1.69	0.58
1:DV:9:LEU:HB2	1:DV:20:THR:HG23	1.83	0.58
1:EQ:76:LYS:O	1:ER:77:THR:HA	2.03	0.58
1:ET:86:THR:HG22	1:ET:88:GLU:H	1.69	0.58
1:FR:9:LEU:HB2	1:FR:20:THR:HG23	1.84	0.58
1:FR:52:MET:HG2	1:FR:78:GLU:HG3	1.86	0.58
1:GJ:76:LYS:O	1:GK:77:THR:HA	2.03	0.58
1:HE:9:LEU:HB2	1:HE:20:THR:HG23	1.84	0.58
1:HH:9:LEU:HB2	1:HH:20:THR:HG23	1.83	0.58
1:HN:86:THR:HG22	1:HN:88:GLU:H	1.69	0.58
1:IG:66:ALA:HB1	1:IM:66:ALA:HB3	1.84	0.58
1:IS:10:ARG:HH11	1:KK:38:LEU:HB2	1.68	0.58
1:IX:76:LYS:O	1:IY:77:THR:HA	2.03	0.58
1:IX:86:THR:HG22	1:IX:88:GLU:H	1.69	0.58
1:IY:38:LEU:HD22	1:KS:10:ARG:HH21	1.68	0.58
1:JA:86:THR:HG22	1:JA:88:GLU:H	1.69	0.58
1:JF:59:ILE:HD12	1:MR:89:ASP:OD2	2.03	0.58
1:JP:86:THR:HG22	1:JP:88:GLU:H	1.69	0.58
1:LF:86:THR:HG22	1:LF:88:GLU:H	1.69	0.58
1:LL:9:LEU:HB2	1:LL:20:THR:HG23	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LM:85:THR:O	1:LM:90:ARG:NH2	2.33	0.58
1:LO:86:THR:HG22	1:LO:88:GLU:H	1.69	0.58
1:MG:86:THR:HG22	1:MG:88:GLU:H	1.69	0.58
1:MS:76:LYS:O	1:MT:77:THR:HA	2.03	0.58
1:MY:76:LYS:O	1:MZ:77:THR:HA	2.03	0.58
1:MY:86:THR:HG22	1:MY:88:GLU:H	1.68	0.58
1:NB:76:LYS:O	1:NC:77:THR:HA	2.03	0.58
1:NK:52:MET:HG2	1:NK:78:GLU:HG3	1.86	0.58
1:AD:52:MET:HG2	1:AD:78:GLU:HG3	1.86	0.58
1:AO:59:ILE:HD12	1:EA:89:ASP:OD2	2.03	0.58
1:AP:9:LEU:HB2	1:AP:20:THR:HG23	1.84	0.58
1:AY:52:MET:HG2	1:AY:78:GLU:HG3	1.86	0.58
1:BE:52:MET:HG2	1:BE:78:GLU:HG3	1.86	0.58
1:BK:86:THR:HG22	1:BK:88:GLU:H	1.69	0.58
1:BZ:52:MET:HG2	1:BZ:78:GLU:HG3	1.86	0.58
1:CF:52:MET:HG2	1:CF:78:GLU:HG3	1.86	0.58
1:CU:76:LYS:O	1:CV:77:THR:HA	2.03	0.58
1:DD:52:MET:HG2	1:DD:78:GLU:HG3	1.85	0.58
1:DH:85:THR:O	1:DH:90:ARG:NH2	2.33	0.58
1:DS:52:MET:HG2	1:DS:78:GLU:HG3	1.86	0.58
1:EE:86:THR:HG22	1:EE:88:GLU:H	1.69	0.58
1:EN:86:THR:HG22	1:EN:88:GLU:H	1.69	0.58
1:ER:10:ARG:NH2	1:FL:15:ASP:OD1	2.36	0.58
1:FL:86:THR:HG22	1:FL:88:GLU:H	1.69	0.58
1:GV:76:LYS:O	1:GW:77:THR:HA	2.03	0.58
1:JG:52:MET:HG2	1:JG:78:GLU:HG3	1.86	0.58
1:JV:76:LYS:O	1:JW:77:THR:HA	2.03	0.58
1:JX:8:LYS:HB2	1:NJ:119:ASP:O	2.03	0.58
1:JY:52:MET:HG2	1:JY:78:GLU:HG3	1.85	0.58
1:KB:86:THR:HG22	1:KB:88:GLU:H	1.69	0.58
1:KN:76:LYS:O	1:KO:77:THR:HA	2.03	0.58
1:KQ:86:THR:HG22	1:KQ:88:GLU:H	1.68	0.58
1:KT:76:LYS:O	1:KU:77:THR:HA	2.03	0.58
1:KZ:52:MET:HG2	1:KZ:78:GLU:HG3	1.86	0.58
1:LC:9:LEU:HB2	1:LC:20:THR:HG23	1.84	0.58
1:LG:15:ASP:OD1	1:LN:10:ARG:NH1	2.37	0.58
1:MV:86:THR:HG22	1:MV:88:GLU:H	1.69	0.58
1:MY:52:MET:HG2	1:MY:78:GLU:HG3	1.86	0.58
1:NK:86:THR:HG22	1:NK:88:GLU:H	1.69	0.58
1:NT:76:LYS:O	1:NU:77:THR:HA	2.03	0.58
1:AV:76:LYS:O	1:AW:77:THR:HA	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:99:SER:OG	1:BB:124:GLU:O	2.20	0.58
1:CO:76:LYS:O	1:CP:77:THR:HA	2.03	0.58
1:DG:76:LYS:O	1:DH:77:THR:HA	2.03	0.58
1:DV:86:THR:HG22	1:DV:88:GLU:H	1.69	0.58
1:EQ:52:MET:HG2	1:EQ:78:GLU:HG3	1.86	0.58
1:FC:86:THR:HG22	1:FC:88:GLU:H	1.69	0.58
1:FL:76:LYS:O	1:FM:77:THR:HA	2.03	0.58
1:GA:52:MET:HG2	1:GA:78:GLU:HG3	1.85	0.58
1:GS:76:LYS:O	1:GT:77:THR:HA	2.03	0.58
1:HQ:52:MET:HG2	1:HQ:78:GLU:HG3	1.86	0.58
1:HW:86:THR:HG22	1:HW:88:GLU:H	1.69	0.58
1:HZ:76:LYS:O	1:IA:77:THR:HA	2.03	0.58
1:IR:9:LEU:HB2	1:IR:20:THR:HG23	1.84	0.58
1:JP:76:LYS:O	1:JQ:77:THR:HA	2.03	0.58
1:KT:52:MET:HG2	1:KT:78:GLU:HG3	1.86	0.58
1:LO:76:LYS:O	1:LP:77:THR:HA	2.03	0.58
1:LX:52:MET:HG2	1:LX:78:GLU:HG3	1.86	0.58
1:MA:86:THR:HG22	1:MA:88:GLU:H	1.69	0.58
1:MD:76:LYS:O	1:ME:77:THR:HA	2.03	0.58
1:BW:86:THR:HG22	1:BW:88:GLU:H	1.69	0.58
1:DP:52:MET:HG2	1:DP:78:GLU:HG3	1.85	0.58
1:DV:76:LYS:O	1:DW:77:THR:HA	2.03	0.58
1:EB:76:LYS:O	1:EC:77:THR:HA	2.03	0.58
1:EH:52:MET:HG2	1:EH:78:GLU:HG3	1.86	0.58
1:GG:52:MET:HG2	1:GG:78:GLU:HG3	1.86	0.58
1:GN:16:SER:HA	1:GN:35:VAL:HG12	1.86	0.58
1:IO:9:LEU:HB2	1:IO:20:THR:HG23	1.83	0.58
1:JA:52:MET:HG2	1:JA:78:GLU:HG3	1.86	0.58
1:JJ:86:THR:HG22	1:JJ:88:GLU:H	1.69	0.58
1:JU:104:GLU:OE1	1:NG:53:ARG:NH1	2.33	0.58
1:KO:16:SER:HA	1:KO:35:VAL:HG12	1.86	0.58
1:LV:85:THR:O	1:LV:90:ARG:NH2	2.33	0.58
1:MP:101:LEU:HD22	1:MQ:94:LEU:HD22	1.86	0.58
1:MS:52:MET:HG2	1:MS:78:GLU:HG3	1.86	0.58
1:NB:86:THR:HG22	1:NB:88:GLU:H	1.69	0.58
1:NC:16:SER:HA	1:NC:35:VAL:HG12	1.86	0.58
1:NE:76:LYS:O	1:NF:77:THR:HA	2.03	0.58
1:NF:16:SER:HA	1:NF:35:VAL:HG12	1.86	0.58
1:NT:52:MET:HG2	1:NT:78:GLU:HG3	1.86	0.58
1:AG:76:LYS:O	1:AH:77:THR:HA	2.03	0.58
1:AG:86:THR:HG22	1:AG:88:GLU:H	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:86:THR:HG22	1:AP:88:GLU:H	1.69	0.58
1:AQ:16:SER:HA	1:AQ:35:VAL:HG12	1.86	0.58
1:CF:9:LEU:HB2	1:CF:20:THR:HG23	1.84	0.58
1:CF:86:THR:HG22	1:CF:88:GLU:H	1.69	0.58
1:DS:101:LEU:HD22	1:DT:94:LEU:HD22	1.86	0.58
1:EB:86:THR:HG22	1:EB:88:GLU:H	1.69	0.58
1:FO:86:THR:HG22	1:FO:88:GLU:H	1.69	0.58
1:GA:86:THR:HG22	1:GA:88:GLU:H	1.69	0.58
1:GV:86:THR:HG22	1:GV:88:GLU:H	1.69	0.58
1:HH:86:THR:HG22	1:HH:88:GLU:H	1.69	0.58
1:HL:16:SER:HA	1:HL:35:VAL:HG12	1.86	0.58
1:HZ:86:THR:HG22	1:HZ:88:GLU:H	1.69	0.58
1:IG:16:SER:HA	1:IG:35:VAL:HG12	1.86	0.58
1:II:86:THR:HG22	1:II:88:GLU:H	1.69	0.58
1:JD:52:MET:HG2	1:JD:78:GLU:HG3	1.86	0.58
1:JJ:76:LYS:O	1:JK:77:THR:HA	2.03	0.58
1:JW:15:ASP:OD1	1:KJ:10:ARG:NH1	2.37	0.58
1:KH:52:MET:HG2	1:KH:78:GLU:HG3	1.86	0.58
1:KN:52:MET:HG2	1:KN:78:GLU:HG3	1.85	0.58
1:KT:86:THR:HG22	1:KT:88:GLU:H	1.69	0.58
1:KT:101:LEU:HD22	1:KU:94:LEU:HD22	1.86	0.58
1:KW:76:LYS:O	1:KX:77:THR:HA	2.03	0.58
1:KZ:99:SER:OG	1:KZ:124:GLU:O	2.20	0.58
1:LC:101:LEU:HD22	1:LD:94:LEU:HD22	1.86	0.58
1:LL:52:MET:HG2	1:LL:78:GLU:HG3	1.86	0.58
1:LU:86:THR:HG22	1:LU:88:GLU:H	1.69	0.58
1:LX:86:THR:HG22	1:LX:88:GLU:H	1.69	0.58
1:MK:16:SER:HA	1:MK:35:VAL:HG12	1.86	0.58
1:MS:9:LEU:HB2	1:MS:20:THR:HG23	1.84	0.58
1:MY:101:LEU:HD22	1:MZ:94:LEU:HD22	1.86	0.58
1:NO:16:SER:HA	1:NO:35:VAL:HG12	1.86	0.58
1:AA:86:THR:HG22	1:AA:88:GLU:H	1.69	0.58
1:AH:38:LEU:HD22	1:BG:10:ARG:HH21	1.69	0.58
1:AM:86:THR:HG22	1:AM:88:GLU:H	1.69	0.58
1:AY:76:LYS:O	1:AZ:77:THR:HA	2.03	0.58
1:BH:52:MET:HG2	1:BH:78:GLU:HG3	1.86	0.58
1:BI:85:THR:O	1:BI:90:ARG:NH2	2.33	0.58
1:BQ:52:MET:HG2	1:BQ:78:GLU:HG3	1.86	0.58
1:BQ:101:LEU:HD22	1:BR:94:LEU:HD22	1.86	0.58
1:BU:16:SER:HA	1:BU:35:VAL:HG12	1.86	0.58
1:CD:16:SER:HA	1:CD:35:VAL:HG12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CG:16:SER:HA	1:CG:35:VAL:HG12	1.86	0.58
1:CJ:16:SER:HA	1:CJ:35:VAL:HG12	1.86	0.58
1:DG:99:SER:OG	1:DG:124:GLU:O	2.20	0.58
1:DM:52:MET:HG2	1:DM:78:GLU:HG3	1.86	0.58
1:DY:76:LYS:O	1:DZ:77:THR:HA	2.03	0.58
1:DZ:16:SER:HA	1:DZ:35:VAL:HG12	1.86	0.58
1:EK:9:LEU:HB2	1:EK:20:THR:HG23	1.84	0.58
1:EK:52:MET:HG2	1:EK:78:GLU:HG3	1.86	0.58
1:FC:101:LEU:HD22	1:FD:94:LEU:HD22	1.86	0.58
1:GM:86:THR:HG22	1:GM:88:GLU:H	1.69	0.58
1:GS:86:THR:HG22	1:GS:88:GLU:H	1.69	0.58
1:HB:101:LEU:HD22	1:HC:94:LEU:HD22	1.86	0.58
1:HE:76:LYS:O	1:HF:77:THR:HA	2.03	0.58
1:HK:101:LEU:HD22	1:HL:94:LEU:HD22	1.86	0.58
1:HW:76:LYS:O	1:HX:77:THR:HA	2.03	0.58
1:IF:101:LEU:HD22	1:IG:94:LEU:HD22	1.86	0.58
1:JJ:52:MET:HG2	1:JJ:78:GLU:HG3	1.86	0.58
1:JQ:16:SER:HA	1:JQ:35:VAL:HG12	1.86	0.58
1:JT:16:SER:HA	1:JT:35:VAL:HG12	1.86	0.58
1:KK:76:LYS:O	1:KL:77:THR:HA	2.03	0.58
1:LL:76:LYS:O	1:LM:77:THR:HA	2.03	0.58
1:LM:16:SER:HA	1:LM:35:VAL:HG12	1.86	0.58
1:LP:16:SER:HA	1:LP:35:VAL:HG12	1.86	0.58
1:LU:76:LYS:O	1:LV:77:THR:HA	2.03	0.58
1:MM:86:THR:HG22	1:MM:88:GLU:H	1.69	0.58
1:MP:76:LYS:O	1:MQ:77:THR:HA	2.03	0.58
1:MS:86:THR:HG22	1:MS:88:GLU:H	1.69	0.58
1:NH:86:THR:HG22	1:NH:88:GLU:H	1.69	0.58
1:NN:86:THR:HG22	1:NN:88:GLU:H	1.69	0.58
1:AG:99:SER:OG	1:AG:124:GLU:O	2.20	0.58
1:AS:52:MET:HG2	1:AS:78:GLU:HG3	1.86	0.58
1:BN:86:THR:HG22	1:BN:88:GLU:H	1.69	0.58
1:CH:80:SER:HB2	1:FT:74:VAL:HG22	1.86	0.58
1:CK:10:ARG:HH21	1:CP:38:LEU:HD22	1.69	0.58
1:CX:86:THR:HG22	1:CX:88:GLU:H	1.68	0.58
1:DA:101:LEU:HD22	1:DB:94:LEU:HD22	1.86	0.58
1:DE:16:SER:HA	1:DE:35:VAL:HG12	1.86	0.58
1:EF:16:SER:HA	1:EF:35:VAL:HG12	1.86	0.58
1:EX:16:SER:HA	1:EX:35:VAL:HG12	1.86	0.58
1:FR:76:LYS:O	1:FS:77:THR:HA	2.03	0.58
1:GY:101:LEU:HD22	1:GZ:94:LEU:HD22	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HG:57:LYS:NZ	1:KS:92:GLU:CD	2.57	0.58
1:HI:85:THR:O	1:HI:90:ARG:NH2	2.33	0.58
1:HT:86:THR:HG22	1:HT:88:GLU:H	1.69	0.58
1:HZ:52:MET:HG2	1:HZ:78:GLU:HG3	1.86	0.58
1:IF:52:MET:HG2	1:IF:78:GLU:HG3	1.86	0.58
1:II:101:LEU:HD22	1:IJ:94:LEU:HD22	1.86	0.58
1:JC:113:TYR:CG	1:MO:90:ARG:NH2	2.72	0.58
1:JE:16:SER:HA	1:JE:35:VAL:HG12	1.86	0.58
1:JM:86:THR:HG22	1:JM:88:GLU:H	1.69	0.58
1:JP:52:MET:HG2	1:JP:78:GLU:HG3	1.86	0.58
1:KH:76:LYS:O	1:KI:77:THR:HA	2.03	0.58
1:LZ:26:VAL:HG21	1:MJ:113:TYR:O	2.04	0.58
1:MH:16:SER:HA	1:MH:35:VAL:HG12	1.86	0.58
1:MJ:76:LYS:O	1:MK:77:THR:HA	2.03	0.58
1:MJ:86:THR:HG22	1:MJ:88:GLU:H	1.69	0.58
1:MN:16:SER:HA	1:MN:35:VAL:HG12	1.86	0.58
1:NN:76:LYS:O	1:NO:77:THR:HA	2.03	0.58
1:BE:101:LEU:HD22	1:BF:94:LEU:HD22	1.86	0.58
1:BZ:86:THR:HG22	1:BZ:88:GLU:H	1.69	0.58
1:CI:86:THR:HG22	1:CI:88:GLU:H	1.69	0.58
1:CU:101:LEU:HD22	1:CV:94:LEU:HD22	1.86	0.58
1:DB:16:SER:HA	1:DB:35:VAL:HG12	1.86	0.58
1:DJ:86:THR:HG22	1:DJ:88:GLU:H	1.69	0.58
1:DV:52:MET:HG2	1:DV:78:GLU:HG3	1.86	0.58
1:DY:52:MET:HG2	1:DY:78:GLU:HG3	1.86	0.58
1:EL:16:SER:HA	1:EL:35:VAL:HG12	1.86	0.58
1:ET:101:LEU:HD22	1:EU:94:LEU:HD22	1.86	0.58
1:EU:16:SER:HA	1:EU:35:VAL:HG12	1.86	0.58
1:FD:16:SER:HA	1:FD:35:VAL:HG12	1.86	0.58
1:FR:86:THR:HG22	1:FR:88:GLU:H	1.69	0.58
1:GE:16:SER:HA	1:GE:35:VAL:HG12	1.86	0.58
1:GG:86:THR:HG22	1:GG:88:GLU:H	1.69	0.58
1:GJ:86:THR:HG22	1:GJ:88:GLU:H	1.69	0.58
1:GS:101:LEU:HD22	1:GT:94:LEU:HD22	1.86	0.58
1:IF:76:LYS:O	1:IG:77:THR:HA	2.03	0.58
1:IR:101:LEU:HD22	1:IS:94:LEU:HD22	1.86	0.58
1:JA:101:LEU:HD22	1:JB:94:LEU:HD22	1.86	0.58
1:JH:16:SER:HA	1:JH:35:VAL:HG12	1.86	0.58
1:JM:52:MET:HG2	1:JM:78:GLU:HG3	1.85	0.58
1:JM:76:LYS:O	1:JN:77:THR:HA	2.03	0.58
1:JP:101:LEU:HD22	1:JQ:94:LEU:HD22	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:76:LYS:O	1:KF:77:THR:HA	2.03	0.58
1:KJ:4:ILE:CG1	1:NV:125:ASP:HB2	2.33	0.58
1:MJ:101:LEU:HD22	1:MK:94:LEU:HD22	1.86	0.58
1:MM:101:LEU:HD22	1:MN:94:LEU:HD22	1.86	0.58
1:MS:38:LEU:HB2	1:NR:10:ARG:NH1	2.18	0.58
1:AA:76:LYS:O	1:AB:77:THR:HA	2.03	0.57
1:AB:16:SER:HA	1:AB:35:VAL:HG12	1.86	0.57
1:AH:16:SER:HA	1:AH:35:VAL:HG12	1.86	0.57
1:AJ:76:LYS:O	1:AK:77:THR:HA	2.03	0.57
1:AT:16:SER:HA	1:AT:35:VAL:HG12	1.86	0.57
1:BK:113:TYR:O	1:DX:26:VAL:HG21	2.04	0.57
1:BZ:101:LEU:HD22	1:CA:94:LEU:HD22	1.86	0.57
1:CR:38:LEU:HB2	1:DE:10:ARG:HH11	1.66	0.57
1:DJ:9:LEU:HB2	1:DJ:20:THR:HG23	1.83	0.57
1:DK:16:SER:HA	1:DK:35:VAL:HG12	1.86	0.57
1:DM:86:THR:HG22	1:DM:88:GLU:H	1.68	0.57
1:DV:101:LEU:HD22	1:DW:94:LEU:HD22	1.86	0.57
1:EB:101:LEU:HD22	1:EC:94:LEU:HD22	1.86	0.57
1:EE:52:MET:HG2	1:EE:78:GLU:HG3	1.86	0.57
1:FF:86:THR:HG22	1:FF:88:GLU:H	1.69	0.57
1:FL:52:MET:HG2	1:FL:78:GLU:HG3	1.86	0.57
1:FU:52:MET:HG2	1:FU:78:GLU:HG3	1.85	0.57
1:HB:86:THR:HG22	1:HB:88:GLU:H	1.69	0.57
1:HE:86:THR:HG22	1:HE:88:GLU:H	1.69	0.57
1:HI:16:SER:HA	1:HI:35:VAL:HG12	1.86	0.57
1:HK:86:THR:HG22	1:HK:88:GLU:H	1.69	0.57
1:HZ:9:LEU:HB2	1:HZ:20:THR:HG23	1.84	0.57
1:JO:49:VAL:HG11	1:NA:112:ALA:O	2.04	0.57
1:KH:101:LEU:HD22	1:KI:94:LEU:HD22	1.86	0.57
1:LF:113:TYR:O	1:LN:26:VAL:HG21	2.04	0.57
1:LI:76:LYS:O	1:LJ:77:THR:HA	2.03	0.57
1:LO:52:MET:HG2	1:LO:78:GLU:HG3	1.86	0.57
1:LR:76:LYS:O	1:LS:77:THR:HA	2.03	0.57
1:LR:101:LEU:HD22	1:LS:94:LEU:HD22	1.86	0.57
1:MP:86:THR:HG22	1:MP:88:GLU:H	1.69	0.57
1:NE:52:MET:HG2	1:NE:78:GLU:HG3	1.85	0.57
1:NT:86:THR:HG22	1:NT:88:GLU:H	1.69	0.57
1:NT:101:LEU:HD22	1:NU:94:LEU:HD22	1.86	0.57
1:AE:16:SER:HA	1:AE:35:VAL:HG12	1.86	0.57
1:AP:52:MET:HG2	1:AP:78:GLU:HG3	1.86	0.57
1:AY:86:THR:HG22	1:AY:88:GLU:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:86:THR:HG22	1:BH:88:GLU:H	1.69	0.57
1:BV:112:ALA:O	1:FH:49:VAL:HG11	2.03	0.57
1:BW:76:LYS:O	1:BX:77:THR:HA	2.03	0.57
1:CC:86:THR:HG22	1:CC:88:GLU:H	1.69	0.57
1:CP:16:SER:HA	1:CP:35:VAL:HG12	1.86	0.57
1:CR:76:LYS:O	1:CS:77:THR:HA	2.03	0.57
1:CS:16:SER:HA	1:CS:35:VAL:HG12	1.86	0.57
1:CX:101:LEU:HD22	1:CY:94:LEU:HD22	1.86	0.57
1:CY:16:SER:HA	1:CY:35:VAL:HG12	1.86	0.57
1:DA:86:THR:HG22	1:DA:88:GLU:H	1.69	0.57
1:DP:86:THR:HG22	1:DP:88:GLU:H	1.69	0.57
1:EK:76:LYS:O	1:EL:77:THR:HA	2.03	0.57
1:FF:52:MET:HG2	1:FF:78:GLU:HG3	1.86	0.57
1:FU:86:THR:HG22	1:FU:88:GLU:H	1.69	0.57
1:GD:52:MET:HG2	1:GD:78:GLU:HG3	1.86	0.57
1:HG:10:ARG:NH1	1:NC:15:ASP:OD1	2.37	0.57
1:HK:76:LYS:O	1:HL:77:THR:HA	2.03	0.57
1:HN:52:MET:HG2	1:HN:78:GLU:HG3	1.86	0.57
1:ID:16:SER:HA	1:ID:35:VAL:HG12	1.86	0.57
1:IP:16:SER:HA	1:IP:35:VAL:HG12	1.86	0.57
1:IT:53:ARG:NH1	1:MF:104:GLU:OE1	2.29	0.57
1:JD:101:LEU:HD22	1:JE:94:LEU:HD22	1.86	0.57
1:JK:16:SER:HA	1:JK:35:VAL:HG12	1.86	0.57
1:JY:76:LYS:O	1:JZ:77:THR:HA	2.03	0.57
1:KI:16:SER:HA	1:KI:35:VAL:HG12	1.86	0.57
1:KK:101:LEU:HD22	1:KL:94:LEU:HD22	1.86	0.57
1:KU:16:SER:HA	1:KU:35:VAL:HG12	1.86	0.57
1:LG:16:SER:HA	1:LG:35:VAL:HG12	1.86	0.57
1:LI:101:LEU:HD22	1:LJ:94:LEU:HD22	1.86	0.57
1:LR:86:THR:HG22	1:LR:88:GLU:H	1.68	0.57
1:NQ:52:MET:HG2	1:NQ:78:GLU:HG3	1.86	0.57
1:AD:86:THR:HG22	1:AD:88:GLU:H	1.69	0.57
1:AG:52:MET:HG2	1:AG:78:GLU:HG3	1.86	0.57
1:AO:8:LYS:HB2	1:EA:119:ASP:O	2.04	0.57
1:AS:86:THR:HG22	1:AS:88:GLU:H	1.69	0.57
1:BC:16:SER:HA	1:BC:35:VAL:HG12	1.86	0.57
1:BK:52:MET:HG2	1:BK:78:GLU:HG3	1.86	0.57
1:BQ:76:LYS:O	1:BR:77:THR:HA	2.03	0.57
1:BT:101:LEU:HD22	1:BU:94:LEU:HD22	1.86	0.57
1:CI:101:LEU:HD22	1:CJ:94:LEU:HD22	1.86	0.57
1:CL:38:LEU:HB2	1:DH:10:ARG:NH1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CT:49:VAL:HG11	1:GF:112:ALA:O	2.04	0.57
1:DN:16:SER:HA	1:DN:35:VAL:HG12	1.86	0.57
1:EI:16:SER:HA	1:EI:35:VAL:HG12	1.86	0.57
1:EW:101:LEU:HD22	1:EX:94:LEU:HD22	1.86	0.57
1:FA:16:SER:HA	1:FA:35:VAL:HG12	1.86	0.57
1:FG:16:SER:HA	1:FG:35:VAL:HG12	1.86	0.57
1:FI:52:MET:HG2	1:FI:78:GLU:HG3	1.85	0.57
1:FI:86:THR:HG22	1:FI:88:GLU:H	1.69	0.57
1:FU:101:LEU:HD22	1:FV:94:LEU:HD22	1.86	0.57
1:GA:76:LYS:O	1:GB:77:THR:HA	2.03	0.57
1:GP:52:MET:HG2	1:GP:78:GLU:HG3	1.86	0.57
1:GP:86:THR:HG22	1:GP:88:GLU:H	1.69	0.57
1:GY:86:THR:HG22	1:GY:88:GLU:H	1.69	0.57
1:HB:52:MET:HG2	1:HB:78:GLU:HG3	1.86	0.57
1:HO:16:SER:HA	1:HO:35:VAL:HG12	1.86	0.57
1:HP:49:VAL:HG11	1:LB:112:ALA:O	2.03	0.57
1:HQ:86:THR:HG22	1:HQ:88:GLU:H	1.69	0.57
1:IJ:16:SER:HA	1:IJ:35:VAL:HG12	1.86	0.57
1:IL:52:MET:HG2	1:IL:78:GLU:HG3	1.86	0.57
1:IL:76:LYS:O	1:IM:77:THR:HA	2.03	0.57
1:KA:74:VAL:HG22	1:NM:80:SER:HB2	1.84	0.57
1:KC:16:SER:HA	1:KC:35:VAL:HG12	1.86	0.57
1:KL:16:SER:HA	1:KL:35:VAL:HG12	1.86	0.57
1:LA:16:SER:HA	1:LA:35:VAL:HG12	1.86	0.57
1:LF:76:LYS:O	1:LG:77:THR:HA	2.03	0.57
1:LF:101:LEU:HD22	1:LG:94:LEU:HD22	1.86	0.57
1:LI:86:THR:HG22	1:LI:88:GLU:H	1.69	0.57
1:LY:16:SER:HA	1:LY:35:VAL:HG12	1.86	0.57
1:MA:52:MET:HG2	1:MA:78:GLU:HG3	1.86	0.57
1:MD:101:LEU:HD22	1:ME:94:LEU:HD22	1.86	0.57
1:ME:16:SER:HA	1:ME:35:VAL:HG12	1.86	0.57
1:MV:52:MET:HG2	1:MV:78:GLU:HG3	1.86	0.57
1:MZ:16:SER:HA	1:MZ:35:VAL:HG12	1.86	0.57
1:NB:52:MET:HG2	1:NB:78:GLU:HG3	1.86	0.57
1:NH:52:MET:HG2	1:NH:78:GLU:HG3	1.86	0.57
1:NU:16:SER:HA	1:NU:35:VAL:HG12	1.86	0.57
1:AJ:101:LEU:HD22	1:AK:94:LEU:HD22	1.86	0.57
1:AK:16:SER:HA	1:AK:35:VAL:HG12	1.86	0.57
1:AM:101:LEU:HD22	1:AN:94:LEU:HD22	1.86	0.57
1:AP:76:LYS:O	1:AQ:77:THR:HA	2.03	0.57
1:AV:86:THR:HG22	1:AV:88:GLU:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:16:SER:HA	1:BF:35:VAL:HG12	1.86	0.57
1:BH:76:LYS:O	1:BI:77:THR:HA	2.03	0.57
1:CA:16:SER:HA	1:CA:35:VAL:HG12	1.86	0.57
1:CB:92:GLU:OE2	1:FN:57:LYS:NZ	2.37	0.57
1:CB:92:GLU:CD	1:FN:57:LYS:HZ1	2.08	0.57
1:CL:52:MET:HG2	1:CL:78:GLU:HG3	1.86	0.57
1:CM:16:SER:HA	1:CM:35:VAL:HG12	1.86	0.57
1:CR:101:LEU:HD22	1:CS:94:LEU:HD22	1.86	0.57
1:EH:86:THR:HG22	1:EH:88:GLU:H	1.69	0.57
1:FX:76:LYS:O	1:FY:77:THR:HA	2.03	0.57
1:GD:86:THR:HG22	1:GD:88:GLU:H	1.69	0.57
1:GG:101:LEU:HD22	1:GH:94:LEU:HD22	1.86	0.57
1:GZ:16:SER:HA	1:GZ:35:VAL:HG12	1.86	0.57
1:HM:112:ALA:O	1:KY:49:VAL:HG11	2.05	0.57
1:HQ:113:TYR:O	1:LK:26:VAL:HG21	2.05	0.57
1:HT:76:LYS:O	1:HU:77:THR:HA	2.03	0.57
1:HW:52:MET:HG2	1:HW:78:GLU:HG3	1.86	0.57
1:IR:86:THR:HG22	1:IR:88:GLU:H	1.69	0.57
1:IY:28:LEU:HD21	1:IY:60:LEU:HG	1.87	0.57
1:KB:101:LEU:HD22	1:KC:94:LEU:HD22	1.86	0.57
1:LB:86:THR:OG1	1:LB:89:ASP:OD2	2.23	0.57
1:LC:52:MET:HG2	1:LC:78:GLU:HG3	1.86	0.57
1:LF:52:MET:HG2	1:LF:78:GLU:HG3	1.86	0.57
1:LL:86:THR:HG22	1:LL:88:GLU:H	1.69	0.57
1:LX:101:LEU:HD22	1:LY:94:LEU:HD22	1.86	0.57
1:LZ:86:THR:OG1	1:LZ:89:ASP:OD2	2.23	0.57
1:MP:52:MET:HG2	1:MP:78:GLU:HG3	1.86	0.57
1:AD:38:LEU:HB2	1:GB:10:ARG:NH1	2.20	0.57
1:AD:76:LYS:O	1:AE:77:THR:HA	2.03	0.57
1:AQ:28:LEU:HD21	1:AQ:60:LEU:HG	1.87	0.57
1:BQ:86:THR:HG22	1:BQ:88:GLU:H	1.69	0.57
1:CH:8:LYS:HB2	1:FT:119:ASP:O	2.04	0.57
1:CH:86:THR:OG1	1:CH:89:ASP:OD2	2.23	0.57
1:CI:76:LYS:O	1:CJ:77:THR:HA	2.03	0.57
1:CK:86:THR:OG1	1:CK:89:ASP:OD2	2.23	0.57
1:CL:86:THR:HG22	1:CL:88:GLU:H	1.69	0.57
1:CR:15:ASP:OD1	1:DE:10:ARG:NH2	2.38	0.57
1:CS:28:LEU:HD21	1:CS:60:LEU:HG	1.87	0.57
1:CY:38:LEU:CD2	1:DL:10:ARG:HH21	2.16	0.57
1:DG:101:LEU:HD22	1:DH:94:LEU:HD22	1.86	0.57
1:DP:101:LEU:HD22	1:DQ:94:LEU:HD22	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EZ:76:LYS:O	1:FA:77:THR:HA	2.03	0.57
1:EZ:101:LEU:HD22	1:FA:94:LEU:HD22	1.86	0.57
1:FG:28:LEU:HD21	1:FG:60:LEU:HG	1.87	0.57
1:FW:86:THR:OG1	1:FW:89:ASP:OD2	2.23	0.57
1:GB:28:LEU:HD21	1:GB:60:LEU:HG	1.87	0.57
1:GE:28:LEU:HD21	1:GE:60:LEU:HG	1.87	0.57
1:GF:86:THR:OG1	1:GF:89:ASP:OD2	2.23	0.57
1:GT:16:SER:HA	1:GT:35:VAL:HG12	1.86	0.57
1:HB:76:LYS:O	1:HC:77:THR:HA	2.03	0.57
1:HF:16:SER:HA	1:HF:35:VAL:HG12	1.86	0.57
1:IL:86:THR:HG22	1:IL:88:GLU:H	1.69	0.57
1:IM:28:LEU:HD21	1:IM:60:LEU:HG	1.87	0.57
1:IU:52:MET:HG2	1:IU:78:GLU:HG3	1.86	0.57
1:JD:86:THR:HG22	1:JD:88:GLU:H	1.69	0.57
1:JF:104:GLU:OE1	1:MR:53:ARG:NH1	2.32	0.57
1:JG:86:THR:HG22	1:JG:88:GLU:H	1.69	0.57
1:JG:101:LEU:HD22	1:JH:94:LEU:HD22	1.86	0.57
1:JI:49:VAL:HG11	1:MU:112:ALA:O	2.04	0.57
1:KC:28:LEU:HD21	1:KC:60:LEU:HG	1.87	0.57
1:KE:52:MET:HG2	1:KE:78:GLU:HG3	1.86	0.57
1:KF:16:SER:HA	1:KF:35:VAL:HG12	1.86	0.57
1:LA:28:LEU:HD21	1:LA:60:LEU:HG	1.87	0.57
1:LG:28:LEU:HD21	1:LG:60:LEU:HG	1.87	0.57
1:MO:86:THR:OG1	1:MO:89:ASP:OD2	2.23	0.57
1:MV:76:LYS:O	1:MW:77:THR:HA	2.03	0.57
1:NQ:86:THR:HG22	1:NQ:88:GLU:H	1.69	0.57
1:AR:49:VAL:HG11	1:ED:112:ALA:O	2.04	0.57
1:BL:28:LEU:HD21	1:BL:60:LEU:HG	1.87	0.57
1:BN:52:MET:HG2	1:BN:78:GLU:HG3	1.86	0.57
1:DB:28:LEU:HD21	1:DB:60:LEU:HG	1.87	0.57
1:DR:86:THR:OG1	1:DR:89:ASP:OD2	2.23	0.57
1:DS:86:THR:HG22	1:DS:88:GLU:H	1.69	0.57
1:EG:86:THR:OG1	1:EG:89:ASP:OD2	2.23	0.57
1:EW:86:THR:HG22	1:EW:88:GLU:H	1.69	0.57
1:EX:28:LEU:HD21	1:EX:60:LEU:HG	1.87	0.57
1:FJ:16:SER:HA	1:FJ:35:VAL:HG12	1.86	0.57
1:GA:101:LEU:HD22	1:GB:94:LEU:HD22	1.86	0.57
1:GB:16:SER:HA	1:GB:35:VAL:HG12	1.86	0.57
1:GD:101:LEU:HD22	1:GE:94:LEU:HD22	1.86	0.57
1:GS:52:MET:HG2	1:GS:78:GLU:HG3	1.86	0.57
1:GT:28:LEU:HD21	1:GT:60:LEU:HG	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GX:86:THR:OG1	1:GX:89:ASP:OD2	2.23	0.57
1:HY:86:THR:OG1	1:HY:89:ASP:OD2	2.23	0.57
1:IA:28:LEU:HD21	1:IA:60:LEU:HG	1.87	0.57
1:II:52:MET:HG2	1:II:78:GLU:HG3	1.86	0.57
1:IO:86:THR:HG22	1:IO:88:GLU:H	1.69	0.57
1:IS:16:SER:HA	1:IS:35:VAL:HG12	1.86	0.57
1:IV:28:LEU:HD21	1:IV:60:LEU:HG	1.87	0.57
1:JH:28:LEU:HD21	1:JH:60:LEU:HG	1.87	0.57
1:JN:28:LEU:HD21	1:JN:60:LEU:HG	1.87	0.57
1:JS:52:MET:HG2	1:JS:78:GLU:HG3	1.86	0.57
1:MJ:52:MET:HG2	1:MJ:78:GLU:HG3	1.86	0.57
1:MW:16:SER:HA	1:MW:35:VAL:HG12	1.86	0.57
1:NP:86:THR:OG1	1:NP:89:ASP:OD2	2.23	0.57
1:AP:101:LEU:HD22	1:AQ:94:LEU:HD22	1.86	0.57
1:AS:101:LEU:HD22	1:AT:94:LEU:HD22	1.86	0.57
1:AT:28:LEU:HD21	1:AT:60:LEU:HG	1.87	0.57
1:AW:16:SER:HA	1:AW:35:VAL:HG12	1.86	0.57
1:BB:52:MET:HG2	1:BB:78:GLU:HG3	1.86	0.57
1:BX:16:SER:HA	1:BX:35:VAL:HG12	1.86	0.57
1:BY:86:THR:OG1	1:BY:89:ASP:OD2	2.23	0.57
1:CB:86:THR:OG1	1:CB:89:ASP:OD2	2.23	0.57
1:CU:52:MET:HG2	1:CU:78:GLU:HG3	1.85	0.57
1:DA:52:MET:HG2	1:DA:78:GLU:HG3	1.85	0.57
1:DK:28:LEU:HD21	1:DK:60:LEU:HG	1.87	0.57
1:DN:28:LEU:HD21	1:DN:60:LEU:HG	1.87	0.57
1:DW:16:SER:HA	1:DW:35:VAL:HG12	1.86	0.57
1:EJ:86:THR:OG1	1:EJ:89:ASP:OD2	2.23	0.57
1:EO:16:SER:HA	1:EO:35:VAL:HG12	1.86	0.57
1:EQ:86:THR:HG22	1:EQ:88:GLU:H	1.69	0.57
1:ET:52:MET:HG2	1:ET:78:GLU:HG3	1.86	0.57
1:FI:101:LEU:HD22	1:FJ:94:LEU:HD22	1.86	0.57
1:FM:16:SER:HA	1:FM:35:VAL:HG12	1.86	0.57
1:FP:16:SER:HA	1:FP:35:VAL:HG12	1.86	0.57
1:FX:52:MET:HG2	1:FX:78:GLU:HG3	1.86	0.57
1:FX:86:THR:HG22	1:FX:88:GLU:H	1.69	0.57
1:GM:101:LEU:HD22	1:GN:94:LEU:HD22	1.86	0.57
1:GO:86:THR:OG1	1:GO:89:ASP:OD2	2.23	0.57
1:GV:52:MET:HG2	1:GV:78:GLU:HG3	1.85	0.57
1:HC:16:SER:HA	1:HC:35:VAL:HG12	1.86	0.57
1:HK:15:ASP:OD1	1:MQ:10:ARG:NH2	2.38	0.57
1:HX:28:LEU:HD21	1:HX:60:LEU:HG	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IB:119:ASP:O	1:LN:8:LYS:HB2	2.03	0.57
1:IG:28:LEU:HD21	1:IG:60:LEU:HG	1.87	0.57
1:IX:52:MET:HG2	1:IX:78:GLU:HG3	1.86	0.57
1:JB:28:LEU:HD21	1:JB:60:LEU:HG	1.87	0.57
1:JN:16:SER:HA	1:JN:35:VAL:HG12	1.86	0.57
1:KU:10:ARG:NH2	1:NB:15:ASP:OD1	2.38	0.57
1:LO:101:LEU:HD22	1:LP:94:LEU:HD22	1.86	0.57
1:MD:86:THR:HG22	1:MD:88:GLU:H	1.69	0.57
1:NL:16:SER:HA	1:NL:35:VAL:HG12	1.86	0.57
1:NN:52:MET:HG2	1:NN:78:GLU:HG3	1.85	0.57
1:AC:119:ASP:O	1:DO:8:LYS:HB2	2.05	0.57
1:AG:101:LEU:HD22	1:AH:94:LEU:HD22	1.86	0.57
1:AN:16:SER:HA	1:AN:35:VAL:HG12	1.86	0.57
1:BB:101:LEU:HD22	1:BC:94:LEU:HD22	1.86	0.57
1:BD:86:THR:OG1	1:BD:89:ASP:OD2	2.23	0.57
1:BO:16:SER:HA	1:BO:35:VAL:HG12	1.86	0.57
1:CE:57:LYS:HZ3	1:FQ:92:GLU:CD	2.08	0.57
1:CR:86:THR:HG22	1:CR:88:GLU:H	1.69	0.57
1:CT:86:THR:OG1	1:CT:89:ASP:OD2	2.23	0.57
1:DF:86:THR:OG1	1:DF:89:ASP:OD2	2.23	0.57
1:DG:86:THR:HG22	1:DG:88:GLU:H	1.69	0.57
1:DJ:52:MET:HG2	1:DJ:78:GLU:HG3	1.86	0.57
1:EA:86:THR:OG1	1:EA:89:ASP:OD2	2.23	0.57
1:EC:28:LEU:HD21	1:EC:60:LEU:HG	1.87	0.57
1:EK:101:LEU:HD22	1:EL:94:LEU:HD22	1.86	0.57
1:EM:86:THR:OG1	1:EM:89:ASP:OD2	2.23	0.57
1:EZ:86:THR:HG22	1:EZ:88:GLU:H	1.69	0.57
1:FC:52:MET:HG2	1:FC:78:GLU:HG3	1.86	0.57
1:FD:28:LEU:HD21	1:FD:60:LEU:HG	1.87	0.57
1:FR:101:LEU:HD22	1:FS:94:LEU:HD22	1.86	0.57
1:FS:28:LEU:HD21	1:FS:60:LEU:HG	1.87	0.57
1:GI:86:THR:OG1	1:GI:89:ASP:OD2	2.23	0.57
1:GJ:101:LEU:HD22	1:GK:94:LEU:HD22	1.86	0.57
1:GW:16:SER:HA	1:GW:35:VAL:HG12	1.86	0.57
1:GY:52:MET:HG2	1:GY:78:GLU:HG3	1.86	0.57
1:HM:57:LYS:HZ3	1:KY:92:GLU:CD	2.07	0.57
1:HM:86:THR:OG1	1:HM:89:ASP:OD2	2.23	0.57
1:HQ:76:LYS:O	1:HR:77:THR:HA	2.03	0.57
1:HV:86:THR:OG1	1:HV:89:ASP:OD2	2.23	0.57
1:IC:99:SER:OG	1:IC:124:GLU:O	2.20	0.57
1:ID:28:LEU:HD21	1:ID:60:LEU:HG	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IO:101:LEU:HD22	1:IP:94:LEU:HD22	1.86	0.57
1:JF:86:THR:OG1	1:JF:89:ASP:OD2	2.23	0.57
1:JV:86:THR:HG22	1:JV:88:GLU:H	1.69	0.57
1:JZ:28:LEU:HD21	1:JZ:60:LEU:HG	1.87	0.57
1:KB:52:MET:HG2	1:KB:78:GLU:HG3	1.86	0.57
1:KL:28:LEU:HD21	1:KL:60:LEU:HG	1.87	0.57
1:KQ:52:MET:HG2	1:KQ:78:GLU:HG3	1.86	0.57
1:KV:86:THR:OG1	1:KV:89:ASP:OD2	2.23	0.57
1:KW:52:MET:HG2	1:KW:78:GLU:HG3	1.86	0.57
1:KW:86:THR:HG22	1:KW:88:GLU:H	1.69	0.57
1:LJ:28:LEU:HD21	1:LJ:60:LEU:HG	1.87	0.57
1:LN:86:THR:OG1	1:LN:89:ASP:OD2	2.23	0.57
1:MF:86:THR:OG1	1:MF:89:ASP:OD2	2.23	0.57
1:MG:52:MET:HG2	1:MG:78:GLU:HG3	1.86	0.57
1:MK:28:LEU:HD21	1:MK:60:LEU:HG	1.87	0.57
1:MT:16:SER:HA	1:MT:35:VAL:HG12	1.86	0.57
1:MT:28:LEU:HD21	1:MT:60:LEU:HG	1.87	0.57
1:NF:28:LEU:HD21	1:NF:60:LEU:HG	1.87	0.57
1:NR:16:SER:HA	1:NR:35:VAL:HG12	1.86	0.57
1:NU:28:LEU:HD21	1:NU:60:LEU:HG	1.87	0.57
1:AA:52:MET:HG2	1:AA:78:GLU:HG3	1.86	0.57
1:AD:101:LEU:HD22	1:AE:94:LEU:HD22	1.86	0.57
1:AV:101:LEU:HD22	1:AW:94:LEU:HD22	1.86	0.57
1:BB:86:THR:HG22	1:BB:88:GLU:H	1.69	0.57
1:CH:10:ARG:NH1	1:CM:15:ASP:OD1	2.37	0.57
1:CI:15:ASP:OD1	1:CP:10:ARG:NH2	2.37	0.57
1:CI:52:MET:HG2	1:CI:78:GLU:HG3	1.86	0.57
1:CP:28:LEU:HD21	1:CP:60:LEU:HG	1.87	0.57
1:CQ:86:THR:OG1	1:CQ:89:ASP:OD2	2.23	0.57
1:DX:86:THR:OG1	1:DX:89:ASP:OD2	2.23	0.57
1:EN:101:LEU:HD22	1:EO:94:LEU:HD22	1.86	0.57
1:FH:42:ARG:HB2	1:FH:45:ASN:HB3	1.87	0.57
1:FH:86:THR:OG1	1:FH:89:ASP:OD2	2.23	0.57
1:FT:42:ARG:HB2	1:FT:45:ASN:HB3	1.87	0.57
1:FY:28:LEU:HD21	1:FY:60:LEU:HG	1.87	0.57
1:GJ:52:MET:HG2	1:GJ:78:GLU:HG3	1.86	0.57
1:HA:86:THR:OG1	1:HA:89:ASP:OD2	2.23	0.57
1:HH:52:MET:HG2	1:HH:78:GLU:HG3	1.86	0.57
1:HH:113:TYR:O	1:IW:26:VAL:HG21	2.03	0.57
1:HJ:86:THR:OG1	1:HJ:89:ASP:OD2	2.23	0.57
1:HP:8:LYS:HB2	1:LB:119:ASP:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HR:28:LEU:HD21	1:HR:60:LEU:HG	1.87	0.57
1:HS:86:THR:OG1	1:HS:89:ASP:OD2	2.23	0.57
1:HV:92:GLU:CD	1:LH:57:LYS:HZ3	2.08	0.57
1:HX:16:SER:HA	1:HX:35:VAL:HG12	1.86	0.57
1:IG:66:ALA:HB1	1:IM:66:ALA:CB	2.35	0.57
1:IU:101:LEU:HD22	1:IV:94:LEU:HD22	1.86	0.57
1:IV:16:SER:HA	1:IV:35:VAL:HG12	1.86	0.57
1:JR:86:THR:OG1	1:JR:89:ASP:OD2	2.23	0.57
1:JW:16:SER:HA	1:JW:35:VAL:HG12	1.86	0.57
1:KA:10:ARG:HH21	1:NI:38:LEU:HD22	1.69	0.57
1:KO:28:LEU:HD21	1:KO:60:LEU:HG	1.87	0.57
1:KQ:76:LYS:O	1:KR:77:THR:HA	2.03	0.57
1:KQ:101:LEU:HD22	1:KR:94:LEU:HD22	1.86	0.57
1:KR:28:LEU:HD21	1:KR:60:LEU:HG	1.87	0.57
1:KW:101:LEU:HD22	1:KX:94:LEU:HD22	1.86	0.57
1:KX:16:SER:HA	1:KX:35:VAL:HG12	1.86	0.57
1:LI:52:MET:HG2	1:LI:78:GLU:HG3	1.85	0.57
1:MC:86:THR:OG1	1:MC:89:ASP:OD2	2.23	0.57
1:MG:101:LEU:HD22	1:MH:94:LEU:HD22	1.86	0.57
1:MR:10:ARG:NH1	1:NO:15:ASP:OD1	2.38	0.57
1:NA:86:THR:OG1	1:NA:89:ASP:OD2	2.23	0.57
1:NE:86:THR:HG22	1:NE:88:GLU:H	1.69	0.57
1:AH:28:LEU:HD21	1:AH:60:LEU:HG	1.87	0.57
1:AI:8:LYS:HB2	1:DU:119:ASP:O	2.04	0.57
1:BN:101:LEU:HD22	1:BO:94:LEU:HD22	1.86	0.57
1:BP:42:ARG:HB2	1:BP:45:ASN:HB3	1.87	0.57
1:BP:90:ARG:NH2	1:FB:113:TYR:CD1	2.72	0.57
1:BZ:9:LEU:HG	1:BZ:10:ARG:HG3	1.87	0.57
1:CC:101:LEU:HD22	1:CD:94:LEU:HD22	1.86	0.57
1:CM:28:LEU:HD21	1:CM:60:LEU:HG	1.87	0.57
1:CR:52:MET:HG2	1:CR:78:GLU:HG3	1.86	0.57
1:CT:42:ARG:HB2	1:CT:45:ASN:HB3	1.87	0.57
1:DH:16:SER:HA	1:DH:35:VAL:HG12	1.86	0.57
1:EW:52:MET:HG2	1:EW:78:GLU:HG3	1.86	0.57
1:FF:101:LEU:HD22	1:FG:94:LEU:HD22	1.86	0.57
1:FX:101:LEU:HD22	1:FY:94:LEU:HD22	1.86	0.57
1:FY:16:SER:HA	1:FY:35:VAL:HG12	1.86	0.57
1:GK:16:SER:HA	1:GK:35:VAL:HG12	1.86	0.57
1:GM:76:LYS:O	1:GN:77:THR:HA	2.03	0.57
1:GQ:28:LEU:HD21	1:GQ:60:LEU:HG	1.87	0.57
1:HD:86:THR:OG1	1:HD:89:ASP:OD2	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HF:28:LEU:HD21	1:HF:60:LEU:HG	1.87	0.57
1:HI:28:LEU:HD21	1:HI:60:LEU:HG	1.87	0.57
1:HQ:101:LEU:HD22	1:HR:94:LEU:HD22	1.86	0.57
1:HT:101:LEU:HD22	1:HU:94:LEU:HD22	1.86	0.57
1:HU:28:LEU:HD21	1:HU:60:LEU:HG	1.87	0.57
1:IA:16:SER:HA	1:IA:35:VAL:HG12	1.86	0.57
1:IN:86:THR:OG1	1:IN:89:ASP:OD2	2.23	0.57
1:IR:52:MET:HG2	1:IR:78:GLU:HG3	1.86	0.57
1:IV:10:ARG:NH2	1:KN:15:ASP:OD1	2.37	0.57
1:IW:42:ARG:HB2	1:IW:45:ASN:HB3	1.87	0.57
1:JI:53:ARG:NH1	1:MU:104:GLU:OE1	2.29	0.57
1:JQ:28:LEU:HD21	1:JQ:60:LEU:HG	1.87	0.57
1:JX:80:SER:HB2	1:NJ:74:VAL:HG22	1.86	0.57
1:KE:9:LEU:HG	1:KE:10:ARG:HG3	1.87	0.57
1:KR:16:SER:HA	1:KR:35:VAL:HG12	1.86	0.57
1:LQ:86:THR:OG1	1:LQ:89:ASP:OD2	2.23	0.57
1:LU:52:MET:HG2	1:LU:78:GLU:HG3	1.86	0.57
1:ND:42:ARG:HB2	1:ND:45:ASN:HB3	1.87	0.57
1:NJ:86:THR:OG1	1:NJ:89:ASP:OD2	2.23	0.57
1:NN:101:LEU:HD22	1:NO:94:LEU:HD22	1.86	0.57
1:AE:28:LEU:HD21	1:AE:60:LEU:HG	1.87	0.56
1:AJ:86:THR:HG22	1:AJ:88:GLU:H	1.69	0.56
1:BL:16:SER:HA	1:BL:35:VAL:HG12	1.86	0.56
1:BP:74:VAL:HG22	1:FB:80:SER:HB2	1.86	0.56
1:BR:16:SER:HA	1:BR:35:VAL:HG12	1.86	0.56
1:BT:86:THR:HG22	1:BT:88:GLU:H	1.69	0.56
1:DT:28:LEU:HD21	1:DT:60:LEU:HG	1.87	0.56
1:FS:16:SER:HA	1:FS:35:VAL:HG12	1.86	0.56
1:FV:28:LEU:HD21	1:FV:60:LEU:HG	1.87	0.56
1:GL:42:ARG:HB2	1:GL:45:ASN:HB3	1.87	0.56
1:HA:112:ALA:O	1:KM:49:VAL:HG11	2.05	0.56
1:HE:52:MET:HG2	1:HE:78:GLU:HG3	1.86	0.56
1:HN:9:LEU:HG	1:HN:10:ARG:HG3	1.87	0.56
1:IB:86:THR:OG1	1:IB:89:ASP:OD2	2.23	0.56
1:IJ:38:LEU:CD2	1:KV:10:ARG:HH21	2.17	0.56
1:IR:76:LYS:O	1:IS:77:THR:HA	2.03	0.56
1:IY:16:SER:HA	1:IY:35:VAL:HG12	1.86	0.56
1:JV:101:LEU:HD22	1:JW:94:LEU:HD22	1.86	0.56
1:KE:86:THR:HG22	1:KE:88:GLU:H	1.69	0.56
1:KK:86:THR:HG22	1:KK:88:GLU:H	1.69	0.56
1:KN:86:THR:HG22	1:KN:88:GLU:H	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KZ:86:THR:HG22	1:KZ:88:GLU:H	1.69	0.56
1:LC:86:THR:HG22	1:LC:88:GLU:H	1.69	0.56
1:LW:86:THR:OG1	1:LW:89:ASP:OD2	2.23	0.56
1:NI:16:SER:HA	1:NI:35:VAL:HG12	1.86	0.56
1:NO:28:LEU:HD21	1:NO:60:LEU:HG	1.87	0.56
1:AC:4:ILE:CG1	1:DO:125:ASP:HB2	2.35	0.56
1:AP:9:LEU:HG	1:AP:10:ARG:HG3	1.88	0.56
1:AR:57:LYS:HZ3	1:ED:92:GLU:CD	2.08	0.56
1:AY:9:LEU:HG	1:AY:10:ARG:HG3	1.88	0.56
1:AY:101:LEU:HD22	1:AZ:94:LEU:HD22	1.86	0.56
1:BE:86:THR:HG22	1:BE:88:GLU:H	1.69	0.56
1:BH:101:LEU:HD22	1:BI:94:LEU:HD22	1.86	0.56
1:BU:28:LEU:HD21	1:BU:60:LEU:HG	1.87	0.56
1:BV:42:ARG:HB2	1:BV:45:ASN:HB3	1.87	0.56
1:BV:86:THR:OG1	1:BV:89:ASP:OD2	2.23	0.56
1:CB:57:LYS:NZ	1:FN:92:GLU:OE2	2.38	0.56
1:CN:42:ARG:HB2	1:CN:45:ASN:HB3	1.87	0.56
1:CV:16:SER:HA	1:CV:35:VAL:HG12	1.86	0.56
1:CW:86:THR:OG1	1:CW:89:ASP:OD2	2.23	0.56
1:CX:52:MET:HG2	1:CX:78:GLU:HG3	1.86	0.56
1:DI:42:ARG:HB2	1:DI:45:ASN:HB3	1.87	0.56
1:DL:42:ARG:HB2	1:DL:45:ASN:HB3	1.87	0.56
1:DM:9:LEU:HG	1:DM:10:ARG:HG3	1.88	0.56
1:DP:9:LEU:HG	1:DP:10:ARG:HG3	1.87	0.56
1:DT:16:SER:HA	1:DT:35:VAL:HG12	1.86	0.56
1:DY:9:LEU:HG	1:DY:10:ARG:HG3	1.87	0.56
1:EB:52:MET:HG2	1:EB:78:GLU:HG3	1.86	0.56
1:ED:42:ARG:HB2	1:ED:45:ASN:HB3	1.87	0.56
1:EN:52:MET:HG2	1:EN:78:GLU:HG3	1.85	0.56
1:EQ:101:LEU:HD22	1:ER:94:LEU:HD22	1.86	0.56
1:ER:16:SER:HA	1:ER:35:VAL:HG12	1.86	0.56
1:FC:9:LEU:HG	1:FC:10:ARG:HG3	1.87	0.56
1:FE:42:ARG:HB2	1:FE:45:ASN:HB3	1.87	0.56
1:FO:52:MET:HG2	1:FO:78:GLU:HG3	1.86	0.56
1:GC:42:ARG:HB2	1:GC:45:ASN:HB3	1.87	0.56
1:GM:52:MET:HG2	1:GM:78:GLU:HG3	1.85	0.56
1:HE:9:LEU:HG	1:HE:10:ARG:HG3	1.87	0.56
1:HT:52:MET:HG2	1:HT:78:GLU:HG3	1.86	0.56
1:IC:9:LEU:HG	1:IC:10:ARG:HG3	1.87	0.56
1:IC:52:MET:HG2	1:IC:78:GLU:HG3	1.86	0.56
1:IJ:28:LEU:HD21	1:IJ:60:LEU:HG	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:28:LEU:HD21	1:JE:60:LEU:HG	1.87	0.56
1:JO:86:THR:OG1	1:JO:89:ASP:OD2	2.23	0.56
1:JS:9:LEU:HG	1:JS:10:ARG:HG3	1.87	0.56
1:JS:101:LEU:HD22	1:JT:94:LEU:HD22	1.86	0.56
1:KN:9:LEU:HG	1:KN:10:ARG:HG3	1.88	0.56
1:LC:113:TYR:O	1:LT:26:VAL:HG21	2.05	0.56
1:LK:42:ARG:HB2	1:LK:45:ASN:HB3	1.87	0.56
1:LS:28:LEU:HD21	1:LS:60:LEU:HG	1.87	0.56
1:LT:42:ARG:HB2	1:LT:45:ASN:HB3	1.87	0.56
1:MD:52:MET:HG2	1:MD:78:GLU:HG3	1.86	0.56
1:MJ:9:LEU:HG	1:MJ:10:ARG:HG3	1.87	0.56
1:MM:52:MET:HG2	1:MM:78:GLU:HG3	1.86	0.56
1:MY:9:LEU:HG	1:MY:10:ARG:HG3	1.88	0.56
1:NG:86:THR:OG1	1:NG:89:ASP:OD2	2.23	0.56
1:NK:9:LEU:HG	1:NK:10:ARG:HG3	1.87	0.56
1:NS:86:THR:OG1	1:NS:89:ASP:OD2	2.23	0.56
1:AB:28:LEU:HD21	1:AB:60:LEU:HG	1.87	0.56
1:AF:10:ARG:HH21	1:GB:38:LEU:CD2	2.18	0.56
1:AI:42:ARG:HB2	1:AI:45:ASN:HB3	1.87	0.56
1:AL:42:ARG:HB2	1:AL:45:ASN:HB3	1.87	0.56
1:AR:86:THR:OG1	1:AR:89:ASP:OD2	2.23	0.56
1:AX:42:ARG:HB2	1:AX:45:ASN:HB3	1.87	0.56
1:BB:9:LEU:HG	1:BB:10:ARG:HG3	1.88	0.56
1:BG:42:ARG:HB2	1:BG:45:ASN:HB3	1.87	0.56
1:BK:9:LEU:HG	1:BK:10:ARG:HG3	1.88	0.56
1:BS:86:THR:OG1	1:BS:89:ASP:OD2	2.23	0.56
1:BS:92:GLU:CD	1:FE:57:LYS:HZ1	2.07	0.56
1:BT:52:MET:HG2	1:BT:78:GLU:HG3	1.86	0.56
1:BY:42:ARG:HB2	1:BY:45:ASN:HB3	1.87	0.56
1:BY:112:ALA:O	1:FK:49:VAL:HG11	2.05	0.56
1:CD:28:LEU:HD21	1:CD:60:LEU:HG	1.87	0.56
1:CF:9:LEU:HG	1:CF:10:ARG:HG3	1.88	0.56
1:CF:101:LEU:HD22	1:CG:94:LEU:HD22	1.86	0.56
1:CG:28:LEU:HD21	1:CG:60:LEU:HG	1.87	0.56
1:CO:9:LEU:HG	1:CO:10:ARG:HG3	1.88	0.56
1:CR:9:LEU:HG	1:CR:10:ARG:HG3	1.88	0.56
1:CU:86:THR:HG22	1:CU:88:GLU:H	1.69	0.56
1:CZ:42:ARG:HB2	1:CZ:45:ASN:HB3	1.87	0.56
1:DA:9:LEU:HG	1:DA:10:ARG:HG3	1.88	0.56
1:DC:42:ARG:HB2	1:DC:45:ASN:HB3	1.87	0.56
1:DD:9:LEU:HG	1:DD:10:ARG:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DD:101:LEU:HD22	1:DE:94:LEU:HD22	1.86	0.56
1:DJ:9:LEU:HG	1:DJ:10:ARG:HG3	1.87	0.56
1:DQ:16:SER:HA	1:DQ:35:VAL:HG12	1.86	0.56
1:DW:28:LEU:HD21	1:DW:60:LEU:HG	1.87	0.56
1:DY:86:THR:HG22	1:DY:88:GLU:H	1.69	0.56
1:DY:101:LEU:HD22	1:DZ:94:LEU:HD22	1.86	0.56
1:EE:9:LEU:HG	1:EE:10:ARG:HG3	1.87	0.56
1:EK:86:THR:HG22	1:EK:88:GLU:H	1.69	0.56
1:EZ:52:MET:HG2	1:EZ:78:GLU:HG3	1.85	0.56
1:FB:42:ARG:HB2	1:FB:45:ASN:HB3	1.87	0.56
1:FL:101:LEU:HD22	1:FM:94:LEU:HD22	1.86	0.56
1:FW:42:ARG:HB2	1:FW:45:ASN:HB3	1.87	0.56
1:GR:42:ARG:HB2	1:GR:45:ASN:HB3	1.87	0.56
1:GW:28:LEU:HD21	1:GW:60:LEU:HG	1.87	0.56
1:GZ:28:LEU:HD21	1:GZ:60:LEU:HG	1.87	0.56
1:HA:92:GLU:OE2	1:KM:57:LYS:NZ	2.35	0.56
1:HE:101:LEU:HD22	1:HF:94:LEU:HD22	1.86	0.56
1:HJ:92:GLU:CD	1:KV:57:LYS:HZ3	2.08	0.56
1:HO:28:LEU:HD21	1:HO:60:LEU:HG	1.87	0.56
1:HQ:9:LEU:HG	1:HQ:10:ARG:HG3	1.87	0.56
1:IE:42:ARG:HB2	1:IE:45:ASN:HB3	1.87	0.56
1:IL:101:LEU:HD22	1:IM:94:LEU:HD22	1.86	0.56
1:IO:9:LEU:HG	1:IO:10:ARG:HG3	1.87	0.56
1:IU:9:LEU:HG	1:IU:10:ARG:HG3	1.87	0.56
1:IU:86:THR:HG22	1:IU:88:GLU:H	1.69	0.56
1:IU:114:SER:HA	1:KP:26:VAL:CG2	2.36	0.56
1:IU:114:SER:HA	1:KP:26:VAL:HG21	1.87	0.56
1:IZ:8:LYS:HB2	1:ML:119:ASP:O	2.04	0.56
1:JB:16:SER:HA	1:JB:35:VAL:HG12	1.86	0.56
1:JC:86:THR:OG1	1:JC:89:ASP:OD2	2.23	0.56
1:JD:9:LEU:HG	1:JD:10:ARG:HG3	1.88	0.56
1:JF:42:ARG:HB2	1:JF:45:ASN:HB3	1.87	0.56
1:JI:42:ARG:HB2	1:JI:45:ASN:HB3	1.87	0.56
1:JT:28:LEU:HD21	1:JT:60:LEU:HG	1.87	0.56
1:JU:86:THR:OG1	1:JU:89:ASP:OD2	2.23	0.56
1:KA:57:LYS:HZ3	1:NM:92:GLU:CD	2.07	0.56
1:KA:86:THR:OG1	1:KA:89:ASP:OD2	2.23	0.56
1:KH:86:THR:HG22	1:KH:88:GLU:H	1.69	0.56
1:KK:52:MET:HG2	1:KK:78:GLU:HG3	1.85	0.56
1:KP:42:ARG:HB2	1:KP:45:ASN:HB3	1.87	0.56
1:KQ:9:LEU:HG	1:KQ:10:ARG:HG3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KS:42:ARG:HB2	1:KS:45:ASN:HB3	1.87	0.56
1:KX:10:ARG:NH2	1:MV:15:ASP:OD1	2.39	0.56
1:LD:28:LEU:HD21	1:LD:60:LEU:HG	1.87	0.56
1:LM:28:LEU:HD21	1:LM:60:LEU:HG	1.87	0.56
1:LR:9:LEU:HG	1:LR:10:ARG:HG3	1.87	0.56
1:LU:9:LEU:HG	1:LU:10:ARG:HG3	1.87	0.56
1:LV:28:LEU:HD21	1:LV:60:LEU:HG	1.87	0.56
1:MA:101:LEU:HD22	1:MB:94:LEU:HD22	1.86	0.56
1:MB:28:LEU:HD21	1:MB:60:LEU:HG	1.87	0.56
1:MV:101:LEU:HD22	1:MW:94:LEU:HD22	1.86	0.56
1:MW:28:LEU:HD21	1:MW:60:LEU:HG	1.87	0.56
1:NA:42:ARG:HB2	1:NA:45:ASN:HB3	1.87	0.56
1:NE:9:LEU:HG	1:NE:10:ARG:HG3	1.87	0.56
1:NE:101:LEU:HD22	1:NF:94:LEU:HD22	1.86	0.56
1:AF:86:THR:OG1	1:AF:89:ASP:OD2	2.23	0.56
1:AG:9:LEU:HG	1:AG:10:ARG:HG3	1.88	0.56
1:AZ:16:SER:HA	1:AZ:35:VAL:HG12	1.86	0.56
1:BM:86:THR:OG1	1:BM:89:ASP:OD2	2.23	0.56
1:CL:101:LEU:HD22	1:CM:94:LEU:HD22	1.86	0.56
1:CO:101:LEU:HD22	1:CP:94:LEU:HD22	1.86	0.56
1:CY:28:LEU:HD21	1:CY:60:LEU:HG	1.87	0.56
1:DO:42:ARG:HB2	1:DO:45:ASN:HB3	1.87	0.56
1:EE:101:LEU:HD22	1:EF:94:LEU:HD22	1.86	0.56
1:EW:9:LEU:HG	1:EW:10:ARG:HG3	1.88	0.56
1:EY:86:THR:OG1	1:EY:89:ASP:OD2	2.23	0.56
1:EZ:9:LEU:HG	1:EZ:10:ARG:HG3	1.87	0.56
1:FA:28:LEU:HD21	1:FA:60:LEU:HG	1.87	0.56
1:FK:86:THR:OG1	1:FK:89:ASP:OD2	2.23	0.56
1:FZ:86:THR:OG1	1:FZ:89:ASP:OD2	2.23	0.56
1:GK:28:LEU:HD21	1:GK:60:LEU:HG	1.87	0.56
1:GQ:16:SER:HA	1:GQ:35:VAL:HG12	1.86	0.56
1:HA:42:ARG:HB2	1:HA:45:ASN:HB3	1.87	0.56
1:HD:42:ARG:HB2	1:HD:45:ASN:HB3	1.87	0.56
1:IC:86:THR:HG22	1:IC:88:GLU:H	1.69	0.56
1:IH:42:ARG:HB2	1:IH:45:ASN:HB3	1.87	0.56
1:IM:16:SER:HA	1:IM:35:VAL:HG12	1.86	0.56
1:JM:101:LEU:HD22	1:JN:94:LEU:HD22	1.86	0.56
1:JO:42:ARG:HB2	1:JO:45:ASN:HB3	1.87	0.56
1:JW:28:LEU:HD21	1:JW:60:LEU:HG	1.87	0.56
1:JX:86:THR:OG1	1:JX:89:ASP:OD2	2.23	0.56
1:KB:9:LEU:HG	1:KB:10:ARG:HG3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LS:16:SER:HA	1:LS:35:VAL:HG12	1.86	0.56
1:LW:42:ARG:HB2	1:LW:45:ASN:HB3	1.87	0.56
1:MR:86:THR:OG1	1:MR:89:ASP:OD2	2.23	0.56
1:NH:9:LEU:HG	1:NH:10:ARG:HG3	1.87	0.56
1:NP:42:ARG:HB2	1:NP:45:ASN:HB3	1.87	0.56
1:NV:42:ARG:HB2	1:NV:45:ASN:HB3	1.87	0.56
1:AA:101:LEU:HD22	1:AB:94:LEU:HD22	1.86	0.56
1:AC:42:ARG:HB2	1:AC:45:ASN:HB3	1.87	0.56
1:AI:86:THR:OG1	1:AI:89:ASP:OD2	2.23	0.56
1:AJ:9:LEU:HG	1:AJ:10:ARG:HG3	1.88	0.56
1:AO:86:THR:OG1	1:AO:89:ASP:OD2	2.23	0.56
1:AS:9:LEU:HG	1:AS:10:ARG:HG3	1.87	0.56
1:CE:42:ARG:HB2	1:CE:45:ASN:HB3	1.87	0.56
1:CL:9:LEU:HG	1:CL:10:ARG:HG3	1.88	0.56
1:DG:9:LEU:HG	1:DG:10:ARG:HG3	1.87	0.56
1:DJ:101:LEU:HD22	1:DK:94:LEU:HD22	1.86	0.56
1:DU:86:THR:OG1	1:DU:89:ASP:OD2	2.23	0.56
1:EF:28:LEU:HD21	1:EF:60:LEU:HG	1.87	0.56
1:EK:9:LEU:HG	1:EK:10:ARG:HG3	1.87	0.56
1:FV:16:SER:HA	1:FV:35:VAL:HG12	1.86	0.56
1:GF:42:ARG:HB2	1:GF:45:ASN:HB3	1.87	0.56
1:GH:16:SER:HA	1:GH:35:VAL:HG12	1.86	0.56
1:GP:101:LEU:HD22	1:GQ:94:LEU:HD22	1.86	0.56
1:HB:9:LEU:HG	1:HB:10:ARG:HG3	1.87	0.56
1:HH:9:LEU:HG	1:HH:10:ARG:HG3	1.87	0.56
1:HT:9:LEU:HG	1:HT:10:ARG:HG3	1.87	0.56
1:HV:42:ARG:HB2	1:HV:45:ASN:HB3	1.87	0.56
1:HY:53:ARG:NH1	1:LK:104:GLU:OE1	2.31	0.56
1:HZ:101:LEU:HD22	1:IA:94:LEU:HD22	1.86	0.56
1:IF:86:THR:HG22	1:IF:88:GLU:H	1.69	0.56
1:IK:42:ARG:HB2	1:IK:45:ASN:HB3	1.87	0.56
1:IK:57:LYS:HZ3	1:LW:92:GLU:CD	2.07	0.56
1:JJ:9:LEU:HG	1:JJ:10:ARG:HG3	1.88	0.56
1:JL:86:THR:OG1	1:JL:89:ASP:OD2	2.23	0.56
1:KD:112:ALA:O	1:NP:49:VAL:HG11	2.06	0.56
1:KE:101:LEU:HD22	1:KF:94:LEU:HD22	1.86	0.56
1:KJ:42:ARG:HB2	1:KJ:45:ASN:HB3	1.87	0.56
1:KP:21:LEU:HB3	1:KP:22:PRO:HD2	1.88	0.56
1:KS:86:THR:OG1	1:KS:89:ASP:OD2	2.23	0.56
1:LZ:42:ARG:HB2	1:LZ:45:ASN:HB3	1.87	0.56
1:MD:9:LEU:HG	1:MD:10:ARG:HG3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MV:9:LEU:HG	1:MV:10:ARG:HG3	1.87	0.56
1:NB:101:LEU:HD22	1:NC:94:LEU:HD22	1.86	0.56
1:NM:42:ARG:HB2	1:NM:45:ASN:HB3	1.87	0.56
1:NS:21:LEU:HB3	1:NS:22:PRO:HD2	1.88	0.56
1:AC:10:ARG:NH1	1:FY:15:ASP:OD1	2.39	0.56
1:AR:42:ARG:HB2	1:AR:45:ASN:HB3	1.87	0.56
1:AV:9:LEU:HG	1:AV:10:ARG:HG3	1.88	0.56
1:AW:28:LEU:HD21	1:AW:60:LEU:HG	1.87	0.56
1:AY:15:ASP:OD1	1:EX:10:ARG:NH2	2.38	0.56
1:BE:9:LEU:HG	1:BE:10:ARG:HG3	1.87	0.56
1:BM:21:LEU:HB3	1:BM:22:PRO:HD2	1.88	0.56
1:BT:9:LEU:HG	1:BT:10:ARG:HG3	1.88	0.56
1:BV:49:VAL:HG11	1:FH:112:ALA:O	2.05	0.56
1:BW:52:MET:HG2	1:BW:78:GLU:HG3	1.86	0.56
1:BW:101:LEU:HD22	1:BX:94:LEU:HD22	1.86	0.56
1:CH:21:LEU:HB3	1:CH:22:PRO:HD2	1.88	0.56
1:CJ:28:LEU:HD21	1:CJ:60:LEU:HG	1.87	0.56
1:CV:28:LEU:HD21	1:CV:60:LEU:HG	1.87	0.56
1:CX:9:LEU:HG	1:CX:10:ARG:HG3	1.87	0.56
1:DE:28:LEU:HD21	1:DE:60:LEU:HG	1.87	0.56
1:DF:21:LEU:HB3	1:DF:22:PRO:HD2	1.88	0.56
1:DL:86:THR:OG1	1:DL:89:ASP:OD2	2.23	0.56
1:DU:42:ARG:HB2	1:DU:45:ASN:HB3	1.87	0.56
1:DX:42:ARG:HB2	1:DX:45:ASN:HB3	1.87	0.56
1:EG:21:LEU:HB3	1:EG:22:PRO:HD2	1.88	0.56
1:EM:42:ARG:HB2	1:EM:45:ASN:HB3	1.87	0.56
1:EO:28:LEU:HD21	1:EO:60:LEU:HG	1.87	0.56
1:ER:28:LEU:HD21	1:ER:60:LEU:HG	1.87	0.56
1:FK:42:ARG:HB2	1:FK:45:ASN:HB3	1.87	0.56
1:FO:101:LEU:HD22	1:FP:94:LEU:HD22	1.86	0.56
1:FT:86:THR:OG1	1:FT:89:ASP:OD2	2.23	0.56
1:GD:9:LEU:HG	1:GD:10:ARG:HG3	1.87	0.56
1:HH:101:LEU:HD22	1:HI:94:LEU:HD22	1.86	0.56
1:HU:16:SER:HA	1:HU:35:VAL:HG12	1.86	0.56
1:HW:38:LEU:HD22	1:LV:10:ARG:HH11	1.71	0.56
1:HW:101:LEU:HD22	1:HX:94:LEU:HD22	1.86	0.56
1:IK:86:THR:OG1	1:IK:89:ASP:OD2	2.23	0.56
1:IQ:86:THR:OG1	1:IQ:89:ASP:OD2	2.23	0.56
1:IS:28:LEU:HD21	1:IS:60:LEU:HG	1.87	0.56
1:IT:42:ARG:HB2	1:IT:45:ASN:HB3	1.87	0.56
1:IX:101:LEU:HD22	1:IY:94:LEU:HD22	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JA:9:LEU:HG	1:JA:10:ARG:HG3	1.88	0.56
1:JI:86:THR:OG1	1:JI:89:ASP:OD2	2.23	0.56
1:JV:9:LEU:HG	1:JV:10:ARG:HG3	1.88	0.56
1:KD:42:ARG:HB2	1:KD:45:ASN:HB3	1.87	0.56
1:KH:9:LEU:HG	1:KH:10:ARG:HG3	1.88	0.56
1:KN:101:LEU:HD22	1:KO:94:LEU:HD22	1.86	0.56
1:LL:9:LEU:HG	1:LL:10:ARG:HG3	1.87	0.56
1:LU:101:LEU:HD22	1:LV:94:LEU:HD22	1.86	0.56
1:ML:86:THR:OG1	1:ML:89:ASP:OD2	2.23	0.56
1:MP:9:LEU:HG	1:MP:10:ARG:HG3	1.88	0.56
1:NH:101:LEU:HD22	1:NI:94:LEU:HD22	1.86	0.56
1:NK:101:LEU:HD22	1:NL:94:LEU:HD22	1.86	0.56
1:NP:21:LEU:HB3	1:NP:22:PRO:HD2	1.88	0.56
1:AF:42:ARG:HB2	1:AF:45:ASN:HB3	1.87	0.56
1:AR:92:GLU:OE2	1:ED:57:LYS:NZ	2.36	0.56
1:BA:21:LEU:HB3	1:BA:22:PRO:HD2	1.88	0.56
1:BI:16:SER:HA	1:BI:35:VAL:HG12	1.86	0.56
1:BJ:21:LEU:HB3	1:BJ:22:PRO:HD2	1.88	0.56
1:BK:101:LEU:HD22	1:BL:94:LEU:HD22	1.86	0.56
1:BR:28:LEU:HD21	1:BR:60:LEU:HG	1.87	0.56
1:BS:42:ARG:HB2	1:BS:45:ASN:HB3	1.87	0.56
1:DM:101:LEU:HD22	1:DN:94:LEU:HD22	1.86	0.56
1:EL:28:LEU:HD21	1:EL:60:LEU:HG	1.87	0.56
1:EP:86:THR:OG1	1:EP:89:ASP:OD2	2.23	0.56
1:FT:21:LEU:HB3	1:FT:22:PRO:HD2	1.88	0.56
1:FU:9:LEU:HG	1:FU:10:ARG:HG3	1.88	0.56
1:GC:86:THR:OG1	1:GC:89:ASP:OD2	2.23	0.56
1:GI:21:LEU:HB3	1:GI:22:PRO:HD2	1.88	0.56
1:GN:28:LEU:HD21	1:GN:60:LEU:HG	1.87	0.56
1:GV:101:LEU:HD22	1:GW:94:LEU:HD22	1.86	0.56
1:HG:86:THR:OG1	1:HG:89:ASP:OD2	2.23	0.56
1:HJ:112:ALA:O	1:KV:49:VAL:HG11	2.05	0.56
1:HS:21:LEU:HB3	1:HS:22:PRO:HD2	1.88	0.56
1:HV:21:LEU:HB3	1:HV:22:PRO:HD2	1.88	0.56
1:HW:9:LEU:HG	1:HW:10:ARG:HG3	1.87	0.56
1:IH:112:ALA:O	1:LT:49:VAL:HG11	2.05	0.56
1:JU:21:LEU:HB3	1:JU:22:PRO:HD2	1.88	0.56
1:KD:74:VAL:HG22	1:NP:80:SER:HB2	1.88	0.56
1:KZ:101:LEU:HD22	1:LA:94:LEU:HD22	1.86	0.56
1:LB:42:ARG:HB2	1:LB:45:ASN:HB3	1.87	0.56
1:LD:16:SER:HA	1:LD:35:VAL:HG12	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LH:42:ARG:HB2	1:LH:45:ASN:HB3	1.87	0.56
1:LI:9:LEU:HG	1:LI:10:ARG:HG3	1.87	0.56
1:LJ:16:SER:HA	1:LJ:35:VAL:HG12	1.86	0.56
1:LL:101:LEU:HD22	1:LM:94:LEU:HD22	1.86	0.56
1:LQ:42:ARG:HB2	1:LQ:45:ASN:HB3	1.87	0.56
1:MO:42:ARG:HB2	1:MO:45:ASN:HB3	1.87	0.56
1:MQ:16:SER:HA	1:MQ:35:VAL:HG12	1.86	0.56
1:MQ:28:LEU:HD21	1:MQ:60:LEU:HG	1.87	0.56
1:MS:101:LEU:HD22	1:MT:94:LEU:HD22	1.86	0.56
1:NB:9:LEU:HG	1:NB:10:ARG:HG3	1.88	0.56
1:NS:42:ARG:HB2	1:NS:45:ASN:HB3	1.87	0.56
1:NT:9:LEU:HG	1:NT:10:ARG:HG3	1.88	0.56
1:AU:86:THR:OG1	1:AU:89:ASP:OD2	2.23	0.56
1:BC:28:LEU:HD21	1:BC:60:LEU:HG	1.87	0.56
1:BG:21:LEU:HB3	1:BG:22:PRO:HD2	1.88	0.56
1:DG:52:MET:HG2	1:DG:78:GLU:HG3	1.86	0.56
1:DO:86:THR:OG1	1:DO:89:ASP:OD2	2.23	0.56
1:EB:9:LEU:HG	1:EB:10:ARG:HG3	1.87	0.56
1:EH:101:LEU:HD22	1:EI:94:LEU:HD22	1.86	0.56
1:HM:42:ARG:HB2	1:HM:45:ASN:HB3	1.87	0.56
1:II:9:LEU:HG	1:II:10:ARG:HG3	1.87	0.56
1:IQ:74:VAL:HG22	1:MC:80:SER:HB2	1.87	0.56
1:JH:10:ARG:NH1	1:NE:38:LEU:HB2	2.20	0.56
1:JJ:101:LEU:HD22	1:JK:94:LEU:HD22	1.86	0.56
1:JL:10:ARG:HH21	1:KF:38:LEU:HD22	1.70	0.56
1:JZ:16:SER:HA	1:JZ:35:VAL:HG12	1.86	0.56
1:KA:42:ARG:HB2	1:KA:45:ASN:HB3	1.87	0.56
1:KF:28:LEU:HD21	1:KF:60:LEU:HG	1.87	0.56
1:KT:9:LEU:HG	1:KT:10:ARG:HG3	1.88	0.56
1:KV:21:LEU:HB3	1:KV:22:PRO:HD2	1.88	0.56
1:KW:9:LEU:HG	1:KW:10:ARG:HG3	1.87	0.56
1:LN:42:ARG:HB2	1:LN:45:ASN:HB3	1.87	0.56
1:LO:9:LEU:HG	1:LO:10:ARG:HG3	1.87	0.56
1:LP:28:LEU:HD21	1:LP:60:LEU:HG	1.87	0.56
1:LZ:21:LEU:HB3	1:LZ:22:PRO:HD2	1.88	0.56
1:MB:16:SER:HA	1:MB:35:VAL:HG12	1.86	0.56
1:MC:21:LEU:HB3	1:MC:22:PRO:HD2	1.88	0.56
1:ME:28:LEU:HD21	1:ME:60:LEU:HG	1.87	0.56
1:MS:9:LEU:HG	1:MS:10:ARG:HG3	1.87	0.56
1:MS:38:LEU:HD22	1:NR:10:ARG:HH11	1.70	0.56
1:AC:86:THR:OG1	1:AC:89:ASP:OD2	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:15:ASP:OD1	1:GE:10:ARG:NH2	2.39	0.56
1:AI:21:LEU:HB3	1:AI:22:PRO:HD2	1.88	0.56
1:BA:42:ARG:HB2	1:BA:45:ASN:HB3	1.87	0.56
1:BJ:42:ARG:HB2	1:BJ:45:ASN:HB3	1.87	0.56
1:BQ:9:LEU:HG	1:BQ:10:ARG:HG3	1.87	0.56
1:CC:52:MET:HG2	1:CC:78:GLU:HG3	1.86	0.56
1:CE:86:THR:OG1	1:CE:89:ASP:OD2	2.23	0.56
1:CH:42:ARG:HB2	1:CH:45:ASN:HB3	1.87	0.56
1:DC:86:THR:OG1	1:DC:89:ASP:OD2	2.23	0.56
1:DS:9:LEU:HG	1:DS:10:ARG:HG3	1.88	0.56
1:DU:21:LEU:HB3	1:DU:22:PRO:HD2	1.88	0.56
1:EU:28:LEU:HD21	1:EU:60:LEU:HG	1.87	0.56
1:EY:42:ARG:HB2	1:EY:45:ASN:HB3	1.87	0.56
1:FB:21:LEU:HB3	1:FB:22:PRO:HD2	1.88	0.56
1:FE:21:LEU:HB3	1:FE:22:PRO:HD2	1.88	0.56
1:FE:86:THR:OG1	1:FE:89:ASP:OD2	2.23	0.56
1:FJ:28:LEU:HD21	1:FJ:60:LEU:HG	1.87	0.56
1:FK:21:LEU:HB3	1:FK:22:PRO:HD2	1.88	0.56
1:FN:21:LEU:HB3	1:FN:22:PRO:HD2	1.88	0.56
1:FQ:42:ARG:HB2	1:FQ:45:ASN:HB3	1.87	0.56
1:FW:21:LEU:HB3	1:FW:22:PRO:HD2	1.88	0.56
1:HG:21:LEU:HB3	1:HG:22:PRO:HD2	1.88	0.56
1:HK:52:MET:HG2	1:HK:78:GLU:HG3	1.86	0.56
1:HR:16:SER:HA	1:HR:35:VAL:HG12	1.86	0.56
1:IE:86:THR:OG1	1:IE:89:ASP:OD2	2.23	0.56
1:IH:21:LEU:HB3	1:IH:22:PRO:HD2	1.88	0.56
1:IN:42:ARG:HB2	1:IN:45:ASN:HB3	1.87	0.56
1:JF:21:LEU:HB3	1:JF:22:PRO:HD2	1.88	0.56
1:JU:42:ARG:HB2	1:JU:45:ASN:HB3	1.87	0.56
1:JX:42:ARG:HB2	1:JX:45:ASN:HB3	1.87	0.56
1:KJ:21:LEU:HB3	1:KJ:22:PRO:HD2	1.88	0.56
1:LE:42:ARG:HB2	1:LE:45:ASN:HB3	1.87	0.56
1:LJ:10:ARG:HH11	1:LO:38:LEU:HB2	1.71	0.56
1:LT:21:LEU:HB3	1:LT:22:PRO:HD2	1.88	0.56
1:MF:42:ARG:HB2	1:MF:45:ASN:HB3	1.87	0.56
1:ML:42:ARG:HB2	1:ML:45:ASN:HB3	1.87	0.56
1:MO:21:LEU:HB3	1:MO:22:PRO:HD2	1.88	0.56
1:NJ:21:LEU:HB3	1:NJ:22:PRO:HD2	1.88	0.56
1:NL:28:LEU:HD21	1:NL:60:LEU:HG	1.87	0.56
1:NV:86:THR:OG1	1:NV:89:ASP:OD2	2.23	0.56
1:AE:10:ARG:HE	1:BB:38:LEU:HD13	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:21:LEU:HB3	1:AL:22:PRO:HD2	1.88	0.56
1:AO:42:ARG:HB2	1:AO:45:ASN:HB3	1.87	0.56
1:BO:28:LEU:HD21	1:BO:60:LEU:HG	1.87	0.56
1:DO:21:LEU:HB3	1:DO:22:PRO:HD2	1.88	0.56
1:EC:16:SER:HA	1:EC:35:VAL:HG12	1.86	0.56
1:EG:42:ARG:HB2	1:EG:45:ASN:HB3	1.87	0.56
1:EJ:42:ARG:HB2	1:EJ:45:ASN:HB3	1.87	0.56
1:EN:9:LEU:HG	1:EN:10:ARG:HG3	1.88	0.56
1:EP:21:LEU:HB3	1:EP:22:PRO:HD2	1.88	0.56
1:EV:42:ARG:HB2	1:EV:45:ASN:HB3	1.87	0.56
1:FF:9:LEU:HG	1:FF:10:ARG:HG3	1.87	0.56
1:GI:42:ARG:HB2	1:GI:45:ASN:HB3	1.87	0.56
1:GL:86:THR:OG1	1:GL:89:ASP:OD2	2.23	0.56
1:GR:21:LEU:HB3	1:GR:22:PRO:HD2	1.88	0.56
1:GU:42:ARG:HB2	1:GU:45:ASN:HB3	1.87	0.56
1:HA:21:LEU:HB3	1:HA:22:PRO:HD2	1.88	0.56
1:HB:99:SER:OG	1:HB:124:GLU:O	2.20	0.56
1:HD:28:LEU:HD21	1:HD:60:LEU:HG	1.88	0.56
1:IB:42:ARG:HB2	1:IB:45:ASN:HB3	1.87	0.56
1:IK:74:VAL:HG22	1:LW:80:SER:HB2	1.87	0.56
1:IZ:42:ARG:HB2	1:IZ:45:ASN:HB3	1.87	0.56
1:JD:38:LEU:HB2	1:JK:10:ARG:HH11	1.69	0.56
1:JI:57:LYS:HZ3	1:MU:92:GLU:CD	2.08	0.56
1:JK:28:LEU:HD21	1:JK:60:LEU:HG	1.87	0.56
1:KG:21:LEU:HB3	1:KG:22:PRO:HD2	1.88	0.56
1:KJ:92:GLU:CD	1:NV:57:LYS:HZ3	2.09	0.56
1:KY:21:LEU:HB3	1:KY:22:PRO:HD2	1.88	0.56
1:LK:21:LEU:HB3	1:LK:22:PRO:HD2	1.88	0.56
1:LV:16:SER:HA	1:LV:35:VAL:HG12	1.86	0.56
1:LW:21:LEU:HB3	1:LW:22:PRO:HD2	1.88	0.56
1:LZ:28:LEU:HD21	1:LZ:60:LEU:HG	1.89	0.56
1:MG:9:LEU:HG	1:MG:10:ARG:HG3	1.87	0.56
1:ND:21:LEU:HB3	1:ND:22:PRO:HD2	1.88	0.56
1:NQ:101:LEU:HD22	1:NR:94:LEU:HD22	1.86	0.56
1:NV:21:LEU:HB3	1:NV:22:PRO:HD2	1.88	0.56
1:AF:92:GLU:OE2	1:DR:57:LYS:NZ	2.35	0.55
1:AK:28:LEU:HD21	1:AK:60:LEU:HG	1.87	0.55
1:AO:10:ARG:HH21	1:FS:38:LEU:HD22	1.71	0.55
1:AR:21:LEU:HB3	1:AR:22:PRO:HD2	1.88	0.55
1:CB:4:ILE:HG12	1:FN:125:ASP:HB2	1.87	0.55
1:CC:9:LEU:HG	1:CC:10:ARG:HG3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:21:LEU:HB3	1:CE:22:PRO:HD2	1.88	0.55
1:DI:28:LEU:HD21	1:DI:60:LEU:HG	1.88	0.55
1:DI:80:SER:HB2	1:GU:74:VAL:HG22	1.89	0.55
1:DU:28:LEU:HD21	1:DU:60:LEU:HG	1.89	0.55
1:ED:21:LEU:HB3	1:ED:22:PRO:HD2	1.88	0.55
1:EI:28:LEU:HD21	1:EI:60:LEU:HG	1.87	0.55
1:ES:42:ARG:HB2	1:ES:45:ASN:HB3	1.87	0.55
1:EV:21:LEU:HB3	1:EV:22:PRO:HD2	1.88	0.55
1:FN:28:LEU:HD21	1:FN:60:LEU:HG	1.89	0.55
1:FN:42:ARG:HB2	1:FN:45:ASN:HB3	1.87	0.55
1:GC:21:LEU:HB3	1:GC:22:PRO:HD2	1.88	0.55
1:GF:28:LEU:HD21	1:GF:60:LEU:HG	1.88	0.55
1:GY:9:LEU:HG	1:GY:10:ARG:HG3	1.88	0.55
1:HD:21:LEU:HB3	1:HD:22:PRO:HD2	1.88	0.55
1:HP:28:LEU:HD21	1:HP:60:LEU:HG	1.88	0.55
1:HP:86:THR:OG1	1:HP:89:ASP:OD2	2.23	0.55
1:HY:42:ARG:HB2	1:HY:45:ASN:HB3	1.87	0.55
1:IL:9:LEU:HG	1:IL:10:ARG:HG3	1.88	0.55
1:IQ:42:ARG:HB2	1:IQ:45:ASN:HB3	1.87	0.55
1:IZ:21:LEU:HB3	1:IZ:22:PRO:HD2	1.88	0.55
1:JY:101:LEU:HD22	1:JZ:94:LEU:HD22	1.86	0.55
1:LH:86:THR:OG1	1:LH:89:ASP:OD2	2.23	0.55
1:LQ:21:LEU:HB3	1:LQ:22:PRO:HD2	1.88	0.55
1:MN:28:LEU:HD21	1:MN:60:LEU:HG	1.87	0.55
1:MR:42:ARG:HB2	1:MR:45:ASN:HB3	1.87	0.55
1:MZ:28:LEU:HD21	1:MZ:60:LEU:HG	1.87	0.55
1:NM:21:LEU:HB3	1:NM:22:PRO:HD2	1.88	0.55
1:NP:28:LEU:HD21	1:NP:60:LEU:HG	1.88	0.55
1:AD:94:LEU:HD22	1:AE:101:LEU:HD22	1.89	0.55
1:AF:28:LEU:HD21	1:AF:60:LEU:HG	1.89	0.55
1:AX:119:ASP:O	1:EJ:8:LYS:HB2	2.05	0.55
1:AZ:28:LEU:HD21	1:AZ:60:LEU:HG	1.87	0.55
1:BH:9:LEU:HG	1:BH:10:ARG:HG3	1.87	0.55
1:BJ:86:THR:OG1	1:BJ:89:ASP:OD2	2.23	0.55
1:BP:28:LEU:HD21	1:BP:60:LEU:HG	1.88	0.55
1:BS:28:LEU:HD21	1:BS:60:LEU:HG	1.89	0.55
1:CK:42:ARG:HB2	1:CK:45:ASN:HB3	1.87	0.55
1:CZ:86:THR:OG1	1:CZ:89:ASP:OD2	2.23	0.55
1:DA:94:LEU:HD22	1:DB:101:LEU:HD22	1.89	0.55
1:DH:28:LEU:HD21	1:DH:60:LEU:HG	1.87	0.55
1:DI:86:THR:OG1	1:DI:89:ASP:OD2	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DR:42:ARG:HB2	1:DR:45:ASN:HB3	1.87	0.55
1:DX:21:LEU:HB3	1:DX:22:PRO:HD2	1.88	0.55
1:EP:42:ARG:HB2	1:EP:45:ASN:HB3	1.87	0.55
1:ES:28:LEU:HD21	1:ES:60:LEU:HG	1.88	0.55
1:FL:94:LEU:HD22	1:FM:101:LEU:HD22	1.89	0.55
1:FM:28:LEU:HD21	1:FM:60:LEU:HG	1.87	0.55
1:FO:9:LEU:HG	1:FO:10:ARG:HG3	1.87	0.55
1:FQ:86:THR:OG1	1:FQ:89:ASP:OD2	2.23	0.55
1:FU:94:LEU:HD22	1:FV:101:LEU:HD22	1.89	0.55
1:GP:9:LEU:HG	1:GP:10:ARG:HG3	1.87	0.55
1:HM:28:LEU:HD21	1:HM:60:LEU:HG	1.88	0.55
1:HN:101:LEU:HD22	1:HO:94:LEU:HD22	1.86	0.55
1:IH:86:THR:OG1	1:IH:89:ASP:OD2	2.23	0.55
1:IQ:28:LEU:HD21	1:IQ:60:LEU:HG	1.89	0.55
1:JM:9:LEU:HG	1:JM:10:ARG:HG3	1.87	0.55
1:KG:42:ARG:HB2	1:KG:45:ASN:HB3	1.87	0.55
1:KI:28:LEU:HD21	1:KI:60:LEU:HG	1.87	0.55
1:KJ:28:LEU:HD21	1:KJ:60:LEU:HG	1.88	0.55
1:LE:21:LEU:HB3	1:LE:22:PRO:HD2	1.88	0.55
1:MF:21:LEU:HB3	1:MF:22:PRO:HD2	1.88	0.55
1:MX:21:LEU:HB3	1:MX:22:PRO:HD2	1.88	0.55
1:MX:42:ARG:HB2	1:MX:45:ASN:HB3	1.87	0.55
1:NG:28:LEU:HD21	1:NG:60:LEU:HG	1.89	0.55
1:NI:28:LEU:HD21	1:NI:60:LEU:HG	1.87	0.55
1:AA:94:LEU:HD22	1:AB:101:LEU:HD22	1.89	0.55
1:AM:9:LEU:HG	1:AM:10:ARG:HG3	1.87	0.55
1:AO:28:LEU:HD21	1:AO:60:LEU:HG	1.88	0.55
1:AV:38:LEU:HB2	1:FD:10:ARG:NH1	2.21	0.55
1:AX:28:LEU:HD21	1:AX:60:LEU:HG	1.88	0.55
1:BP:21:LEU:HB3	1:BP:22:PRO:HD2	1.88	0.55
1:BX:28:LEU:HD21	1:BX:60:LEU:HG	1.87	0.55
1:CI:94:LEU:HD22	1:CJ:101:LEU:HD22	1.89	0.55
1:CU:9:LEU:HG	1:CU:10:ARG:HG3	1.87	0.55
1:CU:94:LEU:HD22	1:CV:101:LEU:HD22	1.89	0.55
1:DV:9:LEU:HG	1:DV:10:ARG:HG3	1.88	0.55
1:EB:94:LEU:HD22	1:EC:101:LEU:HD22	1.89	0.55
1:EJ:21:LEU:HB3	1:EJ:22:PRO:HD2	1.88	0.55
1:FH:28:LEU:HD21	1:FH:60:LEU:HG	1.89	0.55
1:FI:9:LEU:HG	1:FI:10:ARG:HG3	1.88	0.55
1:FZ:42:ARG:HB2	1:FZ:45:ASN:HB3	1.87	0.55
1:GG:9:LEU:HG	1:GG:10:ARG:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HL:28:LEU:HD21	1:HL:60:LEU:HG	1.87	0.55
1:HQ:94:LEU:HD22	1:HR:101:LEU:HD22	1.89	0.55
1:HT:94:LEU:HD22	1:HU:101:LEU:HD22	1.89	0.55
1:IC:101:LEU:HD22	1:ID:94:LEU:HD22	1.86	0.55
1:IH:28:LEU:HD21	1:IH:60:LEU:HG	1.89	0.55
1:IK:28:LEU:HD21	1:IK:60:LEU:HG	1.89	0.55
1:IL:94:LEU:HD22	1:IM:101:LEU:HD22	1.89	0.55
1:IP:28:LEU:HD21	1:IP:60:LEU:HG	1.87	0.55
1:JC:42:ARG:HB2	1:JC:45:ASN:HB3	1.87	0.55
1:JR:42:ARG:HB2	1:JR:45:ASN:HB3	1.87	0.55
1:KJ:59:ILE:HD12	1:NV:89:ASP:OD2	2.07	0.55
1:KP:28:LEU:HD21	1:KP:60:LEU:HG	1.89	0.55
1:KX:28:LEU:HD21	1:KX:60:LEU:HG	1.87	0.55
1:KY:28:LEU:HD21	1:KY:60:LEU:HG	1.89	0.55
1:KY:42:ARG:HB2	1:KY:45:ASN:HB3	1.87	0.55
1:LB:28:LEU:HD21	1:LB:60:LEU:HG	1.88	0.55
1:LF:94:LEU:HD22	1:LG:101:LEU:HD22	1.89	0.55
1:LO:94:LEU:HD22	1:LP:101:LEU:HD22	1.89	0.55
1:MD:94:LEU:HD22	1:ME:101:LEU:HD22	1.89	0.55
1:MX:86:THR:OG1	1:MX:89:ASP:OD2	2.23	0.55
1:ND:28:LEU:HD21	1:ND:60:LEU:HG	1.89	0.55
1:ND:86:THR:OG1	1:ND:89:ASP:OD2	2.23	0.55
1:NG:42:ARG:HB2	1:NG:45:ASN:HB3	1.87	0.55
1:AA:9:LEU:HG	1:AA:10:ARG:HG3	1.87	0.55
1:AN:28:LEU:HD21	1:AN:60:LEU:HG	1.87	0.55
1:AU:21:LEU:HB3	1:AU:22:PRO:HD2	1.88	0.55
1:AU:28:LEU:HD21	1:AU:60:LEU:HG	1.89	0.55
1:AU:42:ARG:HB2	1:AU:45:ASN:HB3	1.87	0.55
1:BF:28:LEU:HD21	1:BF:60:LEU:HG	1.87	0.55
1:BG:28:LEU:HD21	1:BG:60:LEU:HG	1.89	0.55
1:BM:28:LEU:HD21	1:BM:60:LEU:HG	1.89	0.55
1:BM:92:GLU:CD	1:EY:57:LYS:HZ3	2.10	0.55
1:CB:28:LEU:HD21	1:CB:60:LEU:HG	1.88	0.55
1:CB:42:ARG:HB2	1:CB:45:ASN:HB3	1.87	0.55
1:CI:9:LEU:HG	1:CI:10:ARG:HG3	1.87	0.55
1:CK:21:LEU:HB3	1:CK:22:PRO:HD2	1.88	0.55
1:CW:42:ARG:HB2	1:CW:45:ASN:HB3	1.87	0.55
1:CY:113:TYR:O	1:GH:26:VAL:HG21	2.06	0.55
1:DQ:28:LEU:HD21	1:DQ:60:LEU:HG	1.87	0.55
1:DT:15:ASP:OD1	1:GR:10:ARG:NH1	2.40	0.55
1:DZ:28:LEU:HD21	1:DZ:60:LEU:HG	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:42:ARG:HB2	1:EA:45:ASN:HB3	1.87	0.55
1:EY:28:LEU:HD21	1:EY:60:LEU:HG	1.89	0.55
1:FC:94:LEU:HD22	1:FD:101:LEU:HD22	1.89	0.55
1:GJ:9:LEU:HG	1:GJ:10:ARG:HG3	1.87	0.55
1:GL:28:LEU:HD21	1:GL:60:LEU:HG	1.89	0.55
1:HC:28:LEU:HD21	1:HC:60:LEU:HG	1.87	0.55
1:HJ:21:LEU:HB3	1:HJ:22:PRO:HD2	1.88	0.55
1:IZ:28:LEU:HD21	1:IZ:60:LEU:HG	1.89	0.55
1:JD:94:LEU:HD22	1:JE:101:LEU:HD22	1.89	0.55
1:JF:10:ARG:HH21	1:JK:38:LEU:HD22	1.71	0.55
1:JR:28:LEU:HD21	1:JR:60:LEU:HG	1.89	0.55
1:KD:86:THR:OG1	1:KD:89:ASP:OD2	2.23	0.55
1:KJ:86:THR:OG1	1:KJ:89:ASP:OD2	2.23	0.55
1:LE:28:LEU:HD21	1:LE:60:LEU:HG	1.89	0.55
1:LN:21:LEU:HB3	1:LN:22:PRO:HD2	1.88	0.55
1:LY:28:LEU:HD21	1:LY:60:LEU:HG	1.87	0.55
1:MR:28:LEU:HD21	1:MR:60:LEU:HG	1.88	0.55
1:NN:9:LEU:HG	1:NN:10:ARG:HG3	1.87	0.55
1:AA:99:SER:OG	1:AA:124:GLU:O	2.20	0.55
1:AL:86:THR:OG1	1:AL:89:ASP:OD2	2.23	0.55
1:AM:94:LEU:HD22	1:AN:101:LEU:HD22	1.89	0.55
1:AY:113:TYR:O	1:EJ:26:VAL:HG21	2.07	0.55
1:BB:94:LEU:HD22	1:BC:101:LEU:HD22	1.89	0.55
1:BD:42:ARG:HB2	1:BD:45:ASN:HB3	1.87	0.55
1:BP:86:THR:OG1	1:BP:89:ASP:OD2	2.23	0.55
1:BY:21:LEU:HB3	1:BY:22:PRO:HD2	1.88	0.55
1:BZ:94:LEU:HD22	1:CA:101:LEU:HD22	1.89	0.55
1:CK:74:VAL:HG22	1:FW:80:SER:HB2	1.89	0.55
1:CQ:42:ARG:HB2	1:CQ:45:ASN:HB3	1.87	0.55
1:CZ:28:LEU:HD21	1:CZ:60:LEU:HG	1.89	0.55
1:DF:42:ARG:HB2	1:DF:45:ASN:HB3	1.87	0.55
1:DO:28:LEU:HD21	1:DO:60:LEU:HG	1.89	0.55
1:DR:21:LEU:HB3	1:DR:22:PRO:HD2	1.88	0.55
1:EJ:28:LEU:HD21	1:EJ:60:LEU:HG	1.89	0.55
1:FK:28:LEU:HD21	1:FK:60:LEU:HG	1.89	0.55
1:GL:21:LEU:HB3	1:GL:22:PRO:HD2	1.88	0.55
1:GU:86:THR:OG1	1:GU:89:ASP:OD2	2.23	0.55
1:GX:42:ARG:HB2	1:GX:45:ASN:HB3	1.87	0.55
1:HX:15:ASP:OD1	1:LH:10:ARG:NH1	2.39	0.55
1:HY:28:LEU:HD21	1:HY:60:LEU:HG	1.89	0.55
1:HZ:9:LEU:HG	1:HZ:10:ARG:HG3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IC:94:LEU:HD22	1:ID:101:LEU:HD22	1.89	0.55
1:IT:86:THR:OG1	1:IT:89:ASP:OD2	2.23	0.55
1:IZ:86:THR:OG1	1:IZ:89:ASP:OD2	2.23	0.55
1:JA:94:LEU:HD22	1:JB:101:LEU:HD22	1.89	0.55
1:JL:28:LEU:HD21	1:JL:60:LEU:HG	1.89	0.55
1:JO:21:LEU:HB3	1:JO:22:PRO:HD2	1.88	0.55
1:JU:28:LEU:HD21	1:JU:60:LEU:HG	1.88	0.55
1:JX:28:LEU:HD21	1:JX:60:LEU:HG	1.89	0.55
1:JY:9:LEU:HG	1:JY:10:ARG:HG3	1.87	0.55
1:KA:57:LYS:NZ	1:NM:92:GLU:OE2	2.33	0.55
1:KD:21:LEU:HB3	1:KD:22:PRO:HD2	1.88	0.55
1:KD:28:LEU:HD21	1:KD:60:LEU:HG	1.88	0.55
1:KG:86:THR:OG1	1:KG:89:ASP:OD2	2.23	0.55
1:KK:94:LEU:HD22	1:KL:101:LEU:HD22	1.89	0.55
1:KM:42:ARG:HB2	1:KM:45:ASN:HB3	1.87	0.55
1:KQ:94:LEU:HD22	1:KR:101:LEU:HD22	1.89	0.55
1:KW:94:LEU:HD22	1:KX:101:LEU:HD22	1.89	0.55
1:MG:94:LEU:HD22	1:MH:101:LEU:HD22	1.89	0.55
1:MI:42:ARG:HB2	1:MI:45:ASN:HB3	1.87	0.55
1:MU:42:ARG:HB2	1:MU:45:ASN:HB3	1.87	0.55
1:NC:28:LEU:HD21	1:NC:60:LEU:HG	1.87	0.55
1:NN:94:LEU:HD22	1:NO:101:LEU:HD22	1.89	0.55
1:BD:28:LEU:HD21	1:BD:60:LEU:HG	1.88	0.55
1:BG:59:ILE:HD12	1:ES:89:ASP:OD2	2.07	0.55
1:BM:42:ARG:HB2	1:BM:45:ASN:HB3	1.87	0.55
1:CA:28:LEU:HD21	1:CA:60:LEU:HG	1.87	0.55
1:CQ:21:LEU:HB3	1:CQ:22:PRO:HD2	1.88	0.55
1:CX:94:LEU:HD22	1:CY:101:LEU:HD22	1.89	0.55
1:DC:21:LEU:HB3	1:DC:22:PRO:HD2	1.88	0.55
1:DM:94:LEU:HD22	1:DN:101:LEU:HD22	1.89	0.55
1:DT:10:ARG:NH2	1:GP:15:ASP:OD1	2.40	0.55
1:EA:21:LEU:HB3	1:EA:22:PRO:HD2	1.88	0.55
1:EG:28:LEU:HD21	1:EG:60:LEU:HG	1.89	0.55
1:EN:94:LEU:HD22	1:EO:101:LEU:HD22	1.89	0.55
1:EP:28:LEU:HD21	1:EP:60:LEU:HG	1.89	0.55
1:FP:28:LEU:HD21	1:FP:60:LEU:HG	1.87	0.55
1:FR:9:LEU:HG	1:FR:10:ARG:HG3	1.87	0.55
1:FZ:28:LEU:HD21	1:FZ:60:LEU:HG	1.89	0.55
1:GA:94:LEU:HD22	1:GB:101:LEU:HD22	1.89	0.55
1:GC:28:LEU:HD21	1:GC:60:LEU:HG	1.89	0.55
1:GG:94:LEU:HD22	1:GH:101:LEU:HD22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GO:42:ARG:HB2	1:GO:45:ASN:HB3	1.87	0.55
1:GV:49:VAL:HG11	1:GW:112:ALA:O	2.07	0.55
1:HE:94:LEU:HD22	1:HF:101:LEU:HD22	1.89	0.55
1:HJ:28:LEU:HD21	1:HJ:60:LEU:HG	1.89	0.55
1:HP:42:ARG:HB2	1:HP:45:ASN:HB3	1.87	0.55
1:HU:10:ARG:NH1	1:LC:38:LEU:HB2	2.22	0.55
1:IJ:10:ARG:HH11	1:KT:38:LEU:HB2	1.72	0.55
1:IX:94:LEU:HD22	1:IY:101:LEU:HD22	1.89	0.55
1:KH:94:LEU:HD22	1:KI:101:LEU:HD22	1.89	0.55
1:KJ:92:GLU:OE2	1:NV:57:LYS:NZ	2.39	0.55
1:KV:42:ARG:HB2	1:KV:45:ASN:HB3	1.87	0.55
1:LL:94:LEU:HD22	1:LM:101:LEU:HD22	1.89	0.55
1:LT:86:THR:OG1	1:LT:89:ASP:OD2	2.23	0.55
1:MH:28:LEU:HD21	1:MH:60:LEU:HG	1.87	0.55
1:MO:28:LEU:HD21	1:MO:60:LEU:HG	1.88	0.55
1:MP:94:LEU:HD22	1:MQ:101:LEU:HD22	1.89	0.55
1:NJ:28:LEU:HD21	1:NJ:60:LEU:HG	1.88	0.55
1:NM:28:LEU:HD21	1:NM:60:LEU:HG	1.88	0.55
1:AO:21:LEU:HB3	1:AO:22:PRO:HD2	1.88	0.55
1:AX:21:LEU:HB3	1:AX:22:PRO:HD2	1.88	0.55
1:BI:28:LEU:HD21	1:BI:60:LEU:HG	1.87	0.55
1:BV:21:LEU:HB3	1:BV:22:PRO:HD2	1.88	0.55
1:CW:21:LEU:HB3	1:CW:22:PRO:HD2	1.88	0.55
1:DI:21:LEU:HB3	1:DI:22:PRO:HD2	1.88	0.55
1:DI:89:ASP:OD2	1:GU:59:ILE:HD12	2.05	0.55
1:DM:49:VAL:HG11	1:DN:112:ALA:O	2.07	0.55
1:DP:94:LEU:HD22	1:DQ:101:LEU:HD22	1.89	0.55
1:DV:94:LEU:HD22	1:DW:101:LEU:HD22	1.89	0.55
1:ED:86:THR:OG1	1:ED:89:ASP:OD2	2.23	0.55
1:EM:21:LEU:HB3	1:EM:22:PRO:HD2	1.88	0.55
1:ES:86:THR:OG1	1:ES:89:ASP:OD2	2.23	0.55
1:EY:21:LEU:HB3	1:EY:22:PRO:HD2	1.88	0.55
1:FL:49:VAL:HG11	1:FM:112:ALA:O	2.07	0.55
1:GH:28:LEU:HD21	1:GH:60:LEU:HG	1.87	0.55
1:GJ:94:LEU:HD22	1:GK:101:LEU:HD22	1.89	0.55
1:GM:49:VAL:HG11	1:GN:112:ALA:O	2.07	0.55
1:GM:94:LEU:HD22	1:GN:101:LEU:HD22	1.89	0.55
1:GR:86:THR:OG1	1:GR:89:ASP:OD2	2.23	0.55
1:GX:28:LEU:HD21	1:GX:60:LEU:HG	1.89	0.55
1:HJ:80:SER:HB2	1:KV:74:VAL:HG22	1.88	0.55
1:HS:42:ARG:HB2	1:HS:45:ASN:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HZ:49:VAL:HG11	1:IA:112:ALA:O	2.07	0.55
1:IF:9:LEU:HG	1:IF:10:ARG:HG3	1.88	0.55
1:IR:94:LEU:HD22	1:IS:101:LEU:HD22	1.89	0.55
1:IW:28:LEU:HD21	1:IW:60:LEU:HG	1.89	0.55
1:IX:9:LEU:HG	1:IX:10:ARG:HG3	1.87	0.55
1:JL:42:ARG:HB2	1:JL:45:ASN:HB3	1.87	0.55
1:JP:49:VAL:HG11	1:JQ:112:ALA:O	2.07	0.55
1:JU:112:ALA:O	1:NG:49:VAL:HG11	2.07	0.55
1:JV:15:ASP:OD1	1:NF:10:ARG:NH2	2.40	0.55
1:JX:92:GLU:OE2	1:NJ:57:LYS:NZ	2.34	0.55
1:KJ:74:VAL:HG22	1:NV:80:SER:HB2	1.89	0.55
1:KK:9:LEU:HG	1:KK:10:ARG:HG3	1.88	0.55
1:KS:28:LEU:HD21	1:KS:60:LEU:HG	1.89	0.55
1:KU:28:LEU:HD21	1:KU:60:LEU:HG	1.87	0.55
1:KV:28:LEU:HD21	1:KV:60:LEU:HG	1.88	0.55
1:LC:9:LEU:HG	1:LC:10:ARG:HG3	1.87	0.55
1:LR:94:LEU:HD22	1:LS:101:LEU:HD22	1.89	0.55
1:MA:9:LEU:HG	1:MA:10:ARG:HG3	1.88	0.55
1:MU:21:LEU:HB3	1:MU:22:PRO:HD2	1.88	0.55
1:MU:86:THR:OG1	1:MU:89:ASP:OD2	2.23	0.55
1:NM:86:THR:OG1	1:NM:89:ASP:OD2	2.23	0.55
1:NS:28:LEU:HD21	1:NS:60:LEU:HG	1.88	0.55
1:AP:94:LEU:HD22	1:AQ:101:LEU:HD22	1.89	0.55
1:BA:112:ALA:O	1:EM:49:VAL:HG11	2.06	0.55
1:BH:49:VAL:HG11	1:BI:112:ALA:O	2.07	0.55
1:BJ:28:LEU:HD21	1:BJ:60:LEU:HG	1.89	0.55
1:BM:92:GLU:OE2	1:EY:57:LYS:NZ	2.39	0.55
1:BT:94:LEU:HD22	1:BU:101:LEU:HD22	1.89	0.55
1:CC:49:VAL:HG11	1:CD:112:ALA:O	2.07	0.55
1:CN:86:THR:OG1	1:CN:89:ASP:OD2	2.23	0.55
1:CT:21:LEU:HB3	1:CT:22:PRO:HD2	1.88	0.55
1:EH:9:LEU:HG	1:EH:10:ARG:HG3	1.87	0.55
1:EQ:49:VAL:HG11	1:ER:112:ALA:O	2.07	0.55
1:FB:28:LEU:HD21	1:FB:60:LEU:HG	1.89	0.55
1:FI:99:SER:OG	1:FI:124:GLU:O	2.20	0.55
1:FN:86:THR:OG1	1:FN:89:ASP:OD2	2.23	0.55
1:FS:66:ALA:HB3	1:GQ:66:ALA:HB1	1.88	0.55
1:FT:28:LEU:HD21	1:FT:60:LEU:HG	1.88	0.55
1:GM:9:LEU:HG	1:GM:10:ARG:HG3	1.87	0.55
1:GS:9:LEU:HG	1:GS:10:ARG:HG3	1.87	0.55
1:GS:94:LEU:HD22	1:GT:101:LEU:HD22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GU:28:LEU:HD21	1:GU:60:LEU:HG	1.89	0.55
1:GV:94:LEU:HD12	1:GW:109:GLN:HE21	1.72	0.55
1:HB:49:VAL:HG11	1:HC:112:ALA:O	2.07	0.55
1:HK:9:LEU:HG	1:HK:10:ARG:HG3	1.87	0.55
1:HW:94:LEU:HD12	1:HX:109:GLN:HE21	1.72	0.55
1:II:94:LEU:HD22	1:IJ:101:LEU:HD22	1.89	0.55
1:IU:94:LEU:HD22	1:IV:101:LEU:HD22	1.89	0.55
1:JP:9:LEU:HG	1:JP:10:ARG:HG3	1.88	0.55
1:JP:94:LEU:HD12	1:JQ:109:GLN:HE21	1.72	0.55
1:JU:92:GLU:CD	1:NG:57:LYS:HZ3	2.10	0.55
1:JW:10:ARG:NH2	1:KH:15:ASP:OD1	2.40	0.55
1:KN:49:VAL:HG11	1:KO:112:ALA:O	2.07	0.55
1:KW:49:VAL:HG11	1:KX:112:ALA:O	2.07	0.55
1:KY:86:THR:OG1	1:KY:89:ASP:OD2	2.23	0.55
1:KZ:9:LEU:HG	1:KZ:10:ARG:HG3	1.88	0.55
1:LC:49:VAL:HG11	1:LD:112:ALA:O	2.07	0.55
1:LF:49:VAL:HG11	1:LG:112:ALA:O	2.07	0.55
1:LO:94:LEU:HD12	1:LP:109:GLN:HE21	1.72	0.55
1:LR:49:VAL:HG11	1:LS:112:ALA:O	2.07	0.55
1:LX:9:LEU:HG	1:LX:10:ARG:HG3	1.87	0.55
1:LX:94:LEU:HD22	1:LY:101:LEU:HD22	1.89	0.55
1:MF:28:LEU:HD21	1:MF:60:LEU:HG	1.89	0.55
1:MI:28:LEU:HD21	1:MI:60:LEU:HG	1.88	0.55
1:MI:86:THR:OG1	1:MI:89:ASP:OD2	2.23	0.55
1:NQ:9:LEU:HG	1:NQ:10:ARG:HG3	1.88	0.55
1:AD:49:VAL:HG11	1:AE:112:ALA:O	2.07	0.55
1:AL:28:LEU:HD21	1:AL:60:LEU:HG	1.89	0.55
1:AN:10:ARG:NH1	1:BZ:38:LEU:HB2	2.21	0.55
1:AO:119:ASP:O	1:EA:8:LYS:HB2	2.07	0.55
1:AP:49:VAL:HG11	1:AQ:112:ALA:O	2.07	0.55
1:BG:86:THR:OG1	1:BG:89:ASP:OD2	2.23	0.55
1:BJ:89:ASP:OD2	1:EV:59:ILE:HD12	2.06	0.55
1:BQ:94:LEU:HD22	1:BR:101:LEU:HD22	1.89	0.55
1:CN:21:LEU:HB3	1:CN:22:PRO:HD2	1.88	0.55
1:CQ:28:LEU:HD21	1:CQ:60:LEU:HG	1.88	0.55
1:CR:94:LEU:HD12	1:CS:109:GLN:HE21	1.72	0.55
1:DG:49:VAL:HG11	1:DH:112:ALA:O	2.07	0.55
1:DL:21:LEU:HB3	1:DL:22:PRO:HD2	1.88	0.55
1:DR:28:LEU:HD21	1:DR:60:LEU:HG	1.89	0.55
1:DY:49:VAL:HG11	1:DZ:112:ALA:O	2.07	0.55
1:DY:94:LEU:HD22	1:DZ:101:LEU:HD22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ED:28:LEU:HD21	1:ED:60:LEU:HG	1.88	0.55
1:EK:94:LEU:HD12	1:EL:109:GLN:HE21	1.72	0.55
1:ET:9:LEU:HG	1:ET:10:ARG:HG3	1.88	0.55
1:FX:9:LEU:HG	1:FX:10:ARG:HG3	1.87	0.55
1:GG:49:VAL:HG11	1:GH:112:ALA:O	2.07	0.55
1:GG:94:LEU:HD12	1:GH:109:GLN:HE21	1.72	0.55
1:GP:94:LEU:HD12	1:GQ:109:GLN:HE21	1.72	0.55
1:HQ:49:VAL:HG11	1:HR:112:ALA:O	2.07	0.55
1:HZ:94:LEU:HD22	1:IA:101:LEU:HD22	1.89	0.55
1:HZ:94:LEU:HD12	1:IA:109:GLN:HE21	1.72	0.55
1:IC:49:VAL:HG11	1:ID:112:ALA:O	2.07	0.55
1:IE:21:LEU:HB3	1:IE:22:PRO:HD2	1.88	0.55
1:IF:94:LEU:HD12	1:IG:109:GLN:HE21	1.72	0.55
1:IR:9:LEU:HG	1:IR:10:ARG:HG3	1.88	0.55
1:IR:49:VAL:HG11	1:IS:112:ALA:O	2.07	0.55
1:IW:86:THR:OG1	1:IW:89:ASP:OD2	2.23	0.55
1:JG:49:VAL:HG11	1:JH:112:ALA:O	2.07	0.55
1:JG:94:LEU:HD22	1:JH:101:LEU:HD22	1.89	0.55
1:JI:28:LEU:HD21	1:JI:60:LEU:HG	1.89	0.55
1:JY:49:VAL:HG11	1:JZ:112:ALA:O	2.07	0.55
1:KA:21:LEU:HB3	1:KA:22:PRO:HD2	1.88	0.55
1:KM:28:LEU:HD21	1:KM:60:LEU:HG	1.89	0.55
1:KZ:94:LEU:HD12	1:LA:109:GLN:HE21	1.72	0.55
1:LB:21:LEU:HB3	1:LB:22:PRO:HD2	1.88	0.55
1:LE:86:THR:OG1	1:LE:89:ASP:OD2	2.23	0.55
1:LF:9:LEU:HG	1:LF:10:ARG:HG3	1.87	0.55
1:LI:49:VAL:HG11	1:LJ:112:ALA:O	2.07	0.55
1:LI:94:LEU:HD22	1:LJ:101:LEU:HD22	1.89	0.55
1:MC:42:ARG:HB2	1:MC:45:ASN:HB3	1.87	0.55
1:MD:94:LEU:HD12	1:ME:109:GLN:HE21	1.72	0.55
1:MG:49:VAL:HG11	1:MH:112:ALA:O	2.07	0.55
1:MI:21:LEU:HB3	1:MI:22:PRO:HD2	1.88	0.55
1:ML:21:LEU:HB3	1:ML:22:PRO:HD2	1.88	0.55
1:MM:94:LEU:HD22	1:MN:101:LEU:HD22	1.89	0.55
1:MR:21:LEU:HB3	1:MR:22:PRO:HD2	1.88	0.55
1:MU:28:LEU:HD21	1:MU:60:LEU:HG	1.89	0.55
1:MY:94:LEU:HD12	1:MZ:109:GLN:HE21	1.72	0.55
1:NE:49:VAL:HG11	1:NF:112:ALA:O	2.07	0.55
1:NR:28:LEU:HD21	1:NR:60:LEU:HG	1.87	0.55
1:BA:49:VAL:HG11	1:EM:112:ALA:O	2.07	0.55
1:BE:94:LEU:HD12	1:BF:109:GLN:HE21	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CG:10:ARG:NH2	1:GM:15:ASP:OD1	2.41	0.55
1:CO:39:PRO:HB2	1:CO:47:GLY:HA3	1.89	0.55
1:CO:83:VAL:HG12	1:DK:27:THR:HG22	1.88	0.55
1:CO:94:LEU:HD12	1:CP:109:GLN:HE21	1.72	0.55
1:CR:39:PRO:HB2	1:CR:47:GLY:HA3	1.89	0.55
1:DP:49:VAL:HG11	1:DQ:112:ALA:O	2.07	0.55
1:DY:94:LEU:HD12	1:DZ:109:GLN:HE21	1.72	0.55
1:EQ:9:LEU:HG	1:EQ:10:ARG:HG3	1.87	0.55
1:ET:49:VAL:HG11	1:EU:112:ALA:O	2.07	0.55
1:FW:28:LEU:HD21	1:FW:60:LEU:HG	1.89	0.55
1:GA:9:LEU:HG	1:GA:10:ARG:HG3	1.88	0.55
1:GD:94:LEU:HD12	1:GE:109:GLN:HE21	1.72	0.55
1:GF:21:LEU:HB3	1:GF:22:PRO:HD2	1.88	0.55
1:GJ:39:PRO:HB2	1:GJ:47:GLY:HA3	1.90	0.55
1:GP:94:LEU:HD22	1:GQ:101:LEU:HD22	1.89	0.55
1:HD:80:SER:HB2	1:KP:74:VAL:HG22	1.88	0.55
1:HG:42:ARG:HB2	1:HG:45:ASN:HB3	1.87	0.55
1:HJ:42:ARG:HB2	1:HJ:45:ASN:HB3	1.87	0.55
1:HK:94:LEU:HD22	1:HL:101:LEU:HD22	1.89	0.55
1:HP:21:LEU:HB3	1:HP:22:PRO:HD2	1.88	0.55
1:IB:28:LEU:HD21	1:IB:60:LEU:HG	1.89	0.55
1:IB:80:SER:HB2	1:LN:74:VAL:HG22	1.89	0.55
1:IT:21:LEU:HB3	1:IT:22:PRO:HD2	1.88	0.55
1:IU:39:PRO:HB2	1:IU:47:GLY:HA3	1.89	0.55
1:IU:49:VAL:HG11	1:IV:112:ALA:O	2.07	0.55
1:IW:21:LEU:HB3	1:IW:22:PRO:HD2	1.88	0.55
1:JA:94:LEU:HD12	1:JB:109:GLN:HE21	1.72	0.55
1:JC:21:LEU:HB3	1:JC:22:PRO:HD2	1.88	0.55
1:JM:39:PRO:HB2	1:JM:47:GLY:HA3	1.89	0.55
1:JO:28:LEU:HD21	1:JO:60:LEU:HG	1.89	0.55
1:JS:94:LEU:HD12	1:JT:109:GLN:HE21	1.72	0.55
1:JV:94:LEU:HD22	1:JW:101:LEU:HD22	1.89	0.55
1:LK:86:THR:OG1	1:LK:89:ASP:OD2	2.23	0.55
1:MG:94:LEU:HD12	1:MH:109:GLN:HE21	1.72	0.55
1:MM:49:VAL:HG11	1:MN:112:ALA:O	2.07	0.55
1:MP:94:LEU:HD12	1:MQ:109:GLN:HE21	1.72	0.55
1:MV:94:LEU:HD22	1:MW:101:LEU:HD22	1.89	0.55
1:NQ:49:VAL:HG11	1:NR:112:ALA:O	2.07	0.55
1:NQ:94:LEU:HD12	1:NR:109:GLN:HE21	1.72	0.55
1:AB:10:ARG:NH1	1:BH:38:LEU:HB2	2.21	0.54
1:AM:49:VAL:HG11	1:AN:112:ALA:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:39:PRO:HB2	1:AP:47:GLY:HA3	1.90	0.54
1:AR:92:GLU:CD	1:ED:57:LYS:HZ3	2.10	0.54
1:AV:39:PRO:HB2	1:AV:47:GLY:HA3	1.90	0.54
1:BN:39:PRO:HB2	1:BN:47:GLY:HA3	1.90	0.54
1:BT:39:PRO:HB2	1:BT:47:GLY:HA3	1.90	0.54
1:CF:49:VAL:HG11	1:CG:112:ALA:O	2.07	0.54
1:CF:94:LEU:HD12	1:CG:109:GLN:HE21	1.72	0.54
1:CU:94:LEU:HD12	1:CV:109:GLN:HE21	1.72	0.54
1:DD:94:LEU:HD12	1:DE:109:GLN:HE21	1.72	0.54
1:DP:94:LEU:HD12	1:DQ:109:GLN:HE21	1.72	0.54
1:DV:49:VAL:HG11	1:DW:112:ALA:O	2.07	0.54
1:DV:94:LEU:HD12	1:DW:109:GLN:HE21	1.72	0.54
1:EA:28:LEU:HD21	1:EA:60:LEU:HG	1.89	0.54
1:EH:94:LEU:HD12	1:EI:109:GLN:HE21	1.72	0.54
1:EK:94:LEU:HD22	1:EL:101:LEU:HD22	1.89	0.54
1:EN:49:VAL:HG11	1:EO:112:ALA:O	2.07	0.54
1:ET:94:LEU:HD12	1:EU:109:GLN:HE21	1.72	0.54
1:FB:86:THR:OG1	1:FB:89:ASP:OD2	2.23	0.54
1:FI:94:LEU:HD12	1:FJ:109:GLN:HE21	1.72	0.54
1:FI:94:LEU:HD22	1:FJ:101:LEU:HD22	1.89	0.54
1:FX:94:LEU:HD12	1:FY:109:GLN:HE21	1.72	0.54
1:GA:49:VAL:HG11	1:GB:112:ALA:O	2.07	0.54
1:HG:28:LEU:HD21	1:HG:60:LEU:HG	1.89	0.54
1:HI:10:ARG:NH2	1:IU:15:ASP:OD1	2.40	0.54
1:HN:94:LEU:HD12	1:HO:109:GLN:HE21	1.72	0.54
1:II:49:VAL:HG11	1:IJ:112:ALA:O	2.07	0.54
1:JA:15:ASP:OD1	1:JQ:10:ARG:NH2	2.39	0.54
1:JF:119:ASP:O	1:MR:8:LYS:HB2	2.07	0.54
1:JG:9:LEU:HG	1:JG:10:ARG:HG3	1.87	0.54
1:JL:21:LEU:HB3	1:JL:22:PRO:HD2	1.88	0.54
1:JS:99:SER:OG	1:JS:124:GLU:O	2.20	0.54
1:KH:49:VAL:HG11	1:KI:112:ALA:O	2.07	0.54
1:KJ:80:SER:HB2	1:NV:74:VAL:HG22	1.88	0.54
1:KK:94:LEU:HD12	1:KL:109:GLN:HE21	1.72	0.54
1:KM:21:LEU:HB3	1:KM:22:PRO:HD2	1.88	0.54
1:KT:39:PRO:HB2	1:KT:47:GLY:HA3	1.89	0.54
1:LX:94:LEU:HD12	1:LY:109:GLN:HE21	1.72	0.54
1:MJ:49:VAL:HG11	1:MK:112:ALA:O	2.07	0.54
1:MJ:94:LEU:HD22	1:MK:101:LEU:HD22	1.89	0.54
1:MM:9:LEU:HG	1:MM:10:ARG:HG3	1.88	0.54
1:MS:49:VAL:HG11	1:MT:112:ALA:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MY:49:VAL:HG11	1:MZ:112:ALA:O	2.07	0.54
1:NG:21:LEU:HB3	1:NG:22:PRO:HD2	1.88	0.54
1:NT:94:LEU:HD22	1:NU:101:LEU:HD22	1.89	0.54
1:AC:28:LEU:HD21	1:AC:60:LEU:HG	1.89	0.54
1:AM:94:LEU:HD12	1:AN:109:GLN:HE21	1.72	0.54
1:AR:8:LYS:HB2	1:ED:119:ASP:O	2.07	0.54
1:AR:28:LEU:HD21	1:AR:60:LEU:HG	1.89	0.54
1:BE:94:LEU:HD22	1:BF:101:LEU:HD22	1.89	0.54
1:BN:9:LEU:HG	1:BN:10:ARG:HG3	1.88	0.54
1:BN:94:LEU:HD12	1:BO:109:GLN:HE21	1.72	0.54
1:BS:21:LEU:HB3	1:BS:22:PRO:HD2	1.88	0.54
1:CH:28:LEU:HD21	1:CH:60:LEU:HG	1.89	0.54
1:CO:94:LEU:HD22	1:CP:101:LEU:HD22	1.89	0.54
1:CR:94:LEU:HD22	1:CS:101:LEU:HD22	1.89	0.54
1:CU:49:VAL:HG11	1:CV:112:ALA:O	2.07	0.54
1:EB:49:VAL:HG11	1:EC:112:ALA:O	2.07	0.54
1:EB:94:LEU:HD12	1:EC:109:GLN:HE21	1.72	0.54
1:FH:21:LEU:HB3	1:FH:22:PRO:HD2	1.88	0.54
1:FL:9:LEU:HG	1:FL:10:ARG:HG3	1.87	0.54
1:FO:94:LEU:HD22	1:FP:101:LEU:HD22	1.89	0.54
1:FX:49:VAL:HG11	1:FY:112:ALA:O	2.07	0.54
1:GG:39:PRO:HB2	1:GG:47:GLY:HA3	1.90	0.54
1:GY:94:LEU:HD12	1:GZ:109:GLN:HE21	1.72	0.54
1:HA:4:ILE:CG1	1:KM:125:ASP:HB2	2.38	0.54
1:HD:129:THR:O	1:KP:106:LYS:NZ	2.40	0.54
1:HW:94:LEU:HD22	1:HX:101:LEU:HD22	1.89	0.54
1:IF:49:VAL:HG11	1:IG:112:ALA:O	2.07	0.54
1:IN:21:LEU:HB3	1:IN:22:PRO:HD2	1.88	0.54
1:JG:39:PRO:HB2	1:JG:47:GLY:HA3	1.90	0.54
1:JG:94:LEU:HD12	1:JH:109:GLN:HE21	1.72	0.54
1:JJ:39:PRO:HB2	1:JJ:47:GLY:HA3	1.89	0.54
1:JU:119:ASP:O	1:NG:8:LYS:HB2	2.07	0.54
1:JV:39:PRO:HB2	1:JV:47:GLY:HA3	1.90	0.54
1:JV:94:LEU:HD12	1:JW:109:GLN:HE21	1.72	0.54
1:KB:39:PRO:HB2	1:KB:47:GLY:HA3	1.90	0.54
1:KB:44:GLY:O	1:KC:69:ARG:NH2	2.41	0.54
1:KB:94:LEU:HD22	1:KC:101:LEU:HD22	1.89	0.54
1:KE:39:PRO:HB2	1:KE:47:GLY:HA3	1.89	0.54
1:KZ:49:VAL:HG11	1:LA:112:ALA:O	2.07	0.54
1:LF:94:LEU:HD12	1:LG:109:GLN:HE21	1.72	0.54
1:LI:39:PRO:HB2	1:LI:47:GLY:HA3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MP:39:PRO:HB2	1:MP:47:GLY:HA3	1.90	0.54
1:MP:44:GLY:O	1:MQ:69:ARG:NH2	2.41	0.54
1:MP:49:VAL:HG11	1:MQ:112:ALA:O	2.07	0.54
1:MS:39:PRO:HB2	1:MS:47:GLY:HA3	1.90	0.54
1:NA:21:LEU:HB3	1:NA:22:PRO:HD2	1.88	0.54
1:NK:94:LEU:HD22	1:NL:101:LEU:HD22	1.89	0.54
1:NT:39:PRO:HB2	1:NT:47:GLY:HA3	1.90	0.54
1:AA:44:GLY:O	1:AB:69:ARG:NH2	2.41	0.54
1:AC:57:LYS:NZ	1:DO:92:GLU:CD	2.58	0.54
1:AD:9:LEU:HG	1:AD:10:ARG:HG3	1.88	0.54
1:AI:28:LEU:HD21	1:AI:60:LEU:HG	1.89	0.54
1:AJ:94:LEU:HD22	1:AK:101:LEU:HD22	1.89	0.54
1:AM:44:GLY:O	1:AN:69:ARG:NH2	2.41	0.54
1:AP:38:LEU:HB2	1:FV:10:ARG:HH11	1.72	0.54
1:AP:44:GLY:O	1:AQ:69:ARG:NH2	2.41	0.54
1:AU:65:THR:HG22	1:AU:67:SER:H	1.73	0.54
1:AV:94:LEU:HD22	1:AW:101:LEU:HD22	1.89	0.54
1:BB:44:GLY:O	1:BC:69:ARG:NH2	2.41	0.54
1:BK:44:GLY:O	1:BL:69:ARG:NH2	2.41	0.54
1:BT:49:VAL:HG11	1:BU:112:ALA:O	2.07	0.54
1:BW:94:LEU:HD12	1:BX:109:GLN:HE21	1.72	0.54
1:BY:28:LEU:HD21	1:BY:60:LEU:HG	1.88	0.54
1:CE:28:LEU:HD21	1:CE:60:LEU:HG	1.89	0.54
1:CF:39:PRO:HB2	1:CF:47:GLY:HA3	1.89	0.54
1:CL:39:PRO:HB2	1:CL:47:GLY:HA3	1.90	0.54
1:CN:116:TYR:CE1	1:FX:9:LEU:HA	2.43	0.54
1:CR:44:GLY:O	1:CS:69:ARG:NH2	2.41	0.54
1:CR:49:VAL:HG11	1:CS:112:ALA:O	2.07	0.54
1:DA:94:LEU:HD12	1:DB:109:GLN:HE21	1.72	0.54
1:DD:44:GLY:O	1:DE:69:ARG:NH2	2.41	0.54
1:DD:49:VAL:HG11	1:DE:112:ALA:O	2.07	0.54
1:DJ:39:PRO:HB2	1:DJ:47:GLY:HA3	1.89	0.54
1:EB:39:PRO:HB2	1:EB:47:GLY:HA3	1.89	0.54
1:EK:49:VAL:HG11	1:EL:112:ALA:O	2.07	0.54
1:EN:44:GLY:O	1:EO:69:ARG:NH2	2.41	0.54
1:EN:94:LEU:HD12	1:EO:109:GLN:HE21	1.72	0.54
1:EQ:94:LEU:HD22	1:ER:101:LEU:HD22	1.89	0.54
1:ES:21:LEU:HB3	1:ES:22:PRO:HD2	1.88	0.54
1:FC:49:VAL:HG11	1:FD:112:ALA:O	2.07	0.54
1:FF:39:PRO:HB2	1:FF:47:GLY:HA3	1.90	0.54
1:FQ:21:LEU:HB3	1:FQ:22:PRO:HD2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FU:44:GLY:O	1:FV:69:ARG:NH2	2.41	0.54
1:GA:44:GLY:O	1:GB:69:ARG:NH2	2.41	0.54
1:GD:49:VAL:HG11	1:GE:112:ALA:O	2.07	0.54
1:GS:44:GLY:O	1:GT:69:ARG:NH2	2.41	0.54
1:GY:39:PRO:HB2	1:GY:47:GLY:HA3	1.90	0.54
1:HE:94:LEU:HD12	1:HF:109:GLN:HE21	1.72	0.54
1:HN:49:VAL:HG11	1:HO:112:ALA:O	2.07	0.54
1:HS:28:LEU:HD21	1:HS:60:LEU:HG	1.89	0.54
1:HT:94:LEU:HD12	1:HU:109:GLN:HE21	1.72	0.54
1:IB:21:LEU:HB3	1:IB:22:PRO:HD2	1.88	0.54
1:IE:65:THR:HG22	1:IE:67:SER:H	1.73	0.54
1:IO:49:VAL:HG11	1:IP:112:ALA:O	2.07	0.54
1:IR:39:PRO:HB2	1:IR:47:GLY:HA3	1.90	0.54
1:IX:49:VAL:HG11	1:IY:112:ALA:O	2.07	0.54
1:JS:39:PRO:HB2	1:JS:47:GLY:HA3	1.90	0.54
1:KE:49:VAL:HG11	1:KF:112:ALA:O	2.07	0.54
1:KN:44:GLY:O	1:KO:69:ARG:NH2	2.41	0.54
1:KP:86:THR:OG1	1:KP:89:ASP:OD2	2.23	0.54
1:KQ:39:PRO:HB2	1:KQ:47:GLY:HA3	1.89	0.54
1:KR:38:LEU:HD22	1:NP:10:ARG:HH21	1.72	0.54
1:LI:94:LEU:HD12	1:LJ:109:GLN:HE21	1.72	0.54
1:LL:39:PRO:HB2	1:LL:47:GLY:HA3	1.89	0.54
1:LX:49:VAL:HG11	1:LY:112:ALA:O	2.07	0.54
1:MD:49:VAL:HG11	1:ME:112:ALA:O	2.07	0.54
1:MY:94:LEU:HD22	1:MZ:101:LEU:HD22	1.89	0.54
1:NE:44:GLY:O	1:NF:69:ARG:NH2	2.41	0.54
1:NH:94:LEU:HD12	1:NI:109:GLN:HE21	1.72	0.54
1:NJ:42:ARG:HB2	1:NJ:45:ASN:HB3	1.87	0.54
1:NV:28:LEU:HD21	1:NV:60:LEU:HG	1.88	0.54
1:AC:80:SER:HB2	1:DO:74:VAL:CG2	2.36	0.54
1:AF:80:SER:HB2	1:DR:74:VAL:HG22	1.90	0.54
1:AG:44:GLY:O	1:AH:69:ARG:NH2	2.41	0.54
1:AG:94:LEU:HD22	1:AH:101:LEU:HD22	1.89	0.54
1:AK:10:ARG:NH2	1:BW:15:ASP:OD1	2.41	0.54
1:AL:65:THR:HG22	1:AL:67:SER:H	1.73	0.54
1:AP:16:SER:HA	1:AP:35:VAL:HG12	1.90	0.54
1:AS:44:GLY:O	1:AT:69:ARG:NH2	2.41	0.54
1:BB:49:VAL:HG11	1:BC:112:ALA:O	2.07	0.54
1:BN:16:SER:HA	1:BN:35:VAL:HG12	1.90	0.54
1:BN:44:GLY:O	1:BO:69:ARG:NH2	2.41	0.54
1:BW:9:LEU:HG	1:BW:10:ARG:HG3	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CI:38:LEU:HB2	1:CP:10:ARG:NH1	2.23	0.54
1:CK:65:THR:HG22	1:CK:67:SER:H	1.73	0.54
1:DC:28:LEU:HD21	1:DC:60:LEU:HG	1.89	0.54
1:DG:94:LEU:HD22	1:DH:101:LEU:HD22	1.89	0.54
1:DP:39:PRO:HB2	1:DP:47:GLY:HA3	1.89	0.54
1:DV:44:GLY:O	1:DW:69:ARG:NH2	2.41	0.54
1:EG:65:THR:HG22	1:EG:67:SER:H	1.73	0.54
1:ET:39:PRO:HB2	1:ET:47:GLY:HA3	1.90	0.54
1:FF:49:VAL:HG11	1:FG:112:ALA:O	2.07	0.54
1:FO:39:PRO:HB2	1:FO:47:GLY:HA3	1.90	0.54
1:FR:49:VAL:HG11	1:FS:112:ALA:O	2.07	0.54
1:FU:49:VAL:HG11	1:FV:112:ALA:O	2.07	0.54
1:FZ:21:LEU:HB3	1:FZ:22:PRO:HD2	1.88	0.54
1:GD:44:GLY:O	1:GE:69:ARG:NH2	2.41	0.54
1:GJ:16:SER:HA	1:GJ:35:VAL:HG12	1.90	0.54
1:GO:21:LEU:HB3	1:GO:22:PRO:HD2	1.88	0.54
1:GO:28:LEU:HD21	1:GO:60:LEU:HG	1.89	0.54
1:GS:94:LEU:HD12	1:GT:109:GLN:HE21	1.72	0.54
1:HA:28:LEU:HD21	1:HA:60:LEU:HG	1.89	0.54
1:HE:44:GLY:O	1:HF:69:ARG:NH2	2.41	0.54
1:HK:49:VAL:HG11	1:HL:112:ALA:O	2.07	0.54
1:HM:49:VAL:CG1	1:KY:112:ALA:O	2.52	0.54
1:HN:44:GLY:O	1:HO:69:ARG:NH2	2.41	0.54
1:HQ:44:GLY:O	1:HR:69:ARG:NH2	2.41	0.54
1:HV:65:THR:HG22	1:HV:67:SER:H	1.73	0.54
1:HW:16:SER:HA	1:HW:35:VAL:HG12	1.90	0.54
1:HW:49:VAL:HG11	1:HX:112:ALA:O	2.07	0.54
1:HZ:16:SER:HA	1:HZ:35:VAL:HG12	1.90	0.54
1:HZ:39:PRO:HB2	1:HZ:47:GLY:HA3	1.90	0.54
1:IH:65:THR:HG22	1:IH:67:SER:H	1.73	0.54
1:IT:65:THR:HG22	1:IT:67:SER:H	1.73	0.54
1:JG:44:GLY:O	1:JH:69:ARG:NH2	2.41	0.54
1:JP:44:GLY:O	1:JQ:69:ARG:NH2	2.41	0.54
1:JP:94:LEU:HD22	1:JQ:101:LEU:HD22	1.89	0.54
1:JR:21:LEU:HB3	1:JR:22:PRO:HD2	1.88	0.54
1:JY:39:PRO:HB2	1:JY:47:GLY:HA3	1.89	0.54
1:JY:94:LEU:HD12	1:JZ:109:GLN:HE21	1.72	0.54
1:KG:57:LYS:HZ3	1:NS:92:GLU:CD	2.10	0.54
1:KS:21:LEU:HB3	1:KS:22:PRO:HD2	1.88	0.54
1:KY:65:THR:HG22	1:KY:67:SER:H	1.73	0.54
1:LC:94:LEU:HD12	1:LD:109:GLN:HE21	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LH:21:LEU:HB3	1:LH:22:PRO:HD2	1.88	0.54
1:LK:28:LEU:HD21	1:LK:60:LEU:HG	1.89	0.54
1:LO:39:PRO:HB2	1:LO:47:GLY:HA3	1.90	0.54
1:LQ:28:LEU:HD21	1:LQ:60:LEU:HG	1.89	0.54
1:LU:94:LEU:HD22	1:LV:101:LEU:HD22	1.89	0.54
1:LX:44:GLY:O	1:LY:69:ARG:NH2	2.41	0.54
1:MI:65:THR:HG22	1:MI:67:SER:H	1.73	0.54
1:MJ:44:GLY:O	1:MK:69:ARG:NH2	2.41	0.54
1:MJ:94:LEU:HD12	1:MK:109:GLN:HE21	1.72	0.54
1:ML:28:LEU:HD21	1:ML:60:LEU:HG	1.89	0.54
1:MV:94:LEU:HD12	1:MW:109:GLN:HE21	1.72	0.54
1:MX:28:LEU:HD21	1:MX:60:LEU:HG	1.88	0.54
1:NB:44:GLY:O	1:NC:69:ARG:NH2	2.41	0.54
1:NH:94:LEU:HD22	1:NI:101:LEU:HD22	1.89	0.54
1:NN:94:LEU:HD12	1:NO:109:GLN:HE21	1.72	0.54
1:AD:39:PRO:HB2	1:AD:47:GLY:HA3	1.90	0.54
1:AD:44:GLY:O	1:AE:69:ARG:NH2	2.41	0.54
1:AG:16:SER:HA	1:AG:35:VAL:HG12	1.90	0.54
1:AG:94:LEU:HD12	1:AH:109:GLN:HE21	1.72	0.54
1:AJ:44:GLY:O	1:AK:69:ARG:NH2	2.41	0.54
1:AJ:94:LEU:HD12	1:AK:109:GLN:HE21	1.72	0.54
1:BA:65:THR:HG22	1:BA:67:SER:H	1.73	0.54
1:BB:94:LEU:HD12	1:BC:109:GLN:HE21	1.72	0.54
1:BE:49:VAL:HG11	1:BF:112:ALA:O	2.07	0.54
1:BT:44:GLY:O	1:BU:69:ARG:NH2	2.41	0.54
1:BT:94:LEU:HD12	1:BU:109:GLN:HE21	1.72	0.54
1:CC:44:GLY:O	1:CD:69:ARG:NH2	2.41	0.54
1:CI:44:GLY:O	1:CJ:69:ARG:NH2	2.41	0.54
1:CI:49:VAL:HG11	1:CJ:112:ALA:O	2.07	0.54
1:CO:49:VAL:HG11	1:CP:112:ALA:O	2.07	0.54
1:CT:65:THR:HG22	1:CT:67:SER:H	1.73	0.54
1:CU:38:LEU:HB2	1:GN:10:ARG:HH11	1.73	0.54
1:CW:10:ARG:HH21	1:GN:38:LEU:CD2	2.19	0.54
1:CX:39:PRO:HB2	1:CX:47:GLY:HA3	1.90	0.54
1:DF:28:LEU:HD21	1:DF:60:LEU:HG	1.89	0.54
1:DJ:44:GLY:O	1:DK:69:ARG:NH2	2.41	0.54
1:EB:16:SER:HA	1:EB:35:VAL:HG12	1.90	0.54
1:EB:44:GLY:O	1:EC:69:ARG:NH2	2.41	0.54
1:EE:44:GLY:O	1:EF:69:ARG:NH2	2.41	0.54
1:EH:44:GLY:O	1:EI:69:ARG:NH2	2.41	0.54
1:EQ:16:SER:HA	1:EQ:35:VAL:HG12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EZ:39:PRO:HB2	1:EZ:47:GLY:HA3	1.89	0.54
1:FI:39:PRO:HB2	1:FI:47:GLY:HA3	1.90	0.54
1:FO:44:GLY:O	1:FP:69:ARG:NH2	2.41	0.54
1:FX:44:GLY:O	1:FY:69:ARG:NH2	2.41	0.54
1:GA:94:LEU:HD12	1:GB:109:GLN:HE21	1.72	0.54
1:GI:28:LEU:HD21	1:GI:60:LEU:HG	1.89	0.54
1:GM:94:LEU:HD12	1:GN:109:GLN:HE21	1.72	0.54
1:GP:16:SER:HA	1:GP:35:VAL:HG12	1.90	0.54
1:GP:49:VAL:HG11	1:GQ:112:ALA:O	2.07	0.54
1:GS:49:VAL:HG11	1:GT:112:ALA:O	2.07	0.54
1:GU:21:LEU:HB3	1:GU:22:PRO:HD2	1.88	0.54
1:GV:9:LEU:HG	1:GV:10:ARG:HG3	1.87	0.54
1:GX:21:LEU:HB3	1:GX:22:PRO:HD2	1.88	0.54
1:GX:65:THR:HG22	1:GX:67:SER:H	1.73	0.54
1:GY:94:LEU:HD22	1:GZ:101:LEU:HD22	1.89	0.54
1:HD:90:ARG:NH2	1:KP:113:TYR:CG	2.75	0.54
1:HH:44:GLY:O	1:HI:69:ARG:NH2	2.41	0.54
1:HH:94:LEU:HD22	1:HI:101:LEU:HD22	1.89	0.54
1:HN:113:TYR:O	1:IT:26:VAL:HG21	2.05	0.54
1:HP:10:ARG:NH1	1:MT:15:ASP:OD1	2.41	0.54
1:HW:44:GLY:O	1:HX:69:ARG:NH2	2.41	0.54
1:HY:21:LEU:HB3	1:HY:22:PRO:HD2	1.88	0.54
1:IB:65:THR:HG22	1:IB:67:SER:H	1.73	0.54
1:IE:28:LEU:HD21	1:IE:60:LEU:HG	1.89	0.54
1:IE:92:GLU:OE2	1:LQ:57:LYS:NZ	2.33	0.54
1:IF:44:GLY:O	1:IG:69:ARG:NH2	2.41	0.54
1:IO:94:LEU:HD22	1:IP:101:LEU:HD22	1.89	0.54
1:IT:104:GLU:OE1	1:MF:53:ARG:NH1	2.33	0.54
1:JD:44:GLY:O	1:JE:69:ARG:NH2	2.41	0.54
1:KA:28:LEU:HD21	1:KA:60:LEU:HG	1.89	0.54
1:KH:44:GLY:O	1:KI:69:ARG:NH2	2.41	0.54
1:LC:16:SER:HA	1:LC:35:VAL:HG12	1.90	0.54
1:LC:94:LEU:HD22	1:LD:101:LEU:HD22	1.89	0.54
1:LF:39:PRO:HB2	1:LF:47:GLY:HA3	1.90	0.54
1:LH:65:THR:HG22	1:LH:67:SER:H	1.73	0.54
1:LN:28:LEU:HD21	1:LN:60:LEU:HG	1.88	0.54
1:MS:94:LEU:HD12	1:MT:109:GLN:HE21	1.72	0.54
1:NE:16:SER:HA	1:NE:35:VAL:HG12	1.90	0.54
1:NP:65:THR:HG22	1:NP:67:SER:H	1.73	0.54
1:NQ:39:PRO:HB2	1:NQ:47:GLY:HA3	1.90	0.54
1:AI:65:THR:HG22	1:AI:67:SER:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:39:PRO:HB2	1:AJ:47:GLY:HA3	1.90	0.54
1:AS:39:PRO:HB2	1:AS:47:GLY:HA3	1.90	0.54
1:AY:44:GLY:O	1:AZ:69:ARG:NH2	2.41	0.54
1:BD:21:LEU:HB3	1:BD:22:PRO:HD2	1.88	0.54
1:BQ:44:GLY:O	1:BR:69:ARG:NH2	2.41	0.54
1:BQ:49:VAL:HG11	1:BR:112:ALA:O	2.07	0.54
1:BV:65:THR:HG22	1:BV:67:SER:H	1.73	0.54
1:BW:44:GLY:O	1:BX:69:ARG:NH2	2.41	0.54
1:BZ:44:GLY:O	1:CA:69:ARG:NH2	2.41	0.54
1:BZ:49:VAL:HG11	1:CA:112:ALA:O	2.07	0.54
1:CF:44:GLY:O	1:CG:69:ARG:NH2	2.41	0.54
1:CI:113:TYR:O	1:GI:26:VAL:HG21	2.08	0.54
1:CL:49:VAL:HG11	1:CM:112:ALA:O	2.07	0.54
1:CN:65:THR:HG22	1:CN:67:SER:H	1.73	0.54
1:CZ:21:LEU:HB3	1:CZ:22:PRO:HD2	1.88	0.54
1:DA:39:PRO:HB2	1:DA:47:GLY:HA3	1.89	0.54
1:DA:49:VAL:HG11	1:DB:112:ALA:O	2.07	0.54
1:DD:39:PRO:HB2	1:DD:47:GLY:HA3	1.90	0.54
1:DG:39:PRO:HB2	1:DG:47:GLY:HA3	1.89	0.54
1:DG:44:GLY:O	1:DH:69:ARG:NH2	2.41	0.54
1:DV:39:PRO:HB2	1:DV:47:GLY:HA3	1.90	0.54
1:DY:39:PRO:HB2	1:DY:47:GLY:HA3	1.90	0.54
1:EH:49:VAL:HG11	1:EI:112:ALA:O	2.07	0.54
1:EV:86:THR:OG1	1:EV:89:ASP:OD2	2.23	0.54
1:EZ:94:LEU:HD22	1:FA:101:LEU:HD22	1.89	0.54
1:FC:16:SER:HA	1:FC:35:VAL:HG12	1.90	0.54
1:FO:49:VAL:HG11	1:FP:112:ALA:O	2.07	0.54
1:FQ:65:THR:HG22	1:FQ:67:SER:H	1.73	0.54
1:FU:39:PRO:HB2	1:FU:47:GLY:HA3	1.90	0.54
1:GA:39:PRO:HB2	1:GA:47:GLY:HA3	1.90	0.54
1:GS:16:SER:HA	1:GS:35:VAL:HG12	1.90	0.54
1:GV:16:SER:HA	1:GV:35:VAL:HG12	1.90	0.54
1:HA:89:ASP:OD2	1:KM:59:ILE:HD12	2.08	0.54
1:HE:39:PRO:HB2	1:HE:47:GLY:HA3	1.90	0.54
1:HH:16:SER:HA	1:HH:35:VAL:HG12	1.90	0.54
1:HH:114:SER:HA	1:IW:26:VAL:HG21	1.89	0.54
1:HJ:74:VAL:HG22	1:KV:80:SER:HB2	1.90	0.54
1:HJ:113:TYR:CG	1:KV:90:ARG:NH2	2.76	0.54
1:HK:9:LEU:HA	1:KY:116:TYR:CE1	2.43	0.54
1:HM:21:LEU:HB3	1:HM:22:PRO:HD2	1.88	0.54
1:HV:28:LEU:HD21	1:HV:60:LEU:HG	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IF:16:SER:HA	1:IF:35:VAL:HG12	1.90	0.54
1:IK:21:LEU:HB3	1:IK:22:PRO:HD2	1.88	0.54
1:IR:16:SER:HA	1:IR:35:VAL:HG12	1.90	0.54
1:IR:94:LEU:HD12	1:IS:109:GLN:HE21	1.72	0.54
1:JA:16:SER:HA	1:JA:35:VAL:HG12	1.90	0.54
1:JD:39:PRO:HB2	1:JD:47:GLY:HA3	1.90	0.54
1:JF:65:THR:HG22	1:JF:67:SER:H	1.73	0.54
1:JS:94:LEU:HD22	1:JT:101:LEU:HD22	1.89	0.54
1:JV:49:VAL:HG11	1:JW:112:ALA:O	2.07	0.54
1:KB:49:VAL:HG11	1:KC:112:ALA:O	2.07	0.54
1:KQ:94:LEU:HD12	1:KR:109:GLN:HE21	1.72	0.54
1:KV:65:THR:HG22	1:KV:67:SER:H	1.73	0.54
1:KW:44:GLY:O	1:KX:69:ARG:NH2	2.41	0.54
1:LF:44:GLY:O	1:LG:69:ARG:NH2	2.41	0.54
1:LH:28:LEU:HD21	1:LH:60:LEU:HG	1.88	0.54
1:LR:94:LEU:HD12	1:LS:109:GLN:HE21	1.72	0.54
1:MM:44:GLY:O	1:MN:69:ARG:NH2	2.41	0.54
1:MX:65:THR:HG22	1:MX:67:SER:H	1.73	0.54
1:NB:49:VAL:HG11	1:NC:112:ALA:O	2.07	0.54
1:NH:49:VAL:HG11	1:NI:112:ALA:O	2.07	0.54
1:NK:39:PRO:HB2	1:NK:47:GLY:HA3	1.90	0.54
1:NT:94:LEU:HD12	1:NU:109:GLN:HE21	1.72	0.54
1:AC:89:ASP:OD2	1:DO:59:ILE:HD12	2.08	0.54
1:AE:10:ARG:CZ	1:BB:38:LEU:HB2	2.37	0.54
1:AM:39:PRO:HB2	1:AM:47:GLY:HA3	1.89	0.54
1:AP:94:LEU:HD12	1:AQ:109:GLN:HE21	1.72	0.54
1:AV:16:SER:HA	1:AV:35:VAL:HG12	1.90	0.54
1:AV:94:LEU:HD12	1:AW:109:GLN:HE21	1.72	0.54
1:AY:39:PRO:HB2	1:AY:47:GLY:HA3	1.90	0.54
1:BH:44:GLY:O	1:BI:69:ARG:NH2	2.41	0.54
1:BQ:94:LEU:HD12	1:BR:109:GLN:HE21	1.72	0.54
1:BS:65:THR:HG22	1:BS:67:SER:H	1.73	0.54
1:BZ:94:LEU:HD12	1:CA:109:GLN:HE21	1.72	0.54
1:CB:65:THR:HG22	1:CB:67:SER:H	1.73	0.54
1:CC:94:LEU:HD22	1:CD:101:LEU:HD22	1.89	0.54
1:CI:94:LEU:HD12	1:CJ:109:GLN:HE21	1.72	0.54
1:DD:94:LEU:HD22	1:DE:101:LEU:HD22	1.89	0.54
1:DJ:16:SER:HA	1:DJ:35:VAL:HG12	1.90	0.54
1:DS:44:GLY:O	1:DT:69:ARG:NH2	2.41	0.54
1:DU:65:THR:HG22	1:DU:67:SER:H	1.73	0.54
1:DY:44:GLY:O	1:DZ:69:ARG:NH2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EH:94:LEU:HD22	1:EI:101:LEU:HD22	1.89	0.54
1:EQ:44:GLY:O	1:ER:69:ARG:NH2	2.41	0.54
1:ET:44:GLY:O	1:EU:69:ARG:NH2	2.41	0.54
1:EW:94:LEU:HD12	1:EX:109:GLN:HE21	1.72	0.54
1:EZ:49:VAL:HG11	1:FA:112:ALA:O	2.07	0.54
1:FF:94:LEU:HD22	1:FG:101:LEU:HD22	1.89	0.54
1:FI:16:SER:HA	1:FI:35:VAL:HG12	1.90	0.54
1:FI:49:VAL:HG11	1:FJ:112:ALA:O	2.07	0.54
1:FL:44:GLY:O	1:FM:69:ARG:NH2	2.41	0.54
1:GV:94:LEU:HD22	1:GW:101:LEU:HD22	1.89	0.54
1:HB:44:GLY:O	1:HC:69:ARG:NH2	2.41	0.54
1:HE:49:VAL:HG11	1:HF:112:ALA:O	2.07	0.54
1:IF:94:LEU:HD22	1:IG:101:LEU:HD22	1.89	0.54
1:IZ:65:THR:HG22	1:IZ:67:SER:H	1.73	0.54
1:JA:44:GLY:O	1:JB:69:ARG:NH2	2.41	0.54
1:JA:114:SER:HA	1:NJ:26:VAL:CG2	2.38	0.54
1:JC:28:LEU:HD21	1:JC:60:LEU:HG	1.88	0.54
1:JJ:44:GLY:O	1:JK:69:ARG:NH2	2.41	0.54
1:JJ:49:VAL:HG11	1:JK:112:ALA:O	2.07	0.54
1:JM:94:LEU:HD12	1:JN:109:GLN:HE21	1.72	0.54
1:JU:10:ARG:HH21	1:NL:38:LEU:HD22	1.72	0.54
1:JY:94:LEU:HD22	1:JZ:101:LEU:HD22	1.89	0.54
1:KE:44:GLY:O	1:KF:69:ARG:NH2	2.41	0.54
1:KJ:65:THR:HG22	1:KJ:67:SER:H	1.73	0.54
1:KZ:114:SER:HA	1:NA:26:VAL:HG21	1.90	0.54
1:LG:66:ALA:HB1	1:LM:66:ALA:HB3	1.90	0.54
1:LJ:38:LEU:HD22	1:LQ:10:ARG:HH21	1.71	0.54
1:LL:44:GLY:O	1:LM:69:ARG:NH2	2.41	0.54
1:LT:65:THR:HG22	1:LT:67:SER:H	1.73	0.54
1:MC:28:LEU:HD21	1:MC:60:LEU:HG	1.89	0.54
1:MC:65:THR:HG22	1:MC:67:SER:H	1.73	0.54
1:MF:65:THR:HG22	1:MF:67:SER:H	1.73	0.54
1:MM:39:PRO:HB2	1:MM:47:GLY:HA3	1.90	0.54
1:MS:94:LEU:HD22	1:MT:101:LEU:HD22	1.89	0.54
1:NA:65:THR:HG22	1:NA:67:SER:H	1.73	0.54
1:NB:94:LEU:HD12	1:NC:109:GLN:HE21	1.72	0.54
1:NK:16:SER:HA	1:NK:35:VAL:HG12	1.90	0.54
1:NK:44:GLY:O	1:NL:69:ARG:NH2	2.41	0.54
1:NK:49:VAL:HG11	1:NL:112:ALA:O	2.07	0.54
1:NT:44:GLY:O	1:NU:69:ARG:NH2	2.41	0.54
1:AF:21:LEU:HB3	1:AF:22:PRO:HD2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:94:LEU:HD22	1:AT:101:LEU:HD22	1.89	0.54
1:BA:28:LEU:HD21	1:BA:60:LEU:HG	1.88	0.54
1:BE:16:SER:HA	1:BE:35:VAL:HG12	1.90	0.54
1:BH:94:LEU:HD12	1:BI:109:GLN:HE21	1.72	0.54
1:BK:94:LEU:HD22	1:BL:101:LEU:HD22	1.89	0.54
1:BN:49:VAL:HG11	1:BO:112:ALA:O	2.07	0.54
1:BO:15:ASP:OD1	1:EA:10:ARG:NH1	2.41	0.54
1:BW:39:PRO:HB2	1:BW:47:GLY:HA3	1.90	0.54
1:CB:21:LEU:HB3	1:CB:22:PRO:HD2	1.88	0.54
1:CL:94:LEU:HD22	1:CM:101:LEU:HD22	1.89	0.54
1:CO:44:GLY:O	1:CP:69:ARG:NH2	2.41	0.54
1:CQ:80:SER:HB2	1:GC:74:VAL:HG22	1.89	0.54
1:CT:28:LEU:HD21	1:CT:60:LEU:HG	1.89	0.54
1:CX:94:LEU:HD12	1:CY:109:GLN:HE21	1.72	0.54
1:DA:44:GLY:O	1:DB:69:ARG:NH2	2.41	0.54
1:DS:16:SER:HA	1:DS:35:VAL:HG12	1.90	0.54
1:EA:65:THR:HG22	1:EA:67:SER:H	1.73	0.54
1:EE:39:PRO:HB2	1:EE:47:GLY:HA3	1.90	0.54
1:EV:28:LEU:HD21	1:EV:60:LEU:HG	1.89	0.54
1:EZ:94:LEU:HD12	1:FA:109:GLN:HE21	1.72	0.54
1:FE:65:THR:HG22	1:FE:67:SER:H	1.73	0.54
1:FN:65:THR:HG22	1:FN:67:SER:H	1.73	0.54
1:FO:94:LEU:HD12	1:FP:109:GLN:HE21	1.72	0.54
1:FR:16:SER:HA	1:FR:35:VAL:HG12	1.90	0.54
1:FT:65:THR:HG22	1:FT:67:SER:H	1.73	0.54
1:FX:39:PRO:HB2	1:FX:47:GLY:HA3	1.89	0.54
1:GO:65:THR:HG22	1:GO:67:SER:H	1.73	0.54
1:GP:39:PRO:HB2	1:GP:47:GLY:HA3	1.90	0.54
1:HB:39:PRO:HB2	1:HB:47:GLY:HA3	1.90	0.54
1:HB:94:LEU:HD12	1:HC:109:GLN:HE21	1.72	0.54
1:HE:16:SER:HA	1:HE:35:VAL:HG12	1.90	0.54
1:HH:49:VAL:HG11	1:HI:112:ALA:O	2.07	0.54
1:HM:65:THR:HG22	1:HM:67:SER:H	1.73	0.54
1:HW:39:PRO:HB2	1:HW:47:GLY:HA3	1.89	0.54
1:IC:44:GLY:O	1:ID:69:ARG:NH2	2.41	0.54
1:IN:28:LEU:HD21	1:IN:60:LEU:HG	1.89	0.54
1:IO:16:SER:HA	1:IO:35:VAL:HG12	1.90	0.54
1:IX:16:SER:HA	1:IX:35:VAL:HG12	1.90	0.54
1:JA:49:VAL:HG11	1:JB:112:ALA:O	2.07	0.54
1:JG:16:SER:HA	1:JG:35:VAL:HG12	1.90	0.54
1:JI:21:LEU:HB3	1:JI:22:PRO:HD2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JL:49:VAL:HG11	1:MX:112:ALA:O	2.08	0.54
1:JL:65:THR:HG22	1:JL:67:SER:H	1.73	0.54
1:JP:39:PRO:HB2	1:JP:47:GLY:HA3	1.90	0.54
1:JV:44:GLY:O	1:JW:69:ARG:NH2	2.41	0.54
1:JX:21:LEU:HB3	1:JX:22:PRO:HD2	1.88	0.54
1:KM:86:THR:OG1	1:KM:89:ASP:OD2	2.23	0.54
1:KT:94:LEU:HD22	1:KU:101:LEU:HD22	1.89	0.54
1:KW:16:SER:HA	1:KW:35:VAL:HG12	1.90	0.54
1:LI:44:GLY:O	1:LJ:69:ARG:NH2	2.41	0.54
1:LR:39:PRO:HB2	1:LR:47:GLY:HA3	1.90	0.54
1:LU:44:GLY:O	1:LV:69:ARG:NH2	2.41	0.54
1:LW:28:LEU:HD21	1:LW:60:LEU:HG	1.89	0.54
1:LX:16:SER:HA	1:LX:35:VAL:HG12	1.90	0.54
1:MA:94:LEU:HD12	1:MB:109:GLN:HE21	1.72	0.54
1:MG:44:GLY:O	1:MH:69:ARG:NH2	2.41	0.54
1:MV:49:VAL:HG11	1:MW:112:ALA:O	2.07	0.54
1:NT:49:VAL:HG11	1:NU:112:ALA:O	2.07	0.54
1:AG:49:VAL:HG11	1:AH:112:ALA:O	2.07	0.54
1:AV:49:VAL:HG11	1:AW:112:ALA:O	2.07	0.54
1:AY:49:VAL:HG11	1:AZ:112:ALA:O	2.07	0.54
1:AY:94:LEU:HD22	1:AZ:101:LEU:HD22	1.89	0.54
1:BD:65:THR:HG22	1:BD:67:SER:H	1.73	0.54
1:BE:39:PRO:HB2	1:BE:47:GLY:HA3	1.90	0.54
1:BG:65:THR:HG22	1:BG:67:SER:H	1.73	0.54
1:BT:16:SER:HA	1:BT:35:VAL:HG12	1.90	0.54
1:CN:73:ILE:HG12	1:FZ:82:PRO:HD2	1.90	0.54
1:CU:44:GLY:O	1:CV:69:ARG:NH2	2.41	0.54
1:CX:16:SER:HA	1:CX:35:VAL:HG12	1.90	0.54
1:DM:94:LEU:HD12	1:DN:109:GLN:HE21	1.72	0.54
1:DS:94:LEU:HD12	1:DT:109:GLN:HE21	1.72	0.54
1:EH:16:SER:HA	1:EH:35:VAL:HG12	1.90	0.54
1:EQ:94:LEU:HD12	1:ER:109:GLN:HE21	1.72	0.54
1:EW:49:VAL:HG11	1:EX:112:ALA:O	2.07	0.54
1:EZ:44:GLY:O	1:FA:69:ARG:NH2	2.41	0.54
1:FF:44:GLY:O	1:FG:69:ARG:NH2	2.41	0.54
1:FF:94:LEU:HD12	1:FG:109:GLN:HE21	1.72	0.54
1:FL:39:PRO:HB2	1:FL:47:GLY:HA3	1.90	0.54
1:FL:94:LEU:HD12	1:FM:109:GLN:HE21	1.72	0.54
1:FR:39:PRO:HB2	1:FR:47:GLY:HA3	1.89	0.54
1:FR:44:GLY:O	1:FS:69:ARG:NH2	2.41	0.54
1:GD:39:PRO:HB2	1:GD:47:GLY:HA3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GD:94:LEU:HD22	1:GE:101:LEU:HD22	1.89	0.54
1:GJ:49:VAL:HG11	1:GK:112:ALA:O	2.07	0.54
1:GR:28:LEU:HD21	1:GR:60:LEU:HG	1.89	0.54
1:HB:16:SER:HA	1:HB:35:VAL:HG12	1.90	0.54
1:HO:15:ASP:OD1	1:IT:10:ARG:NH1	2.40	0.54
1:IC:39:PRO:HB2	1:IC:47:GLY:HA3	1.90	0.54
1:IW:65:THR:HG22	1:IW:67:SER:H	1.73	0.54
1:IX:94:LEU:HD12	1:IY:109:GLN:HE21	1.72	0.54
1:JC:113:TYR:CD1	1:MO:90:ARG:NH2	2.76	0.54
1:JJ:94:LEU:HD22	1:JK:101:LEU:HD22	1.89	0.54
1:JM:16:SER:HA	1:JM:35:VAL:HG12	1.90	0.54
1:JM:44:GLY:O	1:JN:69:ARG:NH2	2.41	0.54
1:JS:44:GLY:O	1:JT:69:ARG:NH2	2.41	0.54
1:JS:49:VAL:HG11	1:JT:112:ALA:O	2.07	0.54
1:KH:39:PRO:HB2	1:KH:47:GLY:HA3	1.89	0.54
1:KT:49:VAL:HG11	1:KU:112:ALA:O	2.07	0.54
1:KZ:44:GLY:O	1:LA:69:ARG:NH2	2.41	0.54
1:LL:49:VAL:HG11	1:LM:112:ALA:O	2.07	0.54
1:LQ:65:THR:HG22	1:LQ:67:SER:H	1.73	0.54
1:MM:94:LEU:HD12	1:MN:109:GLN:HE21	1.72	0.54
1:MP:16:SER:HA	1:MP:35:VAL:HG12	1.90	0.54
1:NB:39:PRO:HB2	1:NB:47:GLY:HA3	1.90	0.54
1:AA:94:LEU:HD12	1:AB:109:GLN:HE21	1.72	0.54
1:AM:16:SER:HA	1:AM:35:VAL:HG12	1.90	0.54
1:AX:86:THR:OG1	1:AX:89:ASP:OD2	2.23	0.54
1:BP:65:THR:HG22	1:BP:67:SER:H	1.73	0.54
1:BW:94:LEU:HD22	1:BX:101:LEU:HD22	1.89	0.54
1:CB:89:ASP:OD2	1:FN:59:ILE:HD12	2.07	0.54
1:CC:94:LEU:HD12	1:CD:109:GLN:HE21	1.72	0.54
1:CL:15:ASP:OD1	1:DH:10:ARG:NH2	2.41	0.54
1:CL:16:SER:HA	1:CL:35:VAL:HG12	1.90	0.54
1:CL:44:GLY:O	1:CM:69:ARG:NH2	2.41	0.54
1:CN:74:VAL:CG2	1:FZ:80:SER:HB2	2.35	0.54
1:CO:16:SER:HA	1:CO:35:VAL:HG12	1.90	0.54
1:CW:28:LEU:HD21	1:CW:60:LEU:HG	1.89	0.54
1:DI:65:THR:HG22	1:DI:67:SER:H	1.73	0.54
1:DL:28:LEU:HD21	1:DL:60:LEU:HG	1.89	0.54
1:DP:44:GLY:O	1:DQ:69:ARG:NH2	2.41	0.54
1:EE:49:VAL:HG11	1:EF:112:ALA:O	2.07	0.54
1:EE:94:LEU:HD12	1:EF:109:GLN:HE21	1.72	0.54
1:EQ:39:PRO:HB2	1:EQ:47:GLY:HA3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EW:16:SER:HA	1:EW:35:VAL:HG12	1.90	0.54
1:EY:65:THR:HG22	1:EY:67:SER:H	1.73	0.54
1:FC:94:LEU:HD12	1:FD:109:GLN:HE21	1.72	0.54
1:FI:44:GLY:O	1:FJ:69:ARG:NH2	2.41	0.54
1:GG:44:GLY:O	1:GH:69:ARG:NH2	2.41	0.54
1:GJ:44:GLY:O	1:GK:69:ARG:NH2	2.41	0.54
1:GP:44:GLY:O	1:GQ:69:ARG:NH2	2.41	0.54
1:HK:94:LEU:HD12	1:HL:109:GLN:HE21	1.72	0.54
1:HT:44:GLY:O	1:HU:69:ARG:NH2	2.41	0.54
1:II:94:LEU:HD12	1:IJ:109:GLN:HE21	1.72	0.54
1:IQ:57:LYS:HZ3	1:MC:92:GLU:CD	2.11	0.54
1:JS:38:LEU:HB2	1:NL:10:ARG:NH1	2.23	0.54
1:JU:65:THR:HG22	1:JU:67:SER:H	1.73	0.54
1:KE:94:LEU:HD12	1:KF:109:GLN:HE21	1.72	0.54
1:KK:44:GLY:O	1:KL:69:ARG:NH2	2.41	0.54
1:KZ:39:PRO:HB2	1:KZ:47:GLY:HA3	1.90	0.54
1:LI:16:SER:HA	1:LI:35:VAL:HG12	1.90	0.54
1:LO:44:GLY:O	1:LP:69:ARG:NH2	2.41	0.54
1:LR:44:GLY:O	1:LS:69:ARG:NH2	2.41	0.54
1:LT:28:LEU:HD21	1:LT:60:LEU:HG	1.88	0.54
1:LZ:65:THR:HG22	1:LZ:67:SER:H	1.73	0.54
1:MA:44:GLY:O	1:MB:69:ARG:NH2	2.41	0.54
1:MA:94:LEU:HD22	1:MB:101:LEU:HD22	1.89	0.54
1:MJ:39:PRO:HB2	1:MJ:47:GLY:HA3	1.89	0.54
1:MY:16:SER:HA	1:MY:35:VAL:HG12	1.90	0.54
1:NA:28:LEU:HD21	1:NA:60:LEU:HG	1.88	0.54
1:AA:49:VAL:HG11	1:AB:112:ALA:O	2.07	0.53
1:AH:10:ARG:HH11	1:BE:38:LEU:HB2	1.72	0.53
1:BA:86:THR:OG1	1:BA:89:ASP:OD2	2.23	0.53
1:BJ:74:VAL:CG2	1:EV:80:SER:HB2	2.36	0.53
1:BK:49:VAL:HG11	1:BL:112:ALA:O	2.07	0.53
1:BW:16:SER:HA	1:BW:35:VAL:HG12	1.90	0.53
1:BW:49:VAL:HG11	1:BX:112:ALA:O	2.07	0.53
1:BW:99:SER:OG	1:BW:124:GLU:O	2.20	0.53
1:BZ:39:PRO:HB2	1:BZ:47:GLY:HA3	1.90	0.53
1:CR:16:SER:HA	1:CR:35:VAL:HG12	1.90	0.53
1:CU:39:PRO:HB2	1:CU:47:GLY:HA3	1.90	0.53
1:DS:39:PRO:HB2	1:DS:47:GLY:HA3	1.90	0.53
1:DX:65:THR:HG22	1:DX:67:SER:H	1.73	0.53
1:EH:39:PRO:HB2	1:EH:47:GLY:HA3	1.90	0.53
1:EM:65:THR:HG22	1:EM:67:SER:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ES:65:THR:HG22	1:ES:67:SER:H	1.73	0.53
1:FE:28:LEU:HD21	1:FE:60:LEU:HG	1.89	0.53
1:FR:94:LEU:HD22	1:FS:101:LEU:HD22	1.89	0.53
1:GI:65:THR:HG22	1:GI:67:SER:H	1.73	0.53
1:GM:44:GLY:O	1:GN:69:ARG:NH2	2.41	0.53
1:GS:39:PRO:HB2	1:GS:47:GLY:HA3	1.90	0.53
1:GY:49:VAL:HG11	1:GZ:112:ALA:O	2.07	0.53
1:HC:10:ARG:NH1	1:HZ:38:LEU:HB2	2.23	0.53
1:HD:65:THR:HG22	1:HD:67:SER:H	1.73	0.53
1:HH:39:PRO:HB2	1:HH:47:GLY:HA3	1.90	0.53
1:HJ:65:THR:HG22	1:HJ:67:SER:H	1.73	0.53
1:HQ:94:LEU:HD12	1:HR:109:GLN:HE21	1.72	0.53
1:IC:94:LEU:HD12	1:ID:109:GLN:HE21	1.72	0.53
1:IC:113:TYR:O	1:IK:26:VAL:HG21	2.08	0.53
1:II:39:PRO:HB2	1:II:47:GLY:HA3	1.90	0.53
1:II:44:GLY:O	1:IJ:69:ARG:NH2	2.41	0.53
1:IO:39:PRO:HB2	1:IO:47:GLY:HA3	1.90	0.53
1:IP:10:ARG:HH11	1:KZ:38:LEU:HB2	1.73	0.53
1:IQ:65:THR:HG22	1:IQ:67:SER:H	1.73	0.53
1:IR:44:GLY:O	1:IS:69:ARG:NH2	2.41	0.53
1:JF:80:SER:HB2	1:MR:74:VAL:HG22	1.90	0.53
1:JJ:94:LEU:HD12	1:JK:109:GLN:HE21	1.72	0.53
1:KN:94:LEU:HD22	1:KO:101:LEU:HD22	1.89	0.53
1:KQ:44:GLY:O	1:KR:69:ARG:NH2	2.41	0.53
1:KQ:49:VAL:HG11	1:KR:112:ALA:O	2.07	0.53
1:KW:94:LEU:HD12	1:KX:109:GLN:HE21	1.72	0.53
1:KZ:94:LEU:HD22	1:LA:101:LEU:HD22	1.89	0.53
1:LF:16:SER:HA	1:LF:35:VAL:HG12	1.90	0.53
1:LL:94:LEU:HD12	1:LM:109:GLN:HE21	1.72	0.53
1:LN:65:THR:HG22	1:LN:67:SER:H	1.73	0.53
1:MA:49:VAL:HG11	1:MB:112:ALA:O	2.07	0.53
1:MD:44:GLY:O	1:ME:69:ARG:NH2	2.41	0.53
1:MJ:16:SER:HA	1:MJ:35:VAL:HG12	1.90	0.53
1:MS:44:GLY:O	1:MT:69:ARG:NH2	2.41	0.53
1:NB:94:LEU:HD22	1:NC:101:LEU:HD22	1.89	0.53
1:NE:94:LEU:HD22	1:NF:101:LEU:HD22	1.89	0.53
1:NH:44:GLY:O	1:NI:69:ARG:NH2	2.41	0.53
1:NN:44:GLY:O	1:NO:69:ARG:NH2	2.41	0.53
1:NQ:94:LEU:HD22	1:NR:101:LEU:HD22	1.89	0.53
1:AA:16:SER:HA	1:AA:35:VAL:HG12	1.90	0.53
1:AG:39:PRO:HB2	1:AG:47:GLY:HA3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:44:GLY:O	1:BF:69:ARG:NH2	2.41	0.53
1:BH:39:PRO:HB2	1:BH:47:GLY:HA3	1.90	0.53
1:CN:28:LEU:HD21	1:CN:60:LEU:HG	1.88	0.53
1:DG:16:SER:HA	1:DG:35:VAL:HG12	1.90	0.53
1:DS:49:VAL:HG11	1:DT:112:ALA:O	2.07	0.53
1:ED:65:THR:HG22	1:ED:67:SER:H	1.73	0.53
1:EZ:16:SER:HA	1:EZ:35:VAL:HG12	1.90	0.53
1:FL:16:SER:HA	1:FL:35:VAL:HG12	1.90	0.53
1:FX:94:LEU:HD22	1:FY:101:LEU:HD22	1.89	0.53
1:GA:16:SER:HA	1:GA:35:VAL:HG12	1.90	0.53
1:GF:65:THR:HG22	1:GF:67:SER:H	1.73	0.53
1:GV:44:GLY:O	1:GW:69:ARG:NH2	2.41	0.53
1:HA:80:SER:HB2	1:KM:74:VAL:CG2	2.37	0.53
1:HF:10:ARG:NH2	1:IC:15:ASP:OD1	2.41	0.53
1:HG:26:VAL:HG21	1:NB:113:TYR:O	2.08	0.53
1:HN:16:SER:HA	1:HN:35:VAL:HG12	1.90	0.53
1:HN:94:LEU:HD22	1:HO:101:LEU:HD22	1.89	0.53
1:IK:65:THR:HG22	1:IK:67:SER:H	1.73	0.53
1:JM:49:VAL:HG11	1:JN:112:ALA:O	2.07	0.53
1:JM:94:LEU:HD22	1:JN:101:LEU:HD22	1.89	0.53
1:JR:65:THR:HG22	1:JR:67:SER:H	1.73	0.53
1:JS:16:SER:HA	1:JS:35:VAL:HG12	1.90	0.53
1:JY:16:SER:HA	1:JY:35:VAL:HG12	1.90	0.53
1:KB:94:LEU:HD12	1:KC:109:GLN:HE21	1.72	0.53
1:KG:28:LEU:HD21	1:KG:60:LEU:HG	1.89	0.53
1:KT:16:SER:HA	1:KT:35:VAL:HG12	1.90	0.53
1:KW:39:PRO:HB2	1:KW:47:GLY:HA3	1.90	0.53
1:LJ:10:ARG:NH1	1:LO:38:LEU:HB2	2.24	0.53
1:LU:49:VAL:HG11	1:LV:112:ALA:O	2.07	0.53
1:MY:39:PRO:HB2	1:MY:47:GLY:HA3	1.90	0.53
1:AD:94:LEU:HD12	1:AE:109:GLN:HE21	1.72	0.53
1:AJ:49:VAL:HG11	1:AK:112:ALA:O	2.07	0.53
1:AS:16:SER:HA	1:AS:35:VAL:HG12	1.90	0.53
1:BA:119:ASP:O	1:EM:8:LYS:HB2	2.08	0.53
1:BH:94:LEU:HD22	1:BI:101:LEU:HD22	1.89	0.53
1:BJ:65:THR:HG22	1:BJ:67:SER:H	1.73	0.53
1:BN:94:LEU:HD22	1:BO:101:LEU:HD22	1.89	0.53
1:BY:65:THR:HG22	1:BY:67:SER:H	1.73	0.53
1:CI:39:PRO:HB2	1:CI:47:GLY:HA3	1.90	0.53
1:CX:49:VAL:HG11	1:CY:112:ALA:O	2.07	0.53
1:DS:94:LEU:HD22	1:DT:101:LEU:HD22	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EE:94:LEU:HD22	1:EF:101:LEU:HD22	1.89	0.53
1:EW:94:LEU:HD22	1:EX:101:LEU:HD22	1.89	0.53
1:FZ:65:THR:HG22	1:FZ:67:SER:H	1.73	0.53
1:GV:39:PRO:HB2	1:GV:47:GLY:HA3	1.90	0.53
1:HG:65:THR:HG22	1:HG:67:SER:H	1.73	0.53
1:HK:39:PRO:HB2	1:HK:47:GLY:HA3	1.89	0.53
1:IB:74:VAL:HG22	1:LN:80:SER:HB2	1.91	0.53
1:IB:104:GLU:OE1	1:LN:53:ARG:NH1	2.28	0.53
1:IF:39:PRO:HB2	1:IF:47:GLY:HA3	1.90	0.53
1:IL:44:GLY:O	1:IM:69:ARG:NH2	2.41	0.53
1:KE:94:LEU:HD22	1:KF:101:LEU:HD22	1.89	0.53
1:LO:49:VAL:HG11	1:LP:112:ALA:O	2.07	0.53
1:LX:39:PRO:HB2	1:LX:47:GLY:HA3	1.89	0.53
1:MV:44:GLY:O	1:MW:69:ARG:NH2	2.41	0.53
1:NG:65:THR:HG22	1:NG:67:SER:H	1.73	0.53
1:NH:99:SER:OG	1:NH:124:GLU:O	2.20	0.53
1:NJ:65:THR:HG22	1:NJ:67:SER:H	1.73	0.53
1:NK:94:LEU:HD12	1:NL:109:GLN:HE21	1.72	0.53
1:NM:65:THR:HG22	1:NM:67:SER:H	1.73	0.53
1:AC:21:LEU:HB3	1:AC:22:PRO:HD2	1.88	0.53
1:AF:65:THR:HG22	1:AF:67:SER:H	1.73	0.53
1:BQ:16:SER:HA	1:BQ:35:VAL:HG12	1.90	0.53
1:BQ:39:PRO:HB2	1:BQ:47:GLY:HA3	1.90	0.53
1:BV:28:LEU:HD21	1:BV:60:LEU:HG	1.89	0.53
1:CC:16:SER:HA	1:CC:35:VAL:HG12	1.90	0.53
1:DD:16:SER:HA	1:DD:35:VAL:HG12	1.90	0.53
1:DM:39:PRO:HB2	1:DM:47:GLY:HA3	1.90	0.53
1:EJ:65:THR:HG22	1:EJ:67:SER:H	1.73	0.53
1:EK:39:PRO:HB2	1:EK:47:GLY:HA3	1.90	0.53
1:EM:28:LEU:HD21	1:EM:60:LEU:HG	1.89	0.53
1:FB:65:THR:HG22	1:FB:67:SER:H	1.73	0.53
1:FF:16:SER:HA	1:FF:35:VAL:HG12	1.90	0.53
1:FQ:28:LEU:HD21	1:FQ:60:LEU:HG	1.88	0.53
1:FW:65:THR:HG22	1:FW:67:SER:H	1.73	0.53
1:FX:16:SER:HA	1:FX:35:VAL:HG12	1.90	0.53
1:GY:44:GLY:O	1:GZ:69:ARG:NH2	2.41	0.53
1:HN:39:PRO:HB2	1:HN:47:GLY:HA3	1.90	0.53
1:IC:16:SER:HA	1:IC:35:VAL:HG12	1.90	0.53
1:IL:39:PRO:HB2	1:IL:47:GLY:HA3	1.90	0.53
1:IL:49:VAL:HG11	1:IM:112:ALA:O	2.07	0.53
1:IL:94:LEU:HD12	1:IM:109:GLN:HE21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IO:44:GLY:O	1:IP:69:ARG:NH2	2.41	0.53
1:IO:94:LEU:HD12	1:IP:109:GLN:HE21	1.72	0.53
1:IQ:21:LEU:HB3	1:IQ:22:PRO:HD2	1.88	0.53
1:JC:65:THR:HG22	1:JC:67:SER:H	1.73	0.53
1:JD:49:VAL:HG11	1:JE:112:ALA:O	2.07	0.53
1:JF:28:LEU:HD21	1:JF:60:LEU:HG	1.89	0.53
1:JJ:16:SER:HA	1:JJ:35:VAL:HG12	1.90	0.53
1:KB:16:SER:HA	1:KB:35:VAL:HG12	1.90	0.53
1:KK:39:PRO:HB2	1:KK:47:GLY:HA3	1.89	0.53
1:KN:39:PRO:HB2	1:KN:47:GLY:HA3	1.90	0.53
1:LB:65:THR:HG22	1:LB:67:SER:H	1.73	0.53
1:MM:16:SER:HA	1:MM:35:VAL:HG12	1.90	0.53
1:NN:49:VAL:HG11	1:NO:112:ALA:O	2.07	0.53
1:NV:65:THR:HG22	1:NV:67:SER:H	1.73	0.53
1:AN:10:ARG:NH2	1:BZ:15:ASP:OD1	2.41	0.53
1:BK:16:SER:HA	1:BK:35:VAL:HG12	1.90	0.53
1:BK:94:LEU:HD12	1:BL:109:GLN:HE21	1.72	0.53
1:CE:65:THR:HG22	1:CE:67:SER:H	1.73	0.53
1:CL:94:LEU:HD12	1:CM:109:GLN:HE21	1.72	0.53
1:DF:65:THR:HG22	1:DF:67:SER:H	1.73	0.53
1:DJ:49:VAL:HG11	1:DK:112:ALA:O	2.07	0.53
1:DJ:94:LEU:HD12	1:DK:109:GLN:HE21	1.72	0.53
1:DJ:94:LEU:HD22	1:DK:101:LEU:HD22	1.89	0.53
1:DM:44:GLY:O	1:DN:69:ARG:NH2	2.41	0.53
1:DX:28:LEU:HD21	1:DX:60:LEU:HG	1.89	0.53
1:EN:16:SER:HA	1:EN:35:VAL:HG12	1.90	0.53
1:ET:94:LEU:HD22	1:EU:101:LEU:HD22	1.89	0.53
1:FC:44:GLY:O	1:FD:69:ARG:NH2	2.41	0.53
1:GY:16:SER:HA	1:GY:35:VAL:HG12	1.90	0.53
1:HA:65:THR:HG22	1:HA:67:SER:H	1.73	0.53
1:HF:113:TYR:O	1:NC:26:VAL:HG21	2.09	0.53
1:HY:65:THR:HG22	1:HY:67:SER:H	1.73	0.53
1:IL:16:SER:HA	1:IL:35:VAL:HG12	1.90	0.53
1:IU:16:SER:HA	1:IU:35:VAL:HG12	1.90	0.53
1:IU:44:GLY:O	1:IV:69:ARG:NH2	2.41	0.53
1:IX:44:GLY:O	1:IY:69:ARG:NH2	2.41	0.53
1:JD:94:LEU:HD12	1:JE:109:GLN:HE21	1.72	0.53
1:JV:16:SER:HA	1:JV:35:VAL:HG12	1.90	0.53
1:KH:94:LEU:HD12	1:KI:109:GLN:HE21	1.72	0.53
1:MD:16:SER:HA	1:MD:35:VAL:HG12	1.90	0.53
1:MR:65:THR:HG22	1:MR:67:SER:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MS:16:SER:HA	1:MS:35:VAL:HG12	1.90	0.53
1:MU:65:THR:HG22	1:MU:67:SER:H	1.73	0.53
1:MV:39:PRO:HB2	1:MV:47:GLY:HA3	1.90	0.53
1:NT:16:SER:HA	1:NT:35:VAL:HG12	1.90	0.53
1:AJ:16:SER:HA	1:AJ:35:VAL:HG12	1.90	0.53
1:BB:39:PRO:HB2	1:BB:47:GLY:HA3	1.90	0.53
1:BU:10:ARG:NH1	1:DM:38:LEU:HB2	2.24	0.53
1:CF:94:LEU:HD22	1:CG:101:LEU:HD22	1.89	0.53
1:CK:28:LEU:HD21	1:CK:60:LEU:HG	1.89	0.53
1:CX:44:GLY:O	1:CY:69:ARG:NH2	2.41	0.53
1:DL:57:LYS:NZ	1:GX:92:GLU:OE2	2.37	0.53
1:DP:16:SER:HA	1:DP:35:VAL:HG12	1.90	0.53
1:EK:44:GLY:O	1:EL:69:ARG:NH2	2.41	0.53
1:EW:44:GLY:O	1:EX:69:ARG:NH2	2.41	0.53
1:FU:94:LEU:HD12	1:FV:109:GLN:HE21	1.72	0.53
1:GM:39:PRO:HB2	1:GM:47:GLY:HA3	1.89	0.53
1:HH:94:LEU:HD12	1:HI:109:GLN:HE21	1.72	0.53
1:HT:16:SER:HA	1:HT:35:VAL:HG12	1.90	0.53
1:HT:49:VAL:HG11	1:HU:112:ALA:O	2.07	0.53
1:IT:28:LEU:HD21	1:IT:60:LEU:HG	1.88	0.53
1:KN:94:LEU:HD12	1:KO:109:GLN:HE21	1.72	0.53
1:LC:39:PRO:HB2	1:LC:47:GLY:HA3	1.90	0.53
1:LC:44:GLY:O	1:LD:69:ARG:NH2	2.41	0.53
1:LE:65:THR:HG22	1:LE:67:SER:H	1.73	0.53
1:LU:94:LEU:HD12	1:LV:109:GLN:HE21	1.72	0.53
1:MY:44:GLY:O	1:MZ:69:ARG:NH2	2.41	0.53
1:NB:16:SER:HA	1:NB:35:VAL:HG12	1.90	0.53
1:NQ:44:GLY:O	1:NR:69:ARG:NH2	2.41	0.53
1:AC:65:THR:HG22	1:AC:67:SER:H	1.73	0.53
1:AH:10:ARG:NH1	1:BE:38:LEU:HB2	2.23	0.53
1:AO:65:THR:HG22	1:AO:67:SER:H	1.73	0.53
1:AS:49:VAL:HG11	1:AT:112:ALA:O	2.07	0.53
1:AY:16:SER:HA	1:AY:35:VAL:HG12	1.90	0.53
1:CH:65:THR:HG22	1:CH:67:SER:H	1.73	0.53
1:CQ:65:THR:HG22	1:CQ:67:SER:H	1.73	0.53
1:FC:39:PRO:HB2	1:FC:47:GLY:HA3	1.90	0.53
1:GU:65:THR:HG22	1:GU:67:SER:H	1.73	0.53
1:HA:74:VAL:CG2	1:KM:80:SER:HB2	2.36	0.53
1:HK:44:GLY:O	1:HL:69:ARG:NH2	2.41	0.53
1:HS:92:GLU:CD	1:LE:57:LYS:HZ3	2.12	0.53
1:HZ:44:GLY:O	1:IA:69:ARG:NH2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IN:65:THR:HG22	1:IN:67:SER:H	1.73	0.53
1:IX:39:PRO:HB2	1:IX:47:GLY:HA3	1.90	0.53
1:JA:39:PRO:HB2	1:JA:47:GLY:HA3	1.90	0.53
1:JX:65:THR:HG22	1:JX:67:SER:H	1.73	0.53
1:KG:65:THR:HG22	1:KG:67:SER:H	1.73	0.53
1:KK:16:SER:HA	1:KK:35:VAL:HG12	1.90	0.53
1:KK:49:VAL:HG11	1:KL:112:ALA:O	2.07	0.53
1:KM:65:THR:HG22	1:KM:67:SER:H	1.73	0.53
1:KT:44:GLY:O	1:KU:69:ARG:NH2	2.41	0.53
1:MC:26:VAL:CG2	1:MD:114:SER:HA	2.39	0.53
1:NE:39:PRO:HB2	1:NE:47:GLY:HA3	1.90	0.53
1:AV:44:GLY:O	1:AW:69:ARG:NH2	2.41	0.53
1:BH:16:SER:HA	1:BH:35:VAL:HG12	1.90	0.53
1:BK:39:PRO:HB2	1:BK:47:GLY:HA3	1.90	0.53
1:CC:38:LEU:HB2	1:CS:10:ARG:HH11	1.73	0.53
1:CE:8:LYS:HB2	1:FQ:119:ASP:O	2.09	0.53
1:DA:16:SER:HA	1:DA:35:VAL:HG12	1.90	0.53
1:DR:65:THR:HG22	1:DR:67:SER:H	1.73	0.53
1:EN:39:PRO:HB2	1:EN:47:GLY:HA3	1.90	0.53
1:EP:65:THR:HG22	1:EP:67:SER:H	1.73	0.53
1:EW:39:PRO:HB2	1:EW:47:GLY:HA3	1.89	0.53
1:FH:65:THR:HG22	1:FH:67:SER:H	1.73	0.53
1:GJ:94:LEU:HD12	1:GK:109:GLN:HE21	1.72	0.53
1:HJ:129:THR:O	1:KV:106:LYS:NZ	2.40	0.53
1:HS:65:THR:HG22	1:HS:67:SER:H	1.73	0.53
1:IW:57:LYS:HZ3	1:MI:92:GLU:CD	2.12	0.53
1:JP:16:SER:HA	1:JP:35:VAL:HG12	1.90	0.53
1:JY:44:GLY:O	1:JZ:69:ARG:NH2	2.41	0.53
1:LK:65:THR:HG22	1:LK:67:SER:H	1.73	0.53
1:LU:39:PRO:HB2	1:LU:47:GLY:HA3	1.89	0.53
1:ML:65:THR:HG22	1:ML:67:SER:H	1.73	0.53
1:NH:16:SER:HA	1:NH:35:VAL:HG12	1.90	0.53
1:AY:94:LEU:HD12	1:AZ:109:GLN:HE21	1.72	0.53
1:BM:65:THR:HG22	1:BM:67:SER:H	1.73	0.53
1:CR:38:LEU:HD22	1:DE:10:ARG:HH11	1.73	0.53
1:DC:65:THR:HG22	1:DC:67:SER:H	1.73	0.53
1:DO:65:THR:HG22	1:DO:67:SER:H	1.73	0.53
1:FR:94:LEU:HD12	1:FS:109:GLN:HE21	1.72	0.53
1:GC:65:THR:HG22	1:GC:67:SER:H	1.73	0.53
1:GD:16:SER:HA	1:GD:35:VAL:HG12	1.90	0.53
1:GR:65:THR:HG22	1:GR:67:SER:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HJ:90:ARG:NH2	1:KV:113:TYR:CD1	2.77	0.53
1:HR:66:ALA:HB1	1:LJ:66:ALA:HB3	1.90	0.53
1:IJ:10:ARG:NH1	1:KT:38:LEU:HB2	2.24	0.53
1:IU:94:LEU:HD12	1:IV:109:GLN:HE21	1.72	0.53
1:JC:26:VAL:HG21	1:JP:113:TYR:O	2.09	0.53
1:KB:65:THR:HG22	1:KB:67:SER:H	1.74	0.53
1:KH:16:SER:HA	1:KH:35:VAL:HG12	1.90	0.53
1:KK:65:THR:HG22	1:KK:67:SER:H	1.74	0.53
1:KP:65:THR:HG22	1:KP:67:SER:H	1.73	0.53
1:KZ:16:SER:HA	1:KZ:35:VAL:HG12	1.90	0.53
1:LW:65:THR:HG22	1:LW:67:SER:H	1.73	0.53
1:MA:16:SER:HA	1:MA:35:VAL:HG12	1.90	0.53
1:MD:39:PRO:HB2	1:MD:47:GLY:HA3	1.89	0.53
1:AA:39:PRO:HB2	1:AA:47:GLY:HA3	1.90	0.53
1:CC:39:PRO:HB2	1:CC:47:GLY:HA3	1.90	0.53
1:CD:10:ARG:HH11	1:GJ:38:LEU:HD22	1.73	0.53
1:CF:16:SER:HA	1:CF:35:VAL:HG12	1.90	0.53
1:CU:16:SER:HA	1:CU:35:VAL:HG12	1.90	0.53
1:DF:57:LYS:HZ3	1:GR:92:GLU:CD	2.12	0.53
1:DJ:65:THR:HG22	1:DJ:67:SER:H	1.74	0.53
1:DV:16:SER:HA	1:DV:35:VAL:HG12	1.90	0.53
1:EN:65:THR:HG22	1:EN:67:SER:H	1.74	0.53
1:GM:16:SER:HA	1:GM:35:VAL:HG12	1.90	0.53
1:HB:94:LEU:HD22	1:HC:101:LEU:HD22	1.89	0.53
1:HP:65:THR:HG22	1:HP:67:SER:H	1.73	0.53
1:JD:16:SER:HA	1:JD:35:VAL:HG12	1.90	0.53
1:JD:65:THR:HG22	1:JD:67:SER:H	1.74	0.53
1:JO:65:THR:HG22	1:JO:67:SER:H	1.73	0.53
1:KD:65:THR:HG22	1:KD:67:SER:H	1.73	0.53
1:KZ:65:THR:HG22	1:KZ:67:SER:H	1.74	0.53
1:LA:10:ARG:NH2	1:MY:15:ASP:OD1	2.42	0.53
1:LO:65:THR:HG22	1:LO:67:SER:H	1.74	0.53
1:ND:65:THR:HG22	1:ND:67:SER:H	1.73	0.53
1:NH:65:THR:HG22	1:NH:67:SER:H	1.74	0.53
1:NN:39:PRO:HB2	1:NN:47:GLY:HA3	1.89	0.53
1:NQ:16:SER:HA	1:NQ:35:VAL:HG12	1.90	0.53
1:AD:16:SER:HA	1:AD:35:VAL:HG12	1.90	0.52
1:AL:101:LEU:O	1:AL:105:VAL:HG23	2.10	0.52
1:AQ:38:LEU:HD22	1:BV:10:ARG:HE	1.73	0.52
1:AS:94:LEU:HD12	1:AT:109:GLN:HE21	1.72	0.52
1:AX:65:THR:HG22	1:AX:67:SER:H	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:65:THR:HG22	1:BE:67:SER:H	1.74	0.52
1:BV:57:LYS:HZ1	1:FH:92:GLU:CD	2.12	0.52
1:BZ:16:SER:HA	1:BZ:35:VAL:HG12	1.90	0.52
1:CZ:65:THR:HG22	1:CZ:67:SER:H	1.73	0.52
1:DG:94:LEU:HD12	1:DH:109:GLN:HE21	1.72	0.52
1:EZ:65:THR:HG22	1:EZ:67:SER:H	1.74	0.52
1:FC:65:THR:HG22	1:FC:67:SER:H	1.74	0.52
1:FO:16:SER:HA	1:FO:35:VAL:HG12	1.90	0.52
1:GG:16:SER:HA	1:GG:35:VAL:HG12	1.90	0.52
1:GL:65:THR:HG22	1:GL:67:SER:H	1.73	0.52
1:HM:101:LEU:O	1:HM:105:VAL:HG23	2.10	0.52
1:HY:101:LEU:O	1:HY:105:VAL:HG23	2.10	0.52
1:HY:112:ALA:O	1:LK:49:VAL:HG11	2.09	0.52
1:II:16:SER:HA	1:II:35:VAL:HG12	1.90	0.52
1:IO:65:THR:HG22	1:IO:67:SER:H	1.74	0.52
1:JA:65:THR:HG22	1:JA:67:SER:H	1.74	0.52
1:JY:65:THR:HG22	1:JY:67:SER:H	1.74	0.52
1:KP:101:LEU:O	1:KP:105:VAL:HG23	2.10	0.52
1:KS:65:THR:HG22	1:KS:67:SER:H	1.73	0.52
1:KW:65:THR:HG22	1:KW:67:SER:H	1.74	0.52
1:LL:65:THR:HG22	1:LL:67:SER:H	1.75	0.52
1:LO:16:SER:HA	1:LO:35:VAL:HG12	1.90	0.52
1:LU:16:SER:HA	1:LU:35:VAL:HG12	1.90	0.52
1:MG:39:PRO:HB2	1:MG:47:GLY:HA3	1.90	0.52
1:NN:16:SER:HA	1:NN:35:VAL:HG12	1.90	0.52
1:AG:65:THR:HG22	1:AG:67:SER:H	1.75	0.52
1:AM:38:LEU:HB2	1:FS:10:ARG:NH1	2.25	0.52
1:AQ:10:ARG:HH11	1:BT:38:LEU:CB	2.21	0.52
1:BB:16:SER:HA	1:BB:35:VAL:HG12	1.90	0.52
1:BG:101:LEU:O	1:BG:105:VAL:HG23	2.10	0.52
1:BM:101:LEU:O	1:BM:105:VAL:HG23	2.10	0.52
1:BP:89:ASP:OD2	1:FB:59:ILE:HD12	2.08	0.52
1:CL:65:THR:HG22	1:CL:67:SER:H	1.74	0.52
1:CR:65:THR:HG22	1:CR:67:SER:H	1.74	0.52
1:CU:65:THR:HG22	1:CU:67:SER:H	1.74	0.52
1:CY:66:ALA:HB1	1:DK:66:ALA:HB3	1.91	0.52
1:CZ:101:LEU:O	1:CZ:105:VAL:HG23	2.10	0.52
1:DL:65:THR:HG22	1:DL:67:SER:H	1.73	0.52
1:DM:16:SER:HA	1:DM:35:VAL:HG12	1.90	0.52
1:DY:65:THR:HG22	1:DY:67:SER:H	1.75	0.52
1:EW:65:THR:HG22	1:EW:67:SER:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FW:101:LEU:O	1:FW:105:VAL:HG23	2.10	0.52
1:GD:65:THR:HG22	1:GD:67:SER:H	1.74	0.52
1:GJ:65:THR:HG22	1:GJ:67:SER:H	1.75	0.52
1:GX:101:LEU:O	1:GX:105:VAL:HG23	2.10	0.52
1:HN:65:THR:HG22	1:HN:67:SER:H	1.74	0.52
1:HQ:16:SER:HA	1:HQ:35:VAL:HG12	1.90	0.52
1:HQ:65:THR:HG22	1:HQ:67:SER:H	1.74	0.52
1:HT:65:THR:HG22	1:HT:67:SER:H	1.74	0.52
1:HW:99:SER:OG	1:HW:124:GLU:O	2.20	0.52
1:HY:8:LYS:HB2	1:LK:119:ASP:O	2.09	0.52
1:IT:101:LEU:O	1:IT:105:VAL:HG23	2.10	0.52
1:IW:101:LEU:O	1:IW:105:VAL:HG23	2.10	0.52
1:JU:118:GLN:HB2	1:JU:121:TYR:CZ	2.45	0.52
1:KA:65:THR:HG22	1:KA:67:SER:H	1.73	0.52
1:KE:16:SER:HA	1:KE:35:VAL:HG12	1.90	0.52
1:MA:39:PRO:HB2	1:MA:47:GLY:HA3	1.89	0.52
1:MG:65:THR:HG22	1:MG:67:SER:H	1.75	0.52
1:MI:101:LEU:O	1:MI:105:VAL:HG23	2.10	0.52
1:MJ:65:THR:HG22	1:MJ:67:SER:H	1.74	0.52
1:MO:101:LEU:O	1:MO:105:VAL:HG23	2.10	0.52
1:MS:65:THR:HG22	1:MS:67:SER:H	1.74	0.52
1:MU:101:LEU:O	1:MU:105:VAL:HG23	2.10	0.52
1:MV:16:SER:HA	1:MV:35:VAL:HG12	1.90	0.52
1:NE:94:LEU:HD12	1:NF:109:GLN:HE21	1.72	0.52
1:NV:101:LEU:O	1:NV:105:VAL:HG23	2.10	0.52
1:AA:65:THR:HG22	1:AA:67:SER:H	1.74	0.52
1:AS:65:THR:HG22	1:AS:67:SER:H	1.74	0.52
1:AX:101:LEU:O	1:AX:105:VAL:HG23	2.10	0.52
1:BJ:101:LEU:O	1:BJ:105:VAL:HG23	2.10	0.52
1:BS:101:LEU:O	1:BS:105:VAL:HG23	2.10	0.52
1:CO:65:THR:HG22	1:CO:67:SER:H	1.75	0.52
1:CW:65:THR:HG22	1:CW:67:SER:H	1.73	0.52
1:DC:118:GLN:HB2	1:DC:121:TYR:CZ	2.45	0.52
1:DM:65:THR:HG22	1:DM:67:SER:H	1.74	0.52
1:DO:101:LEU:O	1:DO:105:VAL:HG23	2.10	0.52
1:DR:118:GLN:HB2	1:DR:121:TYR:CZ	2.45	0.52
1:DY:16:SER:HA	1:DY:35:VAL:HG12	1.90	0.52
1:EJ:101:LEU:O	1:EJ:105:VAL:HG23	2.10	0.52
1:ET:16:SER:HA	1:ET:35:VAL:HG12	1.90	0.52
1:EV:65:THR:HG22	1:EV:67:SER:H	1.73	0.52
1:GL:101:LEU:O	1:GL:105:VAL:HG23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GR:101:LEU:O	1:GR:105:VAL:HG23	2.10	0.52
1:HD:94:LEU:HD22	1:KP:101:LEU:HD22	1.91	0.52
1:HY:118:GLN:HB2	1:HY:121:TYR:CZ	2.45	0.52
1:IE:101:LEU:O	1:IE:105:VAL:HG23	2.10	0.52
1:JC:101:LEU:O	1:JC:105:VAL:HG23	2.10	0.52
1:JJ:65:THR:HG22	1:JJ:67:SER:H	1.74	0.52
1:JR:112:ALA:O	1:ND:49:VAL:HG11	2.10	0.52
1:JU:101:LEU:O	1:JU:105:VAL:HG23	2.10	0.52
1:KD:118:GLN:HB2	1:KD:121:TYR:CZ	2.45	0.52
1:KJ:101:LEU:O	1:KJ:105:VAL:HG23	2.10	0.52
1:KM:101:LEU:O	1:KM:105:VAL:HG23	2.10	0.52
1:KN:16:SER:HA	1:KN:35:VAL:HG12	1.90	0.52
1:KN:65:THR:HG22	1:KN:67:SER:H	1.74	0.52
1:KY:118:GLN:HB2	1:KY:121:TYR:CZ	2.45	0.52
1:LH:101:LEU:O	1:LH:105:VAL:HG23	2.10	0.52
1:LI:65:THR:HG22	1:LI:67:SER:H	1.75	0.52
1:LK:101:LEU:O	1:LK:105:VAL:HG23	2.10	0.52
1:LK:118:GLN:HB2	1:LK:121:TYR:CZ	2.45	0.52
1:MD:65:THR:HG22	1:MD:67:SER:H	1.74	0.52
1:MR:26:VAL:HG21	1:NN:114:SER:HA	1.89	0.52
1:NB:65:THR:HG22	1:NB:67:SER:H	1.74	0.52
1:NE:65:THR:HG22	1:NE:67:SER:H	1.74	0.52
1:NG:118:GLN:HB2	1:NG:121:TYR:CZ	2.45	0.52
1:NH:39:PRO:HB2	1:NH:47:GLY:HA3	1.90	0.52
1:NK:65:THR:HG22	1:NK:67:SER:H	1.74	0.52
1:AF:101:LEU:O	1:AF:105:VAL:HG23	2.10	0.52
1:BB:65:THR:HG22	1:BB:67:SER:H	1.75	0.52
1:BP:101:LEU:O	1:BP:105:VAL:HG23	2.10	0.52
1:CB:118:GLN:HB2	1:CB:121:TYR:CZ	2.45	0.52
1:CH:113:TYR:CG	1:FT:90:ARG:NH2	2.77	0.52
1:CK:101:LEU:O	1:CK:105:VAL:HG23	2.10	0.52
1:DA:65:THR:HG22	1:DA:67:SER:H	1.74	0.52
1:DC:101:LEU:O	1:DC:105:VAL:HG23	2.10	0.52
1:DL:118:GLN:HB2	1:DL:121:TYR:CZ	2.45	0.52
1:DP:65:THR:HG22	1:DP:67:SER:H	1.74	0.52
1:DS:65:THR:HG22	1:DS:67:SER:H	1.74	0.52
1:FB:118:GLN:HB2	1:FB:121:TYR:CZ	2.45	0.52
1:FT:118:GLN:HB2	1:FT:121:TYR:CZ	2.45	0.52
1:FW:118:GLN:HB2	1:FW:121:TYR:CZ	2.45	0.52
1:GS:65:THR:HG22	1:GS:67:SER:H	1.75	0.52
1:HJ:101:LEU:O	1:HJ:105:VAL:HG23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HQ:39:PRO:HB2	1:HQ:47:GLY:HA3	1.90	0.52
1:IK:49:VAL:HG11	1:LW:112:ALA:O	2.09	0.52
1:IK:101:LEU:O	1:IK:105:VAL:HG23	2.10	0.52
1:IM:10:ARG:NH1	1:KW:38:LEU:HB2	2.25	0.52
1:IQ:118:GLN:HB2	1:IQ:121:TYR:CZ	2.45	0.52
1:IZ:101:LEU:O	1:IZ:105:VAL:HG23	2.10	0.52
1:JC:101:LEU:HD22	1:MO:94:LEU:HD22	1.92	0.52
1:JI:101:LEU:O	1:JI:105:VAL:HG23	2.10	0.52
1:JV:65:THR:HG22	1:JV:67:SER:H	1.74	0.52
1:KA:118:GLN:HB2	1:KA:121:TYR:CZ	2.45	0.52
1:KT:94:LEU:HD12	1:KU:109:GLN:HE21	1.72	0.52
1:LU:65:THR:HG22	1:LU:67:SER:H	1.74	0.52
1:MI:118:GLN:HB2	1:MI:121:TYR:CZ	2.45	0.52
1:MU:118:GLN:HB2	1:MU:121:TYR:CZ	2.45	0.52
1:NA:118:GLN:HB2	1:NA:121:TYR:CZ	2.45	0.52
1:NS:65:THR:HG22	1:NS:67:SER:H	1.73	0.52
1:CN:118:GLN:HB2	1:CN:121:TYR:CZ	2.45	0.52
1:CT:101:LEU:O	1:CT:105:VAL:HG23	2.10	0.52
1:DC:10:ARG:HD2	1:GK:15:ASP:OD1	2.09	0.52
1:DX:101:LEU:O	1:DX:105:VAL:HG23	2.10	0.52
1:EB:114:SER:HA	1:GC:26:VAL:HG21	1.91	0.52
1:EK:16:SER:HA	1:EK:35:VAL:HG12	1.90	0.52
1:EK:65:THR:HG22	1:EK:67:SER:H	1.74	0.52
1:FF:65:THR:HG22	1:FF:67:SER:H	1.74	0.52
1:FU:16:SER:HA	1:FU:35:VAL:HG12	1.90	0.52
1:GG:99:SER:OG	1:GG:124:GLU:O	2.20	0.52
1:HK:99:SER:OG	1:HK:124:GLU:O	2.20	0.52
1:HT:39:PRO:HB2	1:HT:47:GLY:HA3	1.89	0.52
1:IB:118:GLN:HB2	1:IB:121:TYR:CZ	2.45	0.52
1:IN:118:GLN:HB2	1:IN:121:TYR:CZ	2.45	0.52
1:JG:65:THR:HG22	1:JG:67:SER:H	1.74	0.52
1:JI:118:GLN:HB2	1:JI:121:TYR:CZ	2.45	0.52
1:KV:118:GLN:HB2	1:KV:121:TYR:CZ	2.45	0.52
1:LF:65:THR:HG22	1:LF:67:SER:H	1.74	0.52
1:LT:101:LEU:O	1:LT:105:VAL:HG23	2.10	0.52
1:LZ:118:GLN:HB2	1:LZ:121:TYR:CZ	2.45	0.52
1:MR:101:LEU:O	1:MR:105:VAL:HG23	2.10	0.52
1:MV:65:THR:HG22	1:MV:67:SER:H	1.74	0.52
1:MX:101:LEU:O	1:MX:105:VAL:HG23	2.10	0.52
1:NT:65:THR:HG22	1:NT:67:SER:H	1.74	0.52
1:AL:119:ASP:O	1:DX:8:LYS:HB2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BQ:65:THR:HG22	1:BQ:67:SER:H	1.75	0.52
1:BS:118:GLN:HB2	1:BS:121:TYR:CZ	2.45	0.52
1:CE:57:LYS:NZ	1:FQ:92:GLU:OE2	2.38	0.52
1:CE:101:LEU:O	1:CE:105:VAL:HG23	2.10	0.52
1:DD:99:SER:OG	1:DD:124:GLU:O	2.20	0.52
1:DU:118:GLN:HB2	1:DU:121:TYR:CZ	2.45	0.52
1:EA:118:GLN:HB2	1:EA:121:TYR:CZ	2.45	0.52
1:ED:101:LEU:O	1:ED:105:VAL:HG23	2.10	0.52
1:ED:118:GLN:HB2	1:ED:121:TYR:CZ	2.45	0.52
1:ES:118:GLN:HB2	1:ES:121:TYR:CZ	2.45	0.52
1:FI:65:THR:HG22	1:FI:67:SER:H	1.74	0.52
1:FO:65:THR:HG22	1:FO:67:SER:H	1.74	0.52
1:FZ:118:GLN:HB2	1:FZ:121:TYR:CZ	2.45	0.52
1:GU:101:LEU:O	1:GU:105:VAL:HG23	2.10	0.52
1:GU:118:GLN:HB2	1:GU:121:TYR:CZ	2.45	0.52
1:GX:118:GLN:HB2	1:GX:121:TYR:CZ	2.45	0.52
1:HC:10:ARG:NH2	1:HZ:15:ASP:OD1	2.43	0.52
1:HG:118:GLN:HB2	1:HG:121:TYR:CZ	2.45	0.52
1:HK:16:SER:HA	1:HK:35:VAL:HG12	1.90	0.52
1:HT:38:LEU:HB2	1:MB:10:ARG:HH11	1.75	0.52
1:IB:101:LEU:O	1:IB:105:VAL:HG23	2.10	0.52
1:IF:65:THR:HG22	1:IF:67:SER:H	1.75	0.52
1:II:65:THR:HG22	1:II:67:SER:H	1.74	0.52
1:IK:118:GLN:HB2	1:IK:121:TYR:CZ	2.45	0.52
1:IR:65:THR:HG22	1:IR:67:SER:H	1.74	0.52
1:IU:65:THR:HG22	1:IU:67:SER:H	1.75	0.52
1:JO:101:LEU:O	1:JO:105:VAL:HG23	2.10	0.52
1:KQ:65:THR:HG22	1:KQ:67:SER:H	1.75	0.52
1:LB:101:LEU:O	1:LB:105:VAL:HG23	2.10	0.52
1:LB:118:GLN:HB2	1:LB:121:TYR:CZ	2.45	0.52
1:LL:16:SER:HA	1:LL:35:VAL:HG12	1.90	0.52
1:LQ:118:GLN:HB2	1:LQ:121:TYR:CZ	2.45	0.52
1:MC:101:LEU:O	1:MC:105:VAL:HG23	2.10	0.52
1:MG:16:SER:HA	1:MG:35:VAL:HG12	1.90	0.52
1:MM:65:THR:HG22	1:MM:67:SER:H	1.74	0.52
1:MP:65:THR:HG22	1:MP:67:SER:H	1.74	0.52
1:NV:118:GLN:HB2	1:NV:121:TYR:CZ	2.45	0.52
1:AC:101:LEU:O	1:AC:105:VAL:HG23	2.10	0.52
1:AR:65:THR:HG22	1:AR:67:SER:H	1.73	0.52
1:AR:101:LEU:O	1:AR:105:VAL:HG23	2.10	0.52
1:AS:15:ASP:OD1	1:FA:10:ARG:NH2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:118:GLN:HB2	1:BD:121:TYR:CZ	2.45	0.52
1:BT:65:THR:HG22	1:BT:67:SER:H	1.74	0.52
1:DI:101:LEU:O	1:DI:105:VAL:HG23	2.10	0.52
1:DL:101:LEU:O	1:DL:105:VAL:HG23	2.10	0.52
1:DQ:38:LEU:HD22	1:GX:10:ARG:HH21	1.74	0.52
1:DR:101:LEU:O	1:DR:105:VAL:HG23	2.10	0.52
1:DU:101:LEU:O	1:DU:105:VAL:HG23	2.10	0.52
1:DZ:10:ARG:NH2	1:FX:15:ASP:OD1	2.43	0.52
1:EE:16:SER:HA	1:EE:35:VAL:HG12	1.90	0.52
1:ET:99:SER:OG	1:ET:124:GLU:O	2.20	0.52
1:EY:118:GLN:HB2	1:EY:121:TYR:CZ	2.45	0.52
1:FH:101:LEU:O	1:FH:105:VAL:HG23	2.10	0.52
1:GO:118:GLN:HB2	1:GO:121:TYR:CZ	2.45	0.52
1:GR:118:GLN:HB2	1:GR:121:TYR:CZ	2.45	0.52
1:HP:118:GLN:HB2	1:HP:121:TYR:CZ	2.45	0.52
1:HV:80:SER:HB2	1:LH:74:VAL:HG22	1.92	0.52
1:IT:90:ARG:NH2	1:MF:113:TYR:CG	2.78	0.52
1:JM:38:LEU:HB2	1:KI:10:ARG:NH1	2.25	0.52
1:JO:10:ARG:HH21	1:KI:38:LEU:HD22	1.75	0.52
1:JR:101:LEU:O	1:JR:105:VAL:HG23	2.10	0.52
1:JX:118:GLN:HB2	1:JX:121:TYR:CZ	2.45	0.52
1:KG:118:GLN:HB2	1:KG:121:TYR:CZ	2.45	0.52
1:KY:101:LEU:O	1:KY:105:VAL:HG23	2.10	0.52
1:LE:118:GLN:HB2	1:LE:121:TYR:CZ	2.45	0.52
1:LR:16:SER:HA	1:LR:35:VAL:HG12	1.90	0.52
1:LW:101:LEU:O	1:LW:105:VAL:HG23	2.10	0.52
1:LW:118:GLN:HB2	1:LW:121:TYR:CZ	2.45	0.52
1:ND:101:LEU:O	1:ND:105:VAL:HG23	2.10	0.52
1:NG:101:LEU:O	1:NG:105:VAL:HG23	2.10	0.52
1:NM:118:GLN:HB2	1:NM:121:TYR:CZ	2.45	0.52
1:NN:65:THR:HG22	1:NN:67:SER:H	1.75	0.52
1:NS:118:GLN:HB2	1:NS:121:TYR:CZ	2.45	0.52
1:AD:65:THR:HG22	1:AD:67:SER:H	1.74	0.52
1:BH:65:THR:HG22	1:BH:67:SER:H	1.74	0.52
1:BV:101:LEU:O	1:BV:105:VAL:HG23	2.10	0.52
1:CB:101:LEU:O	1:CB:105:VAL:HG23	2.10	0.52
1:CN:101:LEU:O	1:CN:105:VAL:HG23	2.10	0.52
1:CW:101:LEU:O	1:CW:105:VAL:HG23	2.10	0.52
1:CW:118:GLN:HB2	1:CW:121:TYR:CZ	2.45	0.52
1:CZ:118:GLN:HB2	1:CZ:121:TYR:CZ	2.45	0.52
1:DF:118:GLN:HB2	1:DF:121:TYR:CZ	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ES:101:LEU:O	1:ES:105:VAL:HG23	2.10	0.52
1:FL:65:THR:HG22	1:FL:67:SER:H	1.75	0.52
1:FZ:101:LEU:O	1:FZ:105:VAL:HG23	2.10	0.52
1:GC:118:GLN:HB2	1:GC:121:TYR:CZ	2.45	0.52
1:GF:101:LEU:O	1:GF:105:VAL:HG23	2.10	0.52
1:HA:10:ARG:HH21	1:MW:38:LEU:HD22	1.73	0.52
1:HB:65:THR:HG22	1:HB:67:SER:H	1.74	0.52
1:HP:104:GLU:OE1	1:LB:53:ARG:NH1	2.25	0.52
1:HX:10:ARG:NH2	1:LF:15:ASP:OD1	2.43	0.52
1:IZ:118:GLN:HB2	1:IZ:121:TYR:CZ	2.45	0.52
1:JF:101:LEU:O	1:JF:105:VAL:HG23	2.10	0.52
1:JI:8:LYS:HB2	1:MU:119:ASP:O	2.09	0.52
1:JL:101:LEU:O	1:JL:105:VAL:HG23	2.10	0.52
1:JO:118:GLN:HB2	1:JO:121:TYR:CZ	2.45	0.52
1:KR:10:ARG:NH2	1:NN:15:ASP:OD1	2.42	0.52
1:LH:118:GLN:HB2	1:LH:121:TYR:CZ	2.45	0.52
1:LQ:101:LEU:O	1:LQ:105:VAL:HG23	2.10	0.52
1:MO:65:THR:HG22	1:MO:67:SER:H	1.73	0.52
1:AO:101:LEU:O	1:AO:105:VAL:HG23	2.10	0.52
1:AY:65:THR:HG22	1:AY:67:SER:H	1.74	0.52
1:BD:101:LEU:O	1:BD:105:VAL:HG23	2.10	0.52
1:BV:118:GLN:HB2	1:BV:121:TYR:CZ	2.45	0.52
1:CO:99:SER:OG	1:CO:124:GLU:O	2.20	0.52
1:CT:57:LYS:HZ3	1:GF:92:GLU:CD	2.11	0.52
1:EV:101:LEU:O	1:EV:105:VAL:HG23	2.10	0.52
1:FB:101:LEU:O	1:FB:105:VAL:HG23	2.10	0.52
1:FE:101:LEU:O	1:FE:105:VAL:HG23	2.10	0.52
1:FN:101:LEU:O	1:FN:105:VAL:HG23	2.10	0.52
1:FR:99:SER:OG	1:FR:124:GLU:O	2.20	0.52
1:GI:118:GLN:HB2	1:GI:121:TYR:CZ	2.45	0.52
1:GL:118:GLN:HB2	1:GL:121:TYR:CZ	2.45	0.52
1:GO:101:LEU:O	1:GO:105:VAL:HG23	2.10	0.52
1:HD:118:GLN:HB2	1:HD:121:TYR:CZ	2.45	0.52
1:HE:65:THR:HG22	1:HE:67:SER:H	1.75	0.52
1:HO:39:PRO:HB2	1:HO:47:GLY:HA3	1.92	0.52
1:HS:118:GLN:HB2	1:HS:121:TYR:CZ	2.45	0.52
1:IP:10:ARG:NH1	1:KZ:38:LEU:HB2	2.25	0.52
1:JF:118:GLN:HB2	1:JF:121:TYR:CZ	2.45	0.52
1:JL:118:GLN:HB2	1:JL:121:TYR:CZ	2.45	0.52
1:KR:39:PRO:HB2	1:KR:47:GLY:HA3	1.92	0.52
1:LE:101:LEU:O	1:LE:105:VAL:HG23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MF:118:GLN:HB2	1:MF:121:TYR:CZ	2.45	0.52
1:ML:118:GLN:HB2	1:ML:121:TYR:CZ	2.45	0.52
1:NT:99:SER:OG	1:NT:124:GLU:O	2.20	0.52
1:BA:118:GLN:HB2	1:BA:121:TYR:CZ	2.45	0.52
1:BL:39:PRO:HB2	1:BL:47:GLY:HA3	1.93	0.52
1:BM:118:GLN:HB2	1:BM:121:TYR:CZ	2.45	0.52
1:BW:65:THR:HG22	1:BW:67:SER:H	1.74	0.52
1:BY:101:LEU:O	1:BY:105:VAL:HG23	2.10	0.52
1:CC:38:LEU:HB2	1:CS:10:ARG:NH1	2.24	0.52
1:CE:118:GLN:HB2	1:CE:121:TYR:CZ	2.45	0.52
1:CH:101:LEU:O	1:CH:105:VAL:HG23	2.10	0.52
1:CI:21:LEU:HB3	1:CI:22:PRO:HD2	1.92	0.52
1:CI:65:THR:HG22	1:CI:67:SER:H	1.75	0.52
1:DV:65:THR:HG22	1:DV:67:SER:H	1.74	0.52
1:DZ:39:PRO:HB2	1:DZ:47:GLY:HA3	1.92	0.52
1:EK:113:TYR:O	1:ES:26:VAL:HG21	2.09	0.52
1:EP:101:LEU:O	1:EP:105:VAL:HG23	2.10	0.52
1:ET:21:LEU:HB3	1:ET:22:PRO:HD2	1.92	0.52
1:EV:118:GLN:HB2	1:EV:121:TYR:CZ	2.45	0.52
1:FG:39:PRO:HB2	1:FG:47:GLY:HA3	1.92	0.52
1:FK:65:THR:HG22	1:FK:67:SER:H	1.73	0.52
1:FN:118:GLN:HB2	1:FN:121:TYR:CZ	2.45	0.52
1:FR:65:THR:HG22	1:FR:67:SER:H	1.75	0.52
1:HA:101:LEU:O	1:HA:105:VAL:HG23	2.10	0.52
1:HB:21:LEU:HB3	1:HB:22:PRO:HD2	1.92	0.52
1:HD:101:LEU:O	1:HD:105:VAL:HG23	2.10	0.52
1:HM:118:GLN:HB2	1:HM:121:TYR:CZ	2.45	0.52
1:HV:101:LEU:O	1:HV:105:VAL:HG23	2.10	0.52
1:IH:118:GLN:HB2	1:IH:121:TYR:CZ	2.45	0.52
1:IM:10:ARG:HH11	1:KW:38:LEU:HD22	1.73	0.52
1:IN:101:LEU:O	1:IN:105:VAL:HG23	2.10	0.52
1:IW:118:GLN:HB2	1:IW:121:TYR:CZ	2.45	0.52
1:IX:65:THR:HG22	1:IX:67:SER:H	1.74	0.52
1:JM:65:THR:HG22	1:JM:67:SER:H	1.74	0.52
1:JR:118:GLN:HB2	1:JR:121:TYR:CZ	2.45	0.52
1:JZ:39:PRO:HB2	1:JZ:47:GLY:HA3	1.92	0.52
1:KA:113:TYR:CD1	1:NM:90:ARG:NH2	2.78	0.52
1:KJ:4:ILE:HG13	1:NV:125:ASP:HB2	1.92	0.52
1:KJ:118:GLN:HB2	1:KJ:121:TYR:CZ	2.45	0.52
1:KS:118:GLN:HB2	1:KS:121:TYR:CZ	2.45	0.52
1:LL:99:SER:OG	1:LL:124:GLU:O	2.20	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LN:118:GLN:HB2	1:LN:121:TYR:CZ	2.45	0.52
1:LS:38:LEU:HD22	1:MF:10:ARG:HH21	1.76	0.52
1:LX:21:LEU:HB3	1:LX:22:PRO:HD2	1.93	0.52
1:LZ:101:LEU:O	1:LZ:105:VAL:HG23	2.10	0.52
1:MH:39:PRO:HB2	1:MH:47:GLY:HA3	1.92	0.52
1:MQ:39:PRO:HB2	1:MQ:47:GLY:HA3	1.92	0.52
1:NA:101:LEU:O	1:NA:105:VAL:HG23	2.10	0.52
1:NE:21:LEU:HB3	1:NE:22:PRO:HD2	1.92	0.52
1:NF:39:PRO:HB2	1:NF:47:GLY:HA3	1.93	0.52
1:AL:118:GLN:HB2	1:AL:121:TYR:CZ	2.45	0.51
1:BZ:21:LEU:HB3	1:BZ:22:PRO:HD2	1.92	0.51
1:CC:65:THR:HG22	1:CC:67:SER:H	1.74	0.51
1:CK:118:GLN:HB2	1:CK:121:TYR:CZ	2.45	0.51
1:CN:92:GLU:OE2	1:FZ:57:LYS:NZ	2.42	0.51
1:CN:116:TYR:CD1	1:FX:9:LEU:HA	2.45	0.51
1:CU:21:LEU:HB3	1:CU:22:PRO:HD2	1.92	0.51
1:CX:65:THR:HG22	1:CX:67:SER:H	1.75	0.51
1:DI:118:GLN:HB2	1:DI:121:TYR:CZ	2.45	0.51
1:EE:65:THR:HG22	1:EE:67:SER:H	1.75	0.51
1:EG:101:LEU:O	1:EG:105:VAL:HG23	2.10	0.51
1:EN:21:LEU:HB3	1:EN:22:PRO:HD2	1.93	0.51
1:EQ:21:LEU:HB3	1:EQ:22:PRO:HD2	1.92	0.51
1:ET:65:THR:HG22	1:ET:67:SER:H	1.75	0.51
1:FA:39:PRO:HB2	1:FA:47:GLY:HA3	1.92	0.51
1:FC:21:LEU:HB3	1:FC:22:PRO:HD2	1.93	0.51
1:FY:39:PRO:HB2	1:FY:47:GLY:HA3	1.92	0.51
1:GF:118:GLN:HB2	1:GF:121:TYR:CZ	2.45	0.51
1:GM:65:THR:HG22	1:GM:67:SER:H	1.74	0.51
1:HG:10:ARG:HH21	1:NC:38:LEU:HD22	1.75	0.51
1:ID:39:PRO:HB2	1:ID:47:GLY:HA3	1.92	0.51
1:IE:118:GLN:HB2	1:IE:121:TYR:CZ	2.45	0.51
1:II:21:LEU:HB3	1:II:22:PRO:HD2	1.92	0.51
1:IN:112:ALA:O	1:LZ:49:VAL:HG11	2.10	0.51
1:JA:21:LEU:HB3	1:JA:22:PRO:HD2	1.92	0.51
1:JA:99:SER:OG	1:JA:124:GLU:O	2.20	0.51
1:JH:39:PRO:HB2	1:JH:47:GLY:HA3	1.93	0.51
1:JS:65:THR:HG22	1:JS:67:SER:H	1.74	0.51
1:KA:101:LEU:O	1:KA:105:VAL:HG23	2.10	0.51
1:KH:65:THR:HG22	1:KH:67:SER:H	1.74	0.51
1:MW:39:PRO:HB2	1:MW:47:GLY:HA3	1.92	0.51
1:MX:118:GLN:HB2	1:MX:121:TYR:CZ	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NK:21:LEU:HB3	1:NK:22:PRO:HD2	1.93	0.51
1:NP:101:LEU:O	1:NP:105:VAL:HG23	2.10	0.51
1:AC:118:GLN:HB2	1:AC:121:TYR:CZ	2.45	0.51
1:AF:118:GLN:HB2	1:AF:121:TYR:CZ	2.45	0.51
1:AU:118:GLN:HB2	1:AU:121:TYR:CZ	2.45	0.51
1:BB:21:LEU:HB3	1:BB:22:PRO:HD2	1.93	0.51
1:BE:21:LEU:HB3	1:BE:22:PRO:HD2	1.93	0.51
1:BL:10:ARG:NH2	1:DV:15:ASP:OD1	2.44	0.51
1:BP:118:GLN:HB2	1:BP:121:TYR:CZ	2.45	0.51
1:BP:129:THR:O	1:FB:106:LYS:NZ	2.42	0.51
1:BU:39:PRO:HB2	1:BU:47:GLY:HA3	1.92	0.51
1:CJ:39:PRO:HB2	1:CJ:47:GLY:HA3	1.92	0.51
1:CS:39:PRO:HB2	1:CS:47:GLY:HA3	1.92	0.51
1:CY:39:PRO:HB2	1:CY:47:GLY:HA3	1.93	0.51
1:DC:57:LYS:HZ3	1:GO:92:GLU:CD	2.13	0.51
1:DQ:39:PRO:HB2	1:DQ:47:GLY:HA3	1.93	0.51
1:EA:101:LEU:O	1:EA:105:VAL:HG23	2.10	0.51
1:EP:118:GLN:HB2	1:EP:121:TYR:CZ	2.45	0.51
1:FJ:39:PRO:HB2	1:FJ:47:GLY:HA3	1.93	0.51
1:FK:101:LEU:O	1:FK:105:VAL:HG23	2.10	0.51
1:FK:118:GLN:HB2	1:FK:121:TYR:CZ	2.45	0.51
1:GQ:39:PRO:HB2	1:GQ:47:GLY:HA3	1.92	0.51
1:GY:65:THR:HG22	1:GY:67:SER:H	1.74	0.51
1:HD:129:THR:C	1:KP:106:LYS:HZ2	2.13	0.51
1:HK:65:THR:HG22	1:HK:67:SER:H	1.75	0.51
1:HR:39:PRO:HB2	1:HR:47:GLY:HA3	1.92	0.51
1:IL:21:LEU:HB3	1:IL:22:PRO:HD2	1.93	0.51
1:IQ:80:SER:HB2	1:MC:74:VAL:HG22	1.92	0.51
1:IR:99:SER:OG	1:IR:124:GLU:O	2.20	0.51
1:IV:39:PRO:HB2	1:IV:47:GLY:HA3	1.92	0.51
1:JC:118:GLN:HB2	1:JC:121:TYR:CZ	2.45	0.51
1:JI:65:THR:HG22	1:JI:67:SER:H	1.73	0.51
1:JP:21:LEU:HB3	1:JP:22:PRO:HD2	1.93	0.51
1:JQ:39:PRO:HB2	1:JQ:47:GLY:HA3	1.93	0.51
1:JX:57:LYS:HZ3	1:NJ:92:GLU:CD	2.13	0.51
1:KC:39:PRO:HB2	1:KC:47:GLY:HA3	1.92	0.51
1:KG:8:LYS:HB2	1:NS:119:ASP:O	2.10	0.51
1:KG:101:LEU:O	1:KG:105:VAL:HG23	2.10	0.51
1:KM:118:GLN:HB2	1:KM:121:TYR:CZ	2.45	0.51
1:KP:118:GLN:HB2	1:KP:121:TYR:CZ	2.45	0.51
1:KQ:16:SER:HA	1:KQ:35:VAL:HG12	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KU:39:PRO:HB2	1:KU:47:GLY:HA3	1.92	0.51
1:LM:39:PRO:HB2	1:LM:47:GLY:HA3	1.93	0.51
1:MA:65:THR:HG22	1:MA:67:SER:H	1.74	0.51
1:MJ:99:SER:OG	1:MJ:124:GLU:O	2.20	0.51
1:ML:101:LEU:O	1:ML:105:VAL:HG23	2.10	0.51
1:MO:118:GLN:HB2	1:MO:121:TYR:CZ	2.45	0.51
1:MR:118:GLN:HB2	1:MR:121:TYR:CZ	2.45	0.51
1:NJ:118:GLN:HB2	1:NJ:121:TYR:CZ	2.45	0.51
1:AI:92:GLU:CD	1:DU:57:LYS:HZ3	2.13	0.51
1:AI:101:LEU:O	1:AI:105:VAL:HG23	2.10	0.51
1:AP:65:THR:HG22	1:AP:67:SER:H	1.74	0.51
1:BO:39:PRO:HB2	1:BO:47:GLY:HA3	1.92	0.51
1:BQ:21:LEU:HB3	1:BQ:22:PRO:HD2	1.93	0.51
1:BR:39:PRO:HB2	1:BR:47:GLY:HA3	1.92	0.51
1:BX:39:PRO:HB2	1:BX:47:GLY:HA3	1.92	0.51
1:CI:16:SER:HA	1:CI:35:VAL:HG12	1.90	0.51
1:CN:112:ALA:O	1:FZ:49:VAL:CG1	2.55	0.51
1:CQ:101:LEU:O	1:CQ:105:VAL:HG23	2.10	0.51
1:DF:101:LEU:O	1:DF:105:VAL:HG23	2.10	0.51
1:DS:21:LEU:HB3	1:DS:22:PRO:HD2	1.92	0.51
1:DV:21:LEU:HB3	1:DV:22:PRO:HD2	1.93	0.51
1:EF:39:PRO:HB2	1:EF:47:GLY:HA3	1.92	0.51
1:EI:39:PRO:HB2	1:EI:47:GLY:HA3	1.92	0.51
1:EM:118:GLN:HB2	1:EM:121:TYR:CZ	2.45	0.51
1:ER:39:PRO:HB2	1:ER:47:GLY:HA3	1.93	0.51
1:FL:99:SER:OG	1:FL:124:GLU:O	2.20	0.51
1:FO:21:LEU:HB3	1:FO:22:PRO:HD2	1.93	0.51
1:FQ:101:LEU:O	1:FQ:105:VAL:HG23	2.10	0.51
1:GG:21:LEU:HB3	1:GG:22:PRO:HD2	1.93	0.51
1:GP:21:LEU:HB3	1:GP:22:PRO:HD2	1.93	0.51
1:GP:65:THR:HG22	1:GP:67:SER:H	1.74	0.51
1:GW:39:PRO:HB2	1:GW:47:GLY:HA3	1.92	0.51
1:HT:38:LEU:HB2	1:MB:10:ARG:NH1	2.26	0.51
1:HW:21:LEU:HB3	1:HW:22:PRO:HD2	1.93	0.51
1:HW:65:THR:HG22	1:HW:67:SER:H	1.75	0.51
1:HZ:21:LEU:HB3	1:HZ:22:PRO:HD2	1.93	0.51
1:IC:65:THR:HG22	1:IC:67:SER:H	1.75	0.51
1:IH:57:LYS:HZ3	1:LT:92:GLU:CD	2.14	0.51
1:IM:39:PRO:HB2	1:IM:47:GLY:HA3	1.92	0.51
1:IQ:101:LEU:O	1:IQ:105:VAL:HG23	2.10	0.51
1:IY:10:ARG:NH1	1:KQ:38:LEU:HB2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JM:21:LEU:HB3	1:JM:22:PRO:HD2	1.92	0.51
1:JS:21:LEU:HB3	1:JS:22:PRO:HD2	1.92	0.51
1:LF:21:LEU:HB3	1:LF:22:PRO:HD2	1.93	0.51
1:LL:21:LEU:HB3	1:LL:22:PRO:HD2	1.93	0.51
1:LV:39:PRO:HB2	1:LV:47:GLY:HA3	1.92	0.51
1:MC:118:GLN:HB2	1:MC:121:TYR:CZ	2.45	0.51
1:MJ:21:LEU:HB3	1:MJ:22:PRO:HD2	1.93	0.51
1:NQ:65:THR:HG22	1:NQ:67:SER:H	1.74	0.51
1:NR:39:PRO:HB2	1:NR:47:GLY:HA3	1.92	0.51
1:NT:21:LEU:HB3	1:NT:22:PRO:HD2	1.93	0.51
1:AI:118:GLN:HB2	1:AI:121:TYR:CZ	2.45	0.51
1:AX:118:GLN:HB2	1:AX:121:TYR:CZ	2.45	0.51
1:AY:21:LEU:HB3	1:AY:22:PRO:HD2	1.92	0.51
1:BK:65:THR:HG22	1:BK:67:SER:H	1.75	0.51
1:BN:65:THR:HG22	1:BN:67:SER:H	1.75	0.51
1:CC:21:LEU:HB3	1:CC:22:PRO:HD2	1.93	0.51
1:CO:21:LEU:HB3	1:CO:22:PRO:HD2	1.93	0.51
1:CQ:118:GLN:HB2	1:CQ:121:TYR:CZ	2.45	0.51
1:CQ:119:ASP:O	1:GC:8:LYS:HB2	2.10	0.51
1:DH:39:PRO:HB2	1:DH:47:GLY:HA3	1.92	0.51
1:DO:118:GLN:HB2	1:DO:121:TYR:CZ	2.45	0.51
1:EB:21:LEU:HB3	1:EB:22:PRO:HD2	1.93	0.51
1:EC:39:PRO:HB2	1:EC:47:GLY:HA3	1.92	0.51
1:EJ:118:GLN:HB2	1:EJ:121:TYR:CZ	2.45	0.51
1:EL:38:LEU:HD22	1:ES:10:ARG:HH21	1.75	0.51
1:EW:38:LEU:HB2	1:FJ:10:ARG:NH1	2.26	0.51
1:EY:101:LEU:O	1:EY:105:VAL:HG23	2.10	0.51
1:FL:21:LEU:HB3	1:FL:22:PRO:HD2	1.93	0.51
1:FR:21:LEU:HB3	1:FR:22:PRO:HD2	1.93	0.51
1:GC:101:LEU:O	1:GC:105:VAL:HG23	2.10	0.51
1:GI:101:LEU:O	1:GI:105:VAL:HG23	2.10	0.51
1:GM:21:LEU:HB3	1:GM:22:PRO:HD2	1.93	0.51
1:GN:39:PRO:HB2	1:GN:47:GLY:HA3	1.92	0.51
1:HI:39:PRO:HB2	1:HI:47:GLY:HA3	1.92	0.51
1:HL:39:PRO:HB2	1:HL:47:GLY:HA3	1.92	0.51
1:HT:21:LEU:HB3	1:HT:22:PRO:HD2	1.92	0.51
1:II:99:SER:OG	1:II:124:GLU:O	2.20	0.51
1:IO:21:LEU:HB3	1:IO:22:PRO:HD2	1.93	0.51
1:IR:21:LEU:HB3	1:IR:22:PRO:HD2	1.93	0.51
1:JP:65:THR:HG22	1:JP:67:SER:H	1.75	0.51
1:KS:101:LEU:O	1:KS:105:VAL:HG23	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KT:65:THR:HG22	1:KT:67:SER:H	1.74	0.51
1:LU:38:LEU:HB2	1:MH:10:ARG:NH1	2.25	0.51
1:MF:101:LEU:O	1:MF:105:VAL:HG23	2.10	0.51
1:MK:39:PRO:HB2	1:MK:47:GLY:HA3	1.93	0.51
1:MT:39:PRO:HB2	1:MT:47:GLY:HA3	1.93	0.51
1:NH:21:LEU:HB3	1:NH:22:PRO:HD2	1.93	0.51
1:NL:39:PRO:HB2	1:NL:47:GLY:HA3	1.92	0.51
1:NQ:21:LEU:HB3	1:NQ:22:PRO:HD2	1.93	0.51
1:AD:99:SER:OG	1:AD:124:GLU:O	2.20	0.51
1:AR:118:GLN:HB2	1:AR:121:TYR:CZ	2.45	0.51
1:CA:39:PRO:HB2	1:CA:47:GLY:HA3	1.92	0.51
1:CD:39:PRO:HB2	1:CD:47:GLY:HA3	1.92	0.51
1:CX:99:SER:OG	1:CX:124:GLU:O	2.20	0.51
1:DD:21:LEU:HB3	1:DD:22:PRO:HD2	1.92	0.51
1:DM:21:LEU:HB3	1:DM:22:PRO:HD2	1.93	0.51
1:FD:39:PRO:HB2	1:FD:47:GLY:HA3	1.92	0.51
1:FH:118:GLN:HB2	1:FH:121:TYR:CZ	2.45	0.51
1:FT:101:LEU:O	1:FT:105:VAL:HG23	2.10	0.51
1:GK:39:PRO:HB2	1:GK:47:GLY:HA3	1.92	0.51
1:GY:21:LEU:HB3	1:GY:22:PRO:HD2	1.93	0.51
1:HC:39:PRO:HB2	1:HC:47:GLY:HA3	1.93	0.51
1:HS:101:LEU:O	1:HS:105:VAL:HG23	2.10	0.51
1:HZ:65:THR:HG22	1:HZ:67:SER:H	1.74	0.51
1:IH:101:LEU:O	1:IH:105:VAL:HG23	2.10	0.51
1:JB:39:PRO:HB2	1:JB:47:GLY:HA3	1.92	0.51
1:JG:21:LEU:HB3	1:JG:22:PRO:HD2	1.93	0.51
1:JO:80:SER:HB2	1:NA:74:VAL:HG22	1.92	0.51
1:JT:39:PRO:HB2	1:JT:47:GLY:HA3	1.92	0.51
1:LC:65:THR:HG22	1:LC:67:SER:H	1.74	0.51
1:LR:65:THR:HG22	1:LR:67:SER:H	1.74	0.51
1:MA:21:LEU:HB3	1:MA:22:PRO:HD2	1.93	0.51
1:MN:39:PRO:HB2	1:MN:47:GLY:HA3	1.92	0.51
1:NC:39:PRO:HB2	1:NC:47:GLY:HA3	1.93	0.51
1:NI:39:PRO:HB2	1:NI:47:GLY:HA3	1.92	0.51
1:NN:21:LEU:HB3	1:NN:22:PRO:HD2	1.93	0.51
1:AK:39:PRO:HB2	1:AK:47:GLY:HA3	1.92	0.51
1:AU:101:LEU:O	1:AU:105:VAL:HG23	2.10	0.51
1:BG:49:VAL:HG11	1:ES:112:ALA:O	2.11	0.51
1:BH:21:LEU:HB3	1:BH:22:PRO:HD2	1.93	0.51
1:BI:39:PRO:HB2	1:BI:47:GLY:HA3	1.92	0.51
1:CF:21:LEU:HB3	1:CF:22:PRO:HD2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CT:118:GLN:HB2	1:CT:121:TYR:CZ	2.45	0.51
1:DG:21:LEU:HB3	1:DG:22:PRO:HD2	1.93	0.51
1:EH:65:THR:HG22	1:EH:67:SER:H	1.74	0.51
1:EK:21:LEU:HB3	1:EK:22:PRO:HD2	1.93	0.51
1:FM:39:PRO:HB2	1:FM:47:GLY:HA3	1.93	0.51
1:FX:65:THR:HG22	1:FX:67:SER:H	1.75	0.51
1:GT:39:PRO:HB2	1:GT:47:GLY:HA3	1.92	0.51
1:GV:21:LEU:HB3	1:GV:22:PRO:HD2	1.93	0.51
1:HE:21:LEU:HB3	1:HE:22:PRO:HD2	1.93	0.51
1:HH:65:THR:HG22	1:HH:67:SER:H	1.74	0.51
1:HL:38:LEU:CD2	1:IZ:10:ARG:HH21	2.23	0.51
1:HU:39:PRO:HB2	1:HU:47:GLY:HA3	1.92	0.51
1:HV:118:GLN:HB2	1:HV:121:TYR:CZ	2.45	0.51
1:IG:39:PRO:HB2	1:IG:47:GLY:HA3	1.92	0.51
1:IN:49:VAL:HG11	1:LZ:112:ALA:O	2.11	0.51
1:IP:39:PRO:HB2	1:IP:47:GLY:HA3	1.92	0.51
1:JN:39:PRO:HB2	1:JN:47:GLY:HA3	1.93	0.51
1:KD:101:LEU:O	1:KD:105:VAL:HG23	2.10	0.51
1:LF:114:SER:HA	1:LN:26:VAL:HG21	1.93	0.51
1:LI:21:LEU:HB3	1:LI:22:PRO:HD2	1.93	0.51
1:LR:21:LEU:HB3	1:LR:22:PRO:HD2	1.92	0.51
1:LU:21:LEU:HB3	1:LU:22:PRO:HD2	1.93	0.51
1:LW:10:ARG:HH21	1:MH:38:LEU:HD22	1.75	0.51
1:MD:21:LEU:HB3	1:MD:22:PRO:HD2	1.93	0.51
1:MP:21:LEU:HB3	1:MP:22:PRO:HD2	1.92	0.51
1:NB:21:LEU:HB3	1:NB:22:PRO:HD2	1.93	0.51
1:ND:118:GLN:HB2	1:ND:121:TYR:CZ	2.45	0.51
1:AC:4:ILE:HG13	1:DO:125:ASP:HB2	1.90	0.51
1:AJ:65:THR:HG22	1:AJ:67:SER:H	1.75	0.51
1:AO:118:GLN:HB2	1:AO:121:TYR:CZ	2.45	0.51
1:AW:39:PRO:HB2	1:AW:47:GLY:HA3	1.92	0.51
1:BA:101:LEU:O	1:BA:105:VAL:HG23	2.10	0.51
1:BG:118:GLN:HB2	1:BG:121:TYR:CZ	2.45	0.51
1:BM:119:ASP:O	1:EY:8:LYS:HB2	2.11	0.51
1:DG:65:THR:HG22	1:DG:67:SER:H	1.74	0.51
1:DI:112:ALA:O	1:GU:49:VAL:HG11	2.10	0.51
1:DL:59:ILE:HD12	1:GX:89:ASP:OD2	2.10	0.51
1:DP:21:LEU:HB3	1:DP:22:PRO:HD2	1.93	0.51
1:DT:39:PRO:HB2	1:DT:47:GLY:HA3	1.92	0.51
1:DX:118:GLN:HB2	1:DX:121:TYR:CZ	2.45	0.51
1:DY:21:LEU:HB3	1:DY:22:PRO:HD2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EZ:21:LEU:HB3	1:EZ:22:PRO:HD2	1.93	0.51
1:GG:65:THR:HG22	1:GG:67:SER:H	1.74	0.51
1:HA:118:GLN:HB2	1:HA:121:TYR:CZ	2.45	0.51
1:HJ:118:GLN:HB2	1:HJ:121:TYR:CZ	2.45	0.51
1:HK:21:LEU:HB3	1:HK:22:PRO:HD2	1.92	0.51
1:KE:65:THR:HG22	1:KE:67:SER:H	1.74	0.51
1:KF:39:PRO:HB2	1:KF:47:GLY:HA3	1.93	0.51
1:KH:21:LEU:HB3	1:KH:22:PRO:HD2	1.93	0.51
1:KN:21:LEU:HB3	1:KN:22:PRO:HD2	1.92	0.51
1:KV:101:LEU:O	1:KV:105:VAL:HG23	2.10	0.51
1:LD:39:PRO:HB2	1:LD:47:GLY:HA3	1.92	0.51
1:LP:39:PRO:HB2	1:LP:47:GLY:HA3	1.92	0.51
1:LY:39:PRO:HB2	1:LY:47:GLY:HA3	1.93	0.51
1:MM:21:LEU:HB3	1:MM:22:PRO:HD2	1.93	0.51
1:MY:65:THR:HG22	1:MY:67:SER:H	1.74	0.51
1:AG:21:LEU:HB3	1:AG:22:PRO:HD2	1.92	0.51
1:AM:65:THR:HG22	1:AM:67:SER:H	1.74	0.51
1:AP:38:LEU:HB2	1:FV:10:ARG:NH1	2.26	0.51
1:AV:65:THR:HG22	1:AV:67:SER:H	1.74	0.51
1:BY:118:GLN:HB2	1:BY:121:TYR:CZ	2.45	0.51
1:CU:38:LEU:HB2	1:GN:10:ARG:NH1	2.25	0.51
1:CV:39:PRO:HB2	1:CV:47:GLY:HA3	1.92	0.51
1:DC:119:ASP:O	1:GO:8:LYS:HB2	2.10	0.51
1:DD:65:THR:HG22	1:DD:67:SER:H	1.74	0.51
1:DU:103:GLU:HA	1:DU:106:LYS:HD3	1.93	0.51
1:EB:65:THR:HG22	1:EB:67:SER:H	1.74	0.51
1:EP:103:GLU:HA	1:EP:106:LYS:HD3	1.93	0.51
1:FE:118:GLN:HB2	1:FE:121:TYR:CZ	2.45	0.51
1:FX:21:LEU:HB3	1:FX:22:PRO:HD2	1.93	0.51
1:GH:39:PRO:HB2	1:GH:47:GLY:HA3	1.93	0.51
1:GI:103:GLU:HA	1:GI:106:LYS:HD3	1.93	0.51
1:HA:125:ASP:HB2	1:KM:4:ILE:CG1	2.41	0.51
1:HG:101:LEU:O	1:HG:105:VAL:HG23	2.10	0.51
1:HN:21:LEU:HB3	1:HN:22:PRO:HD2	1.93	0.51
1:HX:39:PRO:HB2	1:HX:47:GLY:HA3	1.93	0.51
1:IL:65:THR:HG22	1:IL:67:SER:H	1.74	0.51
1:JP:99:SER:OG	1:JP:124:GLU:O	2.20	0.51
1:KT:21:LEU:HB3	1:KT:22:PRO:HD2	1.92	0.51
1:KZ:21:LEU:HB3	1:KZ:22:PRO:HD2	1.92	0.51
1:LN:101:LEU:O	1:LN:105:VAL:HG23	2.10	0.51
1:LQ:103:GLU:HA	1:LQ:106:LYS:HD3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NJ:101:LEU:O	1:NJ:105:VAL:HG23	2.10	0.51
1:NM:101:LEU:O	1:NM:105:VAL:HG23	2.10	0.51
1:AE:10:ARG:HH11	1:BB:38:LEU:CD2	2.23	0.51
1:AH:39:PRO:HB2	1:AH:47:GLY:HA3	1.92	0.51
1:AV:21:LEU:HB3	1:AV:22:PRO:HD2	1.93	0.51
1:BA:57:LYS:HZ1	1:EM:92:GLU:CD	2.14	0.51
1:BS:103:GLU:HA	1:BS:106:LYS:HD3	1.93	0.51
1:BZ:65:THR:HG22	1:BZ:67:SER:H	1.75	0.51
1:CO:83:VAL:HG11	1:DK:27:THR:HA	1.93	0.51
1:EG:118:GLN:HB2	1:EG:121:TYR:CZ	2.45	0.51
1:EQ:65:THR:HG22	1:EQ:67:SER:H	1.75	0.51
1:EX:39:PRO:HB2	1:EX:47:GLY:HA3	1.92	0.51
1:FI:21:LEU:HB3	1:FI:22:PRO:HD2	1.93	0.51
1:FU:65:THR:HG22	1:FU:67:SER:H	1.74	0.51
1:GA:21:LEU:HB3	1:GA:22:PRO:HD2	1.93	0.51
1:GA:65:THR:HG22	1:GA:67:SER:H	1.74	0.51
1:GJ:21:LEU:HB3	1:GJ:22:PRO:HD2	1.93	0.51
1:IE:103:GLU:HA	1:IE:106:LYS:HD3	1.93	0.51
1:IJ:39:PRO:HB2	1:IJ:47:GLY:HA3	1.93	0.51
1:IQ:8:LYS:HB2	1:MC:119:ASP:O	2.11	0.51
1:IT:118:GLN:HB2	1:IT:121:TYR:CZ	2.45	0.51
1:JD:21:LEU:HB3	1:JD:22:PRO:HD2	1.93	0.51
1:JI:103:GLU:HA	1:JI:106:LYS:HD3	1.93	0.51
1:JS:53:ARG:HH12	1:JS:79:THR:HG21	1.76	0.51
1:JX:101:LEU:O	1:JX:105:VAL:HG23	2.10	0.51
1:MS:21:LEU:HB3	1:MS:22:PRO:HD2	1.93	0.51
1:MY:21:LEU:HB3	1:MY:22:PRO:HD2	1.93	0.51
1:NP:118:GLN:HB2	1:NP:121:TYR:CZ	2.45	0.51
1:AS:53:ARG:HH12	1:AS:79:THR:HG21	1.76	0.51
1:AX:104:GLU:OE1	1:EJ:53:ARG:NH1	2.32	0.51
1:BN:21:LEU:HB3	1:BN:22:PRO:HD2	1.93	0.51
1:CG:39:PRO:HB2	1:CG:47:GLY:HA3	1.92	0.51
1:CI:53:ARG:HH12	1:CI:79:THR:HG21	1.76	0.51
1:CX:21:LEU:HB3	1:CX:22:PRO:HD2	1.92	0.51
1:EO:39:PRO:HB2	1:EO:47:GLY:HA3	1.93	0.51
1:EW:53:ARG:HH12	1:EW:79:THR:HG21	1.77	0.51
1:GM:53:ARG:HH12	1:GM:79:THR:HG21	1.76	0.51
1:HG:125:ASP:HB2	1:KS:4:ILE:HG13	1.92	0.51
1:HH:21:LEU:HB3	1:HH:22:PRO:HD2	1.93	0.51
1:IU:21:LEU:HB3	1:IU:22:PRO:HD2	1.93	0.51
1:IX:21:LEU:HB3	1:IX:22:PRO:HD2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IY:10:ARG:HH11	1:KQ:38:LEU:HB2	1.75	0.51
1:JD:99:SER:OG	1:JD:124:GLU:O	2.20	0.51
1:JF:111:LEU:HD21	1:MR:34:ILE:HD11	1.93	0.51
1:JJ:21:LEU:HB3	1:JJ:22:PRO:HD2	1.93	0.51
1:JU:103:GLU:HA	1:JU:106:LYS:HD3	1.93	0.51
1:JY:53:ARG:HH12	1:JY:79:THR:HG21	1.76	0.51
1:KK:21:LEU:HB3	1:KK:22:PRO:HD2	1.93	0.51
1:KR:10:ARG:HH11	1:NN:38:LEU:HD22	1.76	0.51
1:LC:21:LEU:HB3	1:LC:22:PRO:HD2	1.93	0.51
1:LF:53:ARG:HH12	1:LF:79:THR:HG21	1.76	0.51
1:LN:103:GLU:HA	1:LN:106:LYS:HD3	1.93	0.51
1:LT:118:GLN:HB2	1:LT:121:TYR:CZ	2.45	0.51
1:LX:65:THR:HG22	1:LX:67:SER:H	1.74	0.51
1:ML:103:GLU:HA	1:ML:106:LYS:HD3	1.93	0.51
1:AJ:21:LEU:HB3	1:AJ:22:PRO:HD2	1.93	0.50
1:AX:8:LYS:HB2	1:EJ:119:ASP:O	2.11	0.50
1:AY:53:ARG:HH12	1:AY:79:THR:HG21	1.76	0.50
1:BA:74:VAL:CG2	1:EM:80:SER:HB2	2.40	0.50
1:BJ:118:GLN:HB2	1:BJ:121:TYR:CZ	2.45	0.50
1:BW:53:ARG:HH12	1:BW:79:THR:HG21	1.76	0.50
1:CB:59:ILE:HD12	1:FN:89:ASP:OD2	2.10	0.50
1:CE:103:GLU:HA	1:CE:106:LYS:HD3	1.93	0.50
1:CF:65:THR:HG22	1:CF:67:SER:H	1.75	0.50
1:CM:39:PRO:HB2	1:CM:47:GLY:HA3	1.92	0.50
1:CZ:80:SER:HB2	1:GL:74:VAL:HG22	1.93	0.50
1:CZ:103:GLU:HA	1:CZ:106:LYS:HD3	1.93	0.50
1:DL:53:ARG:NH1	1:GX:104:GLU:OE1	2.35	0.50
1:DO:103:GLU:HA	1:DO:106:LYS:HD3	1.93	0.50
1:EH:21:LEU:HB3	1:EH:22:PRO:HD2	1.93	0.50
1:EM:101:LEU:O	1:EM:105:VAL:HG23	2.10	0.50
1:ET:53:ARG:HH12	1:ET:79:THR:HG21	1.76	0.50
1:FH:103:GLU:HA	1:FH:106:LYS:HD3	1.93	0.50
1:FU:21:LEU:HB3	1:FU:22:PRO:HD2	1.93	0.50
1:GE:39:PRO:HB2	1:GE:47:GLY:HA3	1.92	0.50
1:GQ:38:LEU:HG	1:GQ:39:PRO:HD2	1.94	0.50
1:GU:103:GLU:HA	1:GU:106:LYS:HD3	1.93	0.50
1:GV:65:THR:HG22	1:GV:67:SER:H	1.74	0.50
1:IA:39:PRO:HB2	1:IA:47:GLY:HA3	1.92	0.50
1:IG:10:ARG:NH1	1:IL:38:LEU:HB2	2.26	0.50
1:IU:53:ARG:HH12	1:IU:79:THR:HG21	1.76	0.50
1:IW:112:ALA:O	1:MI:49:VAL:HG11	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IX:53:ARG:HH12	1:IX:79:THR:HG21	1.76	0.50
1:IX:113:TYR:O	1:KS:26:VAL:HG21	2.12	0.50
1:JC:103:GLU:HA	1:JC:106:LYS:HD3	1.93	0.50
1:JE:38:LEU:HD22	1:NM:10:ARG:HH21	1.76	0.50
1:JJ:99:SER:OG	1:JJ:124:GLU:O	2.20	0.50
1:JT:38:LEU:HG	1:JT:39:PRO:HD2	1.94	0.50
1:JX:103:GLU:HA	1:JX:106:LYS:HD3	1.93	0.50
1:KW:21:LEU:HB3	1:KW:22:PRO:HD2	1.93	0.50
1:LU:53:ARG:HH12	1:LU:79:THR:HG21	1.76	0.50
1:NU:39:PRO:HB2	1:NU:47:GLY:HA3	1.92	0.50
1:AE:38:LEU:HD22	1:BD:10:ARG:HE	1.76	0.50
1:AF:94:LEU:HD22	1:DR:101:LEU:HD22	1.92	0.50
1:BC:39:PRO:HB2	1:BC:47:GLY:HA3	1.93	0.50
1:BF:38:LEU:HG	1:BF:39:PRO:HD2	1.94	0.50
1:BV:103:GLU:HA	1:BV:106:LYS:HD3	1.93	0.50
1:CE:74:VAL:CG2	1:FQ:80:SER:HB2	2.41	0.50
1:CH:118:GLN:HB2	1:CH:121:TYR:CZ	2.45	0.50
1:CL:53:ARG:HH12	1:CL:79:THR:HG21	1.76	0.50
1:CN:103:GLU:HA	1:CN:106:LYS:HD3	1.93	0.50
1:CW:103:GLU:HA	1:CW:106:LYS:HD3	1.93	0.50
1:CY:38:LEU:HG	1:CY:39:PRO:HD2	1.94	0.50
1:DC:103:GLU:HA	1:DC:106:LYS:HD3	1.93	0.50
1:DH:38:LEU:HG	1:DH:39:PRO:HD2	1.94	0.50
1:FA:113:TYR:O	1:FM:26:VAL:HG21	2.11	0.50
1:FC:53:ARG:HH12	1:FC:79:THR:HG21	1.76	0.50
1:FN:103:GLU:HA	1:FN:106:LYS:HD3	1.93	0.50
1:GK:38:LEU:HG	1:GK:39:PRO:HD2	1.94	0.50
1:GS:53:ARG:HH12	1:GS:79:THR:HG21	1.77	0.50
1:GT:38:LEU:HG	1:GT:39:PRO:HD2	1.94	0.50
1:HH:53:ARG:HH12	1:HH:79:THR:HG21	1.76	0.50
1:HV:103:GLU:HA	1:HV:106:LYS:HD3	1.93	0.50
1:IF:53:ARG:HH12	1:IF:79:THR:HG21	1.76	0.50
1:IH:8:LYS:HB2	1:LT:119:ASP:O	2.11	0.50
1:IV:38:LEU:HG	1:IV:39:PRO:HD2	1.94	0.50
1:JK:66:ALA:HB3	1:KF:66:ALA:HB1	1.93	0.50
1:KB:21:LEU:HB3	1:KB:22:PRO:HD2	1.93	0.50
1:KB:53:ARG:HH12	1:KB:79:THR:HG21	1.76	0.50
1:KG:103:GLU:HA	1:KG:106:LYS:HD3	1.93	0.50
1:KX:38:LEU:HG	1:KX:39:PRO:HD2	1.94	0.50
1:LF:99:SER:OG	1:LF:124:GLU:O	2.20	0.50
1:LR:53:ARG:HH12	1:LR:79:THR:HG21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MC:103:GLU:HA	1:MC:106:LYS:HD3	1.93	0.50
1:MM:53:ARG:HH12	1:MM:79:THR:HG21	1.76	0.50
1:MO:103:GLU:HA	1:MO:106:LYS:HD3	1.93	0.50
1:NC:38:LEU:HG	1:NC:39:PRO:HD2	1.94	0.50
1:NG:103:GLU:HA	1:NG:106:LYS:HD3	1.93	0.50
1:NS:101:LEU:O	1:NS:105:VAL:HG23	2.10	0.50
1:AC:92:GLU:OE2	1:DO:57:LYS:NZ	2.44	0.50
1:AP:83:VAL:CG1	1:FV:27:THR:HA	2.41	0.50
1:AU:106:LYS:NZ	1:EG:129:THR:O	2.44	0.50
1:AW:38:LEU:HG	1:AW:39:PRO:HD2	1.94	0.50
1:BS:49:VAL:HG11	1:FE:112:ALA:O	2.10	0.50
1:CT:10:ARG:HH21	1:DE:38:LEU:HD22	1.77	0.50
1:CT:103:GLU:HA	1:CT:106:LYS:HD3	1.93	0.50
1:DI:103:GLU:HA	1:DI:106:LYS:HD3	1.93	0.50
1:DJ:53:ARG:HH12	1:DJ:79:THR:HG21	1.77	0.50
1:EC:38:LEU:HG	1:EC:39:PRO:HD2	1.94	0.50
1:ED:103:GLU:HA	1:ED:106:LYS:HD3	1.93	0.50
1:EW:21:LEU:HB3	1:EW:22:PRO:HD2	1.92	0.50
1:EX:38:LEU:HG	1:EX:39:PRO:HD2	1.94	0.50
1:FJ:38:LEU:HG	1:FJ:39:PRO:HD2	1.94	0.50
1:FL:53:ARG:HH12	1:FL:79:THR:HG21	1.76	0.50
1:FM:38:LEU:HG	1:FM:39:PRO:HD2	1.94	0.50
1:FQ:118:GLN:HB2	1:FQ:121:TYR:CZ	2.45	0.50
1:FV:39:PRO:HB2	1:FV:47:GLY:HA3	1.92	0.50
1:GL:103:GLU:HA	1:GL:106:LYS:HD3	1.93	0.50
1:HL:38:LEU:HG	1:HL:39:PRO:HD2	1.94	0.50
1:HP:112:ALA:O	1:LB:49:VAL:CG1	2.56	0.50
1:IA:38:LEU:HG	1:IA:39:PRO:HD2	1.94	0.50
1:ID:38:LEU:HG	1:ID:39:PRO:HD2	1.94	0.50
1:IT:49:VAL:HG11	1:MF:112:ALA:O	2.11	0.50
1:JB:38:LEU:HG	1:JB:39:PRO:HD2	1.94	0.50
1:JK:38:LEU:HG	1:JK:39:PRO:HD2	1.94	0.50
1:JK:39:PRO:HB2	1:JK:47:GLY:HA3	1.93	0.50
1:JS:38:LEU:HB2	1:NL:10:ARG:HH11	1.75	0.50
1:JV:21:LEU:HB3	1:JV:22:PRO:HD2	1.92	0.50
1:KQ:21:LEU:HB3	1:KQ:22:PRO:HD2	1.93	0.50
1:KQ:53:ARG:HH12	1:KQ:79:THR:HG21	1.77	0.50
1:KY:103:GLU:HA	1:KY:106:LYS:HD3	1.93	0.50
1:LO:53:ARG:HH12	1:LO:79:THR:HG21	1.76	0.50
1:LS:39:PRO:HB2	1:LS:47:GLY:HA3	1.92	0.50
1:LX:53:ARG:HH12	1:LX:79:THR:HG21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MX:103:GLU:HA	1:MX:106:LYS:HD3	1.93	0.50
1:NB:53:ARG:HH12	1:NB:79:THR:HG21	1.77	0.50
1:AC:103:GLU:HA	1:AC:106:LYS:HD3	1.93	0.50
1:AL:103:GLU:HA	1:AL:106:LYS:HD3	1.93	0.50
1:AT:38:LEU:HG	1:AT:39:PRO:HD2	1.94	0.50
1:AX:103:GLU:HA	1:AX:106:LYS:HD3	1.93	0.50
1:BW:21:LEU:HB3	1:BW:22:PRO:HD2	1.93	0.50
1:CO:53:ARG:HH12	1:CO:79:THR:HG21	1.76	0.50
1:CS:38:LEU:HG	1:CS:39:PRO:HD2	1.94	0.50
1:CV:38:LEU:HG	1:CV:39:PRO:HD2	1.94	0.50
1:DB:39:PRO:HB2	1:DB:47:GLY:HA3	1.92	0.50
1:DG:53:ARG:HH12	1:DG:79:THR:HG21	1.77	0.50
1:DM:53:ARG:HH12	1:DM:79:THR:HG21	1.77	0.50
1:EI:38:LEU:HG	1:EI:39:PRO:HD2	1.94	0.50
1:FS:39:PRO:HB2	1:FS:47:GLY:HA3	1.92	0.50
1:FW:10:ARG:HH21	1:GT:38:LEU:HD22	1.76	0.50
1:GA:99:SER:OG	1:GA:124:GLU:O	2.20	0.50
1:GR:103:GLU:HA	1:GR:106:LYS:HD3	1.93	0.50
1:HB:53:ARG:HH12	1:HB:79:THR:HG21	1.76	0.50
1:HD:74:VAL:CG2	1:KP:80:SER:HB2	2.42	0.50
1:HE:99:SER:OG	1:HE:124:GLU:O	2.20	0.50
1:HY:103:GLU:HA	1:HY:106:LYS:HD3	1.93	0.50
1:IG:38:LEU:HG	1:IG:39:PRO:HD2	1.94	0.50
1:IK:103:GLU:HA	1:IK:106:LYS:HD3	1.93	0.50
1:IW:74:VAL:HG22	1:MI:80:SER:HB2	1.92	0.50
1:JH:10:ARG:HH11	1:NE:38:LEU:HB2	1.77	0.50
1:JP:53:ARG:HH12	1:JP:79:THR:HG21	1.77	0.50
1:JX:49:VAL:HG11	1:NJ:112:ALA:O	2.11	0.50
1:KI:38:LEU:HG	1:KI:39:PRO:HD2	1.94	0.50
1:KN:53:ARG:HH12	1:KN:79:THR:HG21	1.76	0.50
1:KO:39:PRO:HB2	1:KO:47:GLY:HA3	1.92	0.50
1:KR:38:LEU:HG	1:KR:39:PRO:HD2	1.94	0.50
1:LV:38:LEU:HG	1:LV:39:PRO:HD2	1.93	0.50
1:MD:53:ARG:HH12	1:MD:79:THR:HG21	1.76	0.50
1:MG:21:LEU:HB3	1:MG:22:PRO:HD2	1.92	0.50
1:MS:53:ARG:HH12	1:MS:79:THR:HG21	1.76	0.50
1:NA:103:GLU:HA	1:NA:106:LYS:HD3	1.93	0.50
1:NF:38:LEU:HG	1:NF:39:PRO:HD2	1.94	0.50
1:NQ:53:ARG:HH12	1:NQ:79:THR:HG21	1.76	0.50
1:AB:39:PRO:HB2	1:AB:47:GLY:HA3	1.92	0.50
1:AG:53:ARG:HH12	1:AG:79:THR:HG21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:101:LEU:O	1:AY:105:VAL:HG23	2.12	0.50
1:BJ:119:ASP:O	1:EV:8:LYS:HB2	2.12	0.50
1:BO:38:LEU:HG	1:BO:39:PRO:HD2	1.94	0.50
1:BY:8:LYS:HB2	1:FK:119:ASP:O	2.11	0.50
1:BY:103:GLU:HA	1:BY:106:LYS:HD3	1.93	0.50
1:CC:53:ARG:HH12	1:CC:79:THR:HG21	1.77	0.50
1:CZ:57:LYS:HZ3	1:GL:92:GLU:CD	2.15	0.50
1:DL:103:GLU:HA	1:DL:106:LYS:HD3	1.93	0.50
1:DN:39:PRO:HB2	1:DN:47:GLY:HA3	1.93	0.50
1:DW:38:LEU:HG	1:DW:39:PRO:HD2	1.94	0.50
1:EL:38:LEU:HG	1:EL:39:PRO:HD2	1.94	0.50
1:EN:53:ARG:HH12	1:EN:79:THR:HG21	1.77	0.50
1:FB:103:GLU:HA	1:FB:106:LYS:HD3	1.93	0.50
1:FF:21:LEU:HB3	1:FF:22:PRO:HD2	1.93	0.50
1:FO:53:ARG:HH12	1:FO:79:THR:HG21	1.76	0.50
1:FP:39:PRO:HB2	1:FP:47:GLY:HA3	1.93	0.50
1:FV:38:LEU:HG	1:FV:39:PRO:HD2	1.94	0.50
1:GB:39:PRO:HB2	1:GB:47:GLY:HA3	1.93	0.50
1:GD:21:LEU:HB3	1:GD:22:PRO:HD2	1.93	0.50
1:GD:53:ARG:HH12	1:GD:79:THR:HG21	1.76	0.50
1:GO:103:GLU:HA	1:GO:106:LYS:HD3	1.93	0.50
1:HC:38:LEU:HG	1:HC:39:PRO:HD2	1.94	0.50
1:HK:53:ARG:HH12	1:HK:79:THR:HG21	1.76	0.50
1:HP:101:LEU:O	1:HP:105:VAL:HG23	2.10	0.50
1:HX:38:LEU:HG	1:HX:39:PRO:HD2	1.94	0.50
1:IM:38:LEU:HG	1:IM:39:PRO:HD2	1.94	0.50
1:IS:39:PRO:HB2	1:IS:47:GLY:HA3	1.92	0.50
1:JJ:53:ARG:HH12	1:JJ:79:THR:HG21	1.76	0.50
1:JO:103:GLU:HA	1:JO:106:LYS:HD3	1.93	0.50
1:KE:21:LEU:HB3	1:KE:22:PRO:HD2	1.93	0.50
1:KX:39:PRO:HB2	1:KX:47:GLY:HA3	1.92	0.50
1:LC:53:ARG:HH12	1:LC:79:THR:HG21	1.76	0.50
1:LY:38:LEU:HG	1:LY:39:PRO:HD2	1.94	0.50
1:MB:39:PRO:HB2	1:MB:47:GLY:HA3	1.93	0.50
1:MR:10:ARG:HD2	1:NO:15:ASP:OD1	2.11	0.50
1:MV:53:ARG:HH12	1:MV:79:THR:HG21	1.76	0.50
1:NH:53:ARG:HH12	1:NH:79:THR:HG21	1.77	0.50
1:AB:38:LEU:HG	1:AB:39:PRO:HD2	1.94	0.50
1:AQ:39:PRO:HB2	1:AQ:47:GLY:HA3	1.92	0.50
1:AZ:38:LEU:HG	1:AZ:39:PRO:HD2	1.94	0.50
1:BK:53:ARG:HH12	1:BK:79:THR:HG21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BQ:53:ARG:HH12	1:BQ:79:THR:HG21	1.77	0.50
1:CH:26:VAL:HG21	1:CL:114:SER:HA	1.94	0.50
1:CW:49:VAL:HG11	1:GI:112:ALA:O	2.11	0.50
1:DB:38:LEU:HG	1:DB:39:PRO:HD2	1.94	0.50
1:DJ:21:LEU:HB3	1:DJ:22:PRO:HD2	1.93	0.50
1:DK:39:PRO:HB2	1:DK:47:GLY:HA3	1.92	0.50
1:DN:38:LEU:HG	1:DN:39:PRO:HD2	1.94	0.50
1:DV:53:ARG:HH12	1:DV:79:THR:HG21	1.76	0.50
1:DY:101:LEU:O	1:DY:105:VAL:HG23	2.12	0.50
1:EE:21:LEU:HB3	1:EE:22:PRO:HD2	1.93	0.50
1:EK:101:LEU:O	1:EK:105:VAL:HG23	2.12	0.50
1:EL:39:PRO:HB2	1:EL:47:GLY:HA3	1.92	0.50
1:EW:101:LEU:O	1:EW:105:VAL:HG23	2.12	0.50
1:FA:38:LEU:HG	1:FA:39:PRO:HD2	1.94	0.50
1:FR:101:LEU:O	1:FR:105:VAL:HG23	2.12	0.50
1:FZ:103:GLU:HA	1:FZ:106:LYS:HD3	1.93	0.50
1:GA:101:LEU:O	1:GA:105:VAL:HG23	2.12	0.50
1:GS:21:LEU:HB3	1:GS:22:PRO:HD2	1.93	0.50
1:GV:53:ARG:HH12	1:GV:79:THR:HG21	1.77	0.50
1:HC:10:ARG:HH11	1:HZ:38:LEU:HD22	1.76	0.50
1:HI:38:LEU:HG	1:HI:39:PRO:HD2	1.94	0.50
1:HQ:21:LEU:HB3	1:HQ:22:PRO:HD2	1.93	0.50
1:HR:38:LEU:HG	1:HR:39:PRO:HD2	1.94	0.50
1:HW:53:ARG:HH12	1:HW:79:THR:HG21	1.76	0.50
1:IC:101:LEU:O	1:IC:105:VAL:HG23	2.12	0.50
1:IF:101:LEU:O	1:IF:105:VAL:HG23	2.12	0.50
1:IH:80:SER:HB2	1:LT:74:VAL:CG2	2.41	0.50
1:II:53:ARG:HH12	1:II:79:THR:HG21	1.76	0.50
1:IO:101:LEU:O	1:IO:105:VAL:HG23	2.12	0.50
1:JD:53:ARG:HH12	1:JD:79:THR:HG21	1.76	0.50
1:JH:38:LEU:HG	1:JH:39:PRO:HD2	1.94	0.50
1:JL:103:GLU:HA	1:JL:106:LYS:HD3	1.93	0.50
1:JW:38:LEU:HG	1:JW:39:PRO:HD2	1.94	0.50
1:KA:103:GLU:HA	1:KA:106:LYS:HD3	1.93	0.50
1:KC:38:LEU:HG	1:KC:39:PRO:HD2	1.94	0.50
1:KH:99:SER:OG	1:KH:124:GLU:O	2.20	0.50
1:KL:39:PRO:HB2	1:KL:47:GLY:HA3	1.92	0.50
1:LJ:38:LEU:HG	1:LJ:39:PRO:HD2	1.94	0.50
1:LJ:39:PRO:HB2	1:LJ:47:GLY:HA3	1.93	0.50
1:LO:21:LEU:HB3	1:LO:22:PRO:HD2	1.92	0.50
1:ME:39:PRO:HB2	1:ME:47:GLY:HA3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MH:38:LEU:HG	1:MH:39:PRO:HD2	1.94	0.50
1:MJ:53:ARG:HH12	1:MJ:79:THR:HG21	1.76	0.50
1:MN:38:LEU:HG	1:MN:39:PRO:HD2	1.94	0.50
1:MY:101:LEU:O	1:MY:105:VAL:HG23	2.12	0.50
1:NK:101:LEU:O	1:NK:105:VAL:HG23	2.12	0.50
1:NL:38:LEU:HG	1:NL:39:PRO:HD2	1.94	0.50
1:NQ:101:LEU:O	1:NQ:105:VAL:HG23	2.12	0.50
1:AA:21:LEU:HB3	1:AA:22:PRO:HD2	1.93	0.50
1:AA:53:ARG:HH12	1:AA:79:THR:HG21	1.77	0.50
1:AI:103:GLU:HA	1:AI:106:LYS:HD3	1.93	0.50
1:AT:39:PRO:HB2	1:AT:47:GLY:HA3	1.93	0.50
1:BH:53:ARG:HH12	1:BH:79:THR:HG21	1.76	0.50
1:BL:15:ASP:OD1	1:DX:10:ARG:NH1	2.44	0.50
1:BN:53:ARG:HH12	1:BN:79:THR:HG21	1.76	0.50
1:CB:103:GLU:HA	1:CB:106:LYS:HD3	1.93	0.50
1:CC:101:LEU:O	1:CC:105:VAL:HG23	2.12	0.50
1:CF:53:ARG:HH12	1:CF:79:THR:HG21	1.77	0.50
1:CF:101:LEU:O	1:CF:105:VAL:HG23	2.12	0.50
1:CL:101:LEU:O	1:CL:105:VAL:HG23	2.12	0.50
1:DE:39:PRO:HB2	1:DE:47:GLY:HA3	1.93	0.50
1:DM:101:LEU:O	1:DM:105:VAL:HG23	2.12	0.50
1:EE:101:LEU:O	1:EE:105:VAL:HG23	2.12	0.50
1:EK:53:ARG:HH12	1:EK:79:THR:HG21	1.76	0.50
1:FI:101:LEU:O	1:FI:105:VAL:HG23	2.12	0.50
1:FW:103:GLU:HA	1:FW:106:LYS:HD3	1.93	0.50
1:FX:101:LEU:O	1:FX:105:VAL:HG23	2.12	0.50
1:FY:38:LEU:HG	1:FY:39:PRO:HD2	1.94	0.50
1:GG:53:ARG:HH12	1:GG:79:THR:HG21	1.76	0.50
1:GP:101:LEU:O	1:GP:105:VAL:HG23	2.12	0.50
1:GV:101:LEU:O	1:GV:105:VAL:HG23	2.12	0.50
1:HA:103:GLU:HA	1:HA:106:LYS:HD3	1.93	0.50
1:HK:9:LEU:HA	1:KY:116:TYR:CD1	2.47	0.50
1:HN:53:ARG:HH12	1:HN:79:THR:HG21	1.77	0.50
1:HQ:101:LEU:O	1:HQ:105:VAL:HG23	2.12	0.50
1:HT:101:LEU:O	1:HT:105:VAL:HG23	2.12	0.50
1:HV:92:GLU:OE2	1:LH:57:LYS:NZ	2.32	0.50
1:IB:8:LYS:HB2	1:LN:119:ASP:O	2.11	0.50
1:IF:21:LEU:HB3	1:IF:22:PRO:HD2	1.93	0.50
1:IQ:103:GLU:HA	1:IQ:106:LYS:HD3	1.93	0.50
1:IY:39:PRO:HB2	1:IY:47:GLY:HA3	1.92	0.50
1:JA:101:LEU:O	1:JA:105:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JD:101:LEU:O	1:JD:105:VAL:HG23	2.12	0.50
1:JF:74:VAL:HG22	1:MR:80:SER:HB2	1.92	0.50
1:JW:39:PRO:HB2	1:JW:47:GLY:HA3	1.93	0.50
1:KD:57:LYS:NZ	1:NP:92:GLU:OE2	2.39	0.50
1:KD:103:GLU:HA	1:KD:106:LYS:HD3	1.93	0.50
1:KL:38:LEU:HG	1:KL:39:PRO:HD2	1.94	0.50
1:KM:103:GLU:HA	1:KM:106:LYS:HD3	1.93	0.50
1:KP:103:GLU:HA	1:KP:106:LYS:HD3	1.93	0.50
1:KQ:101:LEU:O	1:KQ:105:VAL:HG23	2.12	0.50
1:LA:39:PRO:HB2	1:LA:47:GLY:HA3	1.92	0.50
1:LL:53:ARG:HH12	1:LL:79:THR:HG21	1.76	0.50
1:LW:103:GLU:HA	1:LW:106:LYS:HD3	1.93	0.50
1:MW:38:LEU:HG	1:MW:39:PRO:HD2	1.94	0.50
1:NI:38:LEU:HG	1:NI:39:PRO:HD2	1.94	0.50
1:NM:103:GLU:HA	1:NM:106:LYS:HD3	1.93	0.50
1:NR:38:LEU:HG	1:NR:39:PRO:HD2	1.94	0.50
1:AG:101:LEU:O	1:AG:105:VAL:HG23	2.12	0.50
1:AM:53:ARG:HH12	1:AM:79:THR:HG21	1.76	0.50
1:AN:39:PRO:HB2	1:AN:47:GLY:HA3	1.92	0.50
1:AP:53:ARG:HH12	1:AP:79:THR:HG21	1.77	0.50
1:AQ:38:LEU:HG	1:AQ:39:PRO:HD2	1.94	0.50
1:AV:53:ARG:HH12	1:AV:79:THR:HG21	1.77	0.50
1:BJ:8:LYS:HB2	1:EV:119:ASP:O	2.12	0.50
1:BW:113:TYR:O	1:DR:26:VAL:HG21	2.12	0.50
1:BX:38:LEU:HG	1:BX:39:PRO:HD2	1.94	0.50
1:CH:103:GLU:HA	1:CH:106:LYS:HD3	1.93	0.50
1:DL:49:VAL:HG11	1:GX:112:ALA:O	2.12	0.50
1:EZ:101:LEU:O	1:EZ:105:VAL:HG23	2.12	0.50
1:FU:53:ARG:HH12	1:FU:79:THR:HG21	1.77	0.50
1:GJ:53:ARG:HH12	1:GJ:79:THR:HG21	1.76	0.50
1:HD:103:GLU:HA	1:HD:106:LYS:HD3	1.93	0.50
1:HO:38:LEU:HD22	1:IT:10:ARG:HH21	1.76	0.50
1:HW:114:SER:HA	1:LH:26:VAL:HG21	1.93	0.50
1:IB:103:GLU:HA	1:IB:106:LYS:HD3	1.93	0.50
1:IE:89:ASP:OD2	1:LQ:59:ILE:HD12	2.11	0.50
1:IL:53:ARG:HH12	1:IL:79:THR:HG21	1.76	0.50
1:IZ:103:GLU:HA	1:IZ:106:LYS:HD3	1.93	0.50
1:JE:39:PRO:HB2	1:JE:47:GLY:HA3	1.93	0.50
1:JG:101:LEU:O	1:JG:105:VAL:HG23	2.12	0.50
1:JM:53:ARG:HH12	1:JM:79:THR:HG21	1.77	0.50
1:JY:21:LEU:HB3	1:JY:22:PRO:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KI:39:PRO:HB2	1:KI:47:GLY:HA3	1.92	0.50
1:KT:101:LEU:O	1:KT:105:VAL:HG23	2.12	0.50
1:LF:101:LEU:O	1:LF:105:VAL:HG23	2.12	0.50
1:MT:38:LEU:HG	1:MT:39:PRO:HD2	1.94	0.50
1:NJ:103:GLU:HA	1:NJ:106:LYS:HD3	1.93	0.50
1:NN:53:ARG:HH12	1:NN:79:THR:HG21	1.76	0.50
1:NO:39:PRO:HB2	1:NO:47:GLY:HA3	1.92	0.50
1:AD:101:LEU:O	1:AD:105:VAL:HG23	2.12	0.50
1:AE:39:PRO:HB2	1:AE:47:GLY:HA3	1.92	0.50
1:BG:103:GLU:HA	1:BG:106:LYS:HD3	1.93	0.50
1:BK:21:LEU:HB3	1:BK:22:PRO:HD2	1.93	0.50
1:BP:103:GLU:HA	1:BP:106:LYS:HD3	1.93	0.50
1:BV:53:ARG:NH1	1:FH:104:GLU:OE1	2.36	0.50
1:CI:101:LEU:O	1:CI:105:VAL:HG23	2.12	0.50
1:DI:8:LYS:HB2	1:GU:119:ASP:O	2.12	0.50
1:DW:39:PRO:HB2	1:DW:47:GLY:HA3	1.92	0.50
1:ET:101:LEU:O	1:ET:105:VAL:HG23	2.12	0.50
1:EU:38:LEU:HG	1:EU:39:PRO:HD2	1.94	0.50
1:FG:38:LEU:HG	1:FG:39:PRO:HD2	1.94	0.50
1:FI:53:ARG:HH12	1:FI:79:THR:HG21	1.76	0.50
1:FU:38:LEU:HB2	1:GT:10:ARG:NH1	2.26	0.50
1:GF:103:GLU:HA	1:GF:106:LYS:HD3	1.93	0.50
1:GW:38:LEU:HG	1:GW:39:PRO:HD2	1.94	0.50
1:HF:39:PRO:HB2	1:HF:47:GLY:HA3	1.92	0.50
1:HG:89:ASP:OD2	1:KS:59:ILE:HD12	2.11	0.50
1:HW:101:LEU:O	1:HW:105:VAL:HG23	2.12	0.50
1:IC:21:LEU:HB3	1:IC:22:PRO:HD2	1.93	0.50
1:IT:103:GLU:HA	1:IT:106:LYS:HD3	1.93	0.50
1:IU:101:LEU:O	1:IU:105:VAL:HG23	2.12	0.50
1:JM:101:LEU:O	1:JM:105:VAL:HG23	2.12	0.50
1:JN:38:LEU:HG	1:JN:39:PRO:HD2	1.94	0.50
1:JO:113:TYR:CD1	1:NA:90:ARG:NH2	2.80	0.50
1:JV:53:ARG:HH12	1:JV:79:THR:HG21	1.76	0.50
1:KE:101:LEU:O	1:KE:105:VAL:HG23	2.12	0.50
1:KT:53:ARG:HH12	1:KT:79:THR:HG21	1.77	0.50
1:LC:101:LEU:O	1:LC:105:VAL:HG23	2.12	0.50
1:LD:15:ASP:OD1	1:LT:10:ARG:NH1	2.45	0.50
1:LG:39:PRO:HB2	1:LG:47:GLY:HA3	1.92	0.50
1:LR:101:LEU:O	1:LR:105:VAL:HG23	2.12	0.50
1:MC:26:VAL:HG21	1:MD:114:SER:HA	1.93	0.50
1:MF:103:GLU:HA	1:MF:106:LYS:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MP:53:ARG:HH12	1:MP:79:THR:HG21	1.77	0.50
1:MY:99:SER:OG	1:MY:124:GLU:O	2.20	0.50
1:ND:103:GLU:HA	1:ND:106:LYS:HD3	1.93	0.50
1:AL:92:GLU:OE2	1:DX:57:LYS:NZ	2.44	0.49
1:AN:10:ARG:HH11	1:BZ:38:LEU:HD22	1.77	0.49
1:AP:21:LEU:HB3	1:AP:22:PRO:HD2	1.93	0.49
1:AS:21:LEU:HB3	1:AS:22:PRO:HD2	1.93	0.49
1:AU:103:GLU:HA	1:AU:106:LYS:HD3	1.93	0.49
1:BE:53:ARG:HH12	1:BE:79:THR:HG21	1.76	0.49
1:BJ:103:GLU:HA	1:BJ:106:LYS:HD3	1.93	0.49
1:BZ:53:ARG:HH12	1:BZ:79:THR:HG21	1.76	0.49
1:CN:49:VAL:HG11	1:FZ:112:ALA:O	2.12	0.49
1:CO:101:LEU:O	1:CO:105:VAL:HG23	2.12	0.49
1:CP:38:LEU:HG	1:CP:39:PRO:HD2	1.94	0.49
1:DA:21:LEU:HB3	1:DA:22:PRO:HD2	1.93	0.49
1:DB:113:TYR:O	1:GK:26:VAL:HG11	2.12	0.49
1:DX:103:GLU:HA	1:DX:106:LYS:HD3	1.93	0.49
1:EM:103:GLU:HA	1:EM:106:LYS:HD3	1.93	0.49
1:EN:101:LEU:O	1:EN:105:VAL:HG23	2.12	0.49
1:EO:38:LEU:HG	1:EO:39:PRO:HD2	1.94	0.49
1:EQ:101:LEU:O	1:EQ:105:VAL:HG23	2.12	0.49
1:FL:101:LEU:O	1:FL:105:VAL:HG23	2.12	0.49
1:GD:101:LEU:O	1:GD:105:VAL:HG23	2.12	0.49
1:GS:101:LEU:O	1:GS:105:VAL:HG23	2.12	0.49
1:HB:101:LEU:O	1:HB:105:VAL:HG23	2.12	0.49
1:HQ:53:ARG:HH12	1:HQ:79:THR:HG21	1.76	0.49
1:HU:38:LEU:HG	1:HU:39:PRO:HD2	1.94	0.49
1:HZ:53:ARG:HH12	1:HZ:79:THR:HG21	1.76	0.49
1:II:101:LEU:O	1:II:105:VAL:HG23	2.12	0.49
1:IX:101:LEU:O	1:IX:105:VAL:HG23	2.12	0.49
1:JA:53:ARG:HH12	1:JA:79:THR:HG21	1.76	0.49
1:JC:74:VAL:HG22	1:MO:80:SER:HB2	1.94	0.49
1:JJ:101:LEU:O	1:JJ:105:VAL:HG23	2.12	0.49
1:KH:53:ARG:HH12	1:KH:79:THR:HG21	1.76	0.49
1:KH:101:LEU:O	1:KH:105:VAL:HG23	2.12	0.49
1:LI:53:ARG:HH12	1:LI:79:THR:HG21	1.76	0.49
1:LO:101:LEU:O	1:LO:105:VAL:HG23	2.12	0.49
1:LU:38:LEU:HB2	1:MH:10:ARG:HH11	1.77	0.49
1:MG:101:LEU:O	1:MG:105:VAL:HG23	2.12	0.49
1:MS:101:LEU:O	1:MS:105:VAL:HG23	2.12	0.49
1:MV:21:LEU:HB3	1:MV:22:PRO:HD2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MV:101:LEU:O	1:MV:105:VAL:HG23	2.12	0.49
1:NE:53:ARG:HH12	1:NE:79:THR:HG21	1.77	0.49
1:NK:53:ARG:HH12	1:NK:79:THR:HG21	1.76	0.49
1:NN:101:LEU:O	1:NN:105:VAL:HG23	2.12	0.49
1:AF:90:ARG:NH2	1:DR:113:TYR:CG	2.80	0.49
1:AM:101:LEU:O	1:AM:105:VAL:HG23	2.12	0.49
1:AP:101:LEU:O	1:AP:105:VAL:HG23	2.12	0.49
1:AS:101:LEU:O	1:AS:105:VAL:HG23	2.12	0.49
1:BB:53:ARG:HH12	1:BB:79:THR:HG21	1.76	0.49
1:BF:39:PRO:HB2	1:BF:47:GLY:HA3	1.93	0.49
1:BH:101:LEU:O	1:BH:105:VAL:HG23	2.12	0.49
1:BW:101:LEU:O	1:BW:105:VAL:HG23	2.12	0.49
1:CQ:10:ARG:HH21	1:DK:38:LEU:HD22	1.76	0.49
1:CR:101:LEU:O	1:CR:105:VAL:HG23	2.12	0.49
1:CX:101:LEU:O	1:CX:105:VAL:HG23	2.12	0.49
1:DD:53:ARG:HH12	1:DD:79:THR:HG21	1.76	0.49
1:DP:101:LEU:O	1:DP:105:VAL:HG23	2.12	0.49
1:EF:38:LEU:HG	1:EF:39:PRO:HD2	1.94	0.49
1:EV:103:GLU:HA	1:EV:106:LYS:HD3	1.93	0.49
1:FD:38:LEU:HG	1:FD:39:PRO:HD2	1.94	0.49
1:FU:101:LEU:O	1:FU:105:VAL:HG23	2.12	0.49
1:FX:53:ARG:HH12	1:FX:79:THR:HG21	1.76	0.49
1:GB:38:LEU:HG	1:GB:39:PRO:HD2	1.94	0.49
1:GH:38:LEU:HG	1:GH:39:PRO:HD2	1.94	0.49
1:GJ:101:LEU:O	1:GJ:105:VAL:HG23	2.12	0.49
1:GY:101:LEU:O	1:GY:105:VAL:HG23	2.12	0.49
1:HM:103:GLU:HA	1:HM:106:LYS:HD3	1.93	0.49
1:HT:53:ARG:HH12	1:HT:79:THR:HG21	1.76	0.49
1:IB:89:ASP:OD2	1:LN:59:ILE:HD12	2.12	0.49
1:IL:101:LEU:O	1:IL:105:VAL:HG23	2.12	0.49
1:IN:103:GLU:HA	1:IN:106:LYS:HD3	1.93	0.49
1:IS:38:LEU:HD22	1:KM:10:ARG:HH21	1.77	0.49
1:JB:79:THR:HB	1:JB:81:PHE:CE2	2.48	0.49
1:KB:101:LEU:O	1:KB:105:VAL:HG23	2.12	0.49
1:KX:10:ARG:NH1	1:MV:38:LEU:HB2	2.27	0.49
1:KZ:53:ARG:HH12	1:KZ:79:THR:HG21	1.76	0.49
1:LK:103:GLU:HA	1:LK:106:LYS:HD3	1.93	0.49
1:LS:38:LEU:HG	1:LS:39:PRO:HD2	1.94	0.49
1:LS:79:THR:HB	1:LS:81:PHE:CE2	2.48	0.49
1:MI:103:GLU:HA	1:MI:106:LYS:HD3	1.93	0.49
1:MQ:38:LEU:HG	1:MQ:39:PRO:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NH:101:LEU:O	1:NH:105:VAL:HG23	2.12	0.49
1:AD:53:ARG:HH12	1:AD:79:THR:HG21	1.76	0.49
1:AF:90:ARG:NH2	1:DR:113:TYR:CD1	2.81	0.49
1:BF:79:THR:HB	1:BF:81:PHE:CE2	2.48	0.49
1:BP:90:ARG:NH2	1:FB:113:TYR:CG	2.80	0.49
1:BT:21:LEU:HB3	1:BT:22:PRO:HD2	1.93	0.49
1:CK:113:TYR:CG	1:FW:90:ARG:NH2	2.80	0.49
1:DC:113:TYR:CG	1:GO:90:ARG:NH2	2.80	0.49
1:DQ:10:ARG:HH11	1:GV:38:LEU:HB2	1.77	0.49
1:DS:53:ARG:HH12	1:DS:79:THR:HG21	1.76	0.49
1:EC:79:THR:HB	1:EC:81:PHE:CE2	2.48	0.49
1:EQ:53:ARG:HH12	1:EQ:79:THR:HG21	1.76	0.49
1:EU:38:LEU:HD22	1:FH:10:ARG:HH21	1.76	0.49
1:FC:101:LEU:O	1:FC:105:VAL:HG23	2.12	0.49
1:FG:79:THR:HB	1:FG:81:PHE:CE2	2.48	0.49
1:FT:103:GLU:HA	1:FT:106:LYS:HD3	1.93	0.49
1:GZ:39:PRO:HB2	1:GZ:47:GLY:HA3	1.93	0.49
1:HF:38:LEU:HG	1:HF:39:PRO:HD2	1.94	0.49
1:HF:38:LEU:CD2	1:IE:10:ARG:HH21	2.26	0.49
1:HH:99:SER:OG	1:HH:124:GLU:O	2.20	0.49
1:JX:26:VAL:HG21	1:NE:113:TYR:O	2.13	0.49
1:LB:103:GLU:HA	1:LB:106:LYS:HD3	1.93	0.49
1:LD:38:LEU:HG	1:LD:39:PRO:HD2	1.94	0.49
1:LE:103:GLU:HA	1:LE:106:LYS:HD3	1.93	0.49
1:LM:79:THR:HB	1:LM:81:PHE:CE2	2.48	0.49
1:MD:101:LEU:O	1:MD:105:VAL:HG23	2.12	0.49
1:MH:79:THR:HB	1:MH:81:PHE:CE2	2.48	0.49
1:MJ:101:LEU:O	1:MJ:105:VAL:HG23	2.12	0.49
1:MP:101:LEU:O	1:MP:105:VAL:HG23	2.12	0.49
1:MU:103:GLU:HA	1:MU:106:LYS:HD3	1.93	0.49
1:NC:79:THR:HB	1:NC:81:PHE:CE2	2.48	0.49
1:AH:79:THR:HB	1:AH:81:PHE:CE2	2.48	0.49
1:AK:38:LEU:HG	1:AK:39:PRO:HD2	1.94	0.49
1:AM:21:LEU:HB3	1:AM:22:PRO:HD2	1.93	0.49
1:AR:103:GLU:HA	1:AR:106:LYS:HD3	1.93	0.49
1:AZ:39:PRO:HB2	1:AZ:47:GLY:HA3	1.92	0.49
1:AZ:79:THR:HB	1:AZ:81:PHE:CE2	2.48	0.49
1:BB:101:LEU:O	1:BB:105:VAL:HG23	2.12	0.49
1:BI:79:THR:HB	1:BI:81:PHE:CE2	2.48	0.49
1:BL:38:LEU:HG	1:BL:39:PRO:HD2	1.94	0.49
1:BR:79:THR:HB	1:BR:81:PHE:CE2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BX:79:THR:HB	1:BX:81:PHE:CE2	2.48	0.49
1:CA:79:THR:HB	1:CA:81:PHE:CE2	2.48	0.49
1:CD:38:LEU:HG	1:CD:39:PRO:HD2	1.94	0.49
1:CJ:38:LEU:HG	1:CJ:39:PRO:HD2	1.94	0.49
1:CK:103:GLU:HA	1:CK:106:LYS:HD3	1.93	0.49
1:CS:79:THR:HB	1:CS:81:PHE:CE2	2.48	0.49
1:CW:8:LYS:HB2	1:GI:119:ASP:O	2.12	0.49
1:DA:53:ARG:HH12	1:DA:79:THR:HG21	1.76	0.49
1:DE:38:LEU:HG	1:DE:39:PRO:HD2	1.94	0.49
1:DT:79:THR:HB	1:DT:81:PHE:CE2	2.48	0.49
1:EA:103:GLU:HA	1:EA:106:LYS:HD3	1.93	0.49
1:EJ:103:GLU:HA	1:EJ:106:LYS:HD3	1.93	0.49
1:EU:39:PRO:HB2	1:EU:47:GLY:HA3	1.92	0.49
1:FY:79:THR:HB	1:FY:81:PHE:CE2	2.48	0.49
1:GN:38:LEU:HG	1:GN:39:PRO:HD2	1.94	0.49
1:GN:79:THR:HB	1:GN:81:PHE:CE2	2.48	0.49
1:HF:79:THR:HB	1:HF:81:PHE:CE2	2.48	0.49
1:HG:4:ILE:HG12	1:KS:125:ASP:HB2	1.93	0.49
1:IS:38:LEU:HG	1:IS:39:PRO:HD2	1.94	0.49
1:JE:38:LEU:HG	1:JE:39:PRO:HD2	1.94	0.49
1:JQ:38:LEU:HG	1:JQ:39:PRO:HD2	1.94	0.49
1:JR:10:ARG:HH21	1:KC:38:LEU:HD22	1.78	0.49
1:JW:79:THR:HB	1:JW:81:PHE:CE2	2.48	0.49
1:JY:101:LEU:O	1:JY:105:VAL:HG23	2.12	0.49
1:LH:103:GLU:HA	1:LH:106:LYS:HD3	1.93	0.49
1:LM:38:LEU:HG	1:LM:39:PRO:HD2	1.94	0.49
1:LM:38:LEU:HD22	1:MI:10:ARG:HH21	1.77	0.49
1:MA:101:LEU:O	1:MA:105:VAL:HG23	2.12	0.49
1:NR:79:THR:HB	1:NR:81:PHE:CE2	2.48	0.49
1:NV:103:GLU:HA	1:NV:106:LYS:HD3	1.93	0.49
1:AJ:101:LEU:O	1:AJ:105:VAL:HG23	2.12	0.49
1:AK:79:THR:HB	1:AK:81:PHE:CE2	2.48	0.49
1:BE:101:LEU:O	1:BE:105:VAL:HG23	2.12	0.49
1:BK:101:LEU:O	1:BK:105:VAL:HG23	2.12	0.49
1:BL:79:THR:HB	1:BL:81:PHE:CE2	2.48	0.49
1:BM:103:GLU:HA	1:BM:106:LYS:HD3	1.93	0.49
1:BO:79:THR:HB	1:BO:81:PHE:CE2	2.48	0.49
1:BT:53:ARG:HH12	1:BT:79:THR:HG21	1.76	0.49
1:CB:125:ASP:HB2	1:FN:4:ILE:HG13	1.94	0.49
1:CD:79:THR:HB	1:CD:81:PHE:CE2	2.48	0.49
1:CR:21:LEU:HB3	1:CR:22:PRO:HD2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CU:53:ARG:HH12	1:CU:79:THR:HG21	1.77	0.49
1:DQ:38:LEU:HG	1:DQ:39:PRO:HD2	1.94	0.49
1:DV:101:LEU:O	1:DV:105:VAL:HG23	2.12	0.49
1:EB:53:ARG:HH12	1:EB:79:THR:HG21	1.76	0.49
1:EF:79:THR:HB	1:EF:81:PHE:CE2	2.48	0.49
1:EG:103:GLU:HA	1:EG:106:LYS:HD3	1.93	0.49
1:EN:99:SER:OG	1:EN:124:GLU:O	2.20	0.49
1:ER:38:LEU:HG	1:ER:39:PRO:HD2	1.94	0.49
1:FO:101:LEU:O	1:FO:105:VAL:HG23	2.12	0.49
1:FQ:103:GLU:HA	1:FQ:106:LYS:HD3	1.93	0.49
1:GH:79:THR:HB	1:GH:81:PHE:CE2	2.48	0.49
1:HG:103:GLU:HA	1:HG:106:LYS:HD3	1.93	0.49
1:HN:101:LEU:O	1:HN:105:VAL:HG23	2.12	0.49
1:HP:103:GLU:HA	1:HP:106:LYS:HD3	1.93	0.49
1:IC:53:ARG:HH12	1:IC:79:THR:HG21	1.76	0.49
1:IG:10:ARG:HH11	1:IL:38:LEU:HB2	1.77	0.49
1:IH:103:GLU:HA	1:IH:106:LYS:HD3	1.93	0.49
1:IR:101:LEU:O	1:IR:105:VAL:HG23	2.12	0.49
1:JZ:79:THR:HB	1:JZ:81:PHE:CE2	2.48	0.49
1:KC:79:THR:HB	1:KC:81:PHE:CE2	2.48	0.49
1:KF:79:THR:HB	1:KF:81:PHE:CE2	2.48	0.49
1:KK:101:LEU:O	1:KK:105:VAL:HG23	2.12	0.49
1:KL:79:THR:HB	1:KL:81:PHE:CE2	2.48	0.49
1:KO:38:LEU:HG	1:KO:39:PRO:HD2	1.94	0.49
1:LI:101:LEU:O	1:LI:105:VAL:HG23	2.12	0.49
1:LL:101:LEU:O	1:LL:105:VAL:HG23	2.12	0.49
1:MB:79:THR:HB	1:MB:81:PHE:CE2	2.48	0.49
1:MK:38:LEU:HG	1:MK:39:PRO:HD2	1.94	0.49
1:MN:79:THR:HB	1:MN:81:PHE:CE2	2.48	0.49
1:NL:79:THR:HB	1:NL:81:PHE:CE2	2.48	0.49
1:NU:79:THR:HB	1:NU:81:PHE:CE2	2.48	0.49
1:AQ:10:ARG:NH2	1:BT:15:ASP:OD1	2.45	0.49
1:AV:114:SER:HA	1:EG:26:VAL:HG21	1.94	0.49
1:BA:103:GLU:HA	1:BA:106:LYS:HD3	1.93	0.49
1:BI:38:LEU:HG	1:BI:39:PRO:HD2	1.94	0.49
1:BN:101:LEU:O	1:BN:105:VAL:HG23	2.12	0.49
1:CG:38:LEU:HG	1:CG:39:PRO:HD2	1.94	0.49
1:CL:21:LEU:HB3	1:CL:22:PRO:HD2	1.93	0.49
1:CX:53:ARG:HH12	1:CX:79:THR:HG21	1.76	0.49
1:DB:79:THR:HB	1:DB:81:PHE:CE2	2.48	0.49
1:DN:79:THR:HB	1:DN:81:PHE:CE2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DQ:79:THR:HB	1:DQ:81:PHE:CE2	2.48	0.49
1:DR:103:GLU:HA	1:DR:106:LYS:HD3	1.93	0.49
1:EE:53:ARG:HH12	1:EE:79:THR:HG21	1.76	0.49
1:EH:101:LEU:O	1:EH:105:VAL:HG23	2.12	0.49
1:EL:79:THR:HB	1:EL:81:PHE:CE2	2.48	0.49
1:EY:103:GLU:HA	1:EY:106:LYS:HD3	1.93	0.49
1:FE:103:GLU:HA	1:FE:106:LYS:HD3	1.93	0.49
1:FF:53:ARG:HH12	1:FF:79:THR:HG21	1.76	0.49
1:FR:53:ARG:HH12	1:FR:79:THR:HG21	1.76	0.49
1:FV:79:THR:HB	1:FV:81:PHE:CE2	2.48	0.49
1:GJ:99:SER:OG	1:GJ:124:GLU:O	2.20	0.49
1:GW:79:THR:HB	1:GW:81:PHE:CE2	2.48	0.49
1:GY:53:ARG:HH12	1:GY:79:THR:HG21	1.76	0.49
1:HC:79:THR:HB	1:HC:81:PHE:CE2	2.48	0.49
1:HE:101:LEU:O	1:HE:105:VAL:HG23	2.12	0.49
1:HK:101:LEU:O	1:HK:105:VAL:HG23	2.12	0.49
1:HS:26:VAL:HG21	1:LX:114:SER:HA	1.95	0.49
1:IG:79:THR:HB	1:IG:81:PHE:CE2	2.48	0.49
1:IM:10:ARG:NH2	1:KW:15:ASP:OD1	2.46	0.49
1:IS:79:THR:HB	1:IS:81:PHE:CE2	2.48	0.49
1:IW:53:ARG:NH1	1:MI:104:GLU:OE1	2.26	0.49
1:IY:38:LEU:HG	1:IY:39:PRO:HD2	1.94	0.49
1:KN:101:LEU:O	1:KN:105:VAL:HG23	2.12	0.49
1:KU:38:LEU:HG	1:KU:39:PRO:HD2	1.94	0.49
1:KU:79:THR:HB	1:KU:81:PHE:CE2	2.48	0.49
1:KV:103:GLU:HA	1:KV:106:LYS:HD3	1.93	0.49
1:LZ:103:GLU:HA	1:LZ:106:LYS:HD3	1.93	0.49
1:ME:38:LEU:HG	1:ME:39:PRO:HD2	1.94	0.49
1:MM:99:SER:OG	1:MM:124:GLU:O	2.20	0.49
1:MZ:38:LEU:HG	1:MZ:39:PRO:HD2	1.94	0.49
1:MZ:39:PRO:HB2	1:MZ:47:GLY:HA3	1.92	0.49
1:NF:79:THR:HB	1:NF:81:PHE:CE2	2.48	0.49
1:NG:39:PRO:HB2	1:NG:47:GLY:HA3	1.95	0.49
1:AA:101:LEU:O	1:AA:105:VAL:HG23	2.12	0.49
1:AB:79:THR:HB	1:AB:81:PHE:CE2	2.48	0.49
1:AD:21:LEU:HB3	1:AD:22:PRO:HD2	1.93	0.49
1:AH:38:LEU:HG	1:AH:39:PRO:HD2	1.94	0.49
1:AJ:53:ARG:HH12	1:AJ:79:THR:HG21	1.76	0.49
1:AM:38:LEU:HB2	1:FS:10:ARG:HH11	1.76	0.49
1:AW:79:THR:HB	1:AW:81:PHE:CE2	2.48	0.49
1:AY:99:SER:OG	1:AY:124:GLU:O	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:38:LEU:HG	1:BC:39:PRO:HD2	1.94	0.49
1:BC:79:THR:HB	1:BC:81:PHE:CE2	2.48	0.49
1:BD:103:GLU:HA	1:BD:106:LYS:HD3	1.93	0.49
1:BR:38:LEU:HG	1:BR:39:PRO:HD2	1.94	0.49
1:CG:79:THR:HB	1:CG:81:PHE:CE2	2.48	0.49
1:CM:38:LEU:HG	1:CM:39:PRO:HD2	1.93	0.49
1:CP:39:PRO:HB2	1:CP:47:GLY:HA3	1.92	0.49
1:CW:39:PRO:HB2	1:CW:47:GLY:HA3	1.95	0.49
1:DC:112:ALA:O	1:GO:49:VAL:HG11	2.12	0.49
1:DG:101:LEU:O	1:DG:105:VAL:HG23	2.12	0.49
1:DK:79:THR:HB	1:DK:81:PHE:CE2	2.48	0.49
1:DS:101:LEU:O	1:DS:105:VAL:HG23	2.12	0.49
1:EI:79:THR:HB	1:EI:81:PHE:CE2	2.48	0.49
1:FF:101:LEU:O	1:FF:105:VAL:HG23	2.12	0.49
1:FS:38:LEU:HG	1:FS:39:PRO:HD2	1.94	0.49
1:GE:79:THR:HB	1:GE:81:PHE:CE2	2.48	0.49
1:GT:79:THR:HB	1:GT:81:PHE:CE2	2.48	0.49
1:JE:79:THR:HB	1:JE:81:PHE:CE2	2.48	0.49
1:JG:53:ARG:HH12	1:JG:79:THR:HG21	1.77	0.49
1:JH:79:THR:HB	1:JH:81:PHE:CE2	2.48	0.49
1:JJ:38:LEU:HB2	1:KF:10:ARG:HH11	1.78	0.49
1:JS:101:LEU:O	1:JS:105:VAL:HG23	2.12	0.49
1:JT:79:THR:HB	1:JT:81:PHE:CE2	2.48	0.49
1:JV:101:LEU:O	1:JV:105:VAL:HG23	2.12	0.49
1:JZ:38:LEU:HG	1:JZ:39:PRO:HD2	1.94	0.49
1:KI:79:THR:HB	1:KI:81:PHE:CE2	2.48	0.49
1:KJ:103:GLU:HA	1:KJ:106:LYS:HD3	1.93	0.49
1:KW:101:LEU:O	1:KW:105:VAL:HG23	2.12	0.49
1:KZ:101:LEU:O	1:KZ:105:VAL:HG23	2.12	0.49
1:LN:39:PRO:HB2	1:LN:47:GLY:HA3	1.95	0.49
1:NE:101:LEU:O	1:NE:105:VAL:HG23	2.12	0.49
1:NI:79:THR:HB	1:NI:81:PHE:CE2	2.48	0.49
1:NK:99:SER:OG	1:NK:124:GLU:O	2.20	0.49
1:NO:79:THR:HB	1:NO:81:PHE:CE2	2.48	0.49
1:AC:26:VAL:HG21	1:FX:113:TYR:O	2.13	0.49
1:AT:79:THR:HB	1:AT:81:PHE:CE2	2.48	0.49
1:CE:80:SER:HB2	1:FQ:74:VAL:CG2	2.40	0.49
1:CN:130:GLU:HA	1:FZ:106:LYS:NZ	2.28	0.49
1:CQ:103:GLU:HA	1:CQ:106:LYS:HD3	1.93	0.49
1:CV:79:THR:HB	1:CV:81:PHE:CE2	2.48	0.49
1:DA:101:LEU:O	1:DA:105:VAL:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DW:79:THR:HB	1:DW:81:PHE:CE2	2.48	0.49
1:FN:39:PRO:HB2	1:FN:47:GLY:HA3	1.95	0.49
1:FP:79:THR:HB	1:FP:81:PHE:CE2	2.48	0.49
1:FS:79:THR:HB	1:FS:81:PHE:CE2	2.48	0.49
1:FT:26:VAL:HG21	1:GP:114:SER:HA	1.94	0.49
1:GE:38:LEU:HG	1:GE:39:PRO:HD2	1.94	0.49
1:GZ:38:LEU:HG	1:GZ:39:PRO:HD2	1.94	0.49
1:HI:79:THR:HB	1:HI:81:PHE:CE2	2.48	0.49
1:HL:79:THR:HB	1:HL:81:PHE:CE2	2.48	0.49
1:HP:92:GLU:CD	1:LB:57:LYS:HZ3	2.15	0.49
1:HX:79:THR:HB	1:HX:81:PHE:CE2	2.48	0.49
1:IJ:38:LEU:HG	1:IJ:39:PRO:HD2	1.94	0.49
1:IO:53:ARG:HH12	1:IO:79:THR:HG21	1.76	0.49
1:IT:59:ILE:HD12	1:MF:89:ASP:OD2	2.13	0.49
1:IY:79:THR:HB	1:IY:81:PHE:CE2	2.48	0.49
1:JF:75:ILE:CD1	1:MR:97:MET:HG2	2.43	0.49
1:KA:106:LYS:NZ	1:NM:129:THR:O	2.45	0.49
1:KF:38:LEU:HG	1:KF:39:PRO:HD2	1.94	0.49
1:KO:79:THR:HB	1:KO:81:PHE:CE2	2.48	0.49
1:KR:79:THR:HB	1:KR:81:PHE:CE2	2.48	0.49
1:KX:79:THR:HB	1:KX:81:PHE:CE2	2.48	0.49
1:LG:26:VAL:HG11	1:LM:113:TYR:O	2.13	0.49
1:LT:103:GLU:HA	1:LT:106:LYS:HD3	1.93	0.49
1:LV:79:THR:HB	1:LV:81:PHE:CE2	2.48	0.49
1:MM:101:LEU:O	1:MM:105:VAL:HG23	2.12	0.49
1:MQ:79:THR:HB	1:MQ:81:PHE:CE2	2.48	0.49
1:AE:79:THR:HB	1:AE:81:PHE:CE2	2.48	0.49
1:AF:39:PRO:HB2	1:AF:47:GLY:HA3	1.95	0.49
1:AF:103:GLU:HA	1:AF:106:LYS:HD3	1.93	0.49
1:AO:103:GLU:HA	1:AO:106:LYS:HD3	1.93	0.49
1:AW:15:ASP:OD1	1:EG:10:ARG:NH1	2.45	0.49
1:BT:101:LEU:O	1:BT:105:VAL:HG23	2.12	0.49
1:CE:10:ARG:HH21	1:CS:38:LEU:HD22	1.77	0.49
1:CY:79:THR:HB	1:CY:81:PHE:CE2	2.48	0.49
1:DK:38:LEU:HG	1:DK:39:PRO:HD2	1.94	0.49
1:DT:38:LEU:HG	1:DT:39:PRO:HD2	1.94	0.49
1:DV:116:TYR:HH	1:GF:20:THR:HG1	1.58	0.49
1:DY:53:ARG:HH12	1:DY:79:THR:HG21	1.77	0.49
1:ER:79:THR:HB	1:ER:81:PHE:CE2	2.48	0.49
1:GM:101:LEU:O	1:GM:105:VAL:HG23	2.12	0.49
1:GX:103:GLU:HA	1:GX:106:LYS:HD3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GY:99:SER:OG	1:GY:124:GLU:O	2.20	0.49
1:HD:90:ARG:NH2	1:KP:113:TYR:CD1	2.81	0.49
1:HO:38:LEU:HG	1:HO:39:PRO:HD2	1.94	0.49
1:HP:39:PRO:HB2	1:HP:47:GLY:HA3	1.95	0.49
1:ID:79:THR:HB	1:ID:81:PHE:CE2	2.48	0.49
1:IW:103:GLU:HA	1:IW:106:LYS:HD3	1.93	0.49
1:JN:79:THR:HB	1:JN:81:PHE:CE2	2.48	0.49
1:KD:92:GLU:CD	1:NP:57:LYS:HZ3	2.16	0.49
1:KR:10:ARG:NH1	1:NN:38:LEU:HB2	2.28	0.49
1:LG:38:LEU:HG	1:LG:39:PRO:HD2	1.94	0.49
1:LH:39:PRO:HB2	1:LH:47:GLY:HA3	1.95	0.49
1:LY:79:THR:HB	1:LY:81:PHE:CE2	2.48	0.49
1:MB:53:ARG:HH22	1:MB:79:THR:HG21	1.78	0.49
1:NV:39:PRO:HB2	1:NV:47:GLY:HA3	1.95	0.49
1:AJ:113:TYR:O	1:BY:26:VAL:HG21	2.13	0.49
1:AQ:79:THR:HB	1:AQ:81:PHE:CE2	2.48	0.49
1:BC:53:ARG:HH22	1:BC:79:THR:HG21	1.78	0.49
1:BG:39:PRO:HB2	1:BG:47:GLY:HA3	1.95	0.49
1:CH:112:ALA:O	1:FT:49:VAL:HG11	2.13	0.49
1:CJ:53:ARG:HH22	1:CJ:79:THR:HG21	1.78	0.49
1:CQ:92:GLU:CD	1:GC:57:LYS:HZ3	2.14	0.49
1:DD:101:LEU:O	1:DD:105:VAL:HG23	2.12	0.49
1:DF:103:GLU:HA	1:DF:106:LYS:HD3	1.93	0.49
1:DP:53:ARG:HH12	1:DP:79:THR:HG21	1.76	0.49
1:EB:101:LEU:O	1:EB:105:VAL:HG23	2.12	0.49
1:EL:53:ARG:HH22	1:EL:79:THR:HG21	1.78	0.49
1:EO:53:ARG:HH22	1:EO:79:THR:HG21	1.78	0.49
1:EV:39:PRO:HB2	1:EV:47:GLY:HA3	1.95	0.49
1:EX:53:ARG:HH22	1:EX:79:THR:HG21	1.78	0.49
1:EZ:53:ARG:HH12	1:EZ:79:THR:HG21	1.76	0.49
1:FA:53:ARG:HH22	1:FA:79:THR:HG21	1.78	0.49
1:FK:103:GLU:HA	1:FK:106:LYS:HD3	1.93	0.49
1:FP:53:ARG:HH22	1:FP:79:THR:HG21	1.78	0.49
1:FV:53:ARG:HH22	1:FV:79:THR:HG21	1.78	0.49
1:GT:53:ARG:HH22	1:GT:79:THR:HG21	1.78	0.49
1:GW:53:ARG:HH22	1:GW:79:THR:HG21	1.78	0.49
1:HR:53:ARG:HH22	1:HR:79:THR:HG21	1.78	0.49
1:HU:79:THR:HB	1:HU:81:PHE:CE2	2.48	0.49
1:IA:79:THR:HB	1:IA:81:PHE:CE2	2.48	0.49
1:IG:53:ARG:HH22	1:IG:79:THR:HG21	1.78	0.49
1:IP:38:LEU:HG	1:IP:39:PRO:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IS:53:ARG:HH22	1:IS:79:THR:HG21	1.78	0.49
1:IT:39:PRO:HB2	1:IT:47:GLY:HA3	1.95	0.49
1:JJ:38:LEU:HB2	1:KF:10:ARG:NH1	2.28	0.49
1:JW:53:ARG:HH22	1:JW:79:THR:HG21	1.78	0.49
1:JX:39:PRO:HB2	1:JX:47:GLY:HA3	1.95	0.49
1:LA:79:THR:HB	1:LA:81:PHE:CE2	2.48	0.49
1:LP:38:LEU:HG	1:LP:39:PRO:HD2	1.94	0.49
1:LZ:39:PRO:HB2	1:LZ:47:GLY:HA3	1.95	0.49
1:ME:79:THR:HB	1:ME:81:PHE:CE2	2.48	0.49
1:MG:53:ARG:HH12	1:MG:79:THR:HG21	1.77	0.49
1:MT:79:THR:HB	1:MT:81:PHE:CE2	2.48	0.49
1:MW:53:ARG:HH22	1:MW:79:THR:HG21	1.78	0.49
1:NO:38:LEU:HG	1:NO:39:PRO:HD2	1.94	0.49
1:NP:39:PRO:HB2	1:NP:47:GLY:HA3	1.95	0.49
1:NP:103:GLU:HA	1:NP:106:LYS:HD3	1.93	0.49
1:NS:103:GLU:HA	1:NS:106:LYS:HD3	1.93	0.49
1:NU:38:LEU:HG	1:NU:39:PRO:HD2	1.94	0.49
1:AE:38:LEU:HG	1:AE:39:PRO:HD2	1.94	0.48
1:AO:39:PRO:HB2	1:AO:47:GLY:HA3	1.95	0.48
1:AT:53:ARG:HH22	1:AT:79:THR:HG21	1.78	0.48
1:AV:101:LEU:O	1:AV:105:VAL:HG23	2.12	0.48
1:BL:53:ARG:HH22	1:BL:79:THR:HG21	1.78	0.48
1:BR:53:ARG:HH22	1:BR:79:THR:HG21	1.78	0.48
1:BU:38:LEU:HG	1:BU:39:PRO:HD2	1.94	0.48
1:CA:38:LEU:HG	1:CA:39:PRO:HD2	1.94	0.48
1:CM:79:THR:HB	1:CM:81:PHE:CE2	2.48	0.48
1:CN:105:VAL:HG22	1:FZ:94:LEU:HD13	1.95	0.48
1:CV:38:LEU:HD22	1:DI:10:ARG:HH21	1.78	0.48
1:DB:53:ARG:HH22	1:DB:79:THR:HG21	1.78	0.48
1:DH:79:THR:HB	1:DH:81:PHE:CE2	2.48	0.48
1:DJ:101:LEU:O	1:DJ:105:VAL:HG23	2.12	0.48
1:DT:53:ARG:HH22	1:DT:79:THR:HG21	1.78	0.48
1:DZ:53:ARG:HH22	1:DZ:79:THR:HG21	1.78	0.48
1:FD:79:THR:HB	1:FD:81:PHE:CE2	2.48	0.48
1:FM:79:THR:HB	1:FM:81:PHE:CE2	2.48	0.48
1:GK:79:THR:HB	1:GK:81:PHE:CE2	2.48	0.48
1:GQ:79:THR:HB	1:GQ:81:PHE:CE2	2.48	0.48
1:HC:53:ARG:HH22	1:HC:79:THR:HG21	1.78	0.48
1:HE:53:ARG:HH12	1:HE:79:THR:HG21	1.76	0.48
1:IV:79:THR:HB	1:IV:81:PHE:CE2	2.48	0.48
1:JL:80:SER:HB2	1:MX:74:VAL:CG2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JT:53:ARG:HH22	1:JT:79:THR:HG21	1.78	0.48
1:KK:53:ARG:HH12	1:KK:79:THR:HG21	1.77	0.48
1:KL:38:LEU:HD22	1:NS:10:ARG:HH21	1.78	0.48
1:KW:53:ARG:HH12	1:KW:79:THR:HG21	1.76	0.48
1:LA:38:LEU:HG	1:LA:39:PRO:HD2	1.94	0.48
1:LA:53:ARG:HH22	1:LA:79:THR:HG21	1.78	0.48
1:LD:79:THR:HB	1:LD:81:PHE:CE2	2.48	0.48
1:LV:53:ARG:HH22	1:LV:79:THR:HG21	1.78	0.48
1:MA:53:ARG:HH12	1:MA:79:THR:HG21	1.76	0.48
1:MK:53:ARG:HH22	1:MK:79:THR:HG21	1.78	0.48
1:MR:103:GLU:HA	1:MR:106:LYS:HD3	1.93	0.48
1:MY:53:ARG:HH12	1:MY:79:THR:HG21	1.76	0.48
1:NB:101:LEU:O	1:NB:105:VAL:HG23	2.12	0.48
1:NI:53:ARG:HH22	1:NI:79:THR:HG21	1.78	0.48
1:NT:53:ARG:HH12	1:NT:79:THR:HG21	1.76	0.48
1:BP:39:PRO:HB2	1:BP:47:GLY:HA3	1.95	0.48
1:CR:53:ARG:HH12	1:CR:79:THR:HG21	1.76	0.48
1:CY:53:ARG:HH22	1:CY:79:THR:HG21	1.78	0.48
1:ED:39:PRO:HB2	1:ED:47:GLY:HA3	1.95	0.48
1:EF:53:ARG:HH22	1:EF:79:THR:HG21	1.78	0.48
1:EO:79:THR:HB	1:EO:81:PHE:CE2	2.48	0.48
1:ES:39:PRO:HB2	1:ES:47:GLY:HA3	1.95	0.48
1:ES:103:GLU:HA	1:ES:106:LYS:HD3	1.93	0.48
1:FE:39:PRO:HB2	1:FE:47:GLY:HA3	1.95	0.48
1:FS:113:TYR:O	1:GQ:26:VAL:HG11	2.11	0.48
1:GC:103:GLU:HA	1:GC:106:LYS:HD3	1.93	0.48
1:GF:39:PRO:HB2	1:GF:47:GLY:HA3	1.95	0.48
1:GL:39:PRO:HB2	1:GL:47:GLY:HA3	1.95	0.48
1:GQ:53:ARG:HH22	1:GQ:79:THR:HG21	1.78	0.48
1:HG:125:ASP:HB2	1:KS:4:ILE:HG12	1.94	0.48
1:HZ:101:LEU:O	1:HZ:105:VAL:HG23	2.12	0.48
1:IJ:79:THR:HB	1:IJ:81:PHE:CE2	2.48	0.48
1:IR:53:ARG:HH12	1:IR:79:THR:HG21	1.76	0.48
1:JC:106:LYS:NZ	1:MO:129:THR:C	2.66	0.48
1:JQ:79:THR:HB	1:JQ:81:PHE:CE2	2.48	0.48
1:JU:39:PRO:HB2	1:JU:47:GLY:HA3	1.95	0.48
1:KI:53:ARG:HH22	1:KI:79:THR:HG21	1.78	0.48
1:LG:53:ARG:HH22	1:LG:79:THR:HG21	1.78	0.48
1:NR:53:ARG:HH22	1:NR:79:THR:HG21	1.78	0.48
1:AB:53:ARG:HH22	1:AB:79:THR:HG21	1.78	0.48
1:AI:39:PRO:HB2	1:AI:47:GLY:HA3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:53:ARG:HH22	1:AN:79:THR:HG21	1.78	0.48
1:AZ:53:ARG:HH22	1:AZ:79:THR:HG21	1.78	0.48
1:BJ:39:PRO:HB2	1:BJ:47:GLY:HA3	1.95	0.48
1:BZ:101:LEU:O	1:BZ:105:VAL:HG23	2.12	0.48
1:CT:90:ARG:NH2	1:GF:113:TYR:CG	2.80	0.48
1:DE:79:THR:HB	1:DE:81:PHE:CE2	2.48	0.48
1:DZ:38:LEU:HG	1:DZ:39:PRO:HD2	1.94	0.48
1:EP:39:PRO:HB2	1:EP:47:GLY:HA3	1.95	0.48
1:EX:79:THR:HB	1:EX:81:PHE:CE2	2.48	0.48
1:FP:38:LEU:HG	1:FP:39:PRO:HD2	1.94	0.48
1:FS:53:ARG:HH22	1:FS:79:THR:HG21	1.78	0.48
1:GA:53:ARG:HH12	1:GA:79:THR:HG21	1.76	0.48
1:GZ:53:ARG:HH22	1:GZ:79:THR:HG21	1.78	0.48
1:HD:10:ARG:HH21	1:MZ:38:LEU:HD22	1.79	0.48
1:HG:57:LYS:HZ1	1:KS:92:GLU:CD	2.15	0.48
1:HH:101:LEU:O	1:HH:105:VAL:HG23	2.12	0.48
1:HJ:103:GLU:HA	1:HJ:106:LYS:HD3	1.93	0.48
1:IG:38:LEU:CD2	1:IN:10:ARG:HH21	2.27	0.48
1:IH:101:LEU:HD22	1:LT:94:LEU:HD22	1.94	0.48
1:IZ:74:VAL:CG2	1:ML:80:SER:HB2	2.40	0.48
1:KE:53:ARG:HH12	1:KE:79:THR:HG21	1.76	0.48
1:KJ:39:PRO:HB2	1:KJ:47:GLY:HA3	1.95	0.48
1:KS:103:GLU:HA	1:KS:106:LYS:HD3	1.93	0.48
1:LD:53:ARG:HH22	1:LD:79:THR:HG21	1.78	0.48
1:LP:79:THR:HB	1:LP:81:PHE:CE2	2.48	0.48
1:LQ:39:PRO:HB2	1:LQ:47:GLY:HA3	1.95	0.48
1:MH:53:ARG:HH22	1:MH:79:THR:HG21	1.78	0.48
1:AN:38:LEU:HG	1:AN:39:PRO:HD2	1.93	0.48
1:AX:39:PRO:HB2	1:AX:47:GLY:HA3	1.95	0.48
1:BA:39:PRO:HB2	1:BA:47:GLY:HA3	1.95	0.48
1:BU:53:ARG:HH22	1:BU:79:THR:HG21	1.78	0.48
1:BU:79:THR:HB	1:BU:81:PHE:CE2	2.48	0.48
1:BX:53:ARG:HH22	1:BX:79:THR:HG21	1.78	0.48
1:BY:39:PRO:HB2	1:BY:47:GLY:HA3	1.95	0.48
1:CB:53:ARG:NH1	1:FN:104:GLU:OE1	2.37	0.48
1:CB:57:LYS:HZ1	1:FN:92:GLU:CD	2.17	0.48
1:CJ:79:THR:HB	1:CJ:81:PHE:CE2	2.48	0.48
1:CU:101:LEU:O	1:CU:105:VAL:HG23	2.12	0.48
1:DW:53:ARG:HH22	1:DW:79:THR:HG21	1.78	0.48
1:EH:53:ARG:HH12	1:EH:79:THR:HG21	1.76	0.48
1:FJ:53:ARG:HH22	1:FJ:79:THR:HG21	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:79:THR:HB	1:GB:81:PHE:CE2	2.48	0.48
1:GI:39:PRO:HB2	1:GI:47:GLY:HA3	1.95	0.48
1:HR:79:THR:HB	1:HR:81:PHE:CE2	2.48	0.48
1:HS:103:GLU:HA	1:HS:106:LYS:HD3	1.93	0.48
1:IA:10:ARG:NH2	1:IO:15:ASP:OD1	2.46	0.48
1:JC:39:PRO:HB2	1:JC:47:GLY:HA3	1.95	0.48
1:JP:101:LEU:O	1:JP:105:VAL:HG23	2.12	0.48
1:JQ:53:ARG:HH22	1:JQ:79:THR:HG21	1.78	0.48
1:JR:103:GLU:HA	1:JR:106:LYS:HD3	1.93	0.48
1:KV:39:PRO:HB2	1:KV:47:GLY:HA3	1.95	0.48
1:KY:39:PRO:HB2	1:KY:47:GLY:HA3	1.95	0.48
1:LJ:79:THR:HB	1:LJ:81:PHE:CE2	2.48	0.48
1:LS:53:ARG:HH22	1:LS:79:THR:HG21	1.78	0.48
1:LU:101:LEU:O	1:LU:105:VAL:HG23	2.12	0.48
1:LX:101:LEU:O	1:LX:105:VAL:HG23	2.12	0.48
1:NM:39:PRO:HB2	1:NM:47:GLY:HA3	1.95	0.48
1:BQ:101:LEU:O	1:BQ:105:VAL:HG23	2.12	0.48
1:CH:57:LYS:HZ3	1:FT:92:GLU:CD	2.17	0.48
1:DC:90:ARG:NH2	1:GO:113:TYR:CD1	2.81	0.48
1:DI:39:PRO:HB2	1:DI:47:GLY:HA3	1.95	0.48
1:DM:99:SER:OG	1:DM:124:GLU:O	2.20	0.48
1:DQ:53:ARG:HH22	1:DQ:79:THR:HG21	1.78	0.48
1:EC:53:ARG:HH22	1:EC:79:THR:HG21	1.78	0.48
1:EF:10:ARG:HH11	1:ET:38:LEU:HB2	1.78	0.48
1:EM:39:PRO:HB2	1:EM:47:GLY:HA3	1.95	0.48
1:EU:53:ARG:HH22	1:EU:79:THR:HG21	1.78	0.48
1:GZ:79:THR:HB	1:GZ:81:PHE:CE2	2.48	0.48
1:HS:53:ARG:NH1	1:LE:104:GLU:OE1	2.38	0.48
1:IK:92:GLU:CD	1:LW:57:LYS:HZ3	2.16	0.48
1:IP:79:THR:HB	1:IP:81:PHE:CE2	2.48	0.48
1:JK:79:THR:HB	1:JK:81:PHE:CE2	2.48	0.48
1:JY:38:LEU:HB2	1:NI:10:ARG:NH1	2.29	0.48
1:KL:53:ARG:HH22	1:KL:79:THR:HG21	1.78	0.48
1:KR:53:ARG:HH22	1:KR:79:THR:HG21	1.78	0.48
1:MK:79:THR:HB	1:MK:81:PHE:CE2	2.48	0.48
1:MW:79:THR:HB	1:MW:81:PHE:CE2	2.48	0.48
1:NJ:39:PRO:HB2	1:NJ:47:GLY:HA3	1.95	0.48
1:NT:101:LEU:O	1:NT:105:VAL:HG23	2.12	0.48
1:AL:10:ARG:HH21	1:FP:38:LEU:CD2	2.26	0.48
1:BA:8:LYS:HB2	1:EM:119:ASP:O	2.13	0.48
1:BG:119:ASP:O	1:ES:8:LYS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:113:TYR:O	1:BP:26:VAL:HG21	2.14	0.48
1:BJ:57:LYS:HZ3	1:EV:92:GLU:CD	2.17	0.48
1:CN:39:PRO:HB2	1:CN:47:GLY:HA3	1.95	0.48
1:CP:79:THR:HB	1:CP:81:PHE:CE2	2.48	0.48
1:CP:113:TYR:O	1:DK:26:VAL:HG21	2.14	0.48
1:CT:39:PRO:HB2	1:CT:47:GLY:HA3	1.95	0.48
1:CT:80:SER:HB2	1:GF:74:VAL:HG22	1.95	0.48
1:DC:26:VAL:HG21	1:GJ:114:SER:HA	1.95	0.48
1:DH:53:ARG:HH22	1:DH:79:THR:HG21	1.78	0.48
1:DN:53:ARG:HH22	1:DN:79:THR:HG21	1.78	0.48
1:EI:53:ARG:HH22	1:EI:79:THR:HG21	1.78	0.48
1:FJ:79:THR:HB	1:FJ:81:PHE:CE2	2.48	0.48
1:GG:101:LEU:O	1:GG:105:VAL:HG23	2.12	0.48
1:GP:53:ARG:HH12	1:GP:79:THR:HG21	1.76	0.48
1:GU:39:PRO:HB2	1:GU:47:GLY:HA3	1.95	0.48
1:HF:53:ARG:HH22	1:HF:79:THR:HG21	1.78	0.48
1:HI:53:ARG:HH22	1:HI:79:THR:HG21	1.78	0.48
1:IM:53:ARG:HH22	1:IM:79:THR:HG21	1.78	0.48
1:IY:53:ARG:HH22	1:IY:79:THR:HG21	1.78	0.48
1:JL:92:GLU:CD	1:MX:57:LYS:HZ3	2.17	0.48
1:KJ:125:ASP:HB2	1:NV:4:ILE:CG1	2.42	0.48
1:MM:38:LEU:HB2	1:NU:10:ARG:NH1	2.29	0.48
1:MZ:79:THR:HB	1:MZ:81:PHE:CE2	2.48	0.48
1:AH:86:THR:HG22	1:AH:88:GLU:H	1.79	0.48
1:BA:92:GLU:CD	1:EM:57:LYS:HZ3	2.17	0.48
1:BD:129:THR:O	1:EP:106:LYS:NZ	2.46	0.48
1:CG:53:ARG:HH22	1:CG:79:THR:HG21	1.78	0.48
1:DQ:10:ARG:NH1	1:GV:38:LEU:HB2	2.29	0.48
1:DR:39:PRO:HB2	1:DR:47:GLY:HA3	1.95	0.48
1:EF:26:VAL:HG21	1:EU:113:TYR:O	2.13	0.48
1:FQ:39:PRO:HB2	1:FQ:47:GLY:HA3	1.95	0.48
1:GN:53:ARG:HH22	1:GN:79:THR:HG21	1.78	0.48
1:HV:90:ARG:NH2	1:LH:113:TYR:CG	2.82	0.48
1:HX:86:THR:HG22	1:HX:88:GLU:H	1.79	0.48
1:HY:39:PRO:HB2	1:HY:47:GLY:HA3	1.95	0.48
1:IB:39:PRO:HB2	1:IB:47:GLY:HA3	1.95	0.48
1:JB:53:ARG:HH22	1:JB:79:THR:HG21	1.78	0.48
1:JC:49:VAL:CG1	1:MO:112:ALA:O	2.60	0.48
1:JF:103:GLU:HA	1:JF:106:LYS:HD3	1.93	0.48
1:JL:26:VAL:HG21	1:KE:113:TYR:O	2.14	0.48
1:KC:53:ARG:HH22	1:KC:79:THR:HG21	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:39:PRO:HB2	1:KD:47:GLY:HA3	1.95	0.48
1:KO:53:ARG:HH22	1:KO:79:THR:HG21	1.78	0.48
1:KU:53:ARG:HH22	1:KU:79:THR:HG21	1.78	0.48
1:MC:39:PRO:HB2	1:MC:47:GLY:HA3	1.95	0.48
1:MO:39:PRO:HB2	1:MO:47:GLY:HA3	1.95	0.48
1:MR:39:PRO:HB2	1:MR:47:GLY:HA3	1.95	0.48
1:AB:10:ARG:HH11	1:BH:38:LEU:HB2	1.77	0.48
1:AL:39:PRO:HB2	1:AL:47:GLY:HA3	1.95	0.48
1:AN:79:THR:HB	1:AN:81:PHE:CE2	2.48	0.48
1:AT:101:LEU:O	1:AT:105:VAL:HG23	2.14	0.48
1:BC:86:THR:HG22	1:BC:88:GLU:H	1.79	0.48
1:BV:104:GLU:OE1	1:FH:53:ARG:NH1	2.35	0.48
1:CA:86:THR:HG22	1:CA:88:GLU:H	1.79	0.48
1:CD:86:THR:HG22	1:CD:88:GLU:H	1.79	0.48
1:CK:39:PRO:HB2	1:CK:47:GLY:HA3	1.95	0.48
1:CV:53:ARG:HH22	1:CV:79:THR:HG21	1.78	0.48
1:DE:86:THR:HG22	1:DE:88:GLU:H	1.79	0.48
1:DL:39:PRO:HB2	1:DL:47:GLY:HA3	1.95	0.48
1:DN:86:THR:HG22	1:DN:88:GLU:H	1.79	0.48
1:FA:79:THR:HB	1:FA:81:PHE:CE2	2.48	0.48
1:FE:26:VAL:HG21	1:FF:113:TYR:O	2.13	0.48
1:FH:39:PRO:HB2	1:FH:47:GLY:HA3	1.95	0.48
1:FT:39:PRO:HB2	1:FT:47:GLY:HA3	1.95	0.48
1:FX:99:SER:OG	1:FX:124:GLU:O	2.20	0.48
1:GS:99:SER:OG	1:GS:124:GLU:O	2.20	0.48
1:GX:39:PRO:HB2	1:GX:47:GLY:HA3	1.95	0.48
1:HL:86:THR:HG22	1:HL:88:GLU:H	1.79	0.48
1:HO:79:THR:HB	1:HO:81:PHE:CE2	2.48	0.48
1:HR:66:ALA:HB1	1:LJ:66:ALA:CB	2.44	0.48
1:IA:101:LEU:O	1:IA:105:VAL:HG23	2.14	0.48
1:IJ:53:ARG:HH22	1:IJ:79:THR:HG21	1.78	0.48
1:IS:86:THR:HG22	1:IS:88:GLU:H	1.79	0.48
1:JE:10:ARG:NH1	1:NK:38:LEU:HB2	2.28	0.48
1:JE:101:LEU:O	1:JE:105:VAL:HG23	2.14	0.48
1:JN:86:THR:HG22	1:JN:88:GLU:H	1.79	0.48
1:JO:59:ILE:HD12	1:NA:89:ASP:OD2	2.13	0.48
1:JV:99:SER:OG	1:JV:124:GLU:O	2.20	0.48
1:KL:86:THR:HG22	1:KL:88:GLU:H	1.79	0.48
1:KR:86:THR:HG22	1:KR:88:GLU:H	1.79	0.48
1:KX:53:ARG:HH22	1:KX:79:THR:HG21	1.78	0.48
1:LG:79:THR:HB	1:LG:81:PHE:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LP:53:ARG:HH22	1:LP:79:THR:HG21	1.78	0.48
1:LY:86:THR:HG22	1:LY:88:GLU:H	1.79	0.48
1:ME:101:LEU:O	1:ME:105:VAL:HG23	2.14	0.48
1:ML:39:PRO:HB2	1:ML:47:GLY:HA3	1.95	0.48
1:NO:53:ARG:HH22	1:NO:79:THR:HG21	1.78	0.48
1:NS:39:PRO:HB2	1:NS:47:GLY:HA3	1.95	0.48
1:AB:101:LEU:O	1:AB:105:VAL:HG23	2.14	0.48
1:BM:39:PRO:HB2	1:BM:47:GLY:HA3	1.95	0.48
1:CY:86:THR:HG22	1:CY:88:GLU:H	1.79	0.48
1:DB:101:LEU:O	1:DB:105:VAL:HG23	2.14	0.48
1:DC:8:LYS:HB2	1:GO:119:ASP:O	2.12	0.48
1:DK:53:ARG:HH22	1:DK:79:THR:HG21	1.78	0.48
1:EJ:39:PRO:HB2	1:EJ:47:GLY:HA3	1.95	0.48
1:FD:101:LEU:O	1:FD:105:VAL:HG23	2.14	0.48
1:FG:101:LEU:O	1:FG:105:VAL:HG23	2.14	0.48
1:FK:39:PRO:HB2	1:FK:47:GLY:HA3	1.95	0.48
1:FP:101:LEU:O	1:FP:105:VAL:HG23	2.14	0.48
1:GB:53:ARG:HH22	1:GB:79:THR:HG21	1.78	0.48
1:GE:101:LEU:O	1:GE:105:VAL:HG23	2.14	0.48
1:GT:101:LEU:O	1:GT:105:VAL:HG23	2.14	0.48
1:HF:101:LEU:O	1:HF:105:VAL:HG23	2.14	0.48
1:HG:39:PRO:HB2	1:HG:47:GLY:HA3	1.95	0.48
1:HG:80:SER:HB2	1:KS:74:VAL:HG22	1.96	0.48
1:ID:53:ARG:HH22	1:ID:79:THR:HG21	1.78	0.48
1:IM:79:THR:HB	1:IM:81:PHE:CE2	2.48	0.48
1:IM:101:LEU:O	1:IM:105:VAL:HG23	2.14	0.48
1:IY:86:THR:HG22	1:IY:88:GLU:H	1.79	0.48
1:JB:86:THR:HG22	1:JB:88:GLU:H	1.79	0.48
1:JC:83:VAL:HA	1:MO:113:TYR:HE1	1.78	0.48
1:JW:101:LEU:O	1:JW:105:VAL:HG23	2.14	0.48
1:KC:101:LEU:O	1:KC:105:VAL:HG23	2.14	0.48
1:LY:53:ARG:HH22	1:LY:79:THR:HG21	1.78	0.48
1:MB:38:LEU:HG	1:MB:39:PRO:HD2	1.94	0.48
1:MI:39:PRO:HB2	1:MI:47:GLY:HA3	1.95	0.48
1:MN:53:ARG:HH22	1:MN:79:THR:HG21	1.78	0.48
1:MQ:101:LEU:O	1:MQ:105:VAL:HG23	2.14	0.48
1:MZ:53:ARG:HH22	1:MZ:79:THR:HG21	1.78	0.48
1:NI:101:LEU:O	1:NI:105:VAL:HG23	2.14	0.48
1:NU:101:LEU:O	1:NU:105:VAL:HG23	2.14	0.48
1:AE:86:THR:HG22	1:AE:88:GLU:H	1.79	0.48
1:AK:53:ARG:HH22	1:AK:79:THR:HG21	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:113:TYR:O	1:FV:26:VAL:HG21	2.12	0.48
1:BI:86:THR:HG22	1:BI:88:GLU:H	1.79	0.48
1:BO:53:ARG:HH22	1:BO:79:THR:HG21	1.78	0.48
1:CB:116:TYR:CD1	1:FL:9:LEU:HA	2.49	0.48
1:CG:86:THR:HG22	1:CG:88:GLU:H	1.79	0.48
1:DF:39:PRO:HB2	1:DF:47:GLY:HA3	1.95	0.48
1:DJ:99:SER:OG	1:DJ:124:GLU:O	2.20	0.48
1:DU:39:PRO:HB2	1:DU:47:GLY:HA3	1.95	0.48
1:EC:101:LEU:O	1:EC:105:VAL:HG23	2.14	0.48
1:EI:101:LEU:O	1:EI:105:VAL:HG23	2.14	0.48
1:FJ:86:THR:HG22	1:FJ:88:GLU:H	1.79	0.48
1:FY:86:THR:HG22	1:FY:88:GLU:H	1.79	0.48
1:GN:86:THR:HG22	1:GN:88:GLU:H	1.79	0.48
1:GR:39:PRO:HB2	1:GR:47:GLY:HA3	1.95	0.48
1:HC:86:THR:HG22	1:HC:88:GLU:H	1.79	0.48
1:HI:101:LEU:O	1:HI:105:VAL:HG23	2.14	0.48
1:HL:53:ARG:HH22	1:HL:79:THR:HG21	1.78	0.48
1:ID:101:LEU:O	1:ID:105:VAL:HG23	2.14	0.48
1:IV:101:LEU:O	1:IV:105:VAL:HG23	2.14	0.48
1:JG:38:LEU:HB2	1:JN:10:ARG:NH1	2.28	0.48
1:JR:39:PRO:HB2	1:JR:47:GLY:HA3	1.95	0.48
1:KA:39:PRO:HB2	1:KA:47:GLY:HA3	1.95	0.48
1:KF:86:THR:HG22	1:KF:88:GLU:H	1.79	0.48
1:KS:39:PRO:HB2	1:KS:47:GLY:HA3	1.95	0.48
1:LB:39:PRO:HB2	1:LB:47:GLY:HA3	1.95	0.48
1:LE:39:PRO:HB2	1:LE:47:GLY:HA3	1.95	0.48
1:LG:86:THR:HG22	1:LG:88:GLU:H	1.79	0.48
1:LP:101:LEU:O	1:LP:105:VAL:HG23	2.14	0.48
1:MN:101:LEU:O	1:MN:105:VAL:HG23	2.14	0.48
1:MU:39:PRO:HB2	1:MU:47:GLY:HA3	1.95	0.48
1:MW:101:LEU:O	1:MW:105:VAL:HG23	2.14	0.48
1:MX:39:PRO:HB2	1:MX:47:GLY:HA3	1.95	0.48
1:NA:39:PRO:HB2	1:NA:47:GLY:HA3	1.95	0.48
1:NL:53:ARG:HH22	1:NL:79:THR:HG21	1.78	0.48
1:NR:101:LEU:O	1:NR:105:VAL:HG23	2.14	0.48
1:AE:101:LEU:O	1:AE:105:VAL:HG23	2.14	0.47
1:AN:101:LEU:O	1:AN:105:VAL:HG23	2.14	0.47
1:AO:53:ARG:NH1	1:EA:104:GLU:OE1	2.29	0.47
1:AQ:53:ARG:HH22	1:AQ:79:THR:HG21	1.78	0.47
1:AR:39:PRO:HB2	1:AR:47:GLY:HA3	1.95	0.47
1:AU:129:THR:O	1:EG:106:LYS:NZ	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:53:ARG:HH22	1:BI:79:THR:HG21	1.78	0.47
1:BI:102:ILE:HD12	1:BI:126:LEU:HD11	1.97	0.47
1:CB:4:ILE:HG13	1:FN:125:ASP:HB2	1.96	0.47
1:CD:53:ARG:HH22	1:CD:79:THR:HG21	1.78	0.47
1:CJ:101:LEU:O	1:CJ:105:VAL:HG23	2.14	0.47
1:CM:53:ARG:HH22	1:CM:79:THR:HG21	1.78	0.47
1:CS:53:ARG:HH22	1:CS:79:THR:HG21	1.78	0.47
1:CS:101:LEU:O	1:CS:105:VAL:HG23	2.14	0.47
1:DB:86:THR:HG22	1:DB:88:GLU:H	1.79	0.47
1:DC:80:SER:HB2	1:GO:74:VAL:HG22	1.95	0.47
1:DL:8:LYS:HB2	1:GX:119:ASP:O	2.14	0.47
1:DQ:101:LEU:O	1:DQ:105:VAL:HG23	2.14	0.47
1:DW:102:ILE:HD12	1:DW:126:LEU:HD11	1.96	0.47
1:DX:39:PRO:HB2	1:DX:47:GLY:HA3	1.95	0.47
1:DZ:79:THR:HB	1:DZ:81:PHE:CE2	2.48	0.47
1:EA:39:PRO:HB2	1:EA:47:GLY:HA3	1.95	0.47
1:EG:39:PRO:HB2	1:EG:47:GLY:HA3	1.95	0.47
1:EL:101:LEU:O	1:EL:105:VAL:HG23	2.14	0.47
1:ER:101:LEU:O	1:ER:105:VAL:HG23	2.14	0.47
1:EX:102:ILE:HD12	1:EX:126:LEU:HD11	1.97	0.47
1:FM:53:ARG:HH22	1:FM:79:THR:HG21	1.78	0.47
1:FM:86:THR:HG22	1:FM:88:GLU:H	1.79	0.47
1:FS:101:LEU:O	1:FS:105:VAL:HG23	2.14	0.47
1:GC:39:PRO:HB2	1:GC:47:GLY:HA3	1.95	0.47
1:GK:101:LEU:O	1:GK:105:VAL:HG23	2.14	0.47
1:HL:101:LEU:O	1:HL:105:VAL:HG23	2.14	0.47
1:HM:94:LEU:HD13	1:KY:105:VAL:HG22	1.96	0.47
1:HS:39:PRO:HB2	1:HS:47:GLY:HA3	1.95	0.47
1:HX:101:LEU:O	1:HX:105:VAL:HG23	2.14	0.47
1:ID:102:ILE:HD12	1:ID:126:LEU:HD11	1.96	0.47
1:IM:86:THR:HG22	1:IM:88:GLU:H	1.79	0.47
1:IP:86:THR:HG22	1:IP:88:GLU:H	1.79	0.47
1:JE:86:THR:HG22	1:JE:88:GLU:H	1.79	0.47
1:JI:106:LYS:NZ	1:MU:129:THR:O	2.47	0.47
1:JL:39:PRO:HB2	1:JL:47:GLY:HA3	1.95	0.47
1:KA:59:ILE:HD12	1:NM:89:ASP:OD2	2.14	0.47
1:KF:53:ARG:HH22	1:KF:79:THR:HG21	1.78	0.47
1:KM:39:PRO:HB2	1:KM:47:GLY:HA3	1.95	0.47
1:KU:86:THR:HG22	1:KU:88:GLU:H	1.79	0.47
1:LK:39:PRO:HB2	1:LK:47:GLY:HA3	1.95	0.47
1:LM:102:ILE:HD12	1:LM:126:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LT:39:PRO:HB2	1:LT:47:GLY:HA3	1.95	0.47
1:LV:101:LEU:O	1:LV:105:VAL:HG23	2.14	0.47
1:MQ:53:ARG:HH22	1:MQ:79:THR:HG21	1.78	0.47
1:NC:53:ARG:HH22	1:NC:79:THR:HG21	1.78	0.47
1:NF:101:LEU:O	1:NF:105:VAL:HG23	2.14	0.47
1:NF:102:ILE:HD12	1:NF:126:LEU:HD11	1.96	0.47
1:NO:101:LEU:O	1:NO:105:VAL:HG23	2.14	0.47
1:AB:102:ILE:HD12	1:AB:126:LEU:HD11	1.97	0.47
1:AC:39:PRO:HB2	1:AC:47:GLY:HA3	1.95	0.47
1:AE:53:ARG:HH22	1:AE:79:THR:HG21	1.78	0.47
1:AH:53:ARG:HH22	1:AH:79:THR:HG21	1.78	0.47
1:AH:101:LEU:O	1:AH:105:VAL:HG23	2.14	0.47
1:AH:102:ILE:HD12	1:AH:126:LEU:HD11	1.97	0.47
1:AN:102:ILE:HD12	1:AN:126:LEU:HD11	1.96	0.47
1:AQ:86:THR:HG22	1:AQ:88:GLU:H	1.79	0.47
1:AW:53:ARG:HH22	1:AW:79:THR:HG21	1.78	0.47
1:BC:102:ILE:HD12	1:BC:126:LEU:HD11	1.96	0.47
1:BD:39:PRO:HB2	1:BD:47:GLY:HA3	1.95	0.47
1:BS:39:PRO:HB2	1:BS:47:GLY:HA3	1.95	0.47
1:CB:74:VAL:CG2	1:FN:80:SER:HB2	2.40	0.47
1:CV:102:ILE:HD12	1:CV:126:LEU:HD11	1.96	0.47
1:CY:101:LEU:O	1:CY:105:VAL:HG23	2.14	0.47
1:DO:39:PRO:HB2	1:DO:47:GLY:HA3	1.95	0.47
1:EF:86:THR:HG22	1:EF:88:GLU:H	1.79	0.47
1:EL:102:ILE:HD12	1:EL:126:LEU:HD11	1.97	0.47
1:ER:53:ARG:HH22	1:ER:79:THR:HG21	1.78	0.47
1:EU:101:LEU:O	1:EU:105:VAL:HG23	2.14	0.47
1:FA:102:ILE:HD12	1:FA:126:LEU:HD11	1.97	0.47
1:FC:15:ASP:OD1	1:FG:10:ARG:NH2	2.47	0.47
1:FC:99:SER:OG	1:FC:124:GLU:O	2.20	0.47
1:FD:53:ARG:HH22	1:FD:79:THR:HG21	1.78	0.47
1:FD:102:ILE:HD12	1:FD:126:LEU:HD11	1.96	0.47
1:FJ:102:ILE:HD12	1:FJ:126:LEU:HD11	1.96	0.47
1:FM:102:ILE:HD12	1:FM:126:LEU:HD11	1.97	0.47
1:FT:10:ARG:HD2	1:GQ:15:ASP:OD1	2.14	0.47
1:FY:53:ARG:HH22	1:FY:79:THR:HG21	1.78	0.47
1:GK:53:ARG:HH22	1:GK:79:THR:HG21	1.78	0.47
1:HM:39:PRO:HB2	1:HM:47:GLY:HA3	1.95	0.47
1:HO:53:ARG:HH22	1:HO:79:THR:HG21	1.78	0.47
1:HX:53:ARG:HH22	1:HX:79:THR:HG21	1.78	0.47
1:IK:39:PRO:HB2	1:IK:47:GLY:HA3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IK:80:SER:HB2	1:LW:74:VAL:HG22	1.95	0.47
1:IY:102:ILE:HD12	1:IY:126:LEU:HD11	1.96	0.47
1:JE:102:ILE:HD12	1:JE:126:LEU:HD11	1.97	0.47
1:JH:102:ILE:HD12	1:JH:126:LEU:HD11	1.96	0.47
1:JW:102:ILE:HD12	1:JW:126:LEU:HD11	1.97	0.47
1:KI:102:ILE:HD12	1:KI:126:LEU:HD11	1.96	0.47
1:KJ:49:VAL:CG1	1:NV:112:ALA:O	2.60	0.47
1:KO:102:ILE:HD12	1:KO:126:LEU:HD11	1.97	0.47
1:KP:39:PRO:HB2	1:KP:47:GLY:HA3	1.95	0.47
1:KR:102:ILE:HD12	1:KR:126:LEU:HD11	1.96	0.47
1:KU:101:LEU:O	1:KU:105:VAL:HG23	2.14	0.47
1:LJ:53:ARG:HH22	1:LJ:79:THR:HG21	1.78	0.47
1:LV:86:THR:HG22	1:LV:88:GLU:H	1.79	0.47
1:MP:99:SER:OG	1:MP:124:GLU:O	2.20	0.47
1:MQ:102:ILE:HD12	1:MQ:126:LEU:HD11	1.97	0.47
1:MT:86:THR:HG22	1:MT:88:GLU:H	1.79	0.47
1:AE:102:ILE:HD12	1:AE:126:LEU:HD11	1.96	0.47
1:AT:102:ILE:HD12	1:AT:126:LEU:HD11	1.97	0.47
1:AZ:101:LEU:O	1:AZ:105:VAL:HG23	2.14	0.47
1:BF:102:ILE:HD12	1:BF:126:LEU:HD11	1.96	0.47
1:BL:86:THR:HG22	1:BL:88:GLU:H	1.79	0.47
1:BR:101:LEU:O	1:BR:105:VAL:HG23	2.14	0.47
1:CA:53:ARG:HH22	1:CA:79:THR:HG21	1.78	0.47
1:CL:38:LEU:HB2	1:DH:10:ARG:HH11	1.79	0.47
1:CP:53:ARG:HH22	1:CP:79:THR:HG21	1.78	0.47
1:CS:102:ILE:HD12	1:CS:126:LEU:HD11	1.96	0.47
1:CV:10:ARG:NH1	1:DG:38:LEU:HB2	2.29	0.47
1:DE:101:LEU:O	1:DE:105:VAL:HG23	2.14	0.47
1:DF:8:LYS:HB2	1:GR:119:ASP:O	2.14	0.47
1:DH:86:THR:HG22	1:DH:88:GLU:H	1.79	0.47
1:DT:86:THR:HG22	1:DT:88:GLU:H	1.79	0.47
1:EL:15:ASP:OD1	1:ES:10:ARG:NH1	2.47	0.47
1:FG:53:ARG:HH22	1:FG:79:THR:HG21	1.78	0.47
1:FM:101:LEU:O	1:FM:105:VAL:HG23	2.14	0.47
1:FP:102:ILE:HD12	1:FP:126:LEU:HD11	1.97	0.47
1:FV:86:THR:HG22	1:FV:88:GLU:H	1.79	0.47
1:FZ:39:PRO:HB2	1:FZ:47:GLY:HA3	1.95	0.47
1:GB:102:ILE:HD12	1:GB:126:LEU:HD11	1.96	0.47
1:GW:86:THR:HG22	1:GW:88:GLU:H	1.79	0.47
1:HR:15:ASP:OD1	1:LK:10:ARG:NH1	2.48	0.47
1:HU:53:ARG:HH22	1:HU:79:THR:HG21	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HU:101:LEU:O	1:HU:105:VAL:HG23	2.14	0.47
1:HV:116:TYR:CE1	1:LF:9:LEU:HA	2.49	0.47
1:IF:99:SER:OG	1:IF:124:GLU:O	2.20	0.47
1:IH:39:PRO:HB2	1:IH:47:GLY:HA3	1.95	0.47
1:IJ:101:LEU:O	1:IJ:105:VAL:HG23	2.14	0.47
1:IJ:102:ILE:HD12	1:IJ:126:LEU:HD11	1.96	0.47
1:IP:102:ILE:HD12	1:IP:126:LEU:HD11	1.96	0.47
1:IZ:39:PRO:HB2	1:IZ:47:GLY:HA3	1.95	0.47
1:JE:53:ARG:HH22	1:JE:79:THR:HG21	1.78	0.47
1:KC:102:ILE:HD12	1:KC:126:LEU:HD11	1.97	0.47
1:KL:102:ILE:HD12	1:KL:126:LEU:HD11	1.97	0.47
1:LM:86:THR:HG22	1:LM:88:GLU:H	1.79	0.47
1:MB:101:LEU:O	1:MB:105:VAL:HG23	2.14	0.47
1:MF:39:PRO:HB2	1:MF:47:GLY:HA3	1.95	0.47
1:MT:102:ILE:HD12	1:MT:126:LEU:HD11	1.97	0.47
1:MZ:101:LEU:O	1:MZ:105:VAL:HG23	2.14	0.47
1:NU:86:THR:HG22	1:NU:88:GLU:H	1.79	0.47
1:AN:86:THR:HG22	1:AN:88:GLU:H	1.79	0.47
1:AQ:101:LEU:O	1:AQ:105:VAL:HG23	2.14	0.47
1:BI:38:LEU:HD22	1:BP:10:ARG:HH21	1.80	0.47
1:BR:10:ARG:NH1	1:EB:38:LEU:HB2	2.28	0.47
1:BS:80:SER:HB2	1:FE:74:VAL:CG2	2.43	0.47
1:BV:39:PRO:HB2	1:BV:47:GLY:HA3	1.95	0.47
1:CH:39:PRO:HB2	1:CH:47:GLY:HA3	1.95	0.47
1:CV:101:LEU:O	1:CV:105:VAL:HG23	2.14	0.47
1:CW:112:ALA:O	1:GI:49:VAL:HG11	2.14	0.47
1:DE:53:ARG:HH22	1:DE:79:THR:HG21	1.78	0.47
1:DZ:15:ASP:OD1	1:FZ:10:ARG:NH1	2.47	0.47
1:DZ:86:THR:HG22	1:DZ:88:GLU:H	1.79	0.47
1:EY:39:PRO:HB2	1:EY:47:GLY:HA3	1.95	0.47
1:FB:39:PRO:HB2	1:FB:47:GLY:HA3	1.95	0.47
1:FD:86:THR:HG22	1:FD:88:GLU:H	1.79	0.47
1:FS:86:THR:HG22	1:FS:88:GLU:H	1.79	0.47
1:GH:86:THR:HG22	1:GH:88:GLU:H	1.79	0.47
1:GK:86:THR:HG22	1:GK:88:GLU:H	1.79	0.47
1:GW:101:LEU:O	1:GW:105:VAL:HG23	2.14	0.47
1:HA:39:PRO:HB2	1:HA:47:GLY:HA3	1.95	0.47
1:IE:39:PRO:HB2	1:IE:47:GLY:HA3	1.95	0.47
1:IK:57:LYS:NZ	1:LW:92:GLU:OE2	2.43	0.47
1:IQ:39:PRO:HB2	1:IQ:47:GLY:HA3	1.95	0.47
1:IV:86:THR:HG22	1:IV:88:GLU:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JK:53:ARG:HH22	1:JK:79:THR:HG21	1.78	0.47
1:JN:53:ARG:HH22	1:JN:79:THR:HG21	1.78	0.47
1:JU:57:LYS:HZ3	1:NG:92:GLU:CD	2.16	0.47
1:JZ:53:ARG:HH22	1:JZ:79:THR:HG21	1.78	0.47
1:KI:101:LEU:O	1:KI:105:VAL:HG23	2.14	0.47
1:KL:101:LEU:O	1:KL:105:VAL:HG23	2.14	0.47
1:KX:102:ILE:HD12	1:KX:126:LEU:HD11	1.97	0.47
1:KZ:114:SER:HA	1:NA:26:VAL:CG2	2.44	0.47
1:LX:99:SER:OG	1:LX:124:GLU:O	2.20	0.47
1:MZ:86:THR:HG22	1:MZ:88:GLU:H	1.79	0.47
1:MZ:102:ILE:HD12	1:MZ:126:LEU:HD11	1.97	0.47
1:NC:101:LEU:O	1:NC:105:VAL:HG23	2.14	0.47
1:NL:86:THR:HG22	1:NL:88:GLU:H	1.79	0.47
1:NU:53:ARG:HH22	1:NU:79:THR:HG21	1.78	0.47
1:AQ:102:ILE:HD12	1:AQ:126:LEU:HD11	1.96	0.47
1:AY:38:LEU:HB2	1:EX:10:ARG:NH1	2.29	0.47
1:BF:53:ARG:HH22	1:BF:79:THR:HG21	1.78	0.47
1:BL:101:LEU:O	1:BL:105:VAL:HG23	2.14	0.47
1:BR:86:THR:HG22	1:BR:88:GLU:H	1.79	0.47
1:BU:101:LEU:O	1:BU:105:VAL:HG23	2.14	0.47
1:CA:102:ILE:HD12	1:CA:126:LEU:HD11	1.96	0.47
1:EF:101:LEU:O	1:EF:105:VAL:HG23	2.14	0.47
1:EO:101:LEU:O	1:EO:105:VAL:HG23	2.14	0.47
1:ER:102:ILE:HD12	1:ER:126:LEU:HD11	1.96	0.47
1:FG:102:ILE:HD12	1:FG:126:LEU:HD11	1.96	0.47
1:FY:101:LEU:O	1:FY:105:VAL:HG23	2.14	0.47
1:GE:53:ARG:HH22	1:GE:79:THR:HG21	1.78	0.47
1:GH:101:LEU:O	1:GH:105:VAL:HG23	2.14	0.47
1:GK:102:ILE:HD12	1:GK:126:LEU:HD11	1.97	0.47
1:GN:101:LEU:O	1:GN:105:VAL:HG23	2.14	0.47
1:GO:39:PRO:HB2	1:GO:47:GLY:HA3	1.95	0.47
1:HJ:39:PRO:HB2	1:HJ:47:GLY:HA3	1.95	0.47
1:HU:102:ILE:HD12	1:HU:126:LEU:HD11	1.97	0.47
1:HX:102:ILE:HD12	1:HX:126:LEU:HD11	1.97	0.47
1:IA:86:THR:HG22	1:IA:88:GLU:H	1.79	0.47
1:JF:39:PRO:HB2	1:JF:47:GLY:HA3	1.95	0.47
1:JI:39:PRO:HB2	1:JI:47:GLY:HA3	1.95	0.47
1:KF:101:LEU:O	1:KF:105:VAL:HG23	2.14	0.47
1:KG:39:PRO:HB2	1:KG:47:GLY:HA3	1.95	0.47
1:KJ:4:ILE:HG12	1:NV:125:ASP:HB2	1.96	0.47
1:KU:38:LEU:HD22	1:ND:10:ARG:HH21	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KU:102:ILE:HD12	1:KU:126:LEU:HD11	1.96	0.47
1:KX:101:LEU:O	1:KX:105:VAL:HG23	2.14	0.47
1:LA:86:THR:HG22	1:LA:88:GLU:H	1.79	0.47
1:LG:102:ILE:HD12	1:LG:126:LEU:HD11	1.97	0.47
1:LJ:86:THR:HG22	1:LJ:88:GLU:H	1.79	0.47
1:LS:10:ARG:NH1	1:MD:38:LEU:HB2	2.29	0.47
1:ME:86:THR:HG22	1:ME:88:GLU:H	1.79	0.47
1:MT:101:LEU:O	1:MT:105:VAL:HG23	2.14	0.47
1:NU:102:ILE:HD12	1:NU:126:LEU:HD11	1.97	0.47
1:AK:102:ILE:HD12	1:AK:126:LEU:HD11	1.97	0.47
1:AW:86:THR:HG22	1:AW:88:GLU:H	1.79	0.47
1:BU:102:ILE:HD12	1:BU:126:LEU:HD11	1.97	0.47
1:BZ:9:LEU:HA	1:FN:116:TYR:CE1	2.49	0.47
1:CM:102:ILE:HD12	1:CM:126:LEU:HD11	1.97	0.47
1:CQ:74:VAL:HG22	1:GC:80:SER:HB2	1.96	0.47
1:DB:102:ILE:HD12	1:DB:126:LEU:HD11	1.96	0.47
1:DQ:86:THR:HG22	1:DQ:88:GLU:H	1.79	0.47
1:DZ:101:LEU:O	1:DZ:105:VAL:HG23	2.14	0.47
1:EO:102:ILE:HD12	1:EO:126:LEU:HD11	1.96	0.47
1:EU:79:THR:HB	1:EU:81:PHE:CE2	2.48	0.47
1:EX:101:LEU:O	1:EX:105:VAL:HG23	2.14	0.47
1:FV:101:LEU:O	1:FV:105:VAL:HG23	2.14	0.47
1:FY:102:ILE:HD12	1:FY:126:LEU:HD11	1.96	0.47
1:GE:86:THR:HG22	1:GE:88:GLU:H	1.79	0.47
1:GH:53:ARG:HH22	1:GH:79:THR:HG21	1.78	0.47
1:GT:102:ILE:HD12	1:GT:126:LEU:HD11	1.97	0.47
1:HJ:26:VAL:HG21	1:MM:113:TYR:O	2.14	0.47
1:IG:102:ILE:HD12	1:IG:126:LEU:HD11	1.97	0.47
1:IP:101:LEU:O	1:IP:105:VAL:HG23	2.14	0.47
1:JI:10:ARG:HH21	1:JN:38:LEU:HD22	1.79	0.47
1:KR:101:LEU:O	1:KR:105:VAL:HG23	2.14	0.47
1:MK:101:LEU:O	1:MK:105:VAL:HG23	2.14	0.47
1:MO:10:ARG:HH21	1:NU:38:LEU:CD2	2.27	0.47
1:NO:86:THR:HG22	1:NO:88:GLU:H	1.79	0.47
1:NR:102:ILE:HD12	1:NR:126:LEU:HD11	1.96	0.47
1:AB:86:THR:HG22	1:AB:88:GLU:H	1.79	0.47
1:AK:86:THR:HG22	1:AK:88:GLU:H	1.79	0.47
1:AL:49:VAL:HG11	1:DX:112:ALA:O	2.14	0.47
1:AM:99:SER:OG	1:AM:124:GLU:O	2.20	0.47
1:AV:38:LEU:HB2	1:FD:10:ARG:HH11	1.79	0.47
1:AW:102:ILE:HD12	1:AW:126:LEU:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:86:THR:HG22	1:AZ:88:GLU:H	1.79	0.47
1:BL:102:ILE:HD12	1:BL:126:LEU:HD11	1.96	0.47
1:BN:99:SER:OG	1:BN:124:GLU:O	2.20	0.47
1:BO:101:LEU:O	1:BO:105:VAL:HG23	2.14	0.47
1:BU:10:ARG:HH11	1:DM:38:LEU:HB2	1.79	0.47
1:BX:101:LEU:O	1:BX:105:VAL:HG23	2.14	0.47
1:BZ:9:LEU:HA	1:FN:116:TYR:CD1	2.49	0.47
1:CA:101:LEU:O	1:CA:105:VAL:HG23	2.14	0.47
1:CD:101:LEU:O	1:CD:105:VAL:HG23	2.14	0.47
1:CJ:86:THR:HG22	1:CJ:88:GLU:H	1.79	0.47
1:CQ:39:PRO:HB2	1:CQ:47:GLY:HA3	1.95	0.47
1:CV:86:THR:HG22	1:CV:88:GLU:H	1.79	0.47
1:DC:39:PRO:HB2	1:DC:47:GLY:HA3	1.95	0.47
1:DC:90:ARG:NH2	1:GO:113:TYR:CG	2.83	0.47
1:DK:86:THR:HG22	1:DK:88:GLU:H	1.79	0.47
1:DN:101:LEU:O	1:DN:105:VAL:HG23	2.14	0.47
1:DZ:102:ILE:HD12	1:DZ:126:LEU:HD11	1.97	0.47
1:EC:102:ILE:HD12	1:EC:126:LEU:HD11	1.97	0.47
1:EF:102:ILE:HD12	1:EF:126:LEU:HD11	1.97	0.47
1:EO:86:THR:HG22	1:EO:88:GLU:H	1.79	0.47
1:EX:86:THR:HG22	1:EX:88:GLU:H	1.79	0.47
1:FS:102:ILE:HD12	1:FS:126:LEU:HD11	1.97	0.47
1:FW:39:PRO:HB2	1:FW:47:GLY:HA3	1.95	0.47
1:GE:102:ILE:HD12	1:GE:126:LEU:HD11	1.97	0.47
1:GH:102:ILE:HD12	1:GH:126:LEU:HD11	1.96	0.47
1:GQ:86:THR:HG22	1:GQ:88:GLU:H	1.79	0.47
1:GZ:86:THR:HG22	1:GZ:88:GLU:H	1.79	0.47
1:GZ:101:LEU:O	1:GZ:105:VAL:HG23	2.14	0.47
1:HC:101:LEU:O	1:HC:105:VAL:HG23	2.14	0.47
1:HR:86:THR:HG22	1:HR:88:GLU:H	1.79	0.47
1:HV:39:PRO:HB2	1:HV:47:GLY:HA3	1.95	0.47
1:IA:15:ASP:OD1	1:IQ:10:ARG:NH1	2.48	0.47
1:IA:53:ARG:HH22	1:IA:79:THR:HG21	1.78	0.47
1:IA:102:ILE:HD12	1:IA:126:LEU:HD11	1.96	0.47
1:IK:8:LYS:HB2	1:LW:119:ASP:O	2.15	0.47
1:IK:90:ARG:NH2	1:LW:113:TYR:CG	2.82	0.47
1:IS:101:LEU:O	1:IS:105:VAL:HG23	2.14	0.47
1:IS:102:ILE:HD12	1:IS:126:LEU:HD11	1.97	0.47
1:IW:39:PRO:HB2	1:IW:47:GLY:HA3	1.95	0.47
1:JB:102:ILE:HD12	1:JB:126:LEU:HD11	1.96	0.47
1:JK:102:ILE:HD12	1:JK:126:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JL:74:VAL:CG2	1:MX:80:SER:HB2	2.41	0.47
1:JO:39:PRO:HB2	1:JO:47:GLY:HA3	1.95	0.47
1:KA:8:LYS:HB2	1:NM:119:ASP:O	2.15	0.47
1:KI:86:THR:HG22	1:KI:88:GLU:H	1.79	0.47
1:KO:101:LEU:O	1:KO:105:VAL:HG23	2.14	0.47
1:LG:101:LEU:O	1:LG:105:VAL:HG23	2.14	0.47
1:LJ:101:LEU:O	1:LJ:105:VAL:HG23	2.14	0.47
1:LS:102:ILE:HD12	1:LS:126:LEU:HD11	1.97	0.47
1:LY:101:LEU:O	1:LY:105:VAL:HG23	2.14	0.47
1:MB:86:THR:HG22	1:MB:88:GLU:H	1.79	0.47
1:MH:101:LEU:O	1:MH:105:VAL:HG23	2.14	0.47
1:MK:102:ILE:HD12	1:MK:126:LEU:HD11	1.96	0.47
1:MT:53:ARG:HH22	1:MT:79:THR:HG21	1.78	0.47
1:NC:102:ILE:HD12	1:NC:126:LEU:HD11	1.96	0.47
1:NL:101:LEU:O	1:NL:105:VAL:HG23	2.14	0.47
1:NL:102:ILE:HD12	1:NL:126:LEU:HD11	1.96	0.47
1:NR:86:THR:HG22	1:NR:88:GLU:H	1.79	0.47
1:AK:101:LEU:O	1:AK:105:VAL:HG23	2.14	0.47
1:AR:80:SER:HB2	1:ED:74:VAL:HG22	1.97	0.47
1:AU:39:PRO:HB2	1:AU:47:GLY:HA3	1.95	0.47
1:BS:8:LYS:HB2	1:FE:119:ASP:O	2.14	0.47
1:CB:39:PRO:HB2	1:CB:47:GLY:HA3	1.95	0.47
1:CH:74:VAL:HG22	1:FT:80:SER:HB2	1.97	0.47
1:DH:101:LEU:O	1:DH:105:VAL:HG23	2.14	0.47
1:DK:101:LEU:O	1:DK:105:VAL:HG23	2.14	0.47
1:DW:101:LEU:O	1:DW:105:VAL:HG23	2.14	0.47
1:EL:86:THR:HG22	1:EL:88:GLU:H	1.79	0.47
1:FJ:101:LEU:O	1:FJ:105:VAL:HG23	2.14	0.47
1:GW:102:ILE:HD12	1:GW:126:LEU:HD11	1.96	0.47
1:HF:86:THR:HG22	1:HF:88:GLU:H	1.79	0.47
1:HI:15:ASP:OD1	1:IW:10:ARG:NH1	2.48	0.47
1:IG:86:THR:HG22	1:IG:88:GLU:H	1.79	0.47
1:IG:101:LEU:O	1:IG:105:VAL:HG23	2.14	0.47
1:JH:53:ARG:HH22	1:JH:79:THR:HG21	1.78	0.47
1:JN:101:LEU:O	1:JN:105:VAL:HG23	2.14	0.47
1:JN:102:ILE:HD12	1:JN:126:LEU:HD11	1.96	0.47
1:JZ:86:THR:HG22	1:JZ:88:GLU:H	1.79	0.47
1:KO:86:THR:HG22	1:KO:88:GLU:H	1.79	0.47
1:KU:10:ARG:HH11	1:NB:38:LEU:HD22	1.80	0.47
1:ND:39:PRO:HB2	1:ND:47:GLY:HA3	1.95	0.47
1:NI:86:THR:HG22	1:NI:88:GLU:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:106:LYS:NZ	1:EP:129:THR:O	2.48	0.47
1:BF:86:THR:HG22	1:BF:88:GLU:H	1.79	0.47
1:BJ:57:LYS:NZ	1:EV:92:GLU:OE2	2.47	0.47
1:BO:102:ILE:HD12	1:BO:126:LEU:HD11	1.97	0.47
1:BX:102:ILE:HD12	1:BX:126:LEU:HD11	1.97	0.47
1:CM:101:LEU:O	1:CM:105:VAL:HG23	2.14	0.47
1:CP:102:ILE:HD12	1:CP:126:LEU:HD11	1.96	0.47
1:CS:86:THR:HG22	1:CS:88:GLU:H	1.79	0.47
1:CW:119:ASP:O	1:GI:8:LYS:HB2	2.15	0.47
1:DE:102:ILE:HD12	1:DE:126:LEU:HD11	1.96	0.47
1:FA:86:THR:HG22	1:FA:88:GLU:H	1.79	0.47
1:GB:86:THR:HG22	1:GB:88:GLU:H	1.79	0.47
1:HI:102:ILE:HD12	1:HI:126:LEU:HD11	1.96	0.47
1:HL:102:ILE:HD12	1:HL:126:LEU:HD11	1.96	0.47
1:HR:101:LEU:O	1:HR:105:VAL:HG23	2.14	0.47
1:IJ:86:THR:HG22	1:IJ:88:GLU:H	1.79	0.47
1:IP:53:ARG:HH22	1:IP:79:THR:HG21	1.78	0.47
1:JW:86:THR:HG22	1:JW:88:GLU:H	1.79	0.47
1:LA:101:LEU:O	1:LA:105:VAL:HG23	2.14	0.47
1:LA:102:ILE:HD12	1:LA:126:LEU:HD11	1.96	0.47
1:LD:86:THR:HG22	1:LD:88:GLU:H	1.79	0.47
1:LM:53:ARG:HH22	1:LM:79:THR:HG21	1.78	0.47
1:LP:86:THR:HG22	1:LP:88:GLU:H	1.79	0.47
1:LW:39:PRO:HB2	1:LW:47:GLY:HA3	1.95	0.47
1:MK:86:THR:HG22	1:MK:88:GLU:H	1.79	0.47
1:NC:86:THR:HG22	1:NC:88:GLU:H	1.79	0.47
1:NF:53:ARG:HH22	1:NF:79:THR:HG21	1.78	0.47
1:NF:86:THR:HG22	1:NF:88:GLU:H	1.79	0.47
1:AU:112:ALA:O	1:EG:49:VAL:HG11	2.15	0.47
1:BC:101:LEU:O	1:BC:105:VAL:HG23	2.14	0.47
1:BK:114:SER:HA	1:DX:26:VAL:HG21	1.97	0.47
1:BO:86:THR:HG22	1:BO:88:GLU:H	1.79	0.47
1:CY:8:LYS:HA	1:CY:19:PHE:CD1	2.51	0.47
1:DH:102:ILE:HD12	1:DH:126:LEU:HD11	1.96	0.47
1:DT:101:LEU:O	1:DT:105:VAL:HG23	2.14	0.47
1:FA:101:LEU:O	1:FA:105:VAL:HG23	2.14	0.47
1:GT:86:THR:HG22	1:GT:88:GLU:H	1.79	0.47
1:HD:39:PRO:HB2	1:HD:47:GLY:HA3	1.95	0.47
1:HV:57:LYS:HZ3	1:LH:92:GLU:CD	2.18	0.47
1:HZ:99:SER:OG	1:HZ:124:GLU:O	2.20	0.47
1:JB:101:LEU:O	1:JB:105:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JH:86:THR:HG22	1:JH:88:GLU:H	1.79	0.47
1:JH:101:LEU:O	1:JH:105:VAL:HG23	2.14	0.47
1:JK:66:ALA:CB	1:KF:66:ALA:HB1	2.44	0.47
1:KC:86:THR:HG22	1:KC:88:GLU:H	1.79	0.47
1:KF:102:ILE:HD12	1:KF:126:LEU:HD11	1.96	0.47
1:MO:10:ARG:NH1	1:NU:15:ASP:OD1	2.48	0.47
1:MW:86:THR:HG22	1:MW:88:GLU:H	1.79	0.47
1:AS:99:SER:OG	1:AS:124:GLU:O	2.20	0.46
1:AU:49:VAL:HG11	1:EG:112:ALA:O	2.13	0.46
1:AW:8:LYS:HA	1:AW:19:PHE:CD1	2.51	0.46
1:BC:8:LYS:HA	1:BC:19:PHE:CD1	2.51	0.46
1:BR:102:ILE:HD12	1:BR:126:LEU:HD11	1.97	0.46
1:CE:39:PRO:HB2	1:CE:47:GLY:HA3	1.95	0.46
1:CM:86:THR:HG22	1:CM:88:GLU:H	1.79	0.46
1:CP:86:THR:HG22	1:CP:88:GLU:H	1.79	0.46
1:CZ:39:PRO:HB2	1:CZ:47:GLY:HA3	1.95	0.46
1:DC:74:VAL:HG22	1:GO:80:SER:HB2	1.96	0.46
1:DE:8:LYS:HA	1:DE:19:PHE:CD1	2.50	0.46
1:DN:8:LYS:HA	1:DN:19:PHE:CD1	2.51	0.46
1:DQ:8:LYS:HA	1:DQ:19:PHE:CD1	2.51	0.46
1:DW:8:LYS:HA	1:DW:19:PHE:CD1	2.50	0.46
1:DW:86:THR:HG22	1:DW:88:GLU:H	1.79	0.46
1:EC:86:THR:HG22	1:EC:88:GLU:H	1.79	0.46
1:EL:8:LYS:HA	1:EL:19:PHE:CD1	2.50	0.46
1:FV:8:LYS:HA	1:FV:19:PHE:CD1	2.51	0.46
1:GQ:101:LEU:O	1:GQ:105:VAL:HG23	2.14	0.46
1:GQ:102:ILE:HD12	1:GQ:126:LEU:HD11	1.96	0.46
1:HF:102:ILE:HD12	1:HF:126:LEU:HD11	1.96	0.46
1:HO:86:THR:HG22	1:HO:88:GLU:H	1.79	0.46
1:ID:15:ASP:OD1	1:IK:10:ARG:NH1	2.47	0.46
1:ID:86:THR:HG22	1:ID:88:GLU:H	1.79	0.46
1:IM:8:LYS:HA	1:IM:19:PHE:CD1	2.50	0.46
1:IN:90:ARG:NH2	1:LZ:113:TYR:CG	2.83	0.46
1:IV:26:VAL:HG11	1:KO:113:TYR:O	2.15	0.46
1:JB:8:LYS:HA	1:JB:19:PHE:CD1	2.51	0.46
1:JP:38:LEU:HB2	1:KC:10:ARG:NH1	2.30	0.46
1:KO:8:LYS:HA	1:KO:19:PHE:CD1	2.50	0.46
1:LM:8:LYS:HA	1:LM:19:PHE:CD1	2.50	0.46
1:LX:38:LEU:HB2	1:MK:10:ARG:NH1	2.30	0.46
1:MB:8:LYS:HA	1:MB:19:PHE:CD1	2.51	0.46
1:MQ:86:THR:HG22	1:MQ:88:GLU:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NL:8:LYS:HA	1:NL:19:PHE:CD1	2.51	0.46
1:AC:125:ASP:HB2	1:DO:4:ILE:CG1	2.45	0.46
1:AE:8:LYS:HA	1:AE:19:PHE:CD1	2.51	0.46
1:BF:101:LEU:O	1:BF:105:VAL:HG23	2.14	0.46
1:CA:8:LYS:HA	1:CA:19:PHE:CD1	2.51	0.46
1:CM:8:LYS:HA	1:CM:19:PHE:CD1	2.50	0.46
1:CY:38:LEU:HD22	1:DL:10:ARG:HE	1.80	0.46
1:DA:99:SER:OG	1:DA:124:GLU:O	2.20	0.46
1:DB:8:LYS:HA	1:DB:19:PHE:CD1	2.51	0.46
1:EC:8:LYS:HA	1:EC:19:PHE:CD1	2.51	0.46
1:EF:8:LYS:HA	1:EF:19:PHE:CD1	2.51	0.46
1:ER:86:THR:HG22	1:ER:88:GLU:H	1.79	0.46
1:FG:8:LYS:HA	1:FG:19:PHE:CD1	2.51	0.46
1:FY:8:LYS:HA	1:FY:19:PHE:CD1	2.51	0.46
1:GN:102:ILE:HD12	1:GN:126:LEU:HD11	1.96	0.46
1:HO:102:ILE:HD12	1:HO:126:LEU:HD11	1.96	0.46
1:HR:102:ILE:HD12	1:HR:126:LEU:HD11	1.97	0.46
1:IA:8:LYS:HA	1:IA:19:PHE:CD1	2.50	0.46
1:JC:57:LYS:NZ	1:MO:92:GLU:OE2	2.45	0.46
1:JT:101:LEU:O	1:JT:105:VAL:HG23	2.14	0.46
1:KH:9:LEU:HA	1:NV:116:TYR:CD1	2.50	0.46
1:KU:10:ARG:HH11	1:NB:38:LEU:HB2	1.78	0.46
1:KX:86:THR:HG22	1:KX:88:GLU:H	1.79	0.46
1:LM:101:LEU:O	1:LM:105:VAL:HG23	2.14	0.46
1:LS:101:LEU:O	1:LS:105:VAL:HG23	2.14	0.46
1:MW:102:ILE:HD12	1:MW:126:LEU:HD11	1.97	0.46
1:NF:8:LYS:HA	1:NF:19:PHE:CD1	2.51	0.46
1:NO:102:ILE:HD12	1:NO:126:LEU:HD11	1.97	0.46
1:BI:8:LYS:HA	1:BI:19:PHE:CD1	2.51	0.46
1:BL:8:LYS:HA	1:BL:19:PHE:CD1	2.50	0.46
1:BU:8:LYS:HA	1:BU:19:PHE:CD1	2.51	0.46
1:BU:86:THR:HG22	1:BU:88:GLU:H	1.79	0.46
1:CE:59:ILE:HD12	1:FQ:89:ASP:OD2	2.15	0.46
1:CH:26:VAL:CG2	1:CL:114:SER:HA	2.45	0.46
1:CP:101:LEU:O	1:CP:105:VAL:HG23	2.14	0.46
1:DH:8:LYS:HA	1:DH:19:PHE:CD1	2.51	0.46
1:EI:102:ILE:HD12	1:EI:126:LEU:HD11	1.96	0.46
1:EZ:83:VAL:CG1	1:FM:27:THR:HA	2.45	0.46
1:FP:86:THR:HG22	1:FP:88:GLU:H	1.79	0.46
1:FW:26:VAL:HG21	1:GS:113:TYR:O	2.16	0.46
1:GW:8:LYS:HA	1:GW:19:PHE:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HU:8:LYS:HA	1:HU:19:PHE:CD1	2.50	0.46
1:IN:39:PRO:HB2	1:IN:47:GLY:HA3	1.95	0.46
1:IV:53:ARG:HH22	1:IV:79:THR:HG21	1.78	0.46
1:IY:101:LEU:O	1:IY:105:VAL:HG23	2.14	0.46
1:JE:8:LYS:HA	1:JE:19:PHE:CD1	2.50	0.46
1:JF:78:GLU:O	1:MR:75:ILE:HA	2.15	0.46
1:JZ:101:LEU:O	1:JZ:105:VAL:HG23	2.14	0.46
1:KU:8:LYS:HA	1:KU:19:PHE:CD1	2.51	0.46
1:LP:102:ILE:HD12	1:LP:126:LEU:HD11	1.97	0.46
1:LV:8:LYS:HA	1:LV:19:PHE:CD1	2.51	0.46
1:ME:53:ARG:HH22	1:ME:79:THR:HG21	1.78	0.46
1:MH:102:ILE:HD12	1:MH:126:LEU:HD11	1.97	0.46
1:MN:102:ILE:HD12	1:MN:126:LEU:HD11	1.97	0.46
1:MR:26:VAL:CG2	1:NN:114:SER:HA	2.46	0.46
1:MW:8:LYS:HA	1:MW:19:PHE:CD1	2.51	0.46
1:NC:8:LYS:HA	1:NC:19:PHE:CD1	2.50	0.46
1:AT:86:THR:HG22	1:AT:88:GLU:H	1.79	0.46
1:AZ:8:LYS:HA	1:AZ:19:PHE:CD1	2.51	0.46
1:BO:10:ARG:NH2	1:DY:15:ASP:OD1	2.49	0.46
1:BS:89:ASP:OD2	1:FE:59:ILE:HD12	2.15	0.46
1:CB:80:SER:HB2	1:FN:74:VAL:CG2	2.38	0.46
1:DZ:8:LYS:HA	1:DZ:19:PHE:CD1	2.51	0.46
1:EI:86:THR:HG22	1:EI:88:GLU:H	1.79	0.46
1:EL:10:ARG:NH1	1:EQ:38:LEU:HB2	2.31	0.46
1:FM:8:LYS:HA	1:FM:19:PHE:CD1	2.51	0.46
1:GB:101:LEU:O	1:GB:105:VAL:HG23	2.14	0.46
1:GQ:8:LYS:HA	1:GQ:19:PHE:CD1	2.51	0.46
1:GT:8:LYS:HA	1:GT:19:PHE:CD1	2.51	0.46
1:HI:86:THR:HG22	1:HI:88:GLU:H	1.79	0.46
1:HO:8:LYS:HA	1:HO:19:PHE:CD1	2.51	0.46
1:HU:86:THR:HG22	1:HU:88:GLU:H	1.79	0.46
1:IT:92:GLU:CD	1:MF:57:LYS:HZ3	2.16	0.46
1:IV:102:ILE:HD12	1:IV:126:LEU:HD11	1.96	0.46
1:JK:8:LYS:HA	1:JK:19:PHE:CD1	2.51	0.46
1:JN:8:LYS:HA	1:JN:19:PHE:CD1	2.51	0.46
1:JO:74:VAL:HG22	1:NA:80:SER:HB2	1.96	0.46
1:JQ:8:LYS:HA	1:JQ:19:PHE:CD1	2.51	0.46
1:JT:8:LYS:HA	1:JT:19:PHE:CD1	2.51	0.46
1:JZ:102:ILE:HD12	1:JZ:126:LEU:HD11	1.96	0.46
1:LD:101:LEU:O	1:LD:105:VAL:HG23	2.14	0.46
1:LS:8:LYS:HA	1:LS:19:PHE:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MT:8:LYS:HA	1:MT:19:PHE:CD1	2.51	0.46
1:MZ:8:LYS:HA	1:MZ:19:PHE:CD1	2.51	0.46
1:AI:10:ARG:NH1	1:GE:15:ASP:OD1	2.48	0.46
1:AP:83:VAL:HG11	1:FV:27:THR:HA	1.98	0.46
1:AQ:8:LYS:HA	1:AQ:19:PHE:CD1	2.50	0.46
1:AW:101:LEU:O	1:AW:105:VAL:HG23	2.14	0.46
1:BI:101:LEU:O	1:BI:105:VAL:HG23	2.14	0.46
1:BX:8:LYS:HA	1:BX:19:PHE:CD1	2.51	0.46
1:CC:99:SER:OG	1:CC:124:GLU:O	2.20	0.46
1:CG:101:LEU:O	1:CG:105:VAL:HG23	2.14	0.46
1:EU:8:LYS:HA	1:EU:19:PHE:CD1	2.51	0.46
1:EU:86:THR:HG22	1:EU:88:GLU:H	1.79	0.46
1:EX:8:LYS:HA	1:EX:19:PHE:CD1	2.51	0.46
1:HO:101:LEU:O	1:HO:105:VAL:HG23	2.14	0.46
1:IG:8:LYS:HA	1:IG:19:PHE:CD1	2.51	0.46
1:IP:38:LEU:CD2	1:LB:10:ARG:HH21	2.22	0.46
1:IQ:49:VAL:HG11	1:MC:112:ALA:O	2.16	0.46
1:IY:8:LYS:HA	1:IY:19:PHE:CD1	2.51	0.46
1:JH:38:LEU:HD22	1:NG:10:ARG:HH21	1.80	0.46
1:JX:89:ASP:OD2	1:NJ:59:ILE:HD12	2.16	0.46
1:KL:8:LYS:HA	1:KL:19:PHE:CD1	2.50	0.46
1:LD:8:LYS:HA	1:LD:19:PHE:CD1	2.51	0.46
1:LG:8:LYS:HA	1:LG:19:PHE:CD1	2.51	0.46
1:MN:86:THR:HG22	1:MN:88:GLU:H	1.79	0.46
1:NO:8:LYS:HA	1:NO:19:PHE:CD1	2.51	0.46
1:NR:8:LYS:HA	1:NR:19:PHE:CD1	2.51	0.46
1:AF:101:LEU:HD22	1:DR:94:LEU:HD22	1.98	0.46
1:AH:8:LYS:HA	1:AH:19:PHE:CD1	2.51	0.46
1:AK:8:LYS:HA	1:AK:19:PHE:CD1	2.50	0.46
1:AZ:102:ILE:HD12	1:AZ:126:LEU:HD11	1.96	0.46
1:CK:8:LYS:HB2	1:FW:119:ASP:O	2.16	0.46
1:DQ:102:ILE:HD12	1:DQ:126:LEU:HD11	1.97	0.46
1:EH:113:TYR:O	1:EP:26:VAL:HG21	2.15	0.46
1:EO:8:LYS:HA	1:EO:19:PHE:CD1	2.51	0.46
1:FA:8:LYS:HA	1:FA:19:PHE:CD1	2.51	0.46
1:FR:8:LYS:HB2	1:FS:119:ASP:O	2.16	0.46
1:HH:8:LYS:HB2	1:HI:119:ASP:O	2.16	0.46
1:HS:57:LYS:HZ3	1:LE:92:GLU:CD	2.19	0.46
1:KQ:8:LYS:HB2	1:KR:119:ASP:O	2.16	0.46
1:LA:8:LYS:HA	1:LA:19:PHE:CD1	2.50	0.46
1:MN:8:LYS:HA	1:MN:19:PHE:CD1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NI:8:LYS:HA	1:NI:19:PHE:CD1	2.50	0.46
1:NI:102:ILE:HD12	1:NI:126:LEU:HD11	1.96	0.46
1:NT:8:LYS:HB2	1:NU:119:ASP:O	2.16	0.46
1:BO:8:LYS:HA	1:BO:19:PHE:CD1	2.51	0.46
1:BP:94:LEU:HD23	1:FB:75:ILE:HD12	1.98	0.46
1:BX:86:THR:HG22	1:BX:88:GLU:H	1.79	0.46
1:CD:102:ILE:HD12	1:CD:126:LEU:HD11	1.97	0.46
1:CJ:8:LYS:HA	1:CJ:19:PHE:CD1	2.51	0.46
1:CK:113:TYR:CD1	1:FW:90:ARG:NH2	2.84	0.46
1:CX:8:LYS:HB2	1:CY:119:ASP:O	2.16	0.46
1:DA:8:LYS:HB2	1:DB:119:ASP:O	2.16	0.46
1:DJ:8:LYS:HB2	1:DK:119:ASP:O	2.16	0.46
1:DK:8:LYS:HA	1:DK:19:PHE:CD1	2.51	0.46
1:DY:8:LYS:HB2	1:DZ:119:ASP:O	2.16	0.46
1:EK:8:LYS:HB2	1:EL:119:ASP:O	2.16	0.46
1:FD:8:LYS:HA	1:FD:19:PHE:CD1	2.50	0.46
1:FF:8:LYS:HB2	1:FG:119:ASP:O	2.16	0.46
1:HE:4:ILE:HB	1:HF:123:ILE:HG13	1.98	0.46
1:HE:8:LYS:HB2	1:HF:119:ASP:O	2.16	0.46
1:HI:8:LYS:HA	1:HI:19:PHE:CD1	2.50	0.46
1:HK:8:LYS:HB2	1:HL:119:ASP:O	2.16	0.46
1:HN:8:LYS:HB2	1:HO:119:ASP:O	2.16	0.46
1:HN:99:SER:OG	1:HN:124:GLU:O	2.20	0.46
1:HR:8:LYS:HA	1:HR:19:PHE:CD1	2.51	0.46
1:ID:8:LYS:HA	1:ID:19:PHE:CD1	2.51	0.46
1:IO:8:LYS:HB2	1:IP:119:ASP:O	2.16	0.46
1:IW:49:VAL:CG1	1:MI:112:ALA:O	2.60	0.46
1:JF:94:LEU:HD12	1:MR:109:GLN:HE21	1.81	0.46
1:JH:8:LYS:HA	1:JH:19:PHE:CD1	2.50	0.46
1:JK:101:LEU:O	1:JK:105:VAL:HG23	2.14	0.46
1:JO:119:ASP:O	1:NA:8:LYS:HB2	2.16	0.46
1:JQ:86:THR:HG22	1:JQ:88:GLU:H	1.79	0.46
1:JQ:101:LEU:O	1:JQ:105:VAL:HG23	2.14	0.46
1:JT:86:THR:HG22	1:JT:88:GLU:H	1.79	0.46
1:JW:8:LYS:HA	1:JW:19:PHE:CD1	2.51	0.46
1:KG:104:GLU:OE1	1:NS:53:ARG:NH1	2.32	0.46
1:KK:99:SER:OG	1:KK:124:GLU:O	2.20	0.46
1:KT:99:SER:OG	1:KT:124:GLU:O	2.20	0.46
1:KZ:4:ILE:HB	1:LA:123:ILE:HG13	1.98	0.46
1:LI:8:LYS:HB2	1:LJ:119:ASP:O	2.16	0.46
1:LS:86:THR:HG22	1:LS:88:GLU:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MB:102:ILE:HD12	1:MB:126:LEU:HD11	1.96	0.46
1:NE:8:LYS:HB2	1:NF:119:ASP:O	2.16	0.46
1:NU:8:LYS:HA	1:NU:19:PHE:CD1	2.51	0.46
1:AA:8:LYS:HB2	1:AB:119:ASP:O	2.16	0.46
1:AT:8:LYS:HA	1:AT:19:PHE:CD1	2.51	0.46
1:BG:8:LYS:HB2	1:ES:119:ASP:O	2.16	0.46
1:BJ:125:ASP:HB2	1:EV:4:ILE:CG1	2.46	0.46
1:BM:49:VAL:HG11	1:EY:112:ALA:O	2.15	0.46
1:BP:80:SER:HB2	1:FB:74:VAL:HG22	1.98	0.46
1:CE:92:GLU:CD	1:FQ:57:LYS:HZ3	2.19	0.46
1:CT:104:GLU:OE1	1:GF:53:ARG:NH1	2.36	0.46
1:CV:8:LYS:HA	1:CV:19:PHE:CD1	2.51	0.46
1:DP:4:ILE:HB	1:DQ:123:ILE:HG13	1.98	0.46
1:EB:114:SER:HA	1:GC:26:VAL:CG2	2.45	0.46
1:EH:8:LYS:HB2	1:EI:119:ASP:O	2.16	0.46
1:EN:4:ILE:HB	1:EO:123:ILE:HG13	1.98	0.46
1:EW:4:ILE:HB	1:EX:123:ILE:HG13	1.98	0.46
1:FU:8:LYS:HB2	1:FV:119:ASP:O	2.16	0.46
1:FX:4:ILE:HB	1:FY:123:ILE:HG13	1.98	0.46
1:GV:8:LYS:HB2	1:GW:119:ASP:O	2.16	0.46
1:GY:38:LEU:HB2	1:MW:10:ARG:NH1	2.31	0.46
1:GZ:102:ILE:HD12	1:GZ:126:LEU:HD11	1.96	0.46
1:HB:126:LEU:HD23	1:HB:126:LEU:HA	1.85	0.46
1:HV:49:VAL:HG11	1:LH:112:ALA:O	2.16	0.46
1:HW:8:LYS:HB2	1:HX:119:ASP:O	2.16	0.46
1:HW:114:SER:HA	1:LH:26:VAL:CG2	2.46	0.46
1:HZ:113:TYR:O	1:IQ:26:VAL:HG21	2.15	0.46
1:IC:4:ILE:HB	1:ID:123:ILE:HG13	1.98	0.46
1:IF:8:LYS:HB2	1:IG:119:ASP:O	2.16	0.46
1:IL:8:LYS:HB2	1:IM:119:ASP:O	2.16	0.46
1:IM:102:ILE:HD12	1:IM:126:LEU:HD11	1.96	0.46
1:JQ:102:ILE:HD12	1:JQ:126:LEU:HD11	1.96	0.46
1:JZ:8:LYS:HA	1:JZ:19:PHE:CD1	2.51	0.46
1:KA:26:VAL:HG21	1:NH:113:TYR:O	2.16	0.46
1:KB:8:LYS:HB2	1:KC:119:ASP:O	2.16	0.46
1:LJ:8:LYS:HA	1:LJ:19:PHE:CD1	2.51	0.46
1:LJ:102:ILE:HD12	1:LJ:126:LEU:HD11	1.97	0.46
1:LY:102:ILE:HD12	1:LY:126:LEU:HD11	1.97	0.46
1:MA:4:ILE:HB	1:MB:123:ILE:HG13	1.98	0.46
1:MG:8:LYS:HB2	1:MH:119:ASP:O	2.16	0.46
1:NN:8:LYS:HB2	1:NO:119:ASP:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NQ:8:LYS:HB2	1:NR:119:ASP:O	2.16	0.46
1:AC:59:ILE:CD1	1:DO:89:ASP:OD2	2.61	0.46
1:AP:4:ILE:HB	1:AQ:123:ILE:HG13	1.98	0.46
1:AS:4:ILE:HB	1:AT:123:ILE:HG13	1.98	0.46
1:BE:4:ILE:HB	1:BF:123:ILE:HG13	1.98	0.46
1:BF:8:LYS:HA	1:BF:19:PHE:CD1	2.50	0.46
1:BH:8:LYS:HB2	1:BI:119:ASP:O	2.16	0.46
1:BT:8:LYS:HB2	1:BU:119:ASP:O	2.16	0.46
1:CD:8:LYS:HA	1:CD:19:PHE:CD1	2.50	0.46
1:CF:4:ILE:HB	1:CG:123:ILE:HG13	1.98	0.46
1:CG:8:LYS:HA	1:CG:19:PHE:CD1	2.51	0.46
1:CJ:102:ILE:HD12	1:CJ:126:LEU:HD11	1.97	0.46
1:DK:102:ILE:HD12	1:DK:126:LEU:HD11	1.97	0.46
1:EU:102:ILE:HD12	1:EU:126:LEU:HD11	1.97	0.46
1:FB:6:ILE:HG22	1:FB:19:PHE:HB3	1.98	0.46
1:FV:102:ILE:HD12	1:FV:126:LEU:HD11	1.96	0.46
1:GM:8:LYS:HB2	1:GN:119:ASP:O	2.16	0.46
1:GY:8:LYS:HB2	1:GZ:119:ASP:O	2.16	0.46
1:GY:38:LEU:HB2	1:MW:10:ARG:HH11	1.81	0.46
1:HB:4:ILE:HB	1:HC:123:ILE:HG13	1.98	0.46
1:HC:102:ILE:HD12	1:HC:126:LEU:HD11	1.97	0.46
1:HJ:90:ARG:NH2	1:KV:113:TYR:CG	2.84	0.46
1:HW:38:LEU:HB2	1:LV:10:ARG:NH1	2.31	0.46
1:IC:114:SER:HA	1:IK:26:VAL:HG21	1.98	0.46
1:IL:4:ILE:HB	1:IM:123:ILE:HG13	1.98	0.46
1:IX:8:LYS:HB2	1:IY:119:ASP:O	2.16	0.46
1:JJ:8:LYS:HB2	1:JK:119:ASP:O	2.16	0.46
1:KB:4:ILE:HB	1:KC:123:ILE:HG13	1.98	0.46
1:KK:126:LEU:HD23	1:KK:126:LEU:HA	1.85	0.46
1:KM:79:THR:HB	1:KM:81:PHE:CE2	2.51	0.46
1:LP:8:LYS:HA	1:LP:19:PHE:CD1	2.51	0.46
1:LV:102:ILE:HD12	1:LV:126:LEU:HD11	1.96	0.46
1:MC:20:THR:OG1	1:MD:116:TYR:OH	2.26	0.46
1:ME:8:LYS:HA	1:ME:19:PHE:CD1	2.51	0.46
1:MH:86:THR:HG22	1:MH:88:GLU:H	1.79	0.46
1:MM:4:ILE:HB	1:MN:123:ILE:HG13	1.98	0.46
1:AB:8:LYS:HA	1:AB:19:PHE:CD1	2.51	0.46
1:AF:79:THR:HB	1:AF:81:PHE:CE2	2.51	0.46
1:AN:8:LYS:HA	1:AN:19:PHE:CD1	2.51	0.46
1:AQ:10:ARG:HE	1:BT:38:LEU:HD13	1.80	0.46
1:AX:6:ILE:HG22	1:AX:19:PHE:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:8:LYS:HB2	1:AZ:119:ASP:O	2.16	0.46
1:BE:8:LYS:HB2	1:BF:119:ASP:O	2.16	0.46
1:CH:79:THR:HB	1:CH:81:PHE:CE2	2.51	0.46
1:CI:99:SER:OG	1:CI:124:GLU:O	2.20	0.46
1:CN:79:THR:HB	1:CN:81:PHE:CE2	2.51	0.46
1:CS:8:LYS:HA	1:CS:19:PHE:CD1	2.51	0.46
1:CY:102:ILE:HD12	1:CY:126:LEU:HD11	1.96	0.46
1:DD:4:ILE:HB	1:DE:123:ILE:HG13	1.98	0.46
1:DN:102:ILE:HD12	1:DN:126:LEU:HD11	1.96	0.46
1:DO:79:THR:HB	1:DO:81:PHE:CE2	2.51	0.46
1:DR:79:THR:HB	1:DR:81:PHE:CE2	2.51	0.46
1:EQ:8:LYS:HB2	1:ER:119:ASP:O	2.16	0.46
1:EZ:4:ILE:HB	1:FA:123:ILE:HG13	1.98	0.46
1:FH:6:ILE:HG22	1:FH:19:PHE:HB3	1.98	0.46
1:FI:4:ILE:HB	1:FJ:123:ILE:HG13	1.98	0.46
1:FJ:8:LYS:HA	1:FJ:19:PHE:CD1	2.51	0.46
1:FO:8:LYS:HB2	1:FP:119:ASP:O	2.16	0.46
1:FQ:79:THR:HB	1:FQ:81:PHE:CE2	2.51	0.46
1:FU:38:LEU:HB2	1:GT:10:ARG:HH11	1.81	0.46
1:FU:99:SER:OG	1:FU:124:GLU:O	2.20	0.46
1:GG:8:LYS:HB2	1:GH:119:ASP:O	2.16	0.46
1:GJ:8:LYS:HB2	1:GK:119:ASP:O	2.16	0.46
1:GS:4:ILE:HB	1:GT:123:ILE:HG13	1.98	0.46
1:GV:4:ILE:HB	1:GW:123:ILE:HG13	1.98	0.46
1:GY:4:ILE:HB	1:GZ:123:ILE:HG13	1.98	0.46
1:GZ:8:LYS:HA	1:GZ:19:PHE:CD1	2.51	0.46
1:HH:4:ILE:HB	1:HI:123:ILE:HG13	1.98	0.46
1:HJ:89:ASP:OD2	1:KV:59:ILE:HD12	2.16	0.46
1:IH:57:LYS:NZ	1:LT:92:GLU:OE2	2.47	0.46
1:IJ:8:LYS:HA	1:IJ:19:PHE:CD1	2.51	0.46
1:IJ:66:ALA:HB1	1:KU:66:ALA:HB3	1.98	0.46
1:IZ:79:THR:HB	1:IZ:81:PHE:CE2	2.51	0.46
1:JC:79:THR:HB	1:JC:81:PHE:CE2	2.51	0.46
1:JD:8:LYS:HB2	1:JE:119:ASP:O	2.16	0.46
1:KH:8:LYS:HB2	1:KI:119:ASP:O	2.16	0.46
1:KP:79:THR:HB	1:KP:81:PHE:CE2	2.51	0.46
1:KX:8:LYS:HA	1:KX:19:PHE:CD1	2.51	0.46
1:KZ:8:LYS:HB2	1:LA:119:ASP:O	2.16	0.46
1:LE:6:ILE:HG22	1:LE:19:PHE:HB3	1.98	0.46
1:LP:10:ARG:NH2	1:MJ:15:ASP:OD1	2.49	0.46
1:LY:8:LYS:HA	1:LY:19:PHE:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MA:8:LYS:HB2	1:MB:119:ASP:O	2.16	0.46
1:ME:102:ILE:HD12	1:ME:126:LEU:HD11	1.97	0.46
1:MF:79:THR:HB	1:MF:81:PHE:CE2	2.51	0.46
1:MJ:4:ILE:HB	1:MK:123:ILE:HG13	1.98	0.46
1:MM:8:LYS:HB2	1:MN:119:ASP:O	2.16	0.46
1:MX:79:THR:HB	1:MX:81:PHE:CE2	2.51	0.46
1:NT:4:ILE:HB	1:NU:123:ILE:HG13	1.98	0.46
1:AR:10:ARG:HH21	1:FV:38:LEU:HD22	1.82	0.45
1:AV:4:ILE:HB	1:AW:123:ILE:HG13	1.98	0.45
1:BJ:49:VAL:HG11	1:EV:112:ALA:O	2.16	0.45
1:BY:6:ILE:HG22	1:BY:19:PHE:HB3	1.99	0.45
1:BZ:4:ILE:HB	1:CA:123:ILE:HG13	1.98	0.45
1:CB:104:GLU:OE1	1:FN:53:ARG:NH1	2.37	0.45
1:CF:8:LYS:HB2	1:CG:119:ASP:O	2.16	0.45
1:CL:8:LYS:HB2	1:CM:119:ASP:O	2.16	0.45
1:CU:8:LYS:HB2	1:CV:119:ASP:O	2.16	0.45
1:DC:79:THR:HB	1:DC:81:PHE:CE2	2.52	0.45
1:DF:6:ILE:HG22	1:DF:19:PHE:HB3	1.99	0.45
1:DI:90:ARG:NH2	1:GU:113:TYR:CD1	2.84	0.45
1:DL:79:THR:HB	1:DL:81:PHE:CE2	2.51	0.45
1:EA:79:THR:HB	1:EA:81:PHE:CE2	2.52	0.45
1:EN:8:LYS:HB2	1:EO:119:ASP:O	2.16	0.45
1:ER:8:LYS:HA	1:ER:19:PHE:CD1	2.50	0.45
1:ET:4:ILE:HB	1:EU:123:ILE:HG13	1.98	0.45
1:ET:8:LYS:HB2	1:EU:119:ASP:O	2.16	0.45
1:FK:6:ILE:HG22	1:FK:19:PHE:HB3	1.99	0.45
1:FS:8:LYS:HA	1:FS:19:PHE:CD1	2.51	0.45
1:GA:8:LYS:HB2	1:GB:119:ASP:O	2.16	0.45
1:GC:79:THR:HB	1:GC:81:PHE:CE2	2.52	0.45
1:GF:79:THR:HB	1:GF:81:PHE:CE2	2.51	0.45
1:GL:79:THR:HB	1:GL:81:PHE:CE2	2.51	0.45
1:GP:4:ILE:HB	1:GQ:123:ILE:HG13	1.98	0.45
1:HH:114:SER:HA	1:IW:26:VAL:CG2	2.45	0.45
1:HQ:79:THR:HB	1:HQ:81:PHE:CE2	2.52	0.45
1:HS:79:THR:HB	1:HS:81:PHE:CE2	2.51	0.45
1:HT:4:ILE:HB	1:HU:123:ILE:HG13	1.98	0.45
1:HZ:4:ILE:HB	1:IA:123:ILE:HG13	1.98	0.45
1:IR:4:ILE:HB	1:IS:123:ILE:HG13	1.98	0.45
1:IT:6:ILE:HG22	1:IT:19:PHE:HB3	1.99	0.45
1:IY:38:LEU:CD2	1:KS:10:ARG:HH21	2.28	0.45
1:JG:8:LYS:HB2	1:JH:119:ASP:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JK:86:THR:HG22	1:JK:88:GLU:H	1.79	0.45
1:JL:6:ILE:HG22	1:JL:19:PHE:HB3	1.99	0.45
1:JR:6:ILE:HG22	1:JR:19:PHE:HB3	1.99	0.45
1:JU:49:VAL:HG11	1:NG:112:ALA:O	2.17	0.45
1:JV:8:LYS:HB2	1:JW:119:ASP:O	2.16	0.45
1:KA:6:ILE:HG22	1:KA:19:PHE:HB3	1.99	0.45
1:KI:8:LYS:HA	1:KI:19:PHE:CD1	2.51	0.45
1:KJ:6:ILE:HG22	1:KJ:19:PHE:HB3	1.98	0.45
1:KK:8:LYS:HB2	1:KL:119:ASP:O	2.16	0.45
1:KV:79:THR:HB	1:KV:81:PHE:CE2	2.51	0.45
1:LC:8:LYS:HB2	1:LD:119:ASP:O	2.16	0.45
1:LD:102:ILE:HD12	1:LD:126:LEU:HD11	1.96	0.45
1:LH:79:THR:HB	1:LH:81:PHE:CE2	2.52	0.45
1:LZ:79:THR:HB	1:LZ:81:PHE:CE2	2.51	0.45
1:MA:79:THR:HB	1:MA:81:PHE:CE2	2.52	0.45
1:MD:8:LYS:HB2	1:ME:119:ASP:O	2.16	0.45
1:MD:99:SER:OG	1:MD:124:GLU:O	2.20	0.45
1:MH:8:LYS:HA	1:MH:19:PHE:CD1	2.51	0.45
1:MK:8:LYS:HA	1:MK:19:PHE:CD1	2.51	0.45
1:MQ:8:LYS:HA	1:MQ:19:PHE:CD1	2.50	0.45
1:NQ:4:ILE:HB	1:NR:123:ILE:HG13	1.98	0.45
1:NS:79:THR:HB	1:NS:81:PHE:CE2	2.51	0.45
1:AD:126:LEU:HD23	1:AD:126:LEU:HA	1.85	0.45
1:AG:38:LEU:HB2	1:GE:10:ARG:NH1	2.31	0.45
1:AJ:79:THR:HB	1:AJ:81:PHE:CE2	2.52	0.45
1:AM:8:LYS:HB2	1:AN:119:ASP:O	2.16	0.45
1:AS:8:LYS:HB2	1:AT:119:ASP:O	2.16	0.45
1:BD:79:THR:HB	1:BD:81:PHE:CE2	2.52	0.45
1:BP:112:ALA:O	1:FB:49:VAL:CG1	2.59	0.45
1:BV:79:THR:HB	1:BV:81:PHE:CE2	2.51	0.45
1:CC:8:LYS:HB2	1:CD:119:ASP:O	2.16	0.45
1:CD:63:ALA:HA	1:CD:68:GLU:HG2	1.99	0.45
1:CR:8:LYS:HB2	1:CS:119:ASP:O	2.16	0.45
1:CZ:6:ILE:HG22	1:CZ:19:PHE:HB3	1.98	0.45
1:DG:8:LYS:HB2	1:DH:119:ASP:O	2.16	0.45
1:DI:6:ILE:HG22	1:DI:19:PHE:HB3	1.98	0.45
1:DP:8:LYS:HB2	1:DQ:119:ASP:O	2.16	0.45
1:DT:8:LYS:HA	1:DT:19:PHE:CD1	2.51	0.45
1:DV:8:LYS:HB2	1:DW:119:ASP:O	2.16	0.45
1:DY:79:THR:HB	1:DY:81:PHE:CE2	2.52	0.45
1:EA:6:ILE:HG22	1:EA:19:PHE:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ED:6:ILE:HG22	1:ED:19:PHE:HB3	1.98	0.45
1:ED:79:THR:HB	1:ED:81:PHE:CE2	2.51	0.45
1:EG:79:THR:HB	1:EG:81:PHE:CE2	2.52	0.45
1:EJ:6:ILE:HG22	1:EJ:19:PHE:HB3	1.99	0.45
1:EK:99:SER:OG	1:EK:124:GLU:O	2.20	0.45
1:EY:6:ILE:HG22	1:EY:19:PHE:HB3	1.99	0.45
1:EY:79:THR:HB	1:EY:81:PHE:CE2	2.52	0.45
1:FE:79:THR:HB	1:FE:81:PHE:CE2	2.51	0.45
1:FO:4:ILE:HB	1:FP:123:ILE:HG13	1.98	0.45
1:FO:126:LEU:HD23	1:FO:126:LEU:HA	1.85	0.45
1:GA:79:THR:HB	1:GA:81:PHE:CE2	2.52	0.45
1:GB:8:LYS:HA	1:GB:19:PHE:CD1	2.51	0.45
1:GE:8:LYS:HA	1:GE:19:PHE:CD1	2.51	0.45
1:GF:6:ILE:HG22	1:GF:19:PHE:HB3	1.99	0.45
1:GI:79:THR:HB	1:GI:81:PHE:CE2	2.52	0.45
1:GJ:4:ILE:HB	1:GK:123:ILE:HG13	1.98	0.45
1:GK:8:LYS:HA	1:GK:19:PHE:CD1	2.50	0.45
1:GN:8:LYS:HA	1:GN:19:PHE:CD1	2.51	0.45
1:GR:6:ILE:HG22	1:GR:19:PHE:HB3	1.98	0.45
1:HB:8:LYS:HB2	1:HC:119:ASP:O	2.16	0.45
1:HB:79:THR:HB	1:HB:81:PHE:CE2	2.52	0.45
1:HK:4:ILE:HB	1:HL:123:ILE:HG13	1.98	0.45
1:HQ:8:LYS:HB2	1:HR:119:ASP:O	2.16	0.45
1:HY:79:THR:HB	1:HY:81:PHE:CE2	2.51	0.45
1:IF:79:THR:HB	1:IF:81:PHE:CE2	2.52	0.45
1:IH:79:THR:HB	1:IH:81:PHE:CE2	2.51	0.45
1:IR:8:LYS:HB2	1:IS:119:ASP:O	2.16	0.45
1:IR:79:THR:HB	1:IR:81:PHE:CE2	2.52	0.45
1:IU:4:ILE:HB	1:IV:123:ILE:HG13	1.98	0.45
1:IW:79:THR:HB	1:IW:81:PHE:CE2	2.51	0.45
1:IW:113:TYR:CG	1:MI:90:ARG:NH2	2.85	0.45
1:JG:79:THR:HB	1:JG:81:PHE:CE2	2.52	0.45
1:JR:79:THR:HB	1:JR:81:PHE:CE2	2.52	0.45
1:JT:102:ILE:HD12	1:JT:126:LEU:HD11	1.97	0.45
1:JX:79:THR:HB	1:JX:81:PHE:CE2	2.52	0.45
1:KH:9:LEU:HA	1:NV:116:TYR:CE1	2.51	0.45
1:KK:4:ILE:HB	1:KL:123:ILE:HG13	1.98	0.45
1:KN:79:THR:HB	1:KN:81:PHE:CE2	2.52	0.45
1:KQ:126:LEU:HD23	1:KQ:126:LEU:HA	1.85	0.45
1:KT:4:ILE:HB	1:KU:123:ILE:HG13	1.98	0.45
1:KW:8:LYS:HB2	1:KX:119:ASP:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:79:THR:HB	1:LB:81:PHE:CE2	2.51	0.45
1:LE:79:THR:HB	1:LE:81:PHE:CE2	2.51	0.45
1:LT:6:ILE:HG22	1:LT:19:PHE:HB3	1.99	0.45
1:MX:6:ILE:HG22	1:MX:19:PHE:HB3	1.99	0.45
1:NA:6:ILE:HG22	1:NA:19:PHE:HB3	1.99	0.45
1:NK:4:ILE:HB	1:NL:123:ILE:HG13	1.98	0.45
1:NN:126:LEU:HD23	1:NN:126:LEU:HA	1.85	0.45
1:AC:79:THR:HB	1:AC:81:PHE:CE2	2.51	0.45
1:AP:79:THR:HB	1:AP:81:PHE:CE2	2.52	0.45
1:AQ:10:ARG:HH11	1:BT:38:LEU:CD2	2.29	0.45
1:AR:79:THR:HB	1:AR:81:PHE:CE2	2.51	0.45
1:AV:79:THR:HB	1:AV:81:PHE:CE2	2.52	0.45
1:BB:4:ILE:HB	1:BC:123:ILE:HG13	1.98	0.45
1:BJ:6:ILE:HG22	1:BJ:19:PHE:HB3	1.99	0.45
1:BL:63:ALA:HA	1:BL:68:GLU:HG2	1.99	0.45
1:BN:8:LYS:HB2	1:BO:119:ASP:O	2.16	0.45
1:BN:79:THR:HB	1:BN:81:PHE:CE2	2.52	0.45
1:BQ:8:LYS:HB2	1:BR:119:ASP:O	2.16	0.45
1:BQ:79:THR:HB	1:BQ:81:PHE:CE2	2.52	0.45
1:BS:74:VAL:CG2	1:FE:80:SER:HB2	2.43	0.45
1:BT:4:ILE:HB	1:BU:123:ILE:HG13	1.98	0.45
1:BZ:8:LYS:HB2	1:CA:119:ASP:O	2.16	0.45
1:BZ:79:THR:HB	1:BZ:81:PHE:CE2	2.52	0.45
1:CB:79:THR:HB	1:CB:81:PHE:CE2	2.52	0.45
1:CE:112:ALA:O	1:FQ:49:VAL:HG11	2.16	0.45
1:CG:102:ILE:HD12	1:CG:126:LEU:HD11	1.96	0.45
1:CL:99:SER:OG	1:CL:124:GLU:O	2.20	0.45
1:CQ:79:THR:HB	1:CQ:81:PHE:CE2	2.51	0.45
1:CW:92:GLU:OE2	1:GI:57:LYS:NZ	2.47	0.45
1:DD:79:THR:HB	1:DD:81:PHE:CE2	2.52	0.45
1:DL:92:GLU:CD	1:GX:57:LYS:HZ3	2.20	0.45
1:DY:4:ILE:HB	1:DZ:123:ILE:HG13	1.98	0.45
1:EB:79:THR:HB	1:EB:81:PHE:CE2	2.52	0.45
1:EF:10:ARG:NH1	1:ET:38:LEU:HB2	2.31	0.45
1:EG:6:ILE:HG22	1:EG:19:PHE:HB3	1.99	0.45
1:EH:79:THR:HB	1:EH:81:PHE:CE2	2.52	0.45
1:EI:15:ASP:OD1	1:EP:10:ARG:NH1	2.49	0.45
1:ES:6:ILE:HG22	1:ES:19:PHE:HB3	1.98	0.45
1:FY:63:ALA:HA	1:FY:68:GLU:HG2	1.99	0.45
1:GD:8:LYS:HB2	1:GE:119:ASP:O	2.16	0.45
1:GO:79:THR:HB	1:GO:81:PHE:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GR:79:THR:HB	1:GR:81:PHE:CE2	2.51	0.45
1:GX:79:THR:HB	1:GX:81:PHE:CE2	2.52	0.45
1:GY:79:THR:HB	1:GY:81:PHE:CE2	2.52	0.45
1:GZ:63:ALA:HA	1:GZ:68:GLU:HG2	1.99	0.45
1:HE:79:THR:HB	1:HE:81:PHE:CE2	2.52	0.45
1:HG:6:ILE:HG22	1:HG:19:PHE:HB3	1.99	0.45
1:HN:79:THR:HB	1:HN:81:PHE:CE2	2.52	0.45
1:HT:79:THR:HB	1:HT:81:PHE:CE2	2.52	0.45
1:HX:8:LYS:HA	1:HX:19:PHE:CD1	2.51	0.45
1:II:8:LYS:HB2	1:IJ:119:ASP:O	2.16	0.45
1:JF:79:THR:HB	1:JF:81:PHE:CE2	2.51	0.45
1:JI:6:ILE:HG22	1:JI:19:PHE:HB3	1.99	0.45
1:JM:4:ILE:HB	1:JN:123:ILE:HG13	1.98	0.45
1:JO:6:ILE:HG22	1:JO:19:PHE:HB3	1.98	0.45
1:JQ:63:ALA:HA	1:JQ:68:GLU:HG2	1.99	0.45
1:JS:8:LYS:HB2	1:JT:119:ASP:O	2.16	0.45
1:JY:4:ILE:HB	1:JZ:123:ILE:HG13	1.98	0.45
1:JY:99:SER:OG	1:JY:124:GLU:O	2.20	0.45
1:KR:8:LYS:HA	1:KR:19:PHE:CD1	2.50	0.45
1:KT:79:THR:HB	1:KT:81:PHE:CE2	2.52	0.45
1:LF:8:LYS:HB2	1:LG:119:ASP:O	2.16	0.45
1:LI:99:SER:OG	1:LI:124:GLU:O	2.20	0.45
1:LL:8:LYS:HB2	1:LM:119:ASP:O	2.16	0.45
1:LP:10:ARG:NH1	1:MJ:38:LEU:HB2	2.31	0.45
1:MV:4:ILE:HB	1:MW:123:ILE:HG13	1.98	0.45
1:MV:8:LYS:HB2	1:MW:119:ASP:O	2.16	0.45
1:NE:4:ILE:HB	1:NF:123:ILE:HG13	1.98	0.45
1:NE:99:SER:OG	1:NE:124:GLU:O	2.20	0.45
1:NP:79:THR:HB	1:NP:81:PHE:CE2	2.52	0.45
1:AA:4:ILE:HB	1:AB:123:ILE:HG13	1.98	0.45
1:AC:26:VAL:HG21	1:FX:114:SER:HA	1.97	0.45
1:AL:6:ILE:HG22	1:AL:19:PHE:HB3	1.99	0.45
1:AN:10:ARG:HH11	1:BZ:38:LEU:HB2	1.82	0.45
1:AT:63:ALA:HA	1:AT:68:GLU:HG2	1.99	0.45
1:BP:79:THR:HB	1:BP:81:PHE:CE2	2.51	0.45
1:BR:63:ALA:HA	1:BR:68:GLU:HG2	1.99	0.45
1:CE:79:THR:HB	1:CE:81:PHE:CE2	2.52	0.45
1:CF:79:THR:HB	1:CF:81:PHE:CE2	2.52	0.45
1:CO:8:LYS:HB2	1:CP:119:ASP:O	2.16	0.45
1:CR:4:ILE:HB	1:CS:123:ILE:HG13	1.98	0.45
1:CU:4:ILE:HB	1:CV:123:ILE:HG13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CZ:90:ARG:NH2	1:GL:113:TYR:CG	2.84	0.45
1:DD:8:LYS:HB2	1:DE:119:ASP:O	2.16	0.45
1:DF:79:THR:HB	1:DF:81:PHE:CE2	2.52	0.45
1:DM:4:ILE:HB	1:DN:123:ILE:HG13	1.98	0.45
1:DM:8:LYS:HB2	1:DN:119:ASP:O	2.16	0.45
1:DS:79:THR:HB	1:DS:81:PHE:CE2	2.52	0.45
1:EE:8:LYS:HB2	1:EF:119:ASP:O	2.16	0.45
1:EJ:79:THR:HB	1:EJ:81:PHE:CE2	2.51	0.45
1:EZ:8:LYS:HB2	1:FA:119:ASP:O	2.16	0.45
1:FA:63:ALA:HA	1:FA:68:GLU:HG2	1.99	0.45
1:FF:79:THR:HB	1:FF:81:PHE:CE2	2.52	0.45
1:FR:4:ILE:HB	1:FS:123:ILE:HG13	1.98	0.45
1:FT:6:ILE:HG22	1:FT:19:PHE:HB3	1.98	0.45
1:FU:118:GLN:HB3	1:FU:121:TYR:CZ	2.52	0.45
1:GB:9:LEU:CG	1:GB:10:ARG:H	2.29	0.45
1:GH:8:LYS:HA	1:GH:19:PHE:CD1	2.50	0.45
1:GL:6:ILE:HG22	1:GL:19:PHE:HB3	1.99	0.45
1:GN:63:ALA:HA	1:GN:68:GLU:HG2	1.99	0.45
1:GP:8:LYS:HB2	1:GQ:119:ASP:O	2.16	0.45
1:HF:8:LYS:HA	1:HF:19:PHE:CD1	2.50	0.45
1:HF:63:ALA:HA	1:HF:68:GLU:HG2	1.99	0.45
1:HG:74:VAL:HG22	1:KS:80:SER:HB2	1.98	0.45
1:HG:79:THR:HB	1:HG:81:PHE:CE2	2.51	0.45
1:HN:4:ILE:HB	1:HO:123:ILE:HG13	1.98	0.45
1:HP:53:ARG:NH1	1:LB:104:GLU:OE1	2.39	0.45
1:HW:79:THR:HB	1:HW:81:PHE:CE2	2.52	0.45
1:HY:6:ILE:HG22	1:HY:19:PHE:HB3	1.99	0.45
1:IS:8:LYS:HA	1:IS:19:PHE:CD1	2.51	0.45
1:JF:6:ILE:HG22	1:JF:19:PHE:HB3	1.99	0.45
1:JL:79:THR:HB	1:JL:81:PHE:CE2	2.51	0.45
1:JM:38:LEU:HB2	1:KI:10:ARG:HH11	1.80	0.45
1:JU:77:THR:HA	1:NG:76:LYS:O	2.16	0.45
1:KE:4:ILE:HB	1:KF:123:ILE:HG13	1.98	0.45
1:KG:79:THR:HB	1:KG:81:PHE:CE2	2.51	0.45
1:LH:6:ILE:HG22	1:LH:19:PHE:HB3	1.99	0.45
1:LN:79:THR:HB	1:LN:81:PHE:CE2	2.52	0.45
1:LU:8:LYS:HB2	1:LV:119:ASP:O	2.16	0.45
1:LV:63:ALA:HA	1:LV:68:GLU:HG2	1.99	0.45
1:LW:79:THR:HB	1:LW:81:PHE:CE2	2.52	0.45
1:LX:8:LYS:HB2	1:LY:119:ASP:O	2.16	0.45
1:ML:79:THR:HB	1:ML:81:PHE:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MS:4:ILE:HB	1:MT:123:ILE:HG13	1.98	0.45
1:MS:79:THR:HB	1:MS:81:PHE:CE2	2.52	0.45
1:NA:79:THR:HB	1:NA:81:PHE:CE2	2.52	0.45
1:NH:4:ILE:HB	1:NI:123:ILE:HG13	1.98	0.45
1:NK:79:THR:HB	1:NK:81:PHE:CE2	2.52	0.45
1:NN:4:ILE:HB	1:NO:123:ILE:HG13	1.98	0.45
1:NN:79:THR:HB	1:NN:81:PHE:CE2	2.52	0.45
1:NR:63:ALA:HA	1:NR:68:GLU:HG2	1.99	0.45
1:NT:118:GLN:HB3	1:NT:121:TYR:CZ	2.52	0.45
1:AC:74:VAL:CG2	1:DO:80:SER:HB2	2.45	0.45
1:AG:118:GLN:HB3	1:AG:121:TYR:CZ	2.52	0.45
1:AW:63:ALA:HA	1:AW:68:GLU:HG2	1.99	0.45
1:AY:79:THR:HB	1:AY:81:PHE:CE2	2.52	0.45
1:BB:8:LYS:HB2	1:BC:119:ASP:O	2.16	0.45
1:BB:79:THR:HB	1:BB:81:PHE:CE2	2.52	0.45
1:BJ:79:THR:HB	1:BJ:81:PHE:CE2	2.52	0.45
1:BK:8:LYS:HB2	1:BL:119:ASP:O	2.16	0.45
1:BM:79:THR:HB	1:BM:81:PHE:CE2	2.51	0.45
1:BP:6:ILE:HG22	1:BP:19:PHE:HB3	1.98	0.45
1:BQ:4:ILE:HB	1:BR:123:ILE:HG13	1.98	0.45
1:CB:116:TYR:CE1	1:FL:9:LEU:HA	2.52	0.45
1:CC:79:THR:HB	1:CC:81:PHE:CE2	2.52	0.45
1:CJ:63:ALA:HA	1:CJ:68:GLU:HG2	1.99	0.45
1:CP:8:LYS:HA	1:CP:19:PHE:CD1	2.51	0.45
1:CT:79:THR:HB	1:CT:81:PHE:CE2	2.52	0.45
1:CX:4:ILE:HB	1:CY:123:ILE:HG13	1.98	0.45
1:CX:79:THR:HB	1:CX:81:PHE:CE2	2.52	0.45
1:DC:6:ILE:HG22	1:DC:19:PHE:HB3	1.98	0.45
1:DS:4:ILE:HB	1:DT:123:ILE:HG13	1.98	0.45
1:DT:102:ILE:HD12	1:DT:126:LEU:HD11	1.96	0.45
1:DU:6:ILE:HG22	1:DU:19:PHE:HB3	1.98	0.45
1:EN:79:THR:HB	1:EN:81:PHE:CE2	2.52	0.45
1:EN:118:GLN:HB3	1:EN:121:TYR:CZ	2.52	0.45
1:EQ:118:GLN:HB3	1:EQ:121:TYR:CZ	2.52	0.45
1:ET:79:THR:HB	1:ET:81:PHE:CE2	2.52	0.45
1:EW:8:LYS:HB2	1:EX:119:ASP:O	2.16	0.45
1:EX:63:ALA:HA	1:EX:68:GLU:HG2	1.99	0.45
1:FJ:63:ALA:HA	1:FJ:68:GLU:HG2	1.99	0.45
1:FK:79:THR:HB	1:FK:81:PHE:CE2	2.52	0.45
1:FL:79:THR:HB	1:FL:81:PHE:CE2	2.52	0.45
1:FS:9:LEU:CG	1:FS:10:ARG:H	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GD:118:GLN:HB3	1:GD:121:TYR:CZ	2.52	0.45
1:GG:4:ILE:HB	1:GH:123:ILE:HG13	1.98	0.45
1:GS:8:LYS:HB2	1:GT:119:ASP:O	2.16	0.45
1:GY:118:GLN:HB3	1:GY:121:TYR:CZ	2.52	0.45
1:HL:8:LYS:HA	1:HL:19:PHE:CD1	2.51	0.45
1:HS:6:ILE:HG22	1:HS:19:PHE:HB3	1.99	0.45
1:HU:63:ALA:HA	1:HU:68:GLU:HG2	1.99	0.45
1:HY:57:LYS:HZ3	1:LK:92:GLU:CD	2.20	0.45
1:IC:79:THR:HB	1:IC:81:PHE:CE2	2.52	0.45
1:IK:6:ILE:HG22	1:IK:19:PHE:HB3	1.99	0.45
1:IM:63:ALA:HA	1:IM:68:GLU:HG2	1.99	0.45
1:IP:8:LYS:HA	1:IP:19:PHE:CD1	2.51	0.45
1:IV:8:LYS:HA	1:IV:19:PHE:CD1	2.51	0.45
1:JA:4:ILE:HB	1:JB:123:ILE:HG13	1.98	0.45
1:JA:118:GLN:HB3	1:JA:121:TYR:CZ	2.52	0.45
1:JD:79:THR:HB	1:JD:81:PHE:CE2	2.52	0.45
1:JI:79:THR:HB	1:JI:81:PHE:CE2	2.52	0.45
1:JJ:79:THR:HB	1:JJ:81:PHE:CE2	2.52	0.45
1:JO:79:THR:HB	1:JO:81:PHE:CE2	2.51	0.45
1:KE:79:THR:HB	1:KE:81:PHE:CE2	2.52	0.45
1:KF:8:LYS:HA	1:KF:19:PHE:CD1	2.51	0.45
1:KK:79:THR:HB	1:KK:81:PHE:CE2	2.52	0.45
1:KK:118:GLN:HB3	1:KK:121:TYR:CZ	2.52	0.45
1:LI:4:ILE:HB	1:LJ:123:ILE:HG13	1.98	0.45
1:LI:79:THR:HB	1:LI:81:PHE:CE2	2.52	0.45
1:LM:9:LEU:CG	1:LM:10:ARG:H	2.29	0.45
1:LM:38:LEU:CD2	1:MI:10:ARG:HH21	2.29	0.45
1:LO:79:THR:HB	1:LO:81:PHE:CE2	2.52	0.45
1:LO:99:SER:OG	1:LO:124:GLU:O	2.20	0.45
1:LR:8:LYS:HB2	1:LS:119:ASP:O	2.16	0.45
1:LU:79:THR:HB	1:LU:81:PHE:CE2	2.52	0.45
1:MA:126:LEU:HD23	1:MA:126:LEU:HA	1.85	0.45
1:MG:4:ILE:HB	1:MH:123:ILE:HG13	1.98	0.45
1:MN:63:ALA:HA	1:MN:68:GLU:HG2	1.99	0.45
1:MP:8:LYS:HB2	1:MQ:119:ASP:O	2.16	0.45
1:MY:8:LYS:HB2	1:MZ:119:ASP:O	2.16	0.45
1:NB:8:LYS:HB2	1:NC:119:ASP:O	2.16	0.45
1:NL:63:ALA:HA	1:NL:68:GLU:HG2	1.99	0.45
1:AA:118:GLN:HB3	1:AA:121:TYR:CZ	2.52	0.45
1:AF:119:ASP:O	1:DR:8:LYS:HB2	2.17	0.45
1:AI:92:GLU:OE2	1:DU:57:LYS:NZ	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:79:THR:HB	1:AM:81:PHE:CE2	2.52	0.45
1:BG:90:ARG:NH2	1:ES:113:TYR:CG	2.84	0.45
1:BK:79:THR:HB	1:BK:81:PHE:CE2	2.52	0.45
1:BN:118:GLN:HB3	1:BN:121:TYR:CZ	2.52	0.45
1:BW:79:THR:HB	1:BW:81:PHE:CE2	2.52	0.45
1:BY:79:THR:HB	1:BY:81:PHE:CE2	2.52	0.45
1:DA:79:THR:HB	1:DA:81:PHE:CE2	2.52	0.45
1:DG:118:GLN:HB3	1:DG:121:TYR:CZ	2.52	0.45
1:DR:6:ILE:HG22	1:DR:19:PHE:HB3	1.99	0.45
1:EB:8:LYS:HB2	1:EC:119:ASP:O	2.16	0.45
1:EM:6:ILE:HG22	1:EM:19:PHE:HB3	1.98	0.45
1:EV:79:THR:HB	1:EV:81:PHE:CE2	2.52	0.45
1:EZ:118:GLN:HB3	1:EZ:121:TYR:CZ	2.52	0.45
1:FL:4:ILE:HB	1:FM:123:ILE:HG13	1.98	0.45
1:FL:118:GLN:HB3	1:FL:121:TYR:CZ	2.52	0.45
1:FP:8:LYS:HA	1:FP:19:PHE:CD1	2.51	0.45
1:FW:6:ILE:HG22	1:FW:19:PHE:HB3	1.99	0.45
1:GD:79:THR:HB	1:GD:81:PHE:CE2	2.52	0.45
1:GK:5:ALA:O	1:GK:22:PRO:HD3	2.17	0.45
1:GK:63:ALA:HA	1:GK:68:GLU:HG2	1.99	0.45
1:HD:6:ILE:HG22	1:HD:19:PHE:HB3	1.99	0.45
1:HK:79:THR:HB	1:HK:81:PHE:CE2	2.52	0.45
1:HM:79:THR:HB	1:HM:81:PHE:CE2	2.52	0.45
1:HN:118:GLN:HB3	1:HN:121:TYR:CZ	2.52	0.45
1:HQ:4:ILE:HB	1:HR:123:ILE:HG13	1.98	0.45
1:HQ:118:GLN:HB3	1:HQ:121:TYR:CZ	2.52	0.45
1:HR:63:ALA:HA	1:HR:68:GLU:HG2	1.99	0.45
1:IB:79:THR:HB	1:IB:81:PHE:CE2	2.51	0.45
1:IC:8:LYS:HB2	1:ID:119:ASP:O	2.16	0.45
1:IH:92:GLU:CD	1:LT:57:LYS:HZ3	2.18	0.45
1:IS:63:ALA:HA	1:IS:68:GLU:HG2	1.99	0.45
1:IV:5:ALA:O	1:IV:22:PRO:HD3	2.17	0.45
1:IW:6:ILE:HG22	1:IW:19:PHE:HB3	1.99	0.45
1:IX:4:ILE:HB	1:IY:123:ILE:HG13	1.98	0.45
1:JM:79:THR:HB	1:JM:81:PHE:CE2	2.52	0.45
1:JO:57:LYS:HZ3	1:NA:92:GLU:CD	2.16	0.45
1:JO:113:TYR:CG	1:NA:90:ARG:NH2	2.84	0.45
1:JR:57:LYS:HZ3	1:ND:92:GLU:CD	2.20	0.45
1:JU:79:THR:HB	1:JU:81:PHE:CE2	2.51	0.45
1:KH:118:GLN:HB3	1:KH:121:TYR:CZ	2.52	0.45
1:KV:6:ILE:HG22	1:KV:19:PHE:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KW:4:ILE:HB	1:KX:123:ILE:HG13	1.98	0.45
1:KW:118:GLN:HB3	1:KW:121:TYR:CZ	2.52	0.45
1:KZ:79:THR:HB	1:KZ:81:PHE:CE2	2.52	0.45
1:LF:79:THR:HB	1:LF:81:PHE:CE2	2.52	0.45
1:LK:79:THR:HB	1:LK:81:PHE:CE2	2.51	0.45
1:LL:79:THR:HB	1:LL:81:PHE:CE2	2.52	0.45
1:LO:8:LYS:HB2	1:LP:119:ASP:O	2.16	0.45
1:LQ:79:THR:HB	1:LQ:81:PHE:CE2	2.51	0.45
1:LR:79:THR:HB	1:LR:81:PHE:CE2	2.52	0.45
1:MD:118:GLN:HB3	1:MD:121:TYR:CZ	2.52	0.45
1:MG:79:THR:HB	1:MG:81:PHE:CE2	2.52	0.45
1:MJ:8:LYS:HB2	1:MK:119:ASP:O	2.16	0.45
1:MM:79:THR:HB	1:MM:81:PHE:CE2	2.52	0.45
1:MV:79:THR:HB	1:MV:81:PHE:CE2	2.52	0.45
1:MV:118:GLN:HB3	1:MV:121:TYR:CZ	2.52	0.45
1:MY:118:GLN:HB3	1:MY:121:TYR:CZ	2.52	0.45
1:MZ:63:ALA:HA	1:MZ:68:GLU:HG2	1.99	0.45
1:NK:8:LYS:HB2	1:NL:119:ASP:O	2.16	0.45
1:NQ:79:THR:HB	1:NQ:81:PHE:CE2	2.52	0.45
1:NS:6:ILE:HG22	1:NS:19:PHE:HB3	1.99	0.45
1:NT:79:THR:HB	1:NT:81:PHE:CE2	2.52	0.45
1:AD:79:THR:HB	1:AD:81:PHE:CE2	2.52	0.45
1:AJ:99:SER:OG	1:AJ:124:GLU:O	2.20	0.45
1:AK:63:ALA:HA	1:AK:68:GLU:HG2	1.99	0.45
1:AO:79:THR:HB	1:AO:81:PHE:CE2	2.51	0.45
1:AV:8:LYS:HB2	1:AW:119:ASP:O	2.16	0.45
1:AV:118:GLN:HB3	1:AV:121:TYR:CZ	2.52	0.45
1:AX:79:THR:HB	1:AX:81:PHE:CE2	2.51	0.45
1:AY:4:ILE:HB	1:AZ:123:ILE:HG13	1.98	0.45
1:BF:5:ALA:O	1:BF:22:PRO:HD3	2.17	0.45
1:BF:63:ALA:HA	1:BF:68:GLU:HG2	1.99	0.45
1:BG:79:THR:HB	1:BG:81:PHE:CE2	2.51	0.45
1:BH:79:THR:HB	1:BH:81:PHE:CE2	2.52	0.45
1:BM:6:ILE:HG22	1:BM:19:PHE:HB3	1.99	0.45
1:BN:4:ILE:HB	1:BO:123:ILE:HG13	1.98	0.45
1:BW:8:LYS:HB2	1:BX:119:ASP:O	2.16	0.45
1:BX:9:LEU:CG	1:BX:10:ARG:H	2.30	0.45
1:CG:5:ALA:O	1:CG:22:PRO:HD3	2.17	0.45
1:CI:8:LYS:HB2	1:CJ:119:ASP:O	2.16	0.45
1:CJ:5:ALA:O	1:CJ:22:PRO:HD3	2.17	0.45
1:CL:4:ILE:HB	1:CM:123:ILE:HG13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CQ:6:ILE:HG22	1:CQ:19:PHE:HB3	1.98	0.45
1:CS:5:ALA:O	1:CS:22:PRO:HD3	2.17	0.45
1:CY:5:ALA:O	1:CY:22:PRO:HD3	2.17	0.45
1:DG:4:ILE:HB	1:DH:123:ILE:HG13	1.98	0.45
1:DG:79:THR:HB	1:DG:81:PHE:CE2	2.52	0.45
1:DH:63:ALA:HA	1:DH:68:GLU:HG2	1.99	0.45
1:DJ:79:THR:HB	1:DJ:81:PHE:CE2	2.52	0.45
1:DN:63:ALA:HA	1:DN:68:GLU:HG2	1.99	0.45
1:DS:126:LEU:HD23	1:DS:126:LEU:HA	1.85	0.45
1:DW:95:LYS:HE3	1:DW:126:LEU:O	2.17	0.45
1:EX:9:LEU:CG	1:EX:10:ARG:H	2.30	0.45
1:FB:79:THR:HB	1:FB:81:PHE:CE2	2.51	0.45
1:FH:79:THR:HB	1:FH:81:PHE:CE2	2.52	0.45
1:FO:118:GLN:HB3	1:FO:121:TYR:CZ	2.52	0.45
1:FW:79:THR:HB	1:FW:81:PHE:CE2	2.51	0.45
1:FX:8:LYS:HB2	1:FY:119:ASP:O	2.16	0.45
1:FX:79:THR:HB	1:FX:81:PHE:CE2	2.52	0.45
1:FY:95:LYS:HE3	1:FY:126:LEU:O	2.17	0.45
1:GB:95:LYS:HE3	1:GB:126:LEU:O	2.17	0.45
1:GH:63:ALA:HA	1:GH:68:GLU:HG2	1.99	0.45
1:GP:79:THR:HB	1:GP:81:PHE:CE2	2.52	0.45
1:GS:118:GLN:HB3	1:GS:121:TYR:CZ	2.52	0.45
1:GU:6:ILE:HG22	1:GU:19:PHE:HB3	1.99	0.45
1:HA:4:ILE:HG12	1:KM:125:ASP:HB2	1.97	0.45
1:HD:79:THR:HB	1:HD:81:PHE:CE2	2.51	0.45
1:HG:53:ARG:NH1	1:KS:104:GLU:OE1	2.33	0.45
1:IJ:5:ALA:O	1:IJ:22:PRO:HD3	2.17	0.45
1:IL:118:GLN:HB3	1:IL:121:TYR:CZ	2.52	0.45
1:IN:79:THR:HB	1:IN:81:PHE:CE2	2.51	0.45
1:IO:4:ILE:HB	1:IP:123:ILE:HG13	1.98	0.45
1:JA:8:LYS:HB2	1:JB:119:ASP:O	2.16	0.45
1:JH:5:ALA:O	1:JH:22:PRO:HD3	2.17	0.45
1:JH:63:ALA:HA	1:JH:68:GLU:HG2	1.99	0.45
1:JK:5:ALA:O	1:JK:22:PRO:HD3	2.17	0.45
1:JN:63:ALA:HA	1:JN:68:GLU:HG2	1.99	0.45
1:JV:4:ILE:HB	1:JW:123:ILE:HG13	1.98	0.45
1:JV:126:LEU:HD23	1:JV:126:LEU:HA	1.85	0.45
1:JY:8:LYS:HB2	1:JZ:119:ASP:O	2.16	0.45
1:KC:8:LYS:HA	1:KC:19:PHE:CD1	2.51	0.45
1:KT:8:LYS:HB2	1:KU:119:ASP:O	2.16	0.45
1:KW:79:THR:HB	1:KW:81:PHE:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KX:95:LYS:HE3	1:KX:126:LEU:O	2.17	0.45
1:LG:5:ALA:O	1:LG:22:PRO:HD3	2.17	0.45
1:LM:5:ALA:O	1:LM:22:PRO:HD3	2.17	0.45
1:LR:118:GLN:HB3	1:LR:121:TYR:CZ	2.52	0.45
1:LX:118:GLN:HB3	1:LX:121:TYR:CZ	2.52	0.45
1:MA:118:GLN:HB3	1:MA:121:TYR:CZ	2.52	0.45
1:MB:5:ALA:O	1:MB:22:PRO:HD3	2.17	0.45
1:MH:95:LYS:HE3	1:MH:126:LEU:O	2.17	0.45
1:MK:5:ALA:O	1:MK:22:PRO:HD3	2.17	0.45
1:MP:4:ILE:HB	1:MQ:123:ILE:HG13	1.98	0.45
1:MQ:5:ALA:O	1:MQ:22:PRO:HD3	2.17	0.45
1:NF:9:LEU:CG	1:NF:10:ARG:H	2.29	0.45
1:NF:63:ALA:HA	1:NF:68:GLU:HG2	1.99	0.45
1:NN:118:GLN:HB3	1:NN:121:TYR:CZ	2.52	0.45
1:AN:5:ALA:O	1:AN:22:PRO:HD3	2.17	0.45
1:AN:95:LYS:HE3	1:AN:126:LEU:O	2.17	0.45
1:AO:6:ILE:HG22	1:AO:19:PHE:HB3	1.98	0.45
1:AP:8:LYS:HB2	1:AQ:119:ASP:O	2.16	0.45
1:AS:118:GLN:HB3	1:AS:121:TYR:CZ	2.52	0.45
1:AU:79:THR:HB	1:AU:81:PHE:CE2	2.51	0.45
1:AY:118:GLN:HB3	1:AY:121:TYR:CZ	2.52	0.45
1:AZ:63:ALA:HA	1:AZ:68:GLU:HG2	1.99	0.45
1:BC:5:ALA:O	1:BC:22:PRO:HD3	2.17	0.45
1:BG:6:ILE:HG22	1:BG:19:PHE:HB3	1.99	0.45
1:BH:4:ILE:HB	1:BI:123:ILE:HG13	1.98	0.45
1:BO:5:ALA:O	1:BO:22:PRO:HD3	2.17	0.45
1:BO:9:LEU:CG	1:BO:10:ARG:H	2.29	0.45
1:BR:8:LYS:HA	1:BR:19:PHE:CD1	2.50	0.45
1:BS:79:THR:HB	1:BS:81:PHE:CE2	2.52	0.45
1:BS:125:ASP:HB2	1:FE:4:ILE:CG1	2.47	0.45
1:BT:79:THR:HB	1:BT:81:PHE:CE2	2.52	0.45
1:BV:6:ILE:HG22	1:BV:19:PHE:HB3	1.98	0.45
1:CC:4:ILE:HB	1:CD:123:ILE:HG13	1.98	0.45
1:CD:95:LYS:HE3	1:CD:126:LEU:O	2.17	0.45
1:CE:6:ILE:HG22	1:CE:19:PHE:HB3	1.98	0.45
1:CH:113:TYR:CD1	1:FT:90:ARG:NH2	2.84	0.45
1:CI:4:ILE:HB	1:CJ:123:ILE:HG13	1.98	0.45
1:CO:4:ILE:HB	1:CP:123:ILE:HG13	1.98	0.45
1:CP:5:ALA:O	1:CP:22:PRO:HD3	2.17	0.45
1:CS:95:LYS:HE3	1:CS:126:LEU:O	2.17	0.45
1:CU:79:THR:HB	1:CU:81:PHE:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CV:63:ALA:HA	1:CV:68:GLU:HG2	1.99	0.45
1:CZ:79:THR:HB	1:CZ:81:PHE:CE2	2.51	0.45
1:DC:113:TYR:CD1	1:GO:90:ARG:NH2	2.85	0.45
1:DO:6:ILE:HG22	1:DO:19:PHE:HB3	1.99	0.45
1:DU:79:THR:HB	1:DU:81:PHE:CE2	2.52	0.45
1:DY:118:GLN:HB3	1:DY:121:TYR:CZ	2.52	0.45
1:EH:4:ILE:HB	1:EI:123:ILE:HG13	1.98	0.45
1:EH:118:GLN:HB3	1:EH:121:TYR:CZ	2.52	0.45
1:ER:95:LYS:HE3	1:ER:126:LEU:O	2.17	0.45
1:FG:95:LYS:HE3	1:FG:126:LEU:O	2.17	0.45
1:FP:9:LEU:CG	1:FP:10:ARG:H	2.29	0.45
1:FS:95:LYS:HE3	1:FS:126:LEU:O	2.17	0.45
1:GA:4:ILE:HB	1:GB:123:ILE:HG13	1.98	0.45
1:GG:79:THR:HB	1:GG:81:PHE:CE2	2.52	0.45
1:GM:118:GLN:HB3	1:GM:121:TYR:CZ	2.52	0.45
1:GN:5:ALA:O	1:GN:22:PRO:HD3	2.17	0.45
1:GN:95:LYS:HE3	1:GN:126:LEU:O	2.17	0.45
1:GT:5:ALA:O	1:GT:22:PRO:HD3	2.17	0.45
1:HA:6:ILE:HG22	1:HA:19:PHE:HB3	1.99	0.45
1:HA:79:THR:HB	1:HA:81:PHE:CE2	2.52	0.45
1:HC:95:LYS:HE3	1:HC:126:LEU:O	2.17	0.45
1:HL:95:LYS:HE3	1:HL:126:LEU:O	2.17	0.45
1:HP:79:THR:HB	1:HP:81:PHE:CE2	2.51	0.45
1:HR:5:ALA:O	1:HR:22:PRO:HD3	2.17	0.45
1:HV:79:THR:HB	1:HV:81:PHE:CE2	2.52	0.45
1:IE:79:THR:HB	1:IE:81:PHE:CE2	2.52	0.45
1:IF:4:ILE:HB	1:IG:123:ILE:HG13	1.98	0.45
1:IG:9:LEU:CG	1:IG:10:ARG:H	2.29	0.45
1:IJ:95:LYS:HE3	1:IJ:126:LEU:O	2.17	0.45
1:IR:126:LEU:HD23	1:IR:126:LEU:HA	1.85	0.45
1:IT:90:ARG:NH2	1:MF:113:TYR:CD1	2.84	0.45
1:JP:8:LYS:HB2	1:JQ:119:ASP:O	2.16	0.45
1:JP:118:GLN:HB3	1:JP:121:TYR:CZ	2.52	0.45
1:JS:79:THR:HB	1:JS:81:PHE:CE2	2.52	0.45
1:JU:74:VAL:CG2	1:NG:80:SER:HB2	2.40	0.45
1:JV:79:THR:HB	1:JV:81:PHE:CE2	2.52	0.45
1:JW:5:ALA:O	1:JW:22:PRO:HD3	2.17	0.45
1:KA:53:ARG:NH1	1:NM:104:GLU:OE1	2.35	0.45
1:KR:5:ALA:O	1:KR:22:PRO:HD3	2.17	0.45
1:KS:6:ILE:HG22	1:KS:19:PHE:HB3	1.98	0.45
1:KS:79:THR:HB	1:KS:81:PHE:CE2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LJ:63:ALA:HA	1:LJ:68:GLU:HG2	1.99	0.45
1:LP:95:LYS:HE3	1:LP:126:LEU:O	2.17	0.45
1:LU:4:ILE:HB	1:LV:123:ILE:HG13	1.98	0.45
1:LX:79:THR:HB	1:LX:81:PHE:CE2	2.52	0.45
1:LY:5:ALA:O	1:LY:22:PRO:HD3	2.17	0.45
1:MA:99:SER:OG	1:MA:124:GLU:O	2.20	0.45
1:MP:79:THR:HB	1:MP:81:PHE:CE2	2.52	0.45
1:MQ:63:ALA:HA	1:MQ:68:GLU:HG2	1.99	0.45
1:MR:79:THR:HB	1:MR:81:PHE:CE2	2.52	0.45
1:NI:5:ALA:O	1:NI:22:PRO:HD3	2.17	0.45
1:NI:63:ALA:HA	1:NI:68:GLU:HG2	1.99	0.45
1:NL:9:LEU:CG	1:NL:10:ARG:H	2.29	0.45
1:NL:95:LYS:HE3	1:NL:126:LEU:O	2.17	0.45
1:NM:79:THR:HB	1:NM:81:PHE:CE2	2.51	0.45
1:AI:79:THR:HB	1:AI:81:PHE:CE2	2.52	0.45
1:AJ:4:ILE:HB	1:AK:123:ILE:HG13	1.98	0.45
1:AK:5:ALA:O	1:AK:22:PRO:HD3	2.17	0.45
1:AM:4:ILE:HB	1:AN:123:ILE:HG13	1.98	0.45
1:AQ:10:ARG:NH1	1:BT:38:LEU:CB	2.69	0.45
1:AS:126:LEU:HA	1:AS:126:LEU:HD23	1.85	0.45
1:AW:5:ALA:O	1:AW:22:PRO:HD3	2.17	0.45
1:BF:10:ARG:NH2	1:BK:15:ASP:OD1	2.50	0.45
1:BF:15:ASP:OD1	1:BM:10:ARG:NH1	2.50	0.45
1:BI:63:ALA:HA	1:BI:68:GLU:HG2	1.99	0.45
1:BI:95:LYS:HE3	1:BI:126:LEU:O	2.17	0.45
1:BR:10:ARG:HH11	1:EB:38:LEU:HB2	1.81	0.45
1:BS:6:ILE:HG22	1:BS:19:PHE:HB3	1.99	0.45
1:BU:5:ALA:O	1:BU:22:PRO:HD3	2.17	0.45
1:CA:10:ARG:HH11	1:DS:38:LEU:HD22	1.82	0.45
1:CA:95:LYS:HE3	1:CA:126:LEU:O	2.17	0.45
1:CB:56:ARG:HH21	1:CB:72:PRO:HG3	1.82	0.45
1:CG:95:LYS:HE3	1:CG:126:LEU:O	2.17	0.45
1:CK:79:THR:HB	1:CK:81:PHE:CE2	2.51	0.45
1:CM:5:ALA:O	1:CM:22:PRO:HD3	2.17	0.45
1:CR:79:THR:HB	1:CR:81:PHE:CE2	2.52	0.45
1:DE:63:ALA:HA	1:DE:68:GLU:HG2	1.99	0.45
1:DH:95:LYS:HE3	1:DH:126:LEU:O	2.17	0.45
1:DJ:4:ILE:HB	1:DK:123:ILE:HG13	1.98	0.45
1:DK:5:ALA:O	1:DK:22:PRO:HD3	2.17	0.45
1:DM:118:GLN:HB3	1:DM:121:TYR:CZ	2.52	0.45
1:DP:79:THR:HB	1:DP:81:PHE:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DS:8:LYS:HB2	1:DT:119:ASP:O	2.16	0.45
1:DV:4:ILE:HB	1:DW:123:ILE:HG13	1.98	0.45
1:DV:79:THR:HB	1:DV:81:PHE:CE2	2.52	0.45
1:DW:5:ALA:O	1:DW:22:PRO:HD3	2.17	0.45
1:DX:79:THR:HB	1:DX:81:PHE:CE2	2.52	0.45
1:EB:118:GLN:HB3	1:EB:121:TYR:CZ	2.52	0.45
1:EF:9:LEU:CG	1:EF:10:ARG:H	2.29	0.45
1:EF:95:LYS:HE3	1:EF:126:LEU:O	2.17	0.45
1:EI:95:LYS:HE3	1:EI:126:LEU:O	2.17	0.45
1:EK:4:ILE:HB	1:EL:123:ILE:HG13	1.98	0.45
1:EK:118:GLN:HB3	1:EK:121:TYR:CZ	2.52	0.45
1:EW:118:GLN:HB3	1:EW:121:TYR:CZ	2.52	0.45
1:FC:8:LYS:HB2	1:FD:119:ASP:O	2.16	0.45
1:FF:4:ILE:HB	1:FG:123:ILE:HG13	1.98	0.45
1:FG:5:ALA:O	1:FG:22:PRO:HD3	2.17	0.45
1:FN:79:THR:HB	1:FN:81:PHE:CE2	2.52	0.45
1:FU:79:THR:HB	1:FU:81:PHE:CE2	2.52	0.45
1:FV:95:LYS:HE3	1:FV:126:LEU:O	2.17	0.45
1:GE:95:LYS:HE3	1:GE:126:LEU:O	2.17	0.45
1:HC:8:LYS:HA	1:HC:19:PHE:CD1	2.51	0.45
1:HF:10:ARG:HH11	1:IC:38:LEU:HB2	1.80	0.45
1:HK:21:LEU:HD12	1:HK:30:ASN:OD1	2.17	0.45
1:HM:10:ARG:HD2	1:MQ:15:ASP:OD1	2.17	0.45
1:HZ:8:LYS:HB2	1:IA:119:ASP:O	2.16	0.45
1:ID:5:ALA:O	1:ID:22:PRO:HD3	2.17	0.45
1:IF:118:GLN:HB3	1:IF:121:TYR:CZ	2.52	0.45
1:IK:79:THR:HB	1:IK:81:PHE:CE2	2.52	0.45
1:IQ:6:ILE:HG22	1:IQ:19:PHE:HB3	1.99	0.45
1:IQ:79:THR:HB	1:IQ:81:PHE:CE2	2.52	0.45
1:IS:5:ALA:O	1:IS:22:PRO:HD3	2.17	0.45
1:JE:63:ALA:HA	1:JE:68:GLU:HG2	1.99	0.45
1:JK:95:LYS:HE3	1:JK:126:LEU:O	2.17	0.45
1:KB:79:THR:HB	1:KB:81:PHE:CE2	2.52	0.45
1:KN:8:LYS:HB2	1:KO:119:ASP:O	2.16	0.45
1:KO:95:LYS:HE3	1:KO:126:LEU:O	2.17	0.45
1:KU:5:ALA:O	1:KU:22:PRO:HD3	2.17	0.45
1:LC:79:THR:HB	1:LC:81:PHE:CE2	2.52	0.45
1:LJ:5:ALA:O	1:LJ:22:PRO:HD3	2.17	0.45
1:LJ:95:LYS:HE3	1:LJ:126:LEU:O	2.17	0.45
1:LV:5:ALA:O	1:LV:22:PRO:HD3	2.17	0.45
1:LZ:56:ARG:HH21	1:LZ:72:PRO:HG3	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MC:79:THR:HB	1:MC:81:PHE:CE2	2.51	0.45
1:MD:4:ILE:HB	1:ME:123:ILE:HG13	1.98	0.45
1:MG:118:GLN:HB3	1:MG:121:TYR:CZ	2.52	0.45
1:MH:5:ALA:O	1:MH:22:PRO:HD3	2.17	0.45
1:MO:6:ILE:HG22	1:MO:19:PHE:HB3	1.99	0.45
1:MZ:5:ALA:O	1:MZ:22:PRO:HD3	2.17	0.45
1:NH:79:THR:HB	1:NH:81:PHE:CE2	2.52	0.45
1:NI:95:LYS:HE3	1:NI:126:LEU:O	2.17	0.45
1:NR:95:LYS:HE3	1:NR:126:LEU:O	2.17	0.45
1:AA:21:LEU:HD12	1:AA:30:ASN:OD1	2.17	0.45
1:AD:4:ILE:HB	1:AE:123:ILE:HG13	1.98	0.45
1:AE:5:ALA:O	1:AE:22:PRO:HD3	2.17	0.45
1:AG:8:LYS:HB2	1:AH:119:ASP:O	2.16	0.45
1:AG:126:LEU:HD23	1:AG:126:LEU:HA	1.85	0.45
1:AK:95:LYS:HE3	1:AK:126:LEU:O	2.17	0.45
1:BJ:56:ARG:HH21	1:BJ:72:PRO:HG3	1.82	0.45
1:BZ:118:GLN:HB3	1:BZ:121:TYR:CZ	2.52	0.45
1:CN:75:ILE:HA	1:FZ:78:GLU:O	2.16	0.45
1:CO:83:VAL:HG22	1:DK:26:VAL:HG12	1.99	0.45
1:CU:118:GLN:HB3	1:CU:121:TYR:CZ	2.52	0.45
1:DB:95:LYS:HE3	1:DB:126:LEU:O	2.17	0.45
1:DE:95:LYS:HE3	1:DE:126:LEU:O	2.17	0.45
1:DG:21:LEU:HD12	1:DG:30:ASN:OD1	2.17	0.45
1:DH:5:ALA:O	1:DH:22:PRO:HD3	2.17	0.45
1:DM:79:THR:HB	1:DM:81:PHE:CE2	2.52	0.45
1:DN:5:ALA:O	1:DN:22:PRO:HD3	2.17	0.45
1:DS:118:GLN:HB3	1:DS:121:TYR:CZ	2.52	0.45
1:DZ:63:ALA:HA	1:DZ:68:GLU:HG2	1.99	0.45
1:EE:21:LEU:HD12	1:EE:30:ASN:OD1	2.18	0.45
1:EE:79:THR:HB	1:EE:81:PHE:CE2	2.52	0.45
1:EI:8:LYS:HA	1:EI:19:PHE:CD1	2.51	0.45
1:EM:79:THR:HB	1:EM:81:PHE:CE2	2.52	0.45
1:ES:79:THR:HB	1:ES:81:PHE:CE2	2.52	0.45
1:EX:95:LYS:HE3	1:EX:126:LEU:O	2.17	0.45
1:FF:118:GLN:HB3	1:FF:121:TYR:CZ	2.52	0.45
1:FG:86:THR:HG22	1:FG:88:GLU:H	1.79	0.45
1:FI:79:THR:HB	1:FI:81:PHE:CE2	2.52	0.45
1:FJ:95:LYS:HE3	1:FJ:126:LEU:O	2.17	0.45
1:FM:95:LYS:HE3	1:FM:126:LEU:O	2.17	0.45
1:FV:63:ALA:HA	1:FV:68:GLU:HG2	1.99	0.45
1:FX:21:LEU:HD12	1:FX:30:ASN:OD1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GP:21:LEU:HD12	1:GP:30:ASN:OD1	2.17	0.45
1:GS:79:THR:HB	1:GS:81:PHE:CE2	2.52	0.45
1:GW:95:LYS:HE3	1:GW:126:LEU:O	2.17	0.45
1:HH:79:THR:HB	1:HH:81:PHE:CE2	2.52	0.45
1:HJ:79:THR:HB	1:HJ:81:PHE:CE2	2.52	0.45
1:HX:5:ALA:O	1:HX:22:PRO:HD3	2.17	0.45
1:HX:63:ALA:HA	1:HX:68:GLU:HG2	1.99	0.45
1:IA:95:LYS:HE3	1:IA:126:LEU:O	2.17	0.45
1:IB:6:ILE:HG22	1:IB:19:PHE:HB3	1.99	0.45
1:II:79:THR:HB	1:II:81:PHE:CE2	2.52	0.45
1:IJ:9:LEU:CG	1:IJ:10:ARG:H	2.29	0.45
1:IM:5:ALA:O	1:IM:22:PRO:HD3	2.17	0.45
1:IM:95:LYS:HE3	1:IM:126:LEU:O	2.17	0.45
1:IR:21:LEU:HD12	1:IR:30:ASN:OD1	2.17	0.45
1:IU:8:LYS:HB2	1:IV:119:ASP:O	2.16	0.45
1:IX:21:LEU:HD12	1:IX:30:ASN:OD1	2.17	0.45
1:IZ:6:ILE:HG22	1:IZ:19:PHE:HB3	1.99	0.45
1:JF:56:ARG:HH21	1:JF:72:PRO:HG3	1.82	0.45
1:JG:118:GLN:HB3	1:JG:121:TYR:CZ	2.52	0.45
1:JP:79:THR:HB	1:JP:81:PHE:CE2	2.52	0.45
1:JQ:9:LEU:CG	1:JQ:10:ARG:H	2.30	0.45
1:JQ:95:LYS:HE3	1:JQ:126:LEU:O	2.17	0.45
1:JS:21:LEU:HD12	1:JS:30:ASN:OD1	2.17	0.45
1:JT:9:LEU:CG	1:JT:10:ARG:H	2.29	0.45
1:JY:79:THR:HB	1:JY:81:PHE:CE2	2.52	0.45
1:KF:63:ALA:HA	1:KF:68:GLU:HG2	1.99	0.45
1:KH:21:LEU:HD12	1:KH:30:ASN:OD1	2.18	0.45
1:KI:95:LYS:HE3	1:KI:126:LEU:O	2.17	0.45
1:KM:6:ILE:HG22	1:KM:19:PHE:HB3	1.99	0.45
1:KS:56:ARG:HH21	1:KS:72:PRO:HG3	1.82	0.45
1:KT:126:LEU:HD23	1:KT:126:LEU:HA	1.85	0.45
1:LA:5:ALA:O	1:LA:22:PRO:HD3	2.17	0.45
1:LD:95:LYS:HE3	1:LD:126:LEU:O	2.17	0.45
1:LK:6:ILE:HG22	1:LK:19:PHE:HB3	1.98	0.45
1:LL:4:ILE:HB	1:LM:123:ILE:HG13	1.98	0.45
1:LM:95:LYS:HE3	1:LM:126:LEU:O	2.17	0.45
1:LT:79:THR:HB	1:LT:81:PHE:CE2	2.52	0.45
1:LY:95:LYS:HE3	1:LY:126:LEU:O	2.17	0.45
1:MI:79:THR:HB	1:MI:81:PHE:CE2	2.52	0.45
1:MS:118:GLN:HB3	1:MS:121:TYR:CZ	2.52	0.45
1:MT:5:ALA:O	1:MT:22:PRO:HD3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MV:99:SER:OG	1:MV:124:GLU:O	2.20	0.45
1:MW:5:ALA:O	1:MW:22:PRO:HD3	2.17	0.45
1:NJ:79:THR:HB	1:NJ:81:PHE:CE2	2.52	0.45
1:NV:79:THR:HB	1:NV:81:PHE:CE2	2.51	0.45
1:AF:56:ARG:HH21	1:AF:72:PRO:HG3	1.82	0.44
1:AJ:8:LYS:HB2	1:AK:119:ASP:O	2.16	0.44
1:AL:56:ARG:HH21	1:AL:72:PRO:HG3	1.82	0.44
1:AR:6:ILE:HG22	1:AR:19:PHE:HB3	1.99	0.44
1:BD:90:ARG:NH2	1:EP:113:TYR:CG	2.85	0.44
1:BE:79:THR:HB	1:BE:81:PHE:CE2	2.52	0.44
1:BH:21:LEU:HD12	1:BH:30:ASN:OD1	2.18	0.44
1:CA:5:ALA:O	1:CA:22:PRO:HD3	2.17	0.44
1:CG:63:ALA:HA	1:CG:68:GLU:HG2	1.99	0.44
1:CL:21:LEU:HD12	1:CL:30:ASN:OD1	2.18	0.44
1:CQ:112:ALA:O	1:GC:49:VAL:HG11	2.17	0.44
1:CT:6:ILE:HG22	1:CT:19:PHE:HB3	1.98	0.44
1:CU:21:LEU:HD12	1:CU:30:ASN:OD1	2.18	0.44
1:CY:95:LYS:HE3	1:CY:126:LEU:O	2.17	0.44
1:DA:4:ILE:HB	1:DB:123:ILE:HG13	1.98	0.44
1:DC:89:ASP:OD2	1:GO:59:ILE:HD12	2.18	0.44
1:DN:10:ARG:NH1	1:GS:38:LEU:HB2	2.32	0.44
1:DP:118:GLN:HB3	1:DP:121:TYR:CZ	2.52	0.44
1:DR:56:ARG:HH21	1:DR:72:PRO:HG3	1.83	0.44
1:DW:63:ALA:HA	1:DW:68:GLU:HG2	1.99	0.44
1:ED:56:ARG:HH21	1:ED:72:PRO:HG3	1.83	0.44
1:EE:4:ILE:HB	1:EF:123:ILE:HG13	1.98	0.44
1:EH:21:LEU:HD12	1:EH:30:ASN:OD1	2.17	0.44
1:EO:63:ALA:HA	1:EO:68:GLU:HG2	1.99	0.44
1:EQ:4:ILE:HB	1:ER:123:ILE:HG13	1.98	0.44
1:ER:5:ALA:O	1:ER:22:PRO:HD3	2.17	0.44
1:ER:63:ALA:HA	1:ER:68:GLU:HG2	1.99	0.44
1:EU:63:ALA:HA	1:EU:68:GLU:HG2	1.99	0.44
1:FA:95:LYS:HE3	1:FA:126:LEU:O	2.17	0.44
1:FD:63:ALA:HA	1:FD:68:GLU:HG2	1.99	0.44
1:FE:56:ARG:HH21	1:FE:72:PRO:HG3	1.83	0.44
1:FJ:5:ALA:O	1:FJ:22:PRO:HD3	2.17	0.44
1:FO:79:THR:HB	1:FO:81:PHE:CE2	2.52	0.44
1:FP:5:ALA:O	1:FP:22:PRO:HD3	2.17	0.44
1:FT:79:THR:HB	1:FT:81:PHE:CE2	2.51	0.44
1:FY:9:LEU:CG	1:FY:10:ARG:H	2.29	0.44
1:FZ:79:THR:HB	1:FZ:81:PHE:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GE:63:ALA:HA	1:GE:68:GLU:HG2	1.99	0.44
1:GI:56:ARG:HH21	1:GI:72:PRO:HG3	1.83	0.44
1:GJ:79:THR:HB	1:GJ:81:PHE:CE2	2.52	0.44
1:GK:95:LYS:HE3	1:GK:126:LEU:O	2.17	0.44
1:GU:56:ARG:HH21	1:GU:72:PRO:HG3	1.83	0.44
1:GV:79:THR:HB	1:GV:81:PHE:CE2	2.52	0.44
1:GW:63:ALA:HA	1:GW:68:GLU:HG2	1.99	0.44
1:HD:10:ARG:HH21	1:MZ:38:LEU:CD2	2.30	0.44
1:HM:6:ILE:HG22	1:HM:19:PHE:HB3	1.99	0.44
1:HS:56:ARG:HH21	1:HS:72:PRO:HG3	1.83	0.44
1:HT:99:SER:OG	1:HT:124:GLU:O	2.20	0.44
1:HV:90:ARG:NH2	1:LH:113:TYR:CD1	2.85	0.44
1:HW:118:GLN:HB3	1:HW:121:TYR:CZ	2.52	0.44
1:IH:6:ILE:HG22	1:IH:19:PHE:HB3	1.99	0.44
1:IK:56:ARG:HH21	1:IK:72:PRO:HG3	1.82	0.44
1:IO:21:LEU:HD12	1:IO:30:ASN:OD1	2.17	0.44
1:IT:79:THR:HB	1:IT:81:PHE:CE2	2.52	0.44
1:IU:118:GLN:HB3	1:IU:121:TYR:CZ	2.52	0.44
1:IV:63:ALA:HA	1:IV:68:GLU:HG2	1.99	0.44
1:JF:34:ILE:HD11	1:MR:111:LEU:HD21	2.00	0.44
1:JF:109:GLN:HE21	1:MR:94:LEU:HD12	1.81	0.44
1:JG:4:ILE:HB	1:JH:123:ILE:HG13	1.98	0.44
1:JM:8:LYS:HB2	1:JN:119:ASP:O	2.16	0.44
1:JT:5:ALA:O	1:JT:22:PRO:HD3	2.17	0.44
1:JT:63:ALA:HA	1:JT:68:GLU:HG2	1.99	0.44
1:JX:6:ILE:HG22	1:JX:19:PHE:HB3	1.99	0.44
1:JY:21:LEU:HD12	1:JY:30:ASN:OD1	2.17	0.44
1:KD:6:ILE:HG22	1:KD:19:PHE:HB3	1.98	0.44
1:KE:21:LEU:HD12	1:KE:30:ASN:OD1	2.17	0.44
1:KI:5:ALA:O	1:KI:22:PRO:HD3	2.17	0.44
1:KK:21:LEU:HD12	1:KK:30:ASN:OD1	2.17	0.44
1:KN:118:GLN:HB3	1:KN:121:TYR:CZ	2.52	0.44
1:KV:56:ARG:HH21	1:KV:72:PRO:HG3	1.82	0.44
1:KX:5:ALA:O	1:KX:22:PRO:HD3	2.17	0.44
1:LA:63:ALA:HA	1:LA:68:GLU:HG2	1.99	0.44
1:LC:21:LEU:HD12	1:LC:30:ASN:OD1	2.17	0.44
1:LD:63:ALA:HA	1:LD:68:GLU:HG2	1.99	0.44
1:LQ:6:ILE:HG22	1:LQ:19:PHE:HB3	1.99	0.44
1:LS:95:LYS:HE3	1:LS:126:LEU:O	2.17	0.44
1:LT:56:ARG:HH21	1:LT:72:PRO:HG3	1.82	0.44
1:ME:63:ALA:HA	1:ME:68:GLU:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MJ:21:LEU:HD12	1:MJ:30:ASN:OD1	2.18	0.44
1:ML:56:ARG:HH21	1:ML:72:PRO:HG3	1.83	0.44
1:MM:21:LEU:HD12	1:MM:30:ASN:OD1	2.18	0.44
1:MO:56:ARG:HH21	1:MO:72:PRO:HG3	1.82	0.44
1:MQ:95:LYS:HE3	1:MQ:126:LEU:O	2.17	0.44
1:MR:6:ILE:HG22	1:MR:19:PHE:HB3	1.99	0.44
1:MY:4:ILE:HB	1:MZ:123:ILE:HG13	1.98	0.44
1:NA:56:ARG:HH21	1:NA:72:PRO:HG3	1.82	0.44
1:NB:79:THR:HB	1:NB:81:PHE:CE2	2.52	0.44
1:NB:118:GLN:HB3	1:NB:121:TYR:CZ	2.52	0.44
1:ND:6:ILE:HG22	1:ND:19:PHE:HB3	1.99	0.44
1:ND:56:ARG:HH21	1:ND:72:PRO:HG3	1.82	0.44
1:NF:5:ALA:O	1:NF:22:PRO:HD3	2.17	0.44
1:NH:21:LEU:HD12	1:NH:30:ASN:OD1	2.18	0.44
1:NM:6:ILE:HG22	1:NM:19:PHE:HB3	1.99	0.44
1:NN:21:LEU:HD12	1:NN:30:ASN:OD1	2.18	0.44
1:NO:95:LYS:HE3	1:NO:126:LEU:O	2.17	0.44
1:NP:6:ILE:HG22	1:NP:19:PHE:HB3	1.99	0.44
1:NQ:21:LEU:HD12	1:NQ:30:ASN:OD1	2.17	0.44
1:AE:95:LYS:HE3	1:AE:126:LEU:O	2.17	0.44
1:BQ:118:GLN:HB3	1:BQ:121:TYR:CZ	2.52	0.44
1:BR:5:ALA:O	1:BR:22:PRO:HD3	2.17	0.44
1:CC:118:GLN:HB3	1:CC:121:TYR:CZ	2.52	0.44
1:CJ:95:LYS:HE3	1:CJ:126:LEU:O	2.17	0.44
1:CN:92:GLU:CD	1:FZ:57:LYS:HZ3	2.20	0.44
1:CO:79:THR:HB	1:CO:81:PHE:CE2	2.52	0.44
1:CS:9:LEU:CG	1:CS:10:ARG:H	2.29	0.44
1:CX:118:GLN:HB3	1:CX:121:TYR:CZ	2.52	0.44
1:DI:79:THR:HB	1:DI:81:PHE:CE2	2.52	0.44
1:DO:56:ARG:HH21	1:DO:72:PRO:HG3	1.82	0.44
1:DQ:5:ALA:O	1:DQ:22:PRO:HD3	2.17	0.44
1:EL:95:LYS:HE3	1:EL:126:LEU:O	2.17	0.44
1:ES:56:ARG:HH21	1:ES:72:PRO:HG3	1.82	0.44
1:EU:5:ALA:O	1:EU:22:PRO:HD3	2.17	0.44
1:EW:21:LEU:HD12	1:EW:30:ASN:OD1	2.17	0.44
1:EW:38:LEU:HB2	1:FJ:10:ARG:HH11	1.81	0.44
1:FC:118:GLN:HB3	1:FC:121:TYR:CZ	2.52	0.44
1:FH:56:ARG:HH21	1:FH:72:PRO:HG3	1.83	0.44
1:FT:56:ARG:HH21	1:FT:72:PRO:HG3	1.82	0.44
1:GA:21:LEU:HD12	1:GA:30:ASN:OD1	2.17	0.44
1:GG:21:LEU:HD12	1:GG:30:ASN:OD1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GQ:5:ALA:O	1:GQ:22:PRO:HD3	2.17	0.44
1:GT:95:LYS:HE3	1:GT:126:LEU:O	2.17	0.44
1:HA:125:ASP:HB2	1:KM:4:ILE:HG12	1.99	0.44
1:HD:101:LEU:HD22	1:KP:94:LEU:HD22	1.99	0.44
1:HI:95:LYS:HE3	1:HI:126:LEU:O	2.17	0.44
1:HT:118:GLN:HB3	1:HT:121:TYR:CZ	2.52	0.44
1:HU:95:LYS:HE3	1:HU:126:LEU:O	2.17	0.44
1:HZ:79:THR:HB	1:HZ:81:PHE:CE2	2.52	0.44
1:IC:21:LEU:HD12	1:IC:30:ASN:OD1	2.18	0.44
1:ID:63:ALA:HA	1:ID:68:GLU:HG2	1.99	0.44
1:IE:129:THR:O	1:LQ:106:LYS:NZ	2.50	0.44
1:IH:56:ARG:HH21	1:IH:72:PRO:HG3	1.82	0.44
1:IQ:89:ASP:OD2	1:MC:59:ILE:HD12	2.17	0.44
1:IR:118:GLN:HB3	1:IR:121:TYR:CZ	2.52	0.44
1:IS:95:LYS:HE3	1:IS:126:LEU:O	2.17	0.44
1:IY:15:ASP:OD1	1:KS:10:ARG:NH1	2.50	0.44
1:IZ:80:SER:HB2	1:ML:74:VAL:CG2	2.44	0.44
1:IZ:104:GLU:OE1	1:ML:53:ARG:NH1	2.40	0.44
1:JC:6:ILE:HG22	1:JC:19:PHE:HB3	1.98	0.44
1:JD:21:LEU:HD12	1:JD:30:ASN:OD1	2.17	0.44
1:JE:95:LYS:HE3	1:JE:126:LEU:O	2.17	0.44
1:JF:94:LEU:HD12	1:MR:109:GLN:NE2	2.33	0.44
1:JF:121:TYR:HB2	1:MR:6:ILE:HB	1.97	0.44
1:JG:99:SER:OG	1:JG:124:GLU:O	2.20	0.44
1:JJ:118:GLN:HB3	1:JJ:121:TYR:CZ	2.52	0.44
1:JL:56:ARG:HH21	1:JL:72:PRO:HG3	1.82	0.44
1:JS:4:ILE:HB	1:JT:123:ILE:HG13	1.98	0.44
1:KA:56:ARG:HH21	1:KA:72:PRO:HG3	1.82	0.44
1:KF:95:LYS:HE3	1:KF:126:LEU:O	2.17	0.44
1:KH:4:ILE:HB	1:KI:123:ILE:HG13	1.98	0.44
1:KL:5:ALA:O	1:KL:22:PRO:HD3	2.17	0.44
1:KO:15:ASP:OD1	1:NV:10:ARG:NH1	2.49	0.44
1:KT:21:LEU:HD12	1:KT:30:ASN:OD1	2.18	0.44
1:KU:63:ALA:HA	1:KU:68:GLU:HG2	1.99	0.44
1:LF:126:LEU:HD23	1:LF:126:LEU:HA	1.85	0.44
1:LS:63:ALA:HA	1:LS:68:GLU:HG2	1.99	0.44
1:LU:118:GLN:HB3	1:LU:121:TYR:CZ	2.52	0.44
1:LV:95:LYS:HE3	1:LV:126:LEU:O	2.17	0.44
1:LX:21:LEU:HD12	1:LX:30:ASN:OD1	2.17	0.44
1:MD:79:THR:HB	1:MD:81:PHE:CE2	2.52	0.44
1:MP:21:LEU:HD12	1:MP:30:ASN:OD1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MS:8:LYS:HB2	1:MT:119:ASP:O	2.16	0.44
1:NF:95:LYS:HE3	1:NF:126:LEU:O	2.17	0.44
1:NG:56:ARG:HH21	1:NG:72:PRO:HG3	1.83	0.44
1:NG:79:THR:HB	1:NG:81:PHE:CE2	2.52	0.44
1:NH:118:GLN:HB3	1:NH:121:TYR:CZ	2.52	0.44
1:NL:5:ALA:O	1:NL:22:PRO:HD3	2.17	0.44
1:NU:63:ALA:HA	1:NU:68:GLU:HG2	1.99	0.44
1:AD:8:LYS:HB2	1:AE:119:ASP:O	2.16	0.44
1:AD:21:LEU:HD12	1:AD:30:ASN:OD1	2.17	0.44
1:AD:118:GLN:HB3	1:AD:121:TYR:CZ	2.52	0.44
1:AG:79:THR:HB	1:AG:81:PHE:CE2	2.52	0.44
1:AH:5:ALA:O	1:AH:22:PRO:HD3	2.17	0.44
1:AH:95:LYS:HE3	1:AH:126:LEU:O	2.17	0.44
1:AI:56:ARG:HH21	1:AI:72:PRO:HG3	1.82	0.44
1:AL:79:THR:HB	1:AL:81:PHE:CE2	2.52	0.44
1:AR:56:ARG:HH21	1:AR:72:PRO:HG3	1.83	0.44
1:AT:5:ALA:O	1:AT:22:PRO:HD3	2.17	0.44
1:AT:95:LYS:HE3	1:AT:126:LEU:O	2.17	0.44
1:AU:6:ILE:HG22	1:AU:19:PHE:HB3	1.98	0.44
1:AW:95:LYS:HE3	1:AW:126:LEU:O	2.17	0.44
1:AY:21:LEU:HD12	1:AY:30:ASN:OD1	2.18	0.44
1:BA:79:THR:HB	1:BA:81:PHE:CE2	2.51	0.44
1:BE:21:LEU:HD12	1:BE:30:ASN:OD1	2.17	0.44
1:BI:5:ALA:O	1:BI:22:PRO:HD3	2.17	0.44
1:BQ:21:LEU:HD12	1:BQ:30:ASN:OD1	2.18	0.44
1:BZ:21:LEU:HD12	1:BZ:30:ASN:OD1	2.18	0.44
1:CH:6:ILE:HG22	1:CH:19:PHE:HB3	1.99	0.44
1:CK:6:ILE:HG22	1:CK:19:PHE:HB3	1.99	0.44
1:CL:38:LEU:HD22	1:DH:10:ARG:HH11	1.83	0.44
1:CO:118:GLN:HB3	1:CO:121:TYR:CZ	2.52	0.44
1:CW:6:ILE:HG22	1:CW:19:PHE:HB3	1.98	0.44
1:DA:118:GLN:HB3	1:DA:121:TYR:CZ	2.52	0.44
1:DB:5:ALA:O	1:DB:22:PRO:HD3	2.17	0.44
1:DL:57:LYS:HZ3	1:GX:92:GLU:CD	2.20	0.44
1:DS:21:LEU:HD12	1:DS:30:ASN:OD1	2.17	0.44
1:DU:56:ARG:HH21	1:DU:72:PRO:HG3	1.83	0.44
1:DX:6:ILE:HG22	1:DX:19:PHE:HB3	1.98	0.44
1:EE:118:GLN:HB3	1:EE:121:TYR:CZ	2.52	0.44
1:EK:21:LEU:HD12	1:EK:30:ASN:OD1	2.17	0.44
1:EO:9:LEU:CG	1:EO:10:ARG:H	2.29	0.44
1:FD:95:LYS:HE3	1:FD:126:LEU:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FI:21:LEU:HD12	1:FI:30:ASN:OD1	2.18	0.44
1:FL:8:LYS:HB2	1:FM:119:ASP:O	2.16	0.44
1:FO:21:LEU:HD12	1:FO:30:ASN:OD1	2.17	0.44
1:GC:6:ILE:HG22	1:GC:19:PHE:HB3	1.99	0.44
1:GH:95:LYS:HE3	1:GH:126:LEU:O	2.17	0.44
1:GJ:118:GLN:HB3	1:GJ:121:TYR:CZ	2.52	0.44
1:GM:79:THR:HB	1:GM:81:PHE:CE2	2.52	0.44
1:GT:63:ALA:HA	1:GT:68:GLU:HG2	1.99	0.44
1:GU:79:THR:HB	1:GU:81:PHE:CE2	2.51	0.44
1:GX:6:ILE:HG22	1:GX:19:PHE:HB3	1.99	0.44
1:HH:118:GLN:HB3	1:HH:121:TYR:CZ	2.52	0.44
1:HZ:118:GLN:HB3	1:HZ:121:TYR:CZ	2.52	0.44
1:ID:95:LYS:HE3	1:ID:126:LEU:O	2.17	0.44
1:II:21:LEU:HD12	1:II:30:ASN:OD1	2.18	0.44
1:IO:118:GLN:HB3	1:IO:121:TYR:CZ	2.52	0.44
1:IP:95:LYS:HE3	1:IP:126:LEU:O	2.17	0.44
1:IQ:56:ARG:HH21	1:IQ:72:PRO:HG3	1.82	0.44
1:IU:79:THR:HB	1:IU:81:PHE:CE2	2.52	0.44
1:IX:79:THR:HB	1:IX:81:PHE:CE2	2.52	0.44
1:IX:118:GLN:HB3	1:IX:121:TYR:CZ	2.52	0.44
1:JA:79:THR:HB	1:JA:81:PHE:CE2	2.52	0.44
1:JQ:5:ALA:O	1:JQ:22:PRO:HD3	2.17	0.44
1:KA:113:TYR:CG	1:NM:90:ARG:NH2	2.85	0.44
1:KD:79:THR:HB	1:KD:81:PHE:CE2	2.52	0.44
1:KE:8:LYS:HB2	1:KF:119:ASP:O	2.16	0.44
1:KE:118:GLN:HB3	1:KE:121:TYR:CZ	2.52	0.44
1:KQ:118:GLN:HB3	1:KQ:121:TYR:CZ	2.52	0.44
1:KT:118:GLN:HB3	1:KT:121:TYR:CZ	2.52	0.44
1:KU:9:LEU:CG	1:KU:10:ARG:H	2.29	0.44
1:KY:6:ILE:HG22	1:KY:19:PHE:HB3	1.98	0.44
1:LD:9:LEU:CG	1:LD:10:ARG:H	2.29	0.44
1:LF:4:ILE:HB	1:LG:123:ILE:HG13	1.98	0.44
1:LI:118:GLN:HB3	1:LI:121:TYR:CZ	2.52	0.44
1:LO:21:LEU:HD12	1:LO:30:ASN:OD1	2.17	0.44
1:LS:5:ALA:O	1:LS:22:PRO:HD3	2.17	0.44
1:LU:21:LEU:HD12	1:LU:30:ASN:OD1	2.17	0.44
1:MB:63:ALA:HA	1:MB:68:GLU:HG2	1.99	0.44
1:MI:6:ILE:HG22	1:MI:19:PHE:HB3	1.98	0.44
1:MJ:79:THR:HB	1:MJ:81:PHE:CE2	2.52	0.44
1:MN:5:ALA:O	1:MN:22:PRO:HD3	2.17	0.44
1:MV:21:LEU:HD12	1:MV:30:ASN:OD1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NB:4:ILE:HB	1:NC:123:ILE:HG13	1.98	0.44
1:NC:5:ALA:O	1:NC:22:PRO:HD3	2.17	0.44
1:NG:6:ILE:HG22	1:NG:19:PHE:HB3	1.99	0.44
1:NH:8:LYS:HB2	1:NI:119:ASP:O	2.16	0.44
1:NM:56:ARG:HH21	1:NM:72:PRO:HG3	1.82	0.44
1:NV:6:ILE:HG22	1:NV:19:PHE:HB3	1.98	0.44
1:AC:6:ILE:HG22	1:AC:19:PHE:HB3	1.99	0.44
1:AF:6:ILE:HG22	1:AF:19:PHE:HB3	1.98	0.44
1:AM:21:LEU:HD12	1:AM:30:ASN:OD1	2.17	0.44
1:AM:118:GLN:HB3	1:AM:121:TYR:CZ	2.52	0.44
1:AS:79:THR:HB	1:AS:81:PHE:CE2	2.52	0.44
1:AU:56:ARG:HH21	1:AU:72:PRO:HG3	1.82	0.44
1:AZ:5:ALA:O	1:AZ:22:PRO:HD3	2.17	0.44
1:BC:10:ARG:NH1	1:BQ:38:LEU:HB2	2.32	0.44
1:BC:95:LYS:HE3	1:BC:126:LEU:O	2.17	0.44
1:BD:56:ARG:HH21	1:BD:72:PRO:HG3	1.82	0.44
1:BE:118:GLN:HB3	1:BE:121:TYR:CZ	2.52	0.44
1:BF:95:LYS:HE3	1:BF:126:LEU:O	2.17	0.44
1:BK:118:GLN:HB3	1:BK:121:TYR:CZ	2.52	0.44
1:BU:95:LYS:HE3	1:BU:126:LEU:O	2.17	0.44
1:BW:4:ILE:HB	1:BX:123:ILE:HG13	1.98	0.44
1:BY:53:ARG:NH1	1:FK:104:GLU:OE1	2.35	0.44
1:CA:63:ALA:HA	1:CA:68:GLU:HG2	1.99	0.44
1:CB:6:ILE:HG22	1:CB:19:PHE:HB3	1.99	0.44
1:CD:5:ALA:O	1:CD:22:PRO:HD3	2.17	0.44
1:CG:9:LEU:CG	1:CG:10:ARG:H	2.29	0.44
1:CI:79:THR:HB	1:CI:81:PHE:CE2	2.52	0.44
1:CL:79:THR:HB	1:CL:81:PHE:CE2	2.52	0.44
1:CP:95:LYS:HE3	1:CP:126:LEU:O	2.17	0.44
1:CV:95:LYS:HE3	1:CV:126:LEU:O	2.17	0.44
1:CW:79:THR:HB	1:CW:81:PHE:CE2	2.52	0.44
1:DI:57:LYS:HZ3	1:GU:92:GLU:CD	2.18	0.44
1:DJ:21:LEU:HD12	1:DJ:30:ASN:OD1	2.17	0.44
1:EC:63:ALA:HA	1:EC:68:GLU:HG2	1.99	0.44
1:EI:5:ALA:O	1:EI:22:PRO:HD3	2.17	0.44
1:EK:79:THR:HB	1:EK:81:PHE:CE2	2.52	0.44
1:EL:63:ALA:HA	1:EL:68:GLU:HG2	1.99	0.44
1:EP:6:ILE:HG22	1:EP:19:PHE:HB3	1.98	0.44
1:EP:79:THR:HB	1:EP:81:PHE:CE2	2.52	0.44
1:EW:79:THR:HB	1:EW:81:PHE:CE2	2.52	0.44
1:FI:118:GLN:HB3	1:FI:121:TYR:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FK:56:ARG:HH21	1:FK:72:PRO:HG3	1.83	0.44
1:FM:5:ALA:O	1:FM:22:PRO:HD3	2.17	0.44
1:FP:95:LYS:HE3	1:FP:126:LEU:O	2.17	0.44
1:FR:79:THR:HB	1:FR:81:PHE:CE2	2.52	0.44
1:GA:118:GLN:HB3	1:GA:121:TYR:CZ	2.52	0.44
1:GE:5:ALA:O	1:GE:22:PRO:HD3	2.17	0.44
1:GH:5:ALA:O	1:GH:22:PRO:HD3	2.17	0.44
1:GV:118:GLN:HB3	1:GV:121:TYR:CZ	2.52	0.44
1:GY:21:LEU:HD12	1:GY:30:ASN:OD1	2.18	0.44
1:HA:56:ARG:HH21	1:HA:72:PRO:HG3	1.82	0.44
1:HB:118:GLN:HB3	1:HB:121:TYR:CZ	2.52	0.44
1:HO:95:LYS:HE3	1:HO:126:LEU:O	2.17	0.44
1:HV:6:ILE:HG22	1:HV:19:PHE:HB3	1.98	0.44
1:IE:6:ILE:HG22	1:IE:19:PHE:HB3	1.99	0.44
1:IN:6:ILE:HG22	1:IN:19:PHE:HB3	1.99	0.44
1:IN:129:THR:O	1:LZ:106:LYS:NZ	2.51	0.44
1:IX:75:ILE:HG23	1:IY:79:THR:HG22	2.00	0.44
1:JG:38:LEU:HB2	1:JN:10:ARG:HH11	1.82	0.44
1:JJ:4:ILE:HB	1:JK:123:ILE:HG13	1.98	0.44
1:JO:56:ARG:HH21	1:JO:72:PRO:HG3	1.83	0.44
1:JS:118:GLN:HB3	1:JS:121:TYR:CZ	2.52	0.44
1:JT:95:LYS:HE3	1:JT:126:LEU:O	2.17	0.44
1:JU:6:ILE:HG22	1:JU:19:PHE:HB3	1.98	0.44
1:JU:56:ARG:HH21	1:JU:72:PRO:HG3	1.82	0.44
1:KB:118:GLN:HB3	1:KB:121:TYR:CZ	2.52	0.44
1:KC:5:ALA:O	1:KC:22:PRO:HD3	2.17	0.44
1:KI:63:ALA:HA	1:KI:68:GLU:HG2	1.99	0.44
1:KP:6:ILE:HG22	1:KP:19:PHE:HB3	1.99	0.44
1:KX:9:LEU:CG	1:KX:10:ARG:H	2.29	0.44
1:KY:79:THR:HB	1:KY:81:PHE:CE2	2.52	0.44
1:KZ:118:GLN:HB3	1:KZ:121:TYR:CZ	2.52	0.44
1:LC:4:ILE:HB	1:LD:123:ILE:HG13	1.98	0.44
1:LC:75:ILE:HG23	1:LD:79:THR:HG22	2.00	0.44
1:LG:95:LYS:HE3	1:LG:126:LEU:O	2.17	0.44
1:LM:63:ALA:HA	1:LM:68:GLU:HG2	1.99	0.44
1:LN:6:ILE:HG22	1:LN:19:PHE:HB3	1.99	0.44
1:LP:63:ALA:HA	1:LP:68:GLU:HG2	1.99	0.44
1:LZ:6:ILE:HG22	1:LZ:19:PHE:HB3	1.99	0.44
1:MM:118:GLN:HB3	1:MM:121:TYR:CZ	2.52	0.44
1:NI:9:LEU:CG	1:NI:10:ARG:H	2.29	0.44
1:NQ:118:GLN:HB3	1:NQ:121:TYR:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NR:5:ALA:O	1:NR:22:PRO:HD3	2.17	0.44
1:AA:79:THR:HB	1:AA:81:PHE:CE2	2.52	0.44
1:AB:9:LEU:CG	1:AB:10:ARG:H	2.29	0.44
1:AF:74:VAL:CG2	1:DR:80:SER:HB2	2.46	0.44
1:AG:75:ILE:HG23	1:AH:79:THR:HG22	2.00	0.44
1:AO:56:ARG:HH21	1:AO:72:PRO:HG3	1.82	0.44
1:BB:118:GLN:HB3	1:BB:121:TYR:CZ	2.52	0.44
1:BK:4:ILE:HB	1:BL:123:ILE:HG13	1.98	0.44
1:BT:75:ILE:HG23	1:BU:79:THR:HG22	2.00	0.44
1:BU:9:LEU:CG	1:BU:10:ARG:H	2.29	0.44
1:BW:118:GLN:HB3	1:BW:121:TYR:CZ	2.52	0.44
1:BX:5:ALA:O	1:BX:22:PRO:HD3	2.17	0.44
1:CI:118:GLN:HB3	1:CI:121:TYR:CZ	2.52	0.44
1:CQ:56:ARG:HH21	1:CQ:72:PRO:HG3	1.83	0.44
1:CQ:113:TYR:CG	1:GC:90:ARG:NH2	2.85	0.44
1:CY:63:ALA:HA	1:CY:68:GLU:HG2	1.99	0.44
1:DA:21:LEU:HD12	1:DA:30:ASN:OD1	2.18	0.44
1:DD:118:GLN:HB3	1:DD:121:TYR:CZ	2.52	0.44
1:DL:6:ILE:HG22	1:DL:19:PHE:HB3	1.99	0.44
1:DN:95:LYS:HE3	1:DN:126:LEU:O	2.17	0.44
1:DT:5:ALA:O	1:DT:22:PRO:HD3	2.17	0.44
1:DV:118:GLN:HB3	1:DV:121:TYR:CZ	2.52	0.44
1:EA:56:ARG:HH21	1:EA:72:PRO:HG3	1.82	0.44
1:EF:63:ALA:HA	1:EF:68:GLU:HG2	1.99	0.44
1:EQ:79:THR:HB	1:EQ:81:PHE:CE2	2.52	0.44
1:EY:56:ARG:HH21	1:EY:72:PRO:HG3	1.83	0.44
1:EZ:21:LEU:HD12	1:EZ:30:ASN:OD1	2.18	0.44
1:FA:5:ALA:O	1:FA:22:PRO:HD3	2.17	0.44
1:FC:21:LEU:HD12	1:FC:30:ASN:OD1	2.18	0.44
1:FI:8:LYS:HB2	1:FJ:119:ASP:O	2.16	0.44
1:FN:6:ILE:HG22	1:FN:19:PHE:HB3	1.99	0.44
1:FR:126:LEU:HD23	1:FR:126:LEU:HA	1.85	0.44
1:GD:21:LEU:HD12	1:GD:30:ASN:OD1	2.18	0.44
1:GG:75:ILE:HG23	1:GH:79:THR:HG22	2.00	0.44
1:GG:118:GLN:HB3	1:GG:121:TYR:CZ	2.52	0.44
1:GI:6:ILE:HG22	1:GI:19:PHE:HB3	1.99	0.44
1:GM:4:ILE:HB	1:GN:123:ILE:HG13	1.98	0.44
1:GX:56:ARG:HH21	1:GX:72:PRO:HG3	1.83	0.44
1:GZ:9:LEU:CG	1:GZ:10:ARG:H	2.29	0.44
1:HD:49:VAL:HG11	1:KP:112:ALA:O	2.18	0.44
1:HI:63:ALA:HA	1:HI:68:GLU:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HK:118:GLN:HB3	1:HK:121:TYR:CZ	2.52	0.44
1:HR:26:VAL:HG11	1:LJ:113:TYR:O	2.17	0.44
1:HS:104:GLU:OE1	1:LE:53:ARG:NH1	2.35	0.44
1:HT:8:LYS:HB2	1:HU:119:ASP:O	2.16	0.44
1:HV:56:ARG:HH21	1:HV:72:PRO:HG3	1.83	0.44
1:IA:63:ALA:HA	1:IA:68:GLU:HG2	1.99	0.44
1:IH:113:TYR:CG	1:LT:90:ARG:NH2	2.86	0.44
1:II:4:ILE:HB	1:IJ:123:ILE:HG13	1.98	0.44
1:II:118:GLN:HB3	1:II:121:TYR:CZ	2.52	0.44
1:IU:21:LEU:HD12	1:IU:30:ASN:OD1	2.18	0.44
1:IY:5:ALA:O	1:IY:22:PRO:HD3	2.17	0.44
1:JB:95:LYS:HE3	1:JB:126:LEU:O	2.17	0.44
1:JD:4:ILE:HB	1:JE:123:ILE:HG13	1.98	0.44
1:JF:76:LYS:O	1:MR:77:THR:HA	2.17	0.44
1:JK:9:LEU:CG	1:JK:10:ARG:H	2.29	0.44
1:JN:9:LEU:CG	1:JN:10:ARG:H	2.30	0.44
1:JV:114:SER:HA	1:KJ:26:VAL:HG21	2.00	0.44
1:JV:118:GLN:HB3	1:JV:121:TYR:CZ	2.52	0.44
1:JY:113:TYR:O	1:KD:26:VAL:HG21	2.17	0.44
1:KH:79:THR:HB	1:KH:81:PHE:CE2	2.52	0.44
1:KQ:21:LEU:HD12	1:KQ:30:ASN:OD1	2.17	0.44
1:KQ:79:THR:HB	1:KQ:81:PHE:CE2	2.52	0.44
1:KU:95:LYS:HE3	1:KU:126:LEU:O	2.17	0.44
1:KY:56:ARG:HH21	1:KY:72:PRO:HG3	1.82	0.44
1:LF:118:GLN:HB3	1:LF:121:TYR:CZ	2.52	0.44
1:LH:56:ARG:HH21	1:LH:72:PRO:HG3	1.83	0.44
1:LN:56:ARG:HH21	1:LN:72:PRO:HG3	1.82	0.44
1:LO:4:ILE:HB	1:LP:123:ILE:HG13	1.98	0.44
1:LU:75:ILE:HG23	1:LV:79:THR:HG22	2.00	0.44
1:LX:4:ILE:HB	1:LY:123:ILE:HG13	1.98	0.44
1:MG:21:LEU:HD12	1:MG:30:ASN:OD1	2.18	0.44
1:MJ:118:GLN:HB3	1:MJ:121:TYR:CZ	2.52	0.44
1:MP:75:ILE:HG23	1:MQ:79:THR:HG22	2.00	0.44
1:MS:21:LEU:HD12	1:MS:30:ASN:OD1	2.17	0.44
1:MU:56:ARG:HH21	1:MU:72:PRO:HG3	1.82	0.44
1:NB:75:ILE:HG23	1:NC:79:THR:HG22	2.00	0.44
1:ND:79:THR:HB	1:ND:81:PHE:CE2	2.52	0.44
1:NE:79:THR:HB	1:NE:81:PHE:CE2	2.52	0.44
1:NV:56:ARG:HH21	1:NV:72:PRO:HG3	1.82	0.44
1:AG:21:LEU:HD12	1:AG:30:ASN:OD1	2.18	0.44
1:AJ:118:GLN:HB3	1:AJ:121:TYR:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:95:LYS:HE3	1:AQ:126:LEU:O	2.17	0.44
1:AT:9:LEU:CG	1:AT:10:ARG:H	2.29	0.44
1:BB:21:LEU:HD12	1:BB:30:ASN:OD1	2.18	0.44
1:BG:56:ARG:HH21	1:BG:72:PRO:HG3	1.82	0.44
1:BK:75:ILE:HG23	1:BL:79:THR:HG22	2.00	0.44
1:BP:56:ARG:HH21	1:BP:72:PRO:HG3	1.82	0.44
1:BT:118:GLN:HB3	1:BT:121:TYR:CZ	2.52	0.44
1:CC:75:ILE:HG23	1:CD:79:THR:HG22	2.00	0.44
1:CL:118:GLN:HB3	1:CL:121:TYR:CZ	2.52	0.44
1:CM:95:LYS:HE3	1:CM:126:LEU:O	2.17	0.44
1:CU:75:ILE:HG23	1:CV:79:THR:HG22	2.00	0.44
1:CV:9:LEU:CG	1:CV:10:ARG:H	2.29	0.44
1:CX:21:LEU:HD12	1:CX:30:ASN:OD1	2.18	0.44
1:CX:75:ILE:HG23	1:CY:79:THR:HG22	2.00	0.44
1:DK:63:ALA:HA	1:DK:68:GLU:HG2	1.99	0.44
1:DS:75:ILE:HG23	1:DT:79:THR:HG22	2.00	0.44
1:DT:63:ALA:HA	1:DT:68:GLU:HG2	1.99	0.44
1:DZ:95:LYS:HE3	1:DZ:126:LEU:O	2.17	0.44
1:EB:4:ILE:HB	1:EC:123:ILE:HG13	1.98	0.44
1:EB:21:LEU:HD12	1:EB:30:ASN:OD1	2.17	0.44
1:EC:5:ALA:O	1:EC:22:PRO:HD3	2.17	0.44
1:EC:95:LYS:HE3	1:EC:126:LEU:O	2.17	0.44
1:EG:56:ARG:HH21	1:EG:72:PRO:HG3	1.82	0.44
1:EI:63:ALA:HA	1:EI:68:GLU:HG2	1.99	0.44
1:EO:5:ALA:O	1:EO:22:PRO:HD3	2.17	0.44
1:EQ:21:LEU:HD12	1:EQ:30:ASN:OD1	2.17	0.44
1:ET:21:LEU:HD12	1:ET:30:ASN:OD1	2.18	0.44
1:FN:56:ARG:HH21	1:FN:72:PRO:HG3	1.82	0.44
1:FQ:56:ARG:HH21	1:FQ:72:PRO:HG3	1.82	0.44
1:FU:21:LEU:HD12	1:FU:30:ASN:OD1	2.17	0.44
1:GD:4:ILE:HB	1:GE:123:ILE:HG13	1.98	0.44
1:HE:21:LEU:HD12	1:HE:30:ASN:OD1	2.17	0.44
1:HF:5:ALA:O	1:HF:22:PRO:HD3	2.17	0.44
1:HF:10:ARG:HH11	1:IC:38:LEU:HD22	1.83	0.44
1:HL:5:ALA:O	1:HL:22:PRO:HD3	2.17	0.44
1:HQ:75:ILE:HG23	1:HR:79:THR:HG22	2.00	0.44
1:HX:95:LYS:HE3	1:HX:126:LEU:O	2.17	0.44
1:IA:5:ALA:O	1:IA:22:PRO:HD3	2.17	0.44
1:IF:75:ILE:HG23	1:IG:79:THR:HG22	2.00	0.44
1:IH:94:LEU:HD22	1:LT:101:LEU:HD22	1.99	0.44
1:IL:75:ILE:HG23	1:IM:79:THR:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IL:79:THR:HB	1:IL:81:PHE:CE2	2.52	0.44
1:IO:75:ILE:HG23	1:IP:79:THR:HG22	2.00	0.44
1:IO:79:THR:HB	1:IO:81:PHE:CE2	2.52	0.44
1:IS:38:LEU:CD2	1:KM:10:ARG:HH21	2.30	0.44
1:IY:9:LEU:CG	1:IY:10:ARG:H	2.29	0.44
1:JD:118:GLN:HB3	1:JD:121:TYR:CZ	2.52	0.44
1:JK:63:ALA:HA	1:JK:68:GLU:HG2	1.99	0.44
1:JM:75:ILE:HG23	1:JN:79:THR:HG22	2.00	0.44
1:JP:4:ILE:HB	1:JQ:123:ILE:HG13	1.98	0.44
1:JR:56:ARG:HH21	1:JR:72:PRO:HG3	1.82	0.44
1:JX:56:ARG:HH21	1:JX:72:PRO:HG3	1.83	0.44
1:KA:79:THR:HB	1:KA:81:PHE:CE2	2.51	0.44
1:KD:113:TYR:CG	1:NP:90:ARG:NH2	2.86	0.44
1:KG:6:ILE:HG22	1:KG:19:PHE:HB3	1.99	0.44
1:KQ:4:ILE:HB	1:KR:123:ILE:HG13	1.98	0.44
1:KW:75:ILE:HG23	1:KX:79:THR:HG22	2.00	0.44
1:KX:63:ALA:HA	1:KX:68:GLU:HG2	1.99	0.44
1:KZ:21:LEU:HD12	1:KZ:30:ASN:OD1	2.18	0.44
1:LP:5:ALA:O	1:LP:22:PRO:HD3	2.17	0.44
1:LX:75:ILE:HG23	1:LY:79:THR:HG22	2.00	0.44
1:MC:6:ILE:HG22	1:MC:19:PHE:HB3	1.98	0.44
1:MC:56:ARG:HH21	1:MC:72:PRO:HG3	1.82	0.44
1:NE:21:LEU:HD12	1:NE:30:ASN:OD1	2.17	0.44
1:NE:118:GLN:HB3	1:NE:121:TYR:CZ	2.52	0.44
1:NU:95:LYS:HE3	1:NU:126:LEU:O	2.17	0.44
1:AG:4:ILE:HB	1:AH:123:ILE:HG13	1.98	0.44
1:AJ:21:LEU:HD12	1:AJ:30:ASN:OD1	2.17	0.44
1:AK:9:LEU:CG	1:AK:10:ARG:H	2.29	0.44
1:AQ:5:ALA:O	1:AQ:22:PRO:HD3	2.17	0.44
1:AQ:9:LEU:CG	1:AQ:10:ARG:H	2.29	0.44
1:AS:21:LEU:HD12	1:AS:30:ASN:OD1	2.18	0.44
1:BA:6:ILE:HG22	1:BA:19:PHE:HB3	1.99	0.44
1:BN:21:LEU:HD12	1:BN:30:ASN:OD1	2.17	0.44
1:BS:130:GLU:HA	1:FE:106:LYS:NZ	2.33	0.44
1:CH:56:ARG:HH21	1:CH:72:PRO:HG3	1.83	0.44
1:CI:21:LEU:HD12	1:CI:30:ASN:OD1	2.17	0.44
1:CK:106:LYS:NZ	1:FW:129:THR:O	2.51	0.44
1:CV:5:ALA:O	1:CV:22:PRO:HD3	2.17	0.44
1:CW:57:LYS:HZ3	1:GI:92:GLU:CD	2.19	0.44
1:DB:63:ALA:HA	1:DB:68:GLU:HG2	1.99	0.44
1:DJ:75:ILE:HG23	1:DK:79:THR:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DM:21:LEU:HD12	1:DM:30:ASN:OD1	2.17	0.44
1:DM:75:ILE:HG23	1:DN:79:THR:HG22	2.00	0.44
1:DP:75:ILE:HG23	1:DQ:79:THR:HG22	2.00	0.44
1:DQ:63:ALA:HA	1:DQ:68:GLU:HG2	1.99	0.44
1:EZ:79:THR:HB	1:EZ:81:PHE:CE2	2.52	0.44
1:FE:6:ILE:HG22	1:FE:19:PHE:HB3	1.99	0.44
1:FO:75:ILE:HG23	1:FP:79:THR:HG22	2.00	0.44
1:FR:118:GLN:HB3	1:FR:121:TYR:CZ	2.52	0.44
1:FS:5:ALA:O	1:FS:22:PRO:HD3	2.17	0.44
1:FZ:56:ARG:HH21	1:FZ:72:PRO:HG3	1.83	0.44
1:GR:56:ARG:HH21	1:GR:72:PRO:HG3	1.83	0.44
1:HH:21:LEU:HD12	1:HH:30:ASN:OD1	2.17	0.44
1:HH:75:ILE:HG23	1:HI:79:THR:HG22	2.00	0.44
1:HN:21:LEU:HD12	1:HN:30:ASN:OD1	2.17	0.44
1:HN:75:ILE:HG23	1:HO:79:THR:HG22	2.00	0.44
1:HS:119:ASP:O	1:LE:8:LYS:HB2	2.18	0.44
1:IR:75:ILE:HG23	1:IS:79:THR:HG22	2.00	0.44
1:IT:74:VAL:HG22	1:MF:80:SER:HB2	2.00	0.44
1:IT:112:ALA:O	1:MF:49:VAL:HG11	2.18	0.44
1:IV:95:LYS:HE3	1:IV:126:LEU:O	2.17	0.44
1:JS:75:ILE:HG23	1:JT:79:THR:HG22	2.00	0.44
1:JW:9:LEU:CG	1:JW:10:ARG:H	2.29	0.44
1:JY:75:ILE:HG23	1:JZ:79:THR:HG22	2.00	0.44
1:KC:95:LYS:HE3	1:KC:126:LEU:O	2.17	0.44
1:KD:56:ARG:HH21	1:KD:72:PRO:HG3	1.83	0.44
1:KF:5:ALA:O	1:KF:22:PRO:HD3	2.17	0.44
1:KF:9:LEU:CG	1:KF:10:ARG:H	2.29	0.44
1:KN:4:ILE:HB	1:KO:123:ILE:HG13	1.98	0.44
1:LE:56:ARG:HH21	1:LE:72:PRO:HG3	1.83	0.44
1:LG:63:ALA:HA	1:LG:68:GLU:HG2	1.99	0.44
1:LL:21:LEU:HD12	1:LL:30:ASN:OD1	2.17	0.44
1:LL:75:ILE:HG23	1:LM:79:THR:HG22	2.00	0.44
1:LR:4:ILE:HB	1:LS:123:ILE:HG13	1.98	0.44
1:LY:9:LEU:CG	1:LY:10:ARG:H	2.29	0.44
1:MD:21:LEU:HD12	1:MD:30:ASN:OD1	2.18	0.44
1:ML:6:ILE:HG22	1:ML:19:PHE:HB3	1.99	0.44
1:MM:75:ILE:HG23	1:MN:79:THR:HG22	2.00	0.44
1:MT:63:ALA:HA	1:MT:68:GLU:HG2	1.99	0.44
1:MW:95:LYS:HE3	1:MW:126:LEU:O	2.17	0.44
1:AJ:10:ARG:HH22	1:AL:15:ASP:HA	1.83	0.44
1:AP:75:ILE:HG23	1:AQ:79:THR:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:99:SER:OG	1:AP:124:GLU:O	2.20	0.44
1:AQ:63:ALA:HA	1:AQ:68:GLU:HG2	1.99	0.44
1:AV:75:ILE:HG23	1:AW:79:THR:HG22	2.00	0.44
1:AZ:9:LEU:CG	1:AZ:10:ARG:H	2.29	0.44
1:AZ:95:LYS:HE3	1:AZ:126:LEU:O	2.17	0.44
1:BG:92:GLU:CD	1:ES:57:LYS:HZ3	2.19	0.44
1:BH:126:LEU:HD23	1:BH:126:LEU:HA	1.85	0.44
1:BK:21:LEU:HD12	1:BK:30:ASN:OD1	2.18	0.44
1:BY:56:ARG:HH21	1:BY:72:PRO:HG3	1.83	0.44
1:BZ:113:TYR:O	1:DU:26:VAL:HG21	2.18	0.44
1:CF:118:GLN:HB3	1:CF:121:TYR:CZ	2.52	0.44
1:CI:126:LEU:HD23	1:CI:126:LEU:HA	1.85	0.44
1:CR:21:LEU:HD12	1:CR:30:ASN:OD1	2.18	0.44
1:CS:63:ALA:HA	1:CS:68:GLU:HG2	1.99	0.44
1:DG:75:ILE:HG23	1:DH:79:THR:HG22	2.00	0.44
1:DL:119:ASP:O	1:GX:8:LYS:HB2	2.17	0.44
1:DY:99:SER:OG	1:DY:124:GLU:O	2.20	0.44
1:EN:75:ILE:HG23	1:EO:79:THR:HG22	2.00	0.44
1:FF:21:LEU:HD12	1:FF:30:ASN:OD1	2.18	0.44
1:FL:75:ILE:HG23	1:FM:79:THR:HG22	2.00	0.44
1:FU:4:ILE:HB	1:FV:123:ILE:HG13	1.98	0.44
1:FU:75:ILE:HG23	1:FV:79:THR:HG22	2.00	0.44
1:FV:5:ALA:O	1:FV:22:PRO:HD3	2.17	0.44
1:FV:9:LEU:CG	1:FV:10:ARG:H	2.29	0.44
1:FX:10:ARG:HH22	1:FZ:15:ASP:HA	1.83	0.44
1:FZ:6:ILE:HG22	1:FZ:19:PHE:HB3	1.98	0.44
1:GL:56:ARG:HH21	1:GL:72:PRO:HG3	1.82	0.44
1:GM:21:LEU:HD12	1:GM:30:ASN:OD1	2.17	0.44
1:GO:6:ILE:HG22	1:GO:19:PHE:HB3	1.99	0.44
1:GP:118:GLN:HB3	1:GP:121:TYR:CZ	2.52	0.44
1:GQ:95:LYS:HE3	1:GQ:126:LEU:O	2.17	0.44
1:GS:75:ILE:HG23	1:GT:79:THR:HG22	2.00	0.44
1:GT:9:LEU:CG	1:GT:10:ARG:H	2.29	0.44
1:HC:5:ALA:O	1:HC:22:PRO:HD3	2.17	0.44
1:HJ:6:ILE:HG22	1:HJ:19:PHE:HB3	1.99	0.44
1:HQ:21:LEU:HD12	1:HQ:30:ASN:OD1	2.17	0.44
1:HR:95:LYS:HE3	1:HR:126:LEU:O	2.17	0.44
1:HW:4:ILE:HB	1:HX:123:ILE:HG13	1.98	0.44
1:HZ:21:LEU:HD12	1:HZ:30:ASN:OD1	2.17	0.44
1:IG:95:LYS:HE3	1:IG:126:LEU:O	2.17	0.44
1:IP:5:ALA:O	1:IP:22:PRO:HD3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IY:63:ALA:HA	1:IY:68:GLU:HG2	1.99	0.44
1:JB:5:ALA:O	1:JB:22:PRO:HD3	2.17	0.44
1:JB:63:ALA:HA	1:JB:68:GLU:HG2	1.99	0.44
1:JD:75:ILE:HG23	1:JE:79:THR:HG22	2.00	0.44
1:JN:5:ALA:O	1:JN:22:PRO:HD3	2.17	0.44
1:JU:76:LYS:O	1:NG:77:THR:HA	2.18	0.44
1:JV:21:LEU:HD12	1:JV:30:ASN:OD1	2.17	0.44
1:JY:10:ARG:HH22	1:KA:15:ASP:HA	1.83	0.44
1:JY:118:GLN:HB3	1:JY:121:TYR:CZ	2.52	0.44
1:JZ:63:ALA:HA	1:JZ:68:GLU:HG2	1.99	0.44
1:KE:75:ILE:HG23	1:KF:79:THR:HG22	2.00	0.44
1:KJ:79:THR:HB	1:KJ:81:PHE:CE2	2.51	0.44
1:KK:114:SER:HA	1:NS:26:VAL:HG21	2.00	0.44
1:KN:21:LEU:HD12	1:KN:30:ASN:OD1	2.18	0.44
1:KR:63:ALA:HA	1:KR:68:GLU:HG2	1.99	0.44
1:LB:6:ILE:HG22	1:LB:19:PHE:HB3	1.99	0.44
1:MA:21:LEU:HD12	1:MA:30:ASN:OD1	2.18	0.44
1:MD:75:ILE:HG23	1:ME:79:THR:HG22	2.00	0.44
1:MF:6:ILE:HG22	1:MF:19:PHE:HB3	1.99	0.44
1:MK:9:LEU:CG	1:MK:10:ARG:H	2.29	0.44
1:MK:63:ALA:HA	1:MK:68:GLU:HG2	1.99	0.44
1:MP:118:GLN:HB3	1:MP:121:TYR:CZ	2.52	0.44
1:MY:79:THR:HB	1:MY:81:PHE:CE2	2.52	0.44
1:MZ:95:LYS:HE3	1:MZ:126:LEU:O	2.17	0.44
1:NP:56:ARG:HH21	1:NP:72:PRO:HG3	1.83	0.44
1:NT:10:ARG:HH22	1:NV:15:ASP:HA	1.83	0.44
1:AB:5:ALA:O	1:AB:22:PRO:HD3	2.17	0.44
1:AI:6:ILE:HG22	1:AI:19:PHE:HB3	1.99	0.44
1:AN:63:ALA:HA	1:AN:68:GLU:HG2	1.99	0.44
1:AP:126:LEU:HD23	1:AP:126:LEU:HA	1.85	0.44
1:AU:113:TYR:CG	1:EG:90:ARG:NH2	2.86	0.44
1:BA:56:ARG:HH21	1:BA:72:PRO:HG3	1.82	0.44
1:BE:10:ARG:HH22	1:BG:15:ASP:HA	1.83	0.44
1:BN:75:ILE:HG23	1:BO:79:THR:HG22	2.00	0.44
1:BQ:10:ARG:HH22	1:BS:15:ASP:HA	1.83	0.44
1:BU:63:ALA:HA	1:BU:68:GLU:HG2	1.99	0.44
1:BW:21:LEU:HD12	1:BW:30:ASN:OD1	2.17	0.44
1:CK:56:ARG:HH21	1:CK:72:PRO:HG3	1.82	0.44
1:CK:92:GLU:OE2	1:FW:57:LYS:NZ	2.46	0.44
1:CL:75:ILE:HG23	1:CM:79:THR:HG22	2.00	0.44
1:CN:6:ILE:HG22	1:CN:19:PHE:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CO:126:LEU:HD23	1:CO:126:LEU:HA	1.85	0.44
1:DE:5:ALA:O	1:DE:22:PRO:HD3	2.17	0.44
1:DJ:118:GLN:HB3	1:DJ:121:TYR:CZ	2.52	0.44
1:DK:95:LYS:HE3	1:DK:126:LEU:O	2.17	0.44
1:DQ:95:LYS:HE3	1:DQ:126:LEU:O	2.17	0.44
1:EN:21:LEU:HD12	1:EN:30:ASN:OD1	2.18	0.44
1:EP:56:ARG:HH21	1:EP:72:PRO:HG3	1.82	0.44
1:EQ:75:ILE:HG23	1:ER:79:THR:HG22	2.00	0.44
1:ET:118:GLN:HB3	1:ET:121:TYR:CZ	2.52	0.44
1:EV:6:ILE:HG22	1:EV:19:PHE:HB3	1.99	0.44
1:EV:56:ARG:HH21	1:EV:72:PRO:HG3	1.82	0.44
1:FC:4:ILE:HB	1:FD:123:ILE:HG13	1.98	0.44
1:FC:75:ILE:HG23	1:FD:79:THR:HG22	2.00	0.44
1:FC:79:THR:HB	1:FC:81:PHE:CE2	2.52	0.44
1:FF:10:ARG:HH22	1:FH:15:ASP:HA	1.83	0.44
1:FR:21:LEU:HD12	1:FR:30:ASN:OD1	2.18	0.44
1:GC:56:ARG:HH21	1:GC:72:PRO:HG3	1.83	0.44
1:GJ:75:ILE:HG23	1:GK:79:THR:HG22	2.00	0.44
1:GQ:63:ALA:HA	1:GQ:68:GLU:HG2	1.99	0.44
1:HB:21:LEU:HD12	1:HB:30:ASN:OD1	2.18	0.44
1:HC:63:ALA:HA	1:HC:68:GLU:HG2	1.99	0.44
1:HE:75:ILE:HG23	1:HF:79:THR:HG22	2.00	0.44
1:HJ:56:ARG:HH21	1:HJ:72:PRO:HG3	1.83	0.44
1:HJ:113:TYR:CD1	1:KV:90:ARG:NH2	2.86	0.44
1:HL:63:ALA:HA	1:HL:68:GLU:HG2	1.99	0.44
1:HM:94:LEU:CD1	1:KY:105:VAL:HG22	2.48	0.44
1:HT:21:LEU:HD12	1:HT:30:ASN:OD1	2.18	0.44
1:HY:56:ARG:HH21	1:HY:72:PRO:HG3	1.82	0.44
1:IE:56:ARG:HH21	1:IE:72:PRO:HG3	1.82	0.44
1:IN:56:ARG:HH21	1:IN:72:PRO:HG3	1.82	0.44
1:IU:75:ILE:HG23	1:IV:79:THR:HG22	2.00	0.44
1:JH:95:LYS:HE3	1:JH:126:LEU:O	2.17	0.44
1:JJ:21:LEU:HD12	1:JJ:30:ASN:OD1	2.17	0.44
1:JM:21:LEU:HD12	1:JM:30:ASN:OD1	2.18	0.44
1:JU:89:ASP:OD2	1:NG:59:ILE:HD12	2.18	0.44
1:KC:63:ALA:HA	1:KC:68:GLU:HG2	1.99	0.44
1:KO:5:ALA:O	1:KO:22:PRO:HD3	2.17	0.44
1:KR:95:LYS:HE3	1:KR:126:LEU:O	2.17	0.44
1:LB:56:ARG:HH21	1:LB:72:PRO:HG3	1.82	0.44
1:LC:118:GLN:HB3	1:LC:121:TYR:CZ	2.52	0.44
1:LF:114:SER:HA	1:LN:26:VAL:CG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LJ:26:VAL:HG21	1:LP:113:TYR:O	2.17	0.44
1:LK:56:ARG:HH21	1:LK:72:PRO:HG3	1.82	0.44
1:LL:10:ARG:HH22	1:LN:15:ASP:HA	1.83	0.44
1:LL:113:TYR:O	1:MI:26:VAL:HG21	2.18	0.44
1:LR:10:ARG:HH22	1:LT:15:ASP:HA	1.83	0.44
1:LY:63:ALA:HA	1:LY:68:GLU:HG2	1.99	0.44
1:ME:95:LYS:HE3	1:ME:126:LEU:O	2.17	0.44
1:MU:6:ILE:HG22	1:MU:19:PHE:HB3	1.98	0.44
1:MU:79:THR:HB	1:MU:81:PHE:CE2	2.51	0.44
1:NB:21:LEU:HD12	1:NB:30:ASN:OD1	2.17	0.44
1:NJ:6:ILE:HG22	1:NJ:19:PHE:HB3	1.98	0.44
1:NK:118:GLN:HB3	1:NK:121:TYR:CZ	2.52	0.44
1:AB:63:ALA:HA	1:AB:68:GLU:HG2	1.99	0.43
1:AE:63:ALA:HA	1:AE:68:GLU:HG2	1.99	0.43
1:AL:92:GLU:CD	1:DX:57:LYS:HZ3	2.20	0.43
1:AP:118:GLN:HB3	1:AP:121:TYR:CZ	2.52	0.43
1:BD:6:ILE:HG22	1:BD:19:PHE:HB3	1.98	0.43
1:BH:10:ARG:HH22	1:BJ:15:ASP:HA	1.83	0.43
1:BH:118:GLN:HB3	1:BH:121:TYR:CZ	2.52	0.43
1:BL:5:ALA:O	1:BL:22:PRO:HD3	2.17	0.43
1:BL:95:LYS:HE3	1:BL:126:LEU:O	2.17	0.43
1:BQ:75:ILE:HG23	1:BR:79:THR:HG22	2.00	0.43
1:BV:56:ARG:HH21	1:BV:72:PRO:HG3	1.83	0.43
1:BV:89:ASP:OD2	1:FH:59:ILE:HD12	2.19	0.43
1:CF:21:LEU:HD12	1:CF:30:ASN:OD1	2.17	0.43
1:CO:75:ILE:HG23	1:CP:79:THR:HG22	2.00	0.43
1:CR:118:GLN:HB3	1:CR:121:TYR:CZ	2.52	0.43
1:DB:10:ARG:NH1	1:DD:38:LEU:HB2	2.33	0.43
1:DS:80:SER:HB2	1:DT:74:VAL:CG2	2.47	0.43
1:DX:56:ARG:HH21	1:DX:72:PRO:HG3	1.82	0.43
1:EF:5:ALA:O	1:EF:22:PRO:HD3	2.17	0.43
1:EJ:56:ARG:HH21	1:EJ:72:PRO:HG3	1.82	0.43
1:EL:5:ALA:O	1:EL:22:PRO:HD3	2.17	0.43
1:EM:56:ARG:HH21	1:EM:72:PRO:HG3	1.82	0.43
1:FG:63:ALA:HA	1:FG:68:GLU:HG2	1.99	0.43
1:FL:21:LEU:HD12	1:FL:30:ASN:OD1	2.18	0.43
1:FM:63:ALA:HA	1:FM:68:GLU:HG2	1.99	0.43
1:FP:63:ALA:HA	1:FP:68:GLU:HG2	1.99	0.43
1:FQ:6:ILE:HG22	1:FQ:19:PHE:HB3	1.98	0.43
1:FW:56:ARG:HH21	1:FW:72:PRO:HG3	1.83	0.43
1:FY:5:ALA:O	1:FY:22:PRO:HD3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GY:75:ILE:HG23	1:GZ:79:THR:HG22	2.00	0.43
1:GZ:5:ALA:O	1:GZ:22:PRO:HD3	2.17	0.43
1:GZ:95:LYS:HE3	1:GZ:126:LEU:O	2.17	0.43
1:HE:118:GLN:HB3	1:HE:121:TYR:CZ	2.52	0.43
1:HF:95:LYS:HE3	1:HF:126:LEU:O	2.17	0.43
1:HO:63:ALA:HA	1:HO:68:GLU:HG2	1.99	0.43
1:HP:6:ILE:HG22	1:HP:19:PHE:HB3	1.99	0.43
1:HU:5:ALA:O	1:HU:22:PRO:HD3	2.17	0.43
1:HW:75:ILE:HG23	1:HX:79:THR:HG22	2.00	0.43
1:IJ:63:ALA:HA	1:IJ:68:GLU:HG2	1.99	0.43
1:IL:21:LEU:HD12	1:IL:30:ASN:OD1	2.18	0.43
1:IW:56:ARG:HH21	1:IW:72:PRO:HG3	1.83	0.43
1:JA:21:LEU:HD12	1:JA:30:ASN:OD1	2.18	0.43
1:JE:5:ALA:O	1:JE:22:PRO:HD3	2.17	0.43
1:JI:59:ILE:HD12	1:MU:89:ASP:OD2	2.18	0.43
1:JM:118:GLN:HB3	1:JM:121:TYR:CZ	2.52	0.43
1:KQ:99:SER:OG	1:KQ:124:GLU:O	2.20	0.43
1:MG:10:ARG:HH22	1:MI:15:ASP:HA	1.83	0.43
1:MH:63:ALA:HA	1:MH:68:GLU:HG2	1.99	0.43
1:MK:95:LYS:HE3	1:MK:126:LEU:O	2.17	0.43
1:MN:95:LYS:HE3	1:MN:126:LEU:O	2.17	0.43
1:MQ:9:LEU:CG	1:MQ:10:ARG:H	2.29	0.43
1:MY:21:LEU:HD12	1:MY:30:ASN:OD1	2.17	0.43
1:MY:75:ILE:HG23	1:MZ:79:THR:HG22	2.00	0.43
1:NB:10:ARG:HH22	1:ND:15:ASP:HA	1.83	0.43
1:AB:38:LEU:CD2	1:BJ:10:ARG:HH21	2.30	0.43
1:AC:56:ARG:HH21	1:AC:72:PRO:HG3	1.82	0.43
1:AC:75:ILE:HD12	1:DO:94:LEU:HD23	2.00	0.43
1:AL:129:THR:O	1:DX:106:LYS:NZ	2.51	0.43
1:AM:75:ILE:HG23	1:AN:79:THR:HG22	2.00	0.43
1:BC:63:ALA:HA	1:BC:68:GLU:HG2	1.99	0.43
1:BQ:80:SER:HB2	1:BR:74:VAL:CG2	2.48	0.43
1:BW:10:ARG:HH22	1:BY:15:ASP:HA	1.83	0.43
1:CC:21:LEU:HD12	1:CC:30:ASN:OD1	2.18	0.43
1:CK:92:GLU:CD	1:FW:57:LYS:HZ3	2.20	0.43
1:CR:75:ILE:HG23	1:CS:79:THR:HG22	2.00	0.43
1:DA:80:SER:HB2	1:DB:74:VAL:CG2	2.48	0.43
1:DB:9:LEU:CG	1:DB:10:ARG:H	2.29	0.43
1:DB:66:ALA:HB3	1:GK:66:ALA:HB1	2.00	0.43
1:DD:21:LEU:HD12	1:DD:30:ASN:OD1	2.18	0.43
1:DI:56:ARG:HH21	1:DI:72:PRO:HG3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DN:9:LEU:CG	1:DN:10:ARG:H	2.29	0.43
1:DP:21:LEU:HD12	1:DP:30:ASN:OD1	2.18	0.43
1:EU:26:VAL:HG21	1:FG:113:TYR:O	2.18	0.43
1:FD:5:ALA:O	1:FD:22:PRO:HD3	2.17	0.43
1:FI:75:ILE:HG23	1:FJ:79:THR:HG22	2.00	0.43
1:GM:75:ILE:HG23	1:GN:79:THR:HG22	2.00	0.43
1:GV:21:LEU:HD12	1:GV:30:ASN:OD1	2.17	0.43
1:HB:75:ILE:HG23	1:HC:79:THR:HG22	2.00	0.43
1:HG:56:ARG:HH21	1:HG:72:PRO:HG3	1.82	0.43
1:HK:80:SER:HB2	1:HL:74:VAL:CG2	2.48	0.43
1:HP:56:ARG:HH21	1:HP:72:PRO:HG3	1.82	0.43
1:II:75:ILE:HG23	1:IJ:79:THR:HG22	2.00	0.43
1:IT:56:ARG:HH21	1:IT:72:PRO:HG3	1.82	0.43
1:JA:10:ARG:HH22	1:JC:15:ASP:HA	1.83	0.43
1:JC:56:ARG:HH21	1:JC:72:PRO:HG3	1.82	0.43
1:JD:80:SER:HB2	1:JE:74:VAL:CG2	2.48	0.43
1:JG:21:LEU:HD12	1:JG:30:ASN:OD1	2.18	0.43
1:JO:106:LYS:NZ	1:NA:129:THR:O	2.51	0.43
1:JP:21:LEU:HD12	1:JP:30:ASN:OD1	2.18	0.43
1:JZ:5:ALA:O	1:JZ:22:PRO:HD3	2.17	0.43
1:KE:10:ARG:HH22	1:KG:15:ASP:HA	1.83	0.43
1:KH:75:ILE:HG23	1:KI:79:THR:HG22	2.00	0.43
1:KH:80:SER:HB2	1:KI:74:VAL:CG2	2.48	0.43
1:KL:63:ALA:HA	1:KL:68:GLU:HG2	1.99	0.43
1:KO:63:ALA:HA	1:KO:68:GLU:HG2	1.99	0.43
1:KT:75:ILE:HG23	1:KU:79:THR:HG22	2.00	0.43
1:LD:5:ALA:O	1:LD:22:PRO:HD3	2.17	0.43
1:LF:21:LEU:HD12	1:LF:30:ASN:OD1	2.17	0.43
1:LL:118:GLN:HB3	1:LL:121:TYR:CZ	2.52	0.43
1:LR:21:LEU:HD12	1:LR:30:ASN:OD1	2.18	0.43
1:LW:6:ILE:HG22	1:LW:19:PHE:HB3	1.99	0.43
1:LW:56:ARG:HH21	1:LW:72:PRO:HG3	1.83	0.43
1:MB:95:LYS:HE3	1:MB:126:LEU:O	2.17	0.43
1:ME:5:ALA:O	1:ME:22:PRO:HD3	2.17	0.43
1:MJ:75:ILE:HG23	1:MK:79:THR:HG22	2.00	0.43
1:NO:63:ALA:HA	1:NO:68:GLU:HG2	1.99	0.43
1:NT:21:LEU:HD12	1:NT:30:ASN:OD1	2.17	0.43
1:AB:95:LYS:HE3	1:AB:126:LEU:O	2.17	0.43
1:AC:76:LYS:O	1:DO:77:THR:HA	2.17	0.43
1:AP:21:LEU:HD12	1:AP:30:ASN:OD1	2.18	0.43
1:BN:10:ARG:HH22	1:BP:15:ASP:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BQ:126:LEU:HD23	1:BQ:126:LEU:HA	1.85	0.43
1:BX:95:LYS:HE3	1:BX:126:LEU:O	2.17	0.43
1:CE:56:ARG:HH21	1:CE:72:PRO:HG3	1.82	0.43
1:CK:57:LYS:HZ3	1:FW:92:GLU:CD	2.21	0.43
1:CP:63:ALA:HA	1:CP:68:GLU:HG2	1.99	0.43
1:CU:80:SER:HB2	1:CV:74:VAL:CG2	2.48	0.43
1:DS:10:ARG:HH22	1:DU:15:ASP:HA	1.83	0.43
1:DT:95:LYS:HE3	1:DT:126:LEU:O	2.17	0.43
1:DV:21:LEU:HD12	1:DV:30:ASN:OD1	2.18	0.43
1:DV:114:SER:HA	1:GF:26:VAL:CG2	2.48	0.43
1:EH:75:ILE:HG23	1:EI:79:THR:HG22	2.00	0.43
1:FX:118:GLN:HB3	1:FX:121:TYR:CZ	2.52	0.43
1:GM:10:ARG:HH22	1:GO:15:ASP:HA	1.83	0.43
1:GW:5:ALA:O	1:GW:22:PRO:HD3	2.17	0.43
1:HA:4:ILE:HG13	1:KM:125:ASP:HB2	2.00	0.43
1:HE:9:LEU:HA	1:KS:116:TYR:CD1	2.53	0.43
1:HM:82:PRO:HD2	1:KY:73:ILE:HG12	2.00	0.43
1:HU:9:LEU:CG	1:HU:10:ARG:H	2.29	0.43
1:HZ:75:ILE:HG23	1:IA:79:THR:HG22	2.00	0.43
1:IF:21:LEU:HD12	1:IF:30:ASN:OD1	2.18	0.43
1:IG:5:ALA:O	1:IG:22:PRO:HD3	2.17	0.43
1:JN:95:LYS:HE3	1:JN:126:LEU:O	2.17	0.43
1:JU:8:LYS:HB2	1:NG:119:ASP:O	2.18	0.43
1:JV:10:ARG:HH22	1:JX:15:ASP:HA	1.83	0.43
1:JV:75:ILE:HG23	1:JW:79:THR:HG22	2.00	0.43
1:JW:95:LYS:HE3	1:JW:126:LEU:O	2.17	0.43
1:KG:56:ARG:HH21	1:KG:72:PRO:HG3	1.83	0.43
1:KO:26:VAL:HG21	1:NU:113:TYR:O	2.18	0.43
1:KW:21:LEU:HD12	1:KW:30:ASN:OD1	2.18	0.43
1:LA:95:LYS:HE3	1:LA:126:LEU:O	2.17	0.43
1:LU:99:SER:OG	1:LU:124:GLU:O	2.20	0.43
1:MV:126:LEU:HD23	1:MV:126:LEU:HA	1.85	0.43
1:NE:10:ARG:HH22	1:NG:15:ASP:HA	1.83	0.43
1:NH:75:ILE:HG23	1:NI:79:THR:HG22	2.00	0.43
1:NK:21:LEU:HD12	1:NK:30:ASN:OD1	2.17	0.43
1:NN:99:SER:OG	1:NN:124:GLU:O	2.20	0.43
1:NO:5:ALA:O	1:NO:22:PRO:HD3	2.17	0.43
1:AJ:80:SER:HB2	1:AK:74:VAL:CG2	2.48	0.43
1:AZ:15:ASP:OD1	1:EJ:10:ARG:NH1	2.52	0.43
1:BO:42:ARG:HB3	1:BO:45:ASN:HB3	2.01	0.43
1:BT:21:LEU:HD12	1:BT:30:ASN:OD1	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BT:99:SER:OG	1:BT:124:GLU:O	2.20	0.43
1:CD:42:ARG:HB3	1:CD:45:ASN:HB3	2.01	0.43
1:CN:77:THR:HA	1:FZ:76:LYS:O	2.18	0.43
1:CQ:59:ILE:HD12	1:GC:89:ASP:OD2	2.18	0.43
1:CR:10:ARG:HH22	1:CT:15:ASP:HA	1.83	0.43
1:CT:10:ARG:HH21	1:DE:38:LEU:CD2	2.31	0.43
1:CZ:26:VAL:HG21	1:GG:114:SER:HA	2.00	0.43
1:DB:15:ASP:OD1	1:DF:10:ARG:NH1	2.51	0.43
1:DN:42:ARG:HB3	1:DN:45:ASN:HB3	2.01	0.43
1:EQ:10:ARG:HH22	1:ES:15:ASP:HA	1.83	0.43
1:EU:95:LYS:HE3	1:EU:126:LEU:O	2.17	0.43
1:EX:5:ALA:O	1:EX:22:PRO:HD3	2.17	0.43
1:FJ:42:ARG:HB3	1:FJ:45:ASN:HB3	2.01	0.43
1:GA:75:ILE:HG23	1:GB:79:THR:HG22	2.00	0.43
1:GJ:21:LEU:HD12	1:GJ:30:ASN:OD1	2.18	0.43
1:GJ:80:SER:HB2	1:GK:74:VAL:CG2	2.48	0.43
1:GK:42:ARG:HB3	1:GK:45:ASN:HB3	2.01	0.43
1:GP:75:ILE:HG23	1:GQ:79:THR:HG22	2.00	0.43
1:GZ:42:ARG:HB3	1:GZ:45:ASN:HB3	2.01	0.43
1:HW:21:LEU:HD12	1:HW:30:ASN:OD1	2.17	0.43
1:IC:118:GLN:HB3	1:IC:121:TYR:CZ	2.52	0.43
1:IZ:56:ARG:HH21	1:IZ:72:PRO:HG3	1.82	0.43
1:JE:9:LEU:CG	1:JE:10:ARG:H	2.29	0.43
1:JI:56:ARG:HH21	1:JI:72:PRO:HG3	1.82	0.43
1:JR:119:ASP:O	1:ND:8:LYS:HB2	2.18	0.43
1:KA:92:GLU:CD	1:NM:57:LYS:HZ3	2.19	0.43
1:LP:10:ARG:HH11	1:MJ:38:LEU:HD22	1.83	0.43
1:MO:79:THR:HB	1:MO:81:PHE:CE2	2.52	0.43
1:MT:95:LYS:HE3	1:MT:126:LEU:O	2.17	0.43
1:NC:63:ALA:HA	1:NC:68:GLU:HG2	1.99	0.43
1:NE:75:ILE:HG23	1:NF:79:THR:HG22	2.00	0.43
1:AH:63:ALA:HA	1:AH:68:GLU:HG2	1.99	0.43
1:AN:42:ARG:HB3	1:AN:45:ASN:HB3	2.01	0.43
1:AV:80:SER:HB2	1:AW:74:VAL:CG2	2.48	0.43
1:AY:75:ILE:HG23	1:AZ:79:THR:HG22	2.00	0.43
1:BE:75:ILE:HG23	1:BF:79:THR:HG22	2.00	0.43
1:BO:95:LYS:HE3	1:BO:126:LEU:O	2.17	0.43
1:BX:63:ALA:HA	1:BX:68:GLU:HG2	1.99	0.43
1:CF:75:ILE:HG23	1:CG:79:THR:HG22	2.00	0.43
1:CN:80:SER:HB2	1:FZ:74:VAL:CG2	2.45	0.43
1:CX:80:SER:HB2	1:CY:74:VAL:CG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:113:TYR:O	1:DF:26:VAL:HG21	2.18	0.43
1:DC:104:GLU:OE1	1:GO:53:ARG:NH1	2.34	0.43
1:DF:56:ARG:HH21	1:DF:72:PRO:HG3	1.82	0.43
1:DL:56:ARG:HH21	1:DL:72:PRO:HG3	1.83	0.43
1:DY:21:LEU:HD12	1:DY:30:ASN:OD1	2.18	0.43
1:DZ:5:ALA:O	1:DZ:22:PRO:HD3	2.17	0.43
1:EB:75:ILE:HG23	1:EC:79:THR:HG22	2.00	0.43
1:EE:99:SER:OG	1:EE:124:GLU:O	2.20	0.43
1:EO:42:ARG:HB3	1:EO:45:ASN:HB3	2.01	0.43
1:ET:75:ILE:HG23	1:EU:79:THR:HG22	2.00	0.43
1:EZ:75:ILE:HG23	1:FA:79:THR:HG22	2.00	0.43
1:FF:75:ILE:HG23	1:FG:79:THR:HG22	2.00	0.43
1:GD:75:ILE:HG23	1:GE:79:THR:HG22	2.00	0.43
1:GS:126:LEU:HD23	1:GS:126:LEU:HA	1.85	0.43
1:HI:5:ALA:O	1:HI:22:PRO:HD3	2.17	0.43
1:JF:5:ALA:HB2	1:MR:122:PHE:CE1	2.53	0.43
1:JQ:42:ARG:HB3	1:JQ:45:ASN:HB3	2.01	0.43
1:JX:53:ARG:NH1	1:NJ:104:GLU:OE1	2.37	0.43
1:JZ:42:ARG:HB3	1:JZ:45:ASN:HB3	2.01	0.43
1:KJ:56:ARG:HH21	1:KJ:72:PRO:HG3	1.82	0.43
1:KJ:57:LYS:NZ	1:NV:92:GLU:CD	2.68	0.43
1:KL:95:LYS:HE3	1:KL:126:LEU:O	2.17	0.43
1:LO:118:GLN:HB3	1:LO:121:TYR:CZ	2.52	0.43
1:LR:75:ILE:HG23	1:LS:79:THR:HG22	2.00	0.43
1:LS:10:ARG:HH11	1:MD:38:LEU:HB2	1.83	0.43
1:LV:42:ARG:HB3	1:LV:45:ASN:HB3	2.01	0.43
1:MA:10:ARG:HH22	1:MC:15:ASP:HA	1.83	0.43
1:MA:75:ILE:HG23	1:MB:79:THR:HG22	2.00	0.43
1:MG:75:ILE:HG23	1:MH:79:THR:HG22	2.00	0.43
1:MS:75:ILE:HG23	1:MT:79:THR:HG22	2.00	0.43
1:NR:42:ARG:HB3	1:NR:45:ASN:HB3	2.01	0.43
1:NS:56:ARG:HH21	1:NS:72:PRO:HG3	1.83	0.43
1:NU:5:ALA:O	1:NU:22:PRO:HD3	2.17	0.43
1:AV:21:LEU:HD12	1:AV:30:ASN:OD1	2.17	0.43
1:AW:15:ASP:OD1	1:EG:10:ARG:HD2	2.18	0.43
1:AY:10:ARG:HH22	1:BA:15:ASP:HA	1.83	0.43
1:BO:63:ALA:HA	1:BO:68:GLU:HG2	1.99	0.43
1:BR:95:LYS:HE3	1:BR:126:LEU:O	2.17	0.43
1:BW:75:ILE:HG23	1:BX:79:THR:HG22	2.00	0.43
1:CQ:113:TYR:CD1	1:GC:90:ARG:NH2	2.86	0.43
1:DC:26:VAL:CG2	1:GJ:114:SER:HA	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DC:56:ARG:HH21	1:DC:72:PRO:HG3	1.82	0.43
1:DE:42:ARG:HB3	1:DE:45:ASN:HB3	2.01	0.43
1:DI:59:ILE:HD12	1:GU:89:ASP:OD2	2.18	0.43
1:DY:75:ILE:HG23	1:DZ:79:THR:HG22	2.00	0.43
1:EI:42:ARG:HB3	1:EI:45:ASN:HB3	2.01	0.43
1:EK:10:ARG:HH22	1:EM:15:ASP:HA	1.83	0.43
1:FM:42:ARG:HB3	1:FM:45:ASN:HB3	2.01	0.43
1:FS:63:ALA:HA	1:FS:68:GLU:HG2	1.99	0.43
1:GE:42:ARG:HB3	1:GE:45:ASN:HB3	2.01	0.43
1:GF:56:ARG:HH21	1:GF:72:PRO:HG3	1.82	0.43
1:GS:21:LEU:HD12	1:GS:30:ASN:OD1	2.18	0.43
1:IG:63:ALA:HA	1:IG:68:GLU:HG2	1.99	0.43
1:IO:99:SER:OG	1:IO:124:GLU:O	2.20	0.43
1:IT:113:TYR:CD1	1:MF:90:ARG:NH2	2.87	0.43
1:IV:42:ARG:HB3	1:IV:45:ASN:HB3	2.01	0.43
1:IY:95:LYS:HE3	1:IY:126:LEU:O	2.17	0.43
1:JJ:75:ILE:HG23	1:JK:79:THR:HG22	2.00	0.43
1:JN:42:ARG:HB3	1:JN:45:ASN:HB3	2.01	0.43
1:KD:80:SER:HB2	1:NP:74:VAL:CG2	2.46	0.43
1:KK:75:ILE:HG23	1:KL:79:THR:HG22	2.00	0.43
1:KX:42:ARG:HB3	1:KX:45:ASN:HB3	2.01	0.43
1:KZ:75:ILE:HG23	1:LA:79:THR:HG22	2.00	0.43
1:LA:42:ARG:HB3	1:LA:45:ASN:HB3	2.01	0.43
1:LC:80:SER:HB2	1:LD:74:VAL:CG2	2.48	0.43
1:LJ:9:LEU:CG	1:LJ:10:ARG:H	2.29	0.43
1:LQ:56:ARG:HH21	1:LQ:72:PRO:HG3	1.82	0.43
1:LX:126:LEU:HD23	1:LX:126:LEU:HA	1.85	0.43
1:MZ:42:ARG:HB3	1:MZ:45:ASN:HB3	2.01	0.43
1:AD:75:ILE:HG23	1:AE:79:THR:HG22	2.00	0.43
1:AF:49:VAL:HG11	1:DR:112:ALA:O	2.18	0.43
1:AJ:38:LEU:HD22	1:FP:10:ARG:HH11	1.83	0.43
1:AX:92:GLU:CD	1:EJ:57:LYS:HZ3	2.22	0.43
1:BB:75:ILE:HG23	1:BC:79:THR:HG22	2.00	0.43
1:BD:113:TYR:CG	1:EP:90:ARG:NH2	2.86	0.43
1:BF:9:LEU:CG	1:BF:10:ARG:H	2.29	0.43
1:BK:10:ARG:HH22	1:BM:15:ASP:HA	1.83	0.43
1:CF:10:ARG:HH22	1:CH:15:ASP:HA	1.83	0.43
1:CI:75:ILE:HG23	1:CJ:79:THR:HG22	2.00	0.43
1:CM:63:ALA:HA	1:CM:68:GLU:HG2	1.99	0.43
1:CO:21:LEU:HD12	1:CO:30:ASN:OD1	2.18	0.43
1:CW:56:ARG:HH21	1:CW:72:PRO:HG3	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CY:9:LEU:CG	1:CY:10:ARG:H	2.29	0.43
1:CY:42:ARG:HB3	1:CY:45:ASN:HB3	2.01	0.43
1:EE:10:ARG:HH22	1:EG:15:ASP:HA	1.83	0.43
1:EH:10:ARG:HH22	1:EJ:15:ASP:HA	1.83	0.43
1:EO:95:LYS:HE3	1:EO:126:LEU:O	2.17	0.43
1:GB:5:ALA:O	1:GB:22:PRO:HD3	2.17	0.43
1:GV:10:ARG:HH22	1:GX:15:ASP:HA	1.83	0.43
1:GY:113:TYR:O	1:IH:26:VAL:HG21	2.18	0.43
1:HS:8:LYS:HB2	1:LE:119:ASP:O	2.17	0.43
1:HS:89:ASP:OD2	1:LE:59:ILE:HD12	2.19	0.43
1:HY:106:LYS:NZ	1:LK:129:THR:O	2.52	0.43
1:IA:9:LEU:CG	1:IA:10:ARG:H	2.29	0.43
1:IC:80:SER:HB2	1:ID:74:VAL:CG2	2.48	0.43
1:ID:42:ARG:HB3	1:ID:45:ASN:HB3	2.01	0.43
1:II:10:ARG:HH22	1:IK:15:ASP:HA	1.83	0.43
1:IM:42:ARG:HB3	1:IM:45:ASN:HB3	2.01	0.43
1:IP:42:ARG:HB3	1:IP:45:ASN:HB3	2.01	0.43
1:JE:42:ARG:HB3	1:JE:45:ASN:HB3	2.01	0.43
1:JW:63:ALA:HA	1:JW:68:GLU:HG2	1.99	0.43
1:JZ:95:LYS:HE3	1:JZ:126:LEU:O	2.17	0.43
1:KN:75:ILE:HG23	1:KO:79:THR:HG22	2.00	0.43
1:KN:80:SER:HB2	1:KO:74:VAL:CG2	2.48	0.43
1:KO:42:ARG:HB3	1:KO:45:ASN:HB3	2.01	0.43
1:KQ:75:ILE:HG23	1:KR:79:THR:HG22	2.00	0.43
1:LO:10:ARG:HH22	1:LQ:15:ASP:HA	1.83	0.43
1:MB:9:LEU:CG	1:MB:10:ARG:H	2.29	0.43
1:MB:42:ARG:HB3	1:MB:45:ASN:HB3	2.01	0.43
1:MF:56:ARG:HH21	1:MF:72:PRO:HG3	1.82	0.43
1:MI:56:ARG:HH21	1:MI:72:PRO:HG3	1.83	0.43
1:MS:80:SER:HB2	1:MT:74:VAL:CG2	2.48	0.43
1:NJ:56:ARG:HH21	1:NJ:72:PRO:HG3	1.82	0.43
1:AQ:42:ARG:HB3	1:AQ:45:ASN:HB3	2.01	0.43
1:AR:90:ARG:NH2	1:ED:113:TYR:CG	2.87	0.43
1:AW:9:LEU:CG	1:AW:10:ARG:H	2.29	0.43
1:AX:56:ARG:HH21	1:AX:72:PRO:HG3	1.83	0.43
1:BI:42:ARG:HB3	1:BI:45:ASN:HB3	2.01	0.43
1:CJ:9:LEU:CG	1:CJ:10:ARG:H	2.29	0.43
1:DA:126:LEU:HD23	1:DA:126:LEU:HA	1.85	0.43
1:ER:42:ARG:HB3	1:ER:45:ASN:HB3	2.01	0.43
1:FB:56:ARG:HH21	1:FB:72:PRO:HG3	1.82	0.43
1:FU:80:SER:HB2	1:FV:74:VAL:CG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HK:10:ARG:HH22	1:HM:15:ASP:HA	1.83	0.43
1:HM:106:LYS:NZ	1:KY:130:GLU:HA	2.34	0.43
1:HO:5:ALA:O	1:HO:22:PRO:HD3	2.17	0.43
1:HR:42:ARG:HB3	1:HR:45:ASN:HB3	2.01	0.43
1:IW:106:LYS:NZ	1:MI:129:THR:O	2.51	0.43
1:JB:11:GLU:OE1	1:NJ:11:GLU:OE1	2.37	0.43
1:JE:10:ARG:HH11	1:NK:38:LEU:HB2	1.83	0.43
1:JP:80:SER:HB2	1:JQ:74:VAL:CG2	2.48	0.43
1:KG:82:PRO:HD2	1:KG:85:THR:HG21	2.01	0.43
1:KI:9:LEU:CG	1:KI:10:ARG:H	2.29	0.43
1:KM:56:ARG:HH21	1:KM:72:PRO:HG3	1.83	0.43
1:LJ:42:ARG:HB3	1:LJ:45:ASN:HB3	2.01	0.43
1:MI:82:PRO:HD2	1:MI:85:THR:HG21	2.01	0.43
1:MM:10:ARG:HH22	1:MO:15:ASP:HA	1.83	0.43
1:MN:42:ARG:HB3	1:MN:45:ASN:HB3	2.01	0.43
1:MW:63:ALA:HA	1:MW:68:GLU:HG2	1.99	0.43
1:NI:42:ARG:HB3	1:NI:45:ASN:HB3	2.01	0.43
1:NL:42:ARG:HB3	1:NL:45:ASN:HB3	2.01	0.43
1:NN:75:ILE:HG23	1:NO:79:THR:HG22	2.00	0.43
1:AA:75:ILE:HG23	1:AB:79:THR:HG22	2.00	0.43
1:AC:82:PRO:HD2	1:AC:85:THR:HG21	2.01	0.43
1:AS:10:ARG:HD2	1:AU:38:LEU:HD11	2.01	0.43
1:AS:75:ILE:HG23	1:AT:79:THR:HG22	2.00	0.43
1:BB:10:ARG:HH22	1:BD:15:ASP:HA	1.83	0.43
1:BM:56:ARG:HH21	1:BM:72:PRO:HG3	1.83	0.43
1:BV:57:LYS:NZ	1:FH:92:GLU:OE2	2.46	0.43
1:BV:92:GLU:OE2	1:FH:57:LYS:NZ	2.44	0.43
1:CB:82:PRO:HD2	1:CB:85:THR:HG21	2.01	0.43
1:CT:56:ARG:HH21	1:CT:72:PRO:HG3	1.83	0.43
1:DG:10:ARG:HD2	1:DI:38:LEU:HD11	2.01	0.43
1:DG:80:SER:HB2	1:DH:74:VAL:CG2	2.48	0.43
1:DH:42:ARG:HB3	1:DH:45:ASN:HB3	2.01	0.43
1:DI:122:PHE:CE1	1:GU:5:ALA:HB2	2.54	0.43
1:DK:9:LEU:CG	1:DK:10:ARG:H	2.29	0.43
1:DS:10:ARG:HD2	1:DU:38:LEU:HD11	2.01	0.43
1:DT:9:LEU:CG	1:DT:10:ARG:H	2.29	0.43
1:EB:126:LEU:HD23	1:EB:126:LEU:HA	1.85	0.43
1:ES:82:PRO:HD2	1:ES:85:THR:HG21	2.01	0.43
1:EU:9:LEU:CG	1:EU:10:ARG:H	2.29	0.43
1:FN:82:PRO:HD2	1:FN:85:THR:HG21	2.01	0.43
1:FR:75:ILE:HG23	1:FS:79:THR:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:63:ALA:HA	1:GB:68:GLU:HG2	1.99	0.43
1:GO:56:ARG:HH21	1:GO:72:PRO:HG3	1.83	0.43
1:HB:80:SER:HB2	1:HC:74:VAL:CG2	2.48	0.43
1:HD:56:ARG:HH21	1:HD:72:PRO:HG3	1.83	0.43
1:HS:129:THR:O	1:LE:106:LYS:NZ	2.52	0.43
1:HW:80:SER:HB2	1:HX:74:VAL:CG2	2.48	0.43
1:IK:90:ARG:NH2	1:LW:113:TYR:CD1	2.87	0.43
1:IP:63:ALA:HA	1:IP:68:GLU:HG2	1.99	0.43
1:JC:94:LEU:CD1	1:MO:105:VAL:HG22	2.49	0.43
1:JI:82:PRO:HD2	1:JI:85:THR:HG21	2.01	0.43
1:JL:10:ARG:NH1	1:KF:15:ASP:OD1	2.52	0.43
1:KE:80:SER:HB2	1:KF:74:VAL:CG2	2.48	0.43
1:LU:80:SER:HB2	1:LV:74:VAL:CG2	2.48	0.43
1:LV:9:LEU:CG	1:LV:10:ARG:H	2.29	0.43
1:MG:80:SER:HB2	1:MH:74:VAL:CG2	2.48	0.43
1:MJ:10:ARG:HD2	1:ML:38:LEU:HD11	2.01	0.43
1:NC:95:LYS:HE3	1:NC:126:LEU:O	2.17	0.43
1:NE:10:ARG:HD2	1:NG:38:LEU:HD11	2.01	0.43
1:NO:9:LEU:CG	1:NO:10:ARG:H	2.30	0.43
1:NQ:126:LEU:HD23	1:NQ:126:LEU:HA	1.85	0.43
1:AF:129:THR:O	1:DR:106:LYS:NZ	2.51	0.43
1:AL:82:PRO:HD2	1:AL:85:THR:HG21	2.01	0.43
1:AO:82:PRO:HD2	1:AO:85:THR:HG21	2.01	0.43
1:AS:10:ARG:HH22	1:AU:15:ASP:HA	1.83	0.43
1:AU:53:ARG:NH1	1:EG:104:GLU:OE1	2.38	0.43
1:AW:42:ARG:HB3	1:AW:45:ASN:HB3	2.01	0.43
1:AZ:10:ARG:NH1	1:EH:38:LEU:HB2	2.33	0.43
1:BD:92:GLU:CD	1:EP:57:LYS:HZ3	2.20	0.43
1:BH:10:ARG:HD2	1:BJ:38:LEU:HD11	2.01	0.43
1:BP:129:THR:C	1:FB:106:LYS:HZ2	2.22	0.43
1:BX:42:ARG:HB3	1:BX:45:ASN:HB3	2.01	0.43
1:CF:10:ARG:HD2	1:CH:38:LEU:HD11	2.01	0.43
1:CZ:8:LYS:HB2	1:GL:119:ASP:O	2.19	0.43
1:DA:75:ILE:HG23	1:DB:79:THR:HG22	2.00	0.43
1:DD:75:ILE:HG23	1:DE:79:THR:HG22	2.00	0.43
1:DV:114:SER:HA	1:GF:26:VAL:HG21	2.01	0.43
1:EB:10:ARG:HD2	1:ED:38:LEU:HD11	2.01	0.43
1:EV:82:PRO:HD2	1:EV:85:THR:HG21	2.01	0.43
1:FD:9:LEU:CG	1:FD:10:ARG:H	2.29	0.43
1:FG:42:ARG:HB3	1:FG:45:ASN:HB3	2.01	0.43
1:FV:42:ARG:HB3	1:FV:45:ASN:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GD:10:ARG:HD2	1:GF:38:LEU:HD11	2.01	0.43
1:GT:42:ARG:HB3	1:GT:45:ASN:HB3	2.01	0.43
1:GV:10:ARG:HD2	1:GX:38:LEU:HD11	2.01	0.43
1:HK:75:ILE:HG23	1:HL:79:THR:HG22	2.00	0.43
1:IB:56:ARG:HH21	1:IB:72:PRO:HG3	1.83	0.43
1:IE:77:THR:HA	1:LQ:76:LYS:O	2.19	0.43
1:IQ:82:PRO:HD2	1:IQ:85:THR:HG21	2.01	0.43
1:JA:80:SER:HB2	1:JB:74:VAL:CG2	2.48	0.43
1:JV:10:ARG:HD2	1:JX:38:LEU:HD11	2.01	0.43
1:KB:21:LEU:HD12	1:KB:30:ASN:OD1	2.17	0.43
1:KD:82:PRO:HD2	1:KD:85:THR:HG21	2.01	0.43
1:KE:99:SER:OG	1:KE:124:GLU:O	2.20	0.43
1:KP:56:ARG:HH21	1:KP:72:PRO:HG3	1.83	0.43
1:LI:21:LEU:HD12	1:LI:30:ASN:OD1	2.18	0.43
1:LO:75:ILE:HG23	1:LP:79:THR:HG22	2.00	0.43
1:MX:56:ARG:HH21	1:MX:72:PRO:HG3	1.83	0.43
1:NK:75:ILE:HG23	1:NL:79:THR:HG22	2.00	0.43
1:AI:57:LYS:HZ3	1:DU:92:GLU:CD	2.23	0.42
1:AL:74:VAL:CG2	1:DX:80:SER:HB2	2.43	0.42
1:BA:82:PRO:HD2	1:BA:85:THR:HG21	2.01	0.42
1:BD:90:ARG:NH2	1:EP:113:TYR:CD1	2.86	0.42
1:BQ:10:ARG:HD2	1:BS:38:LEU:HD11	2.01	0.42
1:BZ:75:ILE:HG23	1:CA:79:THR:HG22	2.00	0.42
1:CD:113:TYR:O	1:CS:26:VAL:HG21	2.19	0.42
1:CK:10:ARG:HH21	1:CP:38:LEU:CD2	2.32	0.42
1:CR:99:SER:OG	1:CR:124:GLU:O	2.20	0.42
1:DJ:80:SER:HB2	1:DK:74:VAL:CG2	2.48	0.42
1:DP:126:LEU:HD23	1:DP:126:LEU:HA	1.85	0.42
1:EH:80:SER:HB2	1:EI:74:VAL:CG2	2.48	0.42
1:EK:75:ILE:HG23	1:EL:79:THR:HG22	2.00	0.42
1:EM:82:PRO:HD2	1:EM:85:THR:HG21	2.01	0.42
1:EP:82:PRO:HD2	1:EP:85:THR:HG21	2.01	0.42
1:FR:10:ARG:HD2	1:FT:38:LEU:HD11	2.01	0.42
1:FS:42:ARG:HB3	1:FS:45:ASN:HB3	2.01	0.42
1:FT:82:PRO:HD2	1:FT:85:THR:HG21	2.01	0.42
1:FX:10:ARG:HD2	1:FZ:38:LEU:HD11	2.01	0.42
1:GE:9:LEU:CG	1:GE:10:ARG:H	2.29	0.42
1:GI:82:PRO:HD2	1:GI:85:THR:HG21	2.01	0.42
1:HC:10:ARG:HH11	1:HZ:38:LEU:HB2	1.84	0.42
1:HF:42:ARG:HB3	1:HF:45:ASN:HB3	2.01	0.42
1:HI:9:LEU:CG	1:HI:10:ARG:H	2.29	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HK:10:ARG:HD2	1:HM:38:LEU:HD11	2.01	0.42
1:IF:10:ARG:HH22	1:IH:15:ASP:HA	1.83	0.42
1:JA:75:ILE:HG23	1:JB:79:THR:HG22	2.00	0.42
1:JG:75:ILE:HG23	1:JH:79:THR:HG22	2.00	0.42
1:JO:82:PRO:HD2	1:JO:85:THR:HG21	2.01	0.42
1:JP:10:ARG:HD2	1:JR:38:LEU:HD11	2.01	0.42
1:JS:10:ARG:HH22	1:JU:15:ASP:HA	1.83	0.42
1:KB:75:ILE:HG23	1:KC:79:THR:HG22	2.00	0.42
1:KK:10:ARG:HH22	1:KM:15:ASP:HA	1.83	0.42
1:KZ:80:SER:HB2	1:LA:74:VAL:CG2	2.48	0.42
1:LB:82:PRO:HD2	1:LB:85:THR:HG21	2.01	0.42
1:LF:10:ARG:HD2	1:LH:38:LEU:HD11	2.01	0.42
1:LF:75:ILE:HG23	1:LG:79:THR:HG22	2.00	0.42
1:LI:75:ILE:HG23	1:LJ:79:THR:HG22	2.00	0.42
1:MA:10:ARG:HD2	1:MC:38:LEU:HD11	2.01	0.42
1:NN:10:ARG:HH22	1:NP:15:ASP:HA	1.83	0.42
1:NT:75:ILE:HG23	1:NU:79:THR:HG22	2.00	0.42
1:NU:42:ARG:HB3	1:NU:45:ASN:HB3	2.01	0.42
1:AA:9:LEU:HA	1:DO:116:TYR:CE1	2.54	0.42
1:AE:113:TYR:O	1:GB:26:VAL:HG21	2.19	0.42
1:AJ:10:ARG:HD2	1:AL:38:LEU:HD11	2.01	0.42
1:AL:57:LYS:HZ3	1:DX:92:GLU:CD	2.23	0.42
1:AX:53:ARG:NH1	1:EJ:104:GLU:OE1	2.34	0.42
1:AZ:42:ARG:HB3	1:AZ:45:ASN:HB3	2.01	0.42
1:BA:80:SER:HB2	1:EM:74:VAL:CG2	2.43	0.42
1:BD:82:PRO:HD2	1:BD:85:THR:HG21	2.01	0.42
1:BG:74:VAL:CG2	1:ES:80:SER:HB2	2.48	0.42
1:BS:56:ARG:HH21	1:BS:72:PRO:HG3	1.83	0.42
1:CK:112:ALA:O	1:FW:49:VAL:HG11	2.19	0.42
1:CO:10:ARG:HD2	1:CQ:38:LEU:HD11	2.01	0.42
1:CU:99:SER:OG	1:CU:124:GLU:O	2.20	0.42
1:DO:82:PRO:HD2	1:DO:85:THR:HG21	2.01	0.42
1:DX:82:PRO:HD2	1:DX:85:THR:HG21	2.01	0.42
1:EQ:10:ARG:HD2	1:ES:38:LEU:HD11	2.01	0.42
1:EW:75:ILE:HG23	1:EX:79:THR:HG22	2.00	0.42
1:FG:9:LEU:CG	1:FG:10:ARG:H	2.29	0.42
1:FU:82:PRO:HD2	1:FU:85:THR:HG21	2.02	0.42
1:GH:42:ARG:HB3	1:GH:45:ASN:HB3	2.01	0.42
1:GM:99:SER:OG	1:GM:124:GLU:O	2.20	0.42
1:GO:90:ARG:HA	1:GO:93:VAL:HG22	2.02	0.42
1:HD:82:PRO:HD2	1:HD:85:THR:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HM:56:ARG:HH21	1:HM:72:PRO:HG3	1.83	0.42
1:HN:10:ARG:HH22	1:HP:15:ASP:HA	1.83	0.42
1:HN:80:SER:HB2	1:HO:74:VAL:CG2	2.48	0.42
1:HQ:80:SER:HB2	1:HR:74:VAL:CG2	2.48	0.42
1:HT:75:ILE:HG23	1:HU:79:THR:HG22	2.00	0.42
1:HY:82:PRO:HD2	1:HY:85:THR:HG21	2.01	0.42
1:IC:10:ARG:HH22	1:IE:15:ASP:HA	1.83	0.42
1:IQ:90:ARG:NH2	1:MC:113:TYR:CG	2.87	0.42
1:IR:10:ARG:HD2	1:IT:38:LEU:HD11	2.01	0.42
1:IU:10:ARG:HD2	1:IW:38:LEU:HD11	2.01	0.42
1:JM:80:SER:HB2	1:JN:74:VAL:CG2	2.48	0.42
1:KA:82:PRO:HD2	1:KA:85:THR:HG21	2.01	0.42
1:KK:10:ARG:HD2	1:KM:38:LEU:HD11	2.01	0.42
1:LG:26:VAL:HG21	1:LM:113:TYR:O	2.19	0.42
1:MM:10:ARG:HD2	1:MO:38:LEU:HD11	2.01	0.42
1:MP:10:ARG:HH22	1:MR:15:ASP:HA	1.83	0.42
1:MR:56:ARG:HH21	1:MR:72:PRO:HG3	1.82	0.42
1:AA:10:ARG:HD2	1:AC:38:LEU:HD11	2.01	0.42
1:AA:126:LEU:HD23	1:AA:126:LEU:HA	1.85	0.42
1:AB:113:TYR:O	1:FY:26:VAL:HG21	2.19	0.42
1:AE:9:LEU:CG	1:AE:10:ARG:H	2.29	0.42
1:AK:42:ARG:HB3	1:AK:45:ASN:HB3	2.01	0.42
1:AM:10:ARG:HH22	1:AO:15:ASP:HA	1.83	0.42
1:AP:82:PRO:HD2	1:AP:85:THR:HG21	2.02	0.42
1:BE:10:ARG:HD2	1:BG:38:LEU:HD11	2.02	0.42
1:BL:42:ARG:HB3	1:BL:45:ASN:HB3	2.01	0.42
1:BM:8:LYS:HB2	1:EY:119:ASP:O	2.19	0.42
1:BR:38:LEU:CD2	1:ED:10:ARG:HH21	2.31	0.42
1:CI:38:LEU:HD22	1:CP:10:ARG:HH11	1.84	0.42
1:CM:9:LEU:CG	1:CM:10:ARG:H	2.29	0.42
1:CT:82:PRO:HD2	1:CT:85:THR:HG21	2.01	0.42
1:CZ:56:ARG:HH21	1:CZ:72:PRO:HG3	1.82	0.42
1:DA:82:PRO:HD2	1:DA:85:THR:HG21	2.02	0.42
1:DM:10:ARG:HH22	1:DO:15:ASP:HA	1.83	0.42
1:DQ:9:LEU:CG	1:DQ:10:ARG:H	2.29	0.42
1:EU:42:ARG:HB3	1:EU:45:ASN:HB3	2.01	0.42
1:EW:82:PRO:HD2	1:EW:85:THR:HG21	2.02	0.42
1:FR:82:PRO:HD2	1:FR:85:THR:HG21	2.02	0.42
1:FX:126:LEU:HD23	1:FX:126:LEU:HA	1.85	0.42
1:GM:82:PRO:HD2	1:GM:85:THR:HG21	2.02	0.42
1:GO:82:PRO:HD2	1:GO:85:THR:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GP:10:ARG:HD2	1:GR:38:LEU:HD11	2.01	0.42
1:GP:126:LEU:HD23	1:GP:126:LEU:HA	1.85	0.42
1:GQ:42:ARG:HB3	1:GQ:45:ASN:HB3	2.01	0.42
1:GY:10:ARG:HH22	1:HA:15:ASP:HA	1.83	0.42
1:HI:42:ARG:HB3	1:HI:45:ASN:HB3	2.01	0.42
1:HS:82:PRO:HD2	1:HS:85:THR:HG21	2.01	0.42
1:HW:126:LEU:HD23	1:HW:126:LEU:HA	1.85	0.42
1:HX:9:LEU:CG	1:HX:10:ARG:H	2.29	0.42
1:IA:42:ARG:HB3	1:IA:45:ASN:HB3	2.01	0.42
1:IH:82:PRO:HD2	1:IH:85:THR:HG21	2.01	0.42
1:IJ:42:ARG:HB3	1:IJ:45:ASN:HB3	2.01	0.42
1:IP:9:LEU:CG	1:IP:10:ARG:H	2.29	0.42
1:IY:42:ARG:HB3	1:IY:45:ASN:HB3	2.01	0.42
1:JK:42:ARG:HB3	1:JK:45:ASN:HB3	2.01	0.42
1:JL:90:ARG:HA	1:JL:93:VAL:HG22	2.02	0.42
1:JR:90:ARG:HA	1:JR:93:VAL:HG22	2.02	0.42
1:KH:10:ARG:HD2	1:KJ:38:LEU:HD11	2.01	0.42
1:KH:10:ARG:HH22	1:KJ:15:ASP:HA	1.83	0.42
1:KI:42:ARG:HB3	1:KI:45:ASN:HB3	2.01	0.42
1:KQ:10:ARG:HD2	1:KS:38:LEU:HD11	2.01	0.42
1:KT:10:ARG:HH22	1:KV:15:ASP:HA	1.83	0.42
1:KW:99:SER:OG	1:KW:124:GLU:O	2.20	0.42
1:KY:90:ARG:HA	1:KY:93:VAL:HG22	2.02	0.42
1:LO:80:SER:HB2	1:LP:74:VAL:CG2	2.48	0.42
1:LS:42:ARG:HB3	1:LS:45:ASN:HB3	2.01	0.42
1:LX:10:ARG:HD2	1:LZ:38:LEU:HD11	2.01	0.42
1:MG:126:LEU:HD23	1:MG:126:LEU:HA	1.85	0.42
1:MU:90:ARG:HA	1:MU:93:VAL:HG22	2.02	0.42
1:MW:42:ARG:HB3	1:MW:45:ASN:HB3	2.01	0.42
1:MZ:9:LEU:CG	1:MZ:10:ARG:H	2.29	0.42
1:NB:82:PRO:HD2	1:NB:85:THR:HG21	2.02	0.42
1:NQ:75:ILE:HG23	1:NR:79:THR:HG22	2.00	0.42
1:NQ:82:PRO:HD2	1:NQ:85:THR:HG21	2.02	0.42
1:AD:10:ARG:HD2	1:AF:38:LEU:HD11	2.01	0.42
1:AJ:75:ILE:HG23	1:AK:79:THR:HG22	2.00	0.42
1:BF:42:ARG:HB3	1:BF:45:ASN:HB3	2.01	0.42
1:BH:75:ILE:HG23	1:BI:79:THR:HG22	2.00	0.42
1:BP:82:PRO:HD2	1:BP:85:THR:HG21	2.01	0.42
1:BU:42:ARG:HB3	1:BU:45:ASN:HB3	2.01	0.42
1:BZ:10:ARG:HH22	1:CB:15:ASP:HA	1.83	0.42
1:CE:82:PRO:HD2	1:CE:85:THR:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CL:82:PRO:HD2	1:CL:85:THR:HG21	2.02	0.42
1:CN:82:PRO:HD2	1:CN:85:THR:HG21	2.01	0.42
1:CR:82:PRO:HD2	1:CR:85:THR:HG21	2.01	0.42
1:CX:10:ARG:HH22	1:CZ:15:ASP:HA	1.83	0.42
1:CX:126:LEU:HD23	1:CX:126:LEU:HA	1.85	0.42
1:DL:82:PRO:HD2	1:DL:85:THR:HG21	2.01	0.42
1:DW:42:ARG:HB3	1:DW:45:ASN:HB3	2.01	0.42
1:DY:114:SER:HA	1:FZ:26:VAL:HG21	2.01	0.42
1:EE:75:ILE:HG23	1:EF:79:THR:HG22	2.00	0.42
1:EH:82:PRO:HD2	1:EH:85:THR:HG21	2.02	0.42
1:EK:82:PRO:HD2	1:EK:85:THR:HG21	2.02	0.42
1:FE:82:PRO:HD2	1:FE:85:THR:HG21	2.01	0.42
1:FE:90:ARG:HA	1:FE:93:VAL:HG22	2.02	0.42
1:FJ:9:LEU:CG	1:FJ:10:ARG:H	2.29	0.42
1:FT:90:ARG:HA	1:FT:93:VAL:HG22	2.02	0.42
1:FU:10:ARG:HD2	1:FW:38:LEU:HD11	2.01	0.42
1:FY:42:ARG:HB3	1:FY:45:ASN:HB3	2.01	0.42
1:GA:82:PRO:HD2	1:GA:85:THR:HG21	2.02	0.42
1:GC:90:ARG:HA	1:GC:93:VAL:HG22	2.02	0.42
1:GU:90:ARG:HA	1:GU:93:VAL:HG22	2.02	0.42
1:HH:80:SER:HB2	1:HI:74:VAL:CG2	2.48	0.42
1:HM:119:ASP:O	1:KY:8:LYS:HB2	2.19	0.42
1:HP:82:PRO:HD2	1:HP:85:THR:HG21	2.01	0.42
1:HZ:10:ARG:HD2	1:IB:38:LEU:HD11	2.01	0.42
1:IC:75:ILE:HG23	1:ID:79:THR:HG22	2.00	0.42
1:IO:10:ARG:HD2	1:IQ:38:LEU:HD11	2.01	0.42
1:IT:113:TYR:CG	1:MF:90:ARG:NH2	2.87	0.42
1:IU:82:PRO:HD2	1:IU:85:THR:HG21	2.02	0.42
1:JA:82:PRO:HD2	1:JA:85:THR:HG21	2.02	0.42
1:JD:82:PRO:HD2	1:JD:85:THR:HG21	2.02	0.42
1:JG:10:ARG:HD2	1:JI:38:LEU:HD11	2.01	0.42
1:JL:82:PRO:HD2	1:JL:85:THR:HG21	2.01	0.42
1:JM:10:ARG:HH22	1:JO:15:ASP:HA	1.83	0.42
1:JX:82:PRO:HD2	1:JX:85:THR:HG21	2.01	0.42
1:KA:49:VAL:HG11	1:NM:112:ALA:O	2.19	0.42
1:KA:90:ARG:HA	1:KA:93:VAL:HG22	2.02	0.42
1:KB:10:ARG:HD2	1:KD:38:LEU:HD11	2.01	0.42
1:KB:126:LEU:HD23	1:KB:126:LEU:HA	1.85	0.42
1:KK:82:PRO:HD2	1:KK:85:THR:HG21	2.02	0.42
1:KN:10:ARG:HH22	1:KP:15:ASP:HA	1.83	0.42
1:KQ:82:PRO:HD2	1:KQ:85:THR:HG21	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KT:10:ARG:HD2	1:KV:38:LEU:HD11	2.01	0.42
1:LK:82:PRO:HD2	1:LK:85:THR:HG21	2.01	0.42
1:LZ:82:PRO:HD2	1:LZ:85:THR:HG21	2.01	0.42
1:NK:10:ARG:HD2	1:NM:38:LEU:HD11	2.01	0.42
1:AA:82:PRO:HD2	1:AA:85:THR:HG21	2.02	0.42
1:AF:90:ARG:HA	1:AF:93:VAL:HG22	2.02	0.42
1:AO:90:ARG:HA	1:AO:93:VAL:HG22	2.02	0.42
1:AV:10:ARG:HD2	1:AX:38:LEU:HD11	2.01	0.42
1:BB:113:TYR:O	1:BS:26:VAL:HG21	2.20	0.42
1:BC:42:ARG:HB3	1:BC:45:ASN:HB3	2.01	0.42
1:BE:80:SER:HB2	1:BF:74:VAL:CG2	2.48	0.42
1:BN:10:ARG:HD2	1:BP:38:LEU:HD11	2.01	0.42
1:BP:90:ARG:HA	1:BP:93:VAL:HG22	2.02	0.42
1:BY:90:ARG:HA	1:BY:93:VAL:HG22	2.02	0.42
1:CB:77:THR:HA	1:FN:76:LYS:O	2.20	0.42
1:CD:10:ARG:NH2	1:GJ:15:ASP:OD1	2.52	0.42
1:CF:80:SER:HB2	1:CG:74:VAL:CG2	2.48	0.42
1:CH:92:GLU:CD	1:FT:57:LYS:HZ3	2.23	0.42
1:CK:129:THR:O	1:FW:106:LYS:NZ	2.52	0.42
1:CM:42:ARG:HB3	1:CM:45:ASN:HB3	2.01	0.42
1:CN:56:ARG:HH21	1:CN:72:PRO:HG3	1.83	0.42
1:CT:90:ARG:HA	1:CT:93:VAL:HG22	2.02	0.42
1:CX:10:ARG:HD2	1:CZ:38:LEU:HD11	2.01	0.42
1:EB:82:PRO:HD2	1:EB:85:THR:HG21	2.02	0.42
1:EU:10:ARG:HH11	1:FF:38:LEU:HB2	1.84	0.42
1:EV:90:ARG:HA	1:EV:93:VAL:HG22	2.02	0.42
1:EY:82:PRO:HD2	1:EY:85:THR:HG21	2.01	0.42
1:FA:42:ARG:HB3	1:FA:45:ASN:HB3	2.01	0.42
1:FM:9:LEU:CG	1:FM:10:ARG:H	2.29	0.42
1:FN:90:ARG:HA	1:FN:93:VAL:HG22	2.02	0.42
1:FQ:82:PRO:HD2	1:FQ:85:THR:HG21	2.01	0.42
1:GB:42:ARG:HB3	1:GB:45:ASN:HB3	2.01	0.42
1:GL:90:ARG:HA	1:GL:93:VAL:HG22	2.02	0.42
1:GX:8:LYS:HA	1:GX:19:PHE:CD1	2.55	0.42
1:GY:82:PRO:HD2	1:GY:85:THR:HG21	2.02	0.42
1:HD:8:LYS:HA	1:HD:19:PHE:CD1	2.55	0.42
1:HJ:129:THR:C	1:KV:106:LYS:HZ2	2.22	0.42
1:IN:90:ARG:HA	1:IN:93:VAL:HG22	2.02	0.42
1:IQ:90:ARG:NH2	1:MC:113:TYR:CD1	2.87	0.42
1:JF:82:PRO:HD2	1:JF:85:THR:HG21	2.01	0.42
1:JP:82:PRO:HD2	1:JP:85:THR:HG21	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JV:82:PRO:HD2	1:JV:85:THR:HG21	2.02	0.42
1:KR:42:ARG:HB3	1:KR:45:ASN:HB3	2.01	0.42
1:KY:82:PRO:HD2	1:KY:85:THR:HG21	2.01	0.42
1:LL:82:PRO:HD2	1:LL:85:THR:HG21	2.02	0.42
1:MD:82:PRO:HD2	1:MD:85:THR:HG21	2.02	0.42
1:MH:9:LEU:CG	1:MH:10:ARG:H	2.29	0.42
1:MO:90:ARG:HA	1:MO:93:VAL:HG22	2.02	0.42
1:MV:82:PRO:HD2	1:MV:85:THR:HG21	2.02	0.42
1:MX:82:PRO:HD2	1:MX:85:THR:HG21	2.01	0.42
1:NF:42:ARG:HB3	1:NF:45:ASN:HB3	2.01	0.42
1:NJ:90:ARG:HA	1:NJ:93:VAL:HG22	2.02	0.42
1:AG:10:ARG:HH22	1:AI:15:ASP:HA	1.83	0.42
1:AT:42:ARG:HB3	1:AT:45:ASN:HB3	2.01	0.42
1:BH:82:PRO:HD2	1:BH:85:THR:HG21	2.02	0.42
1:BT:82:PRO:HD2	1:BT:85:THR:HG21	2.02	0.42
1:CK:53:ARG:NH1	1:FW:104:GLU:OE1	2.38	0.42
1:CK:90:ARG:HA	1:CK:93:VAL:HG22	2.02	0.42
1:CO:82:PRO:HD2	1:CO:85:THR:HG21	2.02	0.42
1:CR:7:PHE:HD1	1:CS:120:LYS:HD3	1.85	0.42
1:DC:8:LYS:HA	1:DC:19:PHE:CD1	2.55	0.42
1:DD:82:PRO:HD2	1:DD:85:THR:HG21	2.02	0.42
1:DV:75:ILE:HG23	1:DW:79:THR:HG22	2.00	0.42
1:EH:10:ARG:HD2	1:EJ:38:LEU:HD11	2.01	0.42
1:EJ:82:PRO:HD2	1:EJ:85:THR:HG21	2.01	0.42
1:EK:10:ARG:HD2	1:EM:38:LEU:HD11	2.01	0.42
1:ES:8:LYS:HA	1:ES:19:PHE:CD1	2.55	0.42
1:FF:82:PRO:HD2	1:FF:85:THR:HG21	2.02	0.42
1:FO:82:PRO:HD2	1:FO:85:THR:HG21	2.02	0.42
1:FT:8:LYS:HA	1:FT:19:PHE:CD1	2.55	0.42
1:FU:126:LEU:HD23	1:FU:126:LEU:HA	1.85	0.42
1:GA:10:ARG:HD2	1:GC:38:LEU:HD11	2.01	0.42
1:GD:99:SER:OG	1:GD:124:GLU:O	2.20	0.42
1:GN:35:VAL:HG22	1:GN:52:MET:HB2	2.02	0.42
1:GN:42:ARG:HB3	1:GN:45:ASN:HB3	2.01	0.42
1:GP:82:PRO:HD2	1:GP:85:THR:HG21	2.02	0.42
1:GR:82:PRO:HD2	1:GR:85:THR:HG21	2.01	0.42
1:HC:35:VAL:HG22	1:HC:52:MET:HB2	2.02	0.42
1:HC:42:ARG:HB3	1:HC:45:ASN:HB3	2.01	0.42
1:HL:9:LEU:CG	1:HL:10:ARG:H	2.29	0.42
1:ID:35:VAL:HG22	1:ID:52:MET:HB2	2.02	0.42
1:IE:8:LYS:HA	1:IE:19:PHE:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IK:82:PRO:HD2	1:IK:85:THR:HG21	2.01	0.42
1:IL:82:PRO:HD2	1:IL:85:THR:HG21	2.02	0.42
1:IN:8:LYS:HA	1:IN:19:PHE:CD1	2.55	0.42
1:IN:106:LYS:NZ	1:LZ:129:THR:O	2.52	0.42
1:IT:8:LYS:HA	1:IT:19:PHE:CD1	2.55	0.42
1:IW:82:PRO:HD2	1:IW:85:THR:HG21	2.01	0.42
1:JC:8:LYS:HA	1:JC:19:PHE:CD1	2.55	0.42
1:JC:10:ARG:NH1	1:JQ:15:ASP:OD1	2.52	0.42
1:JF:123:ILE:O	1:MR:3:PRO:HA	2.20	0.42
1:JK:39:PRO:CD	1:JK:49:VAL:HG12	2.47	0.42
1:JO:8:LYS:HA	1:JO:19:PHE:CD1	2.55	0.42
1:JP:75:ILE:HG23	1:JQ:79:THR:HG22	2.00	0.42
1:KD:90:ARG:HA	1:KD:93:VAL:HG22	2.02	0.42
1:KO:35:VAL:HG22	1:KO:52:MET:HB2	2.02	0.42
1:KW:80:SER:HB2	1:KX:74:VAL:CG2	2.48	0.42
1:KY:8:LYS:HA	1:KY:19:PHE:CD1	2.55	0.42
1:LU:82:PRO:HD2	1:LU:85:THR:HG21	2.02	0.42
1:MD:10:ARG:HD2	1:MF:38:LEU:HD11	2.01	0.42
1:MG:10:ARG:HD2	1:MI:38:LEU:HD11	2.01	0.42
1:MH:35:VAL:HG22	1:MH:52:MET:HB2	2.02	0.42
1:ML:90:ARG:HA	1:ML:93:VAL:HG22	2.02	0.42
1:MR:90:ARG:HA	1:MR:93:VAL:HG22	2.02	0.42
1:MS:7:PHE:HD1	1:MT:120:LYS:HD3	1.85	0.42
1:MT:42:ARG:HB3	1:MT:45:ASN:HB3	2.01	0.42
1:MX:8:LYS:HA	1:MX:19:PHE:CD1	2.55	0.42
1:ND:82:PRO:HD2	1:ND:85:THR:HG21	2.01	0.42
1:NQ:10:ARG:HD2	1:NS:38:LEU:HD11	2.01	0.42
1:AD:83:VAL:CG1	1:GB:27:THR:HA	2.49	0.42
1:AE:35:VAL:HG22	1:AE:52:MET:HB2	2.02	0.42
1:AG:82:PRO:HD2	1:AG:85:THR:HG21	2.02	0.42
1:AH:9:LEU:CG	1:AH:10:ARG:H	2.29	0.42
1:AI:90:ARG:HA	1:AI:93:VAL:HG22	2.02	0.42
1:AI:116:TYR:CE1	1:DS:9:LEU:HA	2.55	0.42
1:AK:35:VAL:HG22	1:AK:52:MET:HB2	2.02	0.42
1:AL:90:ARG:HA	1:AL:93:VAL:HG22	2.02	0.42
1:AR:10:ARG:NH1	1:FV:15:ASP:OD1	2.53	0.42
1:AR:90:ARG:HA	1:AR:93:VAL:HG22	2.02	0.42
1:AS:7:PHE:HD1	1:AT:120:LYS:HD3	1.85	0.42
1:AV:82:PRO:HD2	1:AV:85:THR:HG21	2.02	0.42
1:AV:114:SER:HA	1:EG:26:VAL:CG2	2.49	0.42
1:BH:80:SER:HB2	1:BI:74:VAL:CG2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BM:8:LYS:HA	1:BM:19:PHE:CD1	2.55	0.42
1:BP:105:VAL:HG22	1:FB:94:LEU:HD13	2.01	0.42
1:BR:35:VAL:HG22	1:BR:52:MET:HB2	2.02	0.42
1:BW:7:PHE:HD1	1:BX:120:LYS:HD3	1.85	0.42
1:BZ:7:PHE:HD1	1:CA:120:LYS:HD3	1.85	0.42
1:CC:7:PHE:HD1	1:CD:120:LYS:HD3	1.85	0.42
1:CI:82:PRO:HD2	1:CI:85:THR:HG21	2.02	0.42
1:CN:90:ARG:HA	1:CN:93:VAL:HG22	2.02	0.42
1:CQ:8:LYS:HA	1:CQ:19:PHE:CD1	2.55	0.42
1:CS:35:VAL:HG22	1:CS:52:MET:HB2	2.02	0.42
1:CW:8:LYS:HA	1:CW:19:PHE:CD1	2.55	0.42
1:DB:42:ARG:HB3	1:DB:45:ASN:HB3	2.01	0.42
1:DL:90:ARG:HA	1:DL:93:VAL:HG22	2.02	0.42
1:DL:106:LYS:NZ	1:GX:129:THR:O	2.52	0.42
1:DM:7:PHE:HD1	1:DN:120:LYS:HD3	1.85	0.42
1:DS:7:PHE:HD1	1:DT:120:LYS:HD3	1.85	0.42
1:DV:82:PRO:HD2	1:DV:85:THR:HG21	2.02	0.42
1:DZ:35:VAL:HG22	1:DZ:52:MET:HB2	2.02	0.42
1:EB:7:PHE:HD1	1:EC:120:LYS:HD3	1.85	0.42
1:ED:8:LYS:HA	1:ED:19:PHE:CD1	2.55	0.42
1:EE:82:PRO:HD2	1:EE:85:THR:HG21	2.02	0.42
1:EG:8:LYS:HA	1:EG:19:PHE:CD1	2.55	0.42
1:EJ:90:ARG:HA	1:EJ:93:VAL:HG22	2.02	0.42
1:EL:35:VAL:HG22	1:EL:52:MET:HB2	2.02	0.42
1:EM:90:ARG:HA	1:EM:93:VAL:HG22	2.02	0.42
1:EP:90:ARG:HA	1:EP:93:VAL:HG22	2.02	0.42
1:ET:82:PRO:HD2	1:ET:85:THR:HG21	2.02	0.42
1:FA:35:VAL:HG22	1:FA:52:MET:HB2	2.02	0.42
1:FF:80:SER:HB2	1:FG:74:VAL:CG2	2.48	0.42
1:FH:90:ARG:HA	1:FH:93:VAL:HG22	2.02	0.42
1:FJ:39:PRO:CD	1:FJ:49:VAL:HG12	2.47	0.42
1:FN:8:LYS:HA	1:FN:19:PHE:CD1	2.55	0.42
1:FW:8:LYS:HA	1:FW:19:PHE:CD1	2.55	0.42
1:FX:7:PHE:HD1	1:FY:120:LYS:HD3	1.85	0.42
1:FZ:8:LYS:HA	1:FZ:19:PHE:CD1	2.55	0.42
1:GN:9:LEU:CG	1:GN:10:ARG:H	2.29	0.42
1:GU:82:PRO:HD2	1:GU:85:THR:HG21	2.01	0.42
1:HD:92:GLU:OE2	1:KP:57:LYS:NZ	2.49	0.42
1:HE:10:ARG:HD2	1:HG:38:LEU:HD11	2.01	0.42
1:HE:126:LEU:HD23	1:HE:126:LEU:HA	1.85	0.42
1:HG:82:PRO:HD2	1:HG:85:THR:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HG:90:ARG:HA	1:HG:93:VAL:HG22	2.02	0.42
1:HS:8:LYS:HA	1:HS:19:PHE:CD1	2.55	0.42
1:HV:8:LYS:HA	1:HV:19:PHE:CD1	2.55	0.42
1:IB:82:PRO:HD2	1:IB:85:THR:HG21	2.01	0.42
1:IE:82:PRO:HD2	1:IE:85:THR:HG21	2.01	0.42
1:IJ:26:VAL:HG21	1:KU:113:TYR:O	2.20	0.42
1:JB:9:LEU:CG	1:JB:10:ARG:H	2.29	0.42
1:JB:35:VAL:HG22	1:JB:52:MET:HB2	2.02	0.42
1:JF:8:LYS:HA	1:JF:19:PHE:CD1	2.55	0.42
1:JG:7:PHE:HD1	1:JH:120:LYS:HD3	1.85	0.42
1:JL:8:LYS:HA	1:JL:19:PHE:CD1	2.55	0.42
1:JM:7:PHE:HD1	1:JN:120:LYS:HD3	1.85	0.42
1:JP:7:PHE:HD1	1:JQ:120:LYS:HD3	1.85	0.42
1:JY:10:ARG:HD2	1:KA:38:LEU:HD11	2.01	0.42
1:KE:7:PHE:HD1	1:KF:120:LYS:HD3	1.85	0.42
1:KE:10:ARG:HD2	1:KG:38:LEU:HD11	2.01	0.42
1:KJ:125:ASP:HB2	1:NV:4:ILE:HG12	2.00	0.42
1:KR:35:VAL:HG22	1:KR:52:MET:HB2	2.02	0.42
1:KT:80:SER:HB2	1:KU:74:VAL:CG2	2.48	0.42
1:KU:42:ARG:HB3	1:KU:45:ASN:HB3	2.01	0.42
1:LC:10:ARG:HD2	1:LE:38:LEU:HD11	2.01	0.42
1:LE:82:PRO:HD2	1:LE:85:THR:HG21	2.01	0.42
1:LL:10:ARG:HD2	1:LN:38:LEU:HD11	2.01	0.42
1:LM:42:ARG:HB3	1:LM:45:ASN:HB3	2.01	0.42
1:LQ:90:ARG:HA	1:LQ:93:VAL:HG22	2.02	0.42
1:LT:8:LYS:HA	1:LT:19:PHE:CD1	2.55	0.42
1:LY:42:ARG:HB3	1:LY:45:ASN:HB3	2.01	0.42
1:LZ:8:LYS:HA	1:LZ:19:PHE:CD1	2.55	0.42
1:ME:42:ARG:HB3	1:ME:45:ASN:HB3	2.01	0.42
1:MF:82:PRO:HD2	1:MF:85:THR:HG21	2.01	0.42
1:MY:82:PRO:HD2	1:MY:85:THR:HG21	2.02	0.42
1:NS:8:LYS:HA	1:NS:19:PHE:CD1	2.55	0.42
1:AD:82:PRO:HD2	1:AD:85:THR:HG21	2.02	0.42
1:AI:8:LYS:HA	1:AI:19:PHE:CD1	2.55	0.42
1:AM:7:PHE:HD1	1:AN:120:LYS:HD3	1.85	0.42
1:AM:10:ARG:HD2	1:AO:38:LEU:HD11	2.01	0.42
1:AN:35:VAL:HG22	1:AN:52:MET:HB2	2.02	0.42
1:AP:7:PHE:HD1	1:AQ:120:LYS:HD3	1.85	0.42
1:AU:90:ARG:HA	1:AU:93:VAL:HG22	2.02	0.42
1:AV:10:ARG:HH22	1:AX:15:ASP:HA	1.83	0.42
1:AY:7:PHE:HD1	1:AZ:120:LYS:HD3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:112:ALA:O	1:EP:49:VAL:HG11	2.20	0.42
1:BI:35:VAL:HG22	1:BI:52:MET:HB2	2.02	0.42
1:BN:7:PHE:HD1	1:BO:120:LYS:HD3	1.85	0.42
1:BT:126:LEU:HD23	1:BT:126:LEU:HA	1.85	0.42
1:BY:82:PRO:HD2	1:BY:85:THR:HG21	2.01	0.42
1:CG:42:ARG:HB3	1:CG:45:ASN:HB3	2.01	0.42
1:CW:59:ILE:HD12	1:GI:89:ASP:OD2	2.20	0.42
1:CX:7:PHE:HD1	1:CY:120:LYS:HD3	1.85	0.42
1:DD:80:SER:HB2	1:DE:74:VAL:CG2	2.48	0.42
1:DF:90:ARG:HA	1:DF:93:VAL:HG22	2.02	0.42
1:DG:82:PRO:HD2	1:DG:85:THR:HG21	2.02	0.42
1:DJ:82:PRO:HD2	1:DJ:85:THR:HG21	2.02	0.42
1:DQ:35:VAL:HG22	1:DQ:52:MET:HB2	2.02	0.42
1:EA:8:LYS:HA	1:EA:19:PHE:CD1	2.55	0.42
1:ED:82:PRO:HD2	1:ED:85:THR:HG21	2.01	0.42
1:EL:42:ARG:HB3	1:EL:45:ASN:HB3	2.01	0.42
1:ES:90:ARG:HA	1:ES:93:VAL:HG22	2.02	0.42
1:ET:80:SER:HB2	1:EU:74:VAL:CG2	2.48	0.42
1:EW:7:PHE:HD1	1:EX:120:LYS:HD3	1.85	0.42
1:FC:7:PHE:HD1	1:FD:120:LYS:HD3	1.85	0.42
1:FL:82:PRO:HD2	1:FL:85:THR:HG21	2.02	0.42
1:FP:35:VAL:HG22	1:FP:52:MET:HB2	2.02	0.42
1:GI:90:ARG:HA	1:GI:93:VAL:HG22	2.02	0.42
1:GJ:10:ARG:HD2	1:GL:38:LEU:HD11	2.01	0.42
1:GS:10:ARG:HD2	1:GU:38:LEU:HD11	2.01	0.42
1:GV:75:ILE:HG23	1:GW:79:THR:HG22	2.00	0.42
1:GW:42:ARG:HB3	1:GW:45:ASN:HB3	2.01	0.42
1:HB:10:ARG:HD2	1:HD:38:LEU:HD11	2.01	0.42
1:HD:90:ARG:HA	1:HD:93:VAL:HG22	2.02	0.42
1:HH:10:ARG:HH22	1:HJ:15:ASP:HA	1.83	0.42
1:HK:7:PHE:HD1	1:HL:120:LYS:HD3	1.85	0.42
1:HP:8:LYS:HA	1:HP:19:PHE:CD1	2.55	0.42
1:HP:90:ARG:HA	1:HP:93:VAL:HG22	2.02	0.42
1:HR:35:VAL:HG22	1:HR:52:MET:HB2	2.02	0.42
1:HU:35:VAL:HG22	1:HU:52:MET:HB2	2.02	0.42
1:HU:42:ARG:HB3	1:HU:45:ASN:HB3	2.01	0.42
1:HW:10:ARG:HD2	1:HY:38:LEU:HD11	2.01	0.42
1:HW:82:PRO:HD2	1:HW:85:THR:HG21	2.02	0.42
1:HY:8:LYS:HA	1:HY:19:PHE:CD1	2.55	0.42
1:IB:90:ARG:HA	1:IB:93:VAL:HG22	2.02	0.42
1:IE:90:ARG:HA	1:IE:93:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IH:8:LYS:HA	1:IH:19:PHE:CD1	2.55	0.42
1:II:10:ARG:HD2	1:IK:38:LEU:HD11	2.01	0.42
1:IP:26:VAL:HG21	1:LA:113:TYR:O	2.20	0.42
1:IU:80:SER:HB2	1:IV:74:VAL:CG2	2.48	0.42
1:IW:8:LYS:HA	1:IW:19:PHE:CD1	2.55	0.42
1:IX:7:PHE:HD1	1:IY:120:LYS:HD3	1.85	0.42
1:IZ:49:VAL:HG11	1:ML:112:ALA:O	2.20	0.42
1:JA:7:PHE:HD1	1:JB:120:LYS:HD3	1.85	0.42
1:JA:126:LEU:HD23	1:JA:126:LEU:HA	1.85	0.42
1:JD:7:PHE:HD1	1:JE:120:LYS:HD3	1.85	0.42
1:JG:82:PRO:HD2	1:JG:85:THR:HG21	2.02	0.42
1:JI:8:LYS:HA	1:JI:19:PHE:CD1	2.55	0.42
1:JI:90:ARG:HA	1:JI:93:VAL:HG22	2.02	0.42
1:JM:82:PRO:HD2	1:JM:85:THR:HG21	2.02	0.42
1:JP:42:ARG:HB3	1:JP:45:ASN:HB3	2.02	0.42
1:JU:82:PRO:HD2	1:JU:85:THR:HG21	2.01	0.42
1:JY:42:ARG:HB3	1:JY:45:ASN:HB3	2.02	0.42
1:JY:82:PRO:HD2	1:JY:85:THR:HG21	2.02	0.42
1:JZ:9:LEU:CG	1:JZ:10:ARG:H	2.29	0.42
1:KJ:90:ARG:HA	1:KJ:93:VAL:HG22	2.02	0.42
1:KK:7:PHE:HD1	1:KL:120:LYS:HD3	1.85	0.42
1:KN:10:ARG:HD2	1:KP:38:LEU:HD11	2.01	0.42
1:KW:42:ARG:HB3	1:KW:45:ASN:HB3	2.02	0.42
1:LC:82:PRO:HD2	1:LC:85:THR:HG21	2.02	0.42
1:LE:8:LYS:HA	1:LE:19:PHE:CD1	2.55	0.42
1:LH:90:ARG:HA	1:LH:93:VAL:HG22	2.02	0.42
1:LI:80:SER:HB2	1:LJ:74:VAL:CG2	2.48	0.42
1:LI:82:PRO:HD2	1:LI:85:THR:HG21	2.02	0.42
1:LR:42:ARG:HB3	1:LR:45:ASN:HB3	2.02	0.42
1:LR:99:SER:OG	1:LR:124:GLU:O	2.20	0.42
1:LU:42:ARG:HB3	1:LU:45:ASN:HB3	2.02	0.42
1:LV:35:VAL:HG22	1:LV:52:MET:HB2	2.02	0.42
1:MJ:7:PHE:HD1	1:MK:120:LYS:HD3	1.85	0.42
1:MO:8:LYS:HA	1:MO:19:PHE:CD1	2.55	0.42
1:MV:75:ILE:HG23	1:MW:79:THR:HG22	2.00	0.42
1:MY:7:PHE:HD1	1:MZ:120:LYS:HD3	1.85	0.42
1:NA:8:LYS:HA	1:NA:19:PHE:CD1	2.55	0.42
1:NE:7:PHE:HD1	1:NF:120:LYS:HD3	1.85	0.42
1:NG:82:PRO:HD2	1:NG:85:THR:HG21	2.01	0.42
1:NH:42:ARG:HB3	1:NH:45:ASN:HB3	2.02	0.42
1:NP:82:PRO:HD2	1:NP:85:THR:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NV:90:ARG:HA	1:NV:93:VAL:HG22	2.02	0.42
1:AC:8:LYS:HA	1:AC:19:PHE:CD1	2.55	0.42
1:AC:73:ILE:HG23	1:DO:81:PHE:CD1	2.54	0.42
1:AE:42:ARG:HB3	1:AE:45:ASN:HB3	2.01	0.42
1:AG:7:PHE:HD1	1:AH:120:LYS:HD3	1.85	0.42
1:AJ:7:PHE:HD1	1:AK:120:LYS:HD3	1.85	0.42
1:AN:9:LEU:CG	1:AN:10:ARG:H	2.29	0.42
1:AV:7:PHE:HD1	1:AW:120:LYS:HD3	1.85	0.42
1:AY:38:LEU:HD22	1:EX:10:ARG:HH11	1.84	0.42
1:BJ:8:LYS:HA	1:BJ:19:PHE:CD1	2.55	0.42
1:BT:7:PHE:HD1	1:BU:120:LYS:HD3	1.85	0.42
1:BT:42:ARG:HB3	1:BT:45:ASN:HB3	2.02	0.42
1:BW:82:PRO:HD2	1:BW:85:THR:HG21	2.02	0.42
1:BY:106:LYS:NZ	1:FK:129:THR:O	2.53	0.42
1:BZ:126:LEU:HD23	1:BZ:126:LEU:HA	1.85	0.42
1:CA:35:VAL:HG22	1:CA:52:MET:HB2	2.02	0.42
1:CB:96:GLN:OE1	1:FN:21:LEU:HD13	2.20	0.42
1:CC:10:ARG:HH22	1:CE:15:ASP:HA	1.83	0.42
1:CC:82:PRO:HD2	1:CC:85:THR:HG21	2.02	0.42
1:CD:9:LEU:CG	1:CD:10:ARG:H	2.29	0.42
1:CJ:42:ARG:HB3	1:CJ:45:ASN:HB3	2.01	0.42
1:CP:42:ARG:HB3	1:CP:45:ASN:HB3	2.01	0.42
1:CT:8:LYS:HB2	1:GF:119:ASP:O	2.20	0.42
1:CW:82:PRO:HD2	1:CW:85:THR:HG21	2.01	0.42
1:CX:42:ARG:HB3	1:CX:45:ASN:HB3	2.02	0.42
1:DG:42:ARG:HB3	1:DG:45:ASN:HB3	2.02	0.42
1:DK:42:ARG:HB3	1:DK:45:ASN:HB3	2.01	0.42
1:DU:8:LYS:HA	1:DU:19:PHE:CD1	2.55	0.42
1:DV:126:LEU:HD23	1:DV:126:LEU:HA	1.85	0.42
1:EE:10:ARG:HD2	1:EG:38:LEU:HD11	2.01	0.42
1:EH:42:ARG:HB3	1:EH:45:ASN:HB3	2.02	0.42
1:EM:8:LYS:HA	1:EM:19:PHE:CD1	2.55	0.42
1:ET:10:ARG:HD2	1:EV:38:LEU:HD11	2.01	0.42
1:EW:42:ARG:HB3	1:EW:45:ASN:HB3	2.02	0.42
1:FB:8:LYS:HA	1:FB:19:PHE:CD1	2.55	0.42
1:FP:42:ARG:HB3	1:FP:45:ASN:HB3	2.01	0.42
1:FW:82:PRO:HD2	1:FW:85:THR:HG21	2.01	0.42
1:FW:90:ARG:HA	1:FW:93:VAL:HG22	2.02	0.42
1:FZ:82:PRO:HD2	1:FZ:85:THR:HG21	2.01	0.42
1:GA:7:PHE:HD1	1:GB:120:LYS:HD3	1.85	0.42
1:GC:8:LYS:HA	1:GC:19:PHE:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GD:82:PRO:HD2	1:GD:85:THR:HG21	2.02	0.42
1:GG:80:SER:HB2	1:GH:74:VAL:CG2	2.48	0.42
1:GS:42:ARG:HB3	1:GS:45:ASN:HB3	2.02	0.42
1:GV:7:PHE:HD1	1:GW:120:LYS:HD3	1.85	0.42
1:GX:82:PRO:HD2	1:GX:85:THR:HG21	2.01	0.42
1:GZ:35:VAL:HG22	1:GZ:52:MET:HB2	2.02	0.42
1:HB:42:ARG:HB3	1:HB:45:ASN:HB3	2.02	0.42
1:HE:83:VAL:CG1	1:NC:27:THR:HG22	2.50	0.42
1:HG:8:LYS:HA	1:HG:19:PHE:CD1	2.55	0.42
1:HJ:90:ARG:HA	1:HJ:93:VAL:HG22	2.02	0.42
1:HQ:82:PRO:HD2	1:HQ:85:THR:HG21	2.02	0.42
1:HV:82:PRO:HD2	1:HV:85:THR:HG21	2.01	0.42
1:HX:42:ARG:HB3	1:HX:45:ASN:HB3	2.01	0.42
1:II:7:PHE:HD1	1:IJ:120:LYS:HD3	1.85	0.42
1:II:82:PRO:HD2	1:II:85:THR:HG21	2.02	0.42
1:IQ:8:LYS:HA	1:IQ:19:PHE:CD1	2.55	0.42
1:IQ:90:ARG:HA	1:IQ:93:VAL:HG22	2.02	0.42
1:IS:35:VAL:HG22	1:IS:52:MET:HB2	2.02	0.42
1:JA:10:ARG:HD2	1:JC:38:LEU:HD11	2.01	0.42
1:JB:15:ASP:OD1	1:NJ:10:ARG:NH1	2.53	0.42
1:JB:42:ARG:HB3	1:JB:45:ASN:HB3	2.01	0.42
1:JC:8:LYS:HB2	1:MO:119:ASP:O	2.20	0.42
1:JC:82:PRO:HD2	1:JC:85:THR:HG21	2.01	0.42
1:KD:119:ASP:O	1:NP:8:LYS:HB2	2.19	0.42
1:KW:82:PRO:HD2	1:KW:85:THR:HG21	2.02	0.42
1:LB:90:ARG:HA	1:LB:93:VAL:HG22	2.02	0.42
1:LF:7:PHE:HD1	1:LG:120:LYS:HD3	1.85	0.42
1:LF:80:SER:HB2	1:LG:74:VAL:CG2	2.48	0.42
1:LH:8:LYS:HA	1:LH:19:PHE:CD1	2.55	0.42
1:LJ:35:VAL:HG22	1:LJ:52:MET:HB2	2.02	0.42
1:MF:8:LYS:HA	1:MF:19:PHE:CD1	2.55	0.42
1:MI:90:ARG:HA	1:MI:93:VAL:HG22	2.02	0.42
1:ML:8:LYS:HA	1:ML:19:PHE:CD1	2.55	0.42
1:MQ:35:VAL:HG22	1:MQ:52:MET:HB2	2.02	0.42
1:MR:82:PRO:HD2	1:MR:85:THR:HG21	2.01	0.42
1:NI:35:VAL:HG22	1:NI:52:MET:HB2	2.02	0.42
1:NJ:8:LYS:HA	1:NJ:19:PHE:CD1	2.55	0.42
1:NT:7:PHE:HD1	1:NU:120:LYS:HD3	1.85	0.42
1:AD:42:ARG:HB3	1:AD:45:ASN:HB3	2.02	0.42
1:AG:42:ARG:HB3	1:AG:45:ASN:HB3	2.02	0.42
1:AP:10:ARG:HH22	1:AR:15:ASP:HA	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:82:PRO:HD2	1:AR:85:THR:HG21	2.01	0.42
1:BB:42:ARG:HB3	1:BB:45:ASN:HB3	2.02	0.42
1:BC:10:ARG:HH11	1:BQ:38:LEU:HB2	1.85	0.42
1:BC:35:VAL:HG22	1:BC:52:MET:HB2	2.02	0.42
1:BE:7:PHE:HD1	1:BF:120:LYS:HD3	1.85	0.42
1:BJ:82:PRO:HD2	1:BJ:85:THR:HG21	2.01	0.42
1:BS:112:ALA:O	1:FE:49:VAL:CG1	2.61	0.42
1:BX:15:ASP:OD1	1:DR:10:ARG:NH1	2.53	0.42
1:BY:8:LYS:HA	1:BY:19:PHE:CD1	2.55	0.42
1:BZ:42:ARG:HB3	1:BZ:45:ASN:HB3	2.02	0.42
1:CI:42:ARG:HB3	1:CI:45:ASN:HB3	2.02	0.42
1:CL:57:LYS:NZ	1:CM:92:GLU:OE1	2.48	0.42
1:CN:105:VAL:HG22	1:FZ:94:LEU:CD1	2.49	0.42
1:CP:35:VAL:HG22	1:CP:52:MET:HB2	2.02	0.42
1:CR:10:ARG:HD2	1:CT:38:LEU:HD11	2.01	0.42
1:CU:126:LEU:HD23	1:CU:126:LEU:HA	1.85	0.42
1:DC:82:PRO:HD2	1:DC:85:THR:HG21	2.01	0.42
1:DI:53:ARG:NH1	1:GU:104:GLU:OE1	2.40	0.42
1:DM:42:ARG:HB3	1:DM:45:ASN:HB3	2.02	0.42
1:DQ:42:ARG:HB3	1:DQ:45:ASN:HB3	2.01	0.42
1:DT:35:VAL:HG22	1:DT:52:MET:HB2	2.02	0.42
1:DT:42:ARG:HB3	1:DT:45:ASN:HB3	2.01	0.42
1:DX:8:LYS:HA	1:DX:19:PHE:CD1	2.55	0.42
1:DY:7:PHE:HD1	1:DZ:120:LYS:HD3	1.85	0.42
1:ED:90:ARG:HA	1:ED:93:VAL:HG22	2.02	0.42
1:EJ:8:LYS:HA	1:EJ:19:PHE:CD1	2.55	0.42
1:EO:66:ALA:HB1	1:FJ:66:ALA:CB	2.50	0.42
1:EU:35:VAL:HG22	1:EU:52:MET:HB2	2.02	0.42
1:EZ:80:SER:HB2	1:FA:74:VAL:CG2	2.48	0.42
1:EZ:82:PRO:HD2	1:EZ:85:THR:HG21	2.02	0.42
1:FC:82:PRO:HD2	1:FC:85:THR:HG21	2.02	0.42
1:FF:10:ARG:HD2	1:FH:38:LEU:HD11	2.01	0.42
1:FJ:35:VAL:HG22	1:FJ:52:MET:HB2	2.02	0.42
1:FZ:90:ARG:HA	1:FZ:93:VAL:HG22	2.02	0.42
1:GG:7:PHE:HD1	1:GH:120:LYS:HD3	1.85	0.42
1:GL:82:PRO:HD2	1:GL:85:THR:HG21	2.01	0.42
1:GO:8:LYS:HA	1:GO:19:PHE:CD1	2.55	0.42
1:GS:80:SER:HB2	1:GT:74:VAL:CG2	2.48	0.42
1:GW:35:VAL:HG22	1:GW:52:MET:HB2	2.02	0.42
1:GX:90:ARG:HA	1:GX:93:VAL:HG22	2.02	0.42
1:HA:8:LYS:HA	1:HA:19:PHE:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HI:39:PRO:CD	1:HI:49:VAL:HG12	2.47	0.42
1:HM:82:PRO:HD2	1:HM:85:THR:HG21	2.01	0.42
1:HS:90:ARG:HA	1:HS:93:VAL:HG22	2.02	0.42
1:HT:7:PHE:HD1	1:HU:120:LYS:HD3	1.85	0.42
1:HT:83:VAL:CG1	1:MB:27:THR:HA	2.50	0.42
1:IF:7:PHE:HD1	1:IG:120:LYS:HD3	1.85	0.42
1:IH:90:ARG:HA	1:IH:93:VAL:HG22	2.02	0.42
1:IL:42:ARG:HB3	1:IL:45:ASN:HB3	2.02	0.42
1:IX:10:ARG:HD2	1:IZ:38:LEU:HD11	2.01	0.42
1:JG:10:ARG:HH22	1:JI:15:ASP:HA	1.83	0.42
1:JH:42:ARG:HB3	1:JH:45:ASN:HB3	2.01	0.42
1:JJ:80:SER:HB2	1:JK:74:VAL:CG2	2.48	0.42
1:KC:42:ARG:HB3	1:KC:45:ASN:HB3	2.01	0.42
1:KF:42:ARG:HB3	1:KF:45:ASN:HB3	2.01	0.42
1:KG:90:ARG:HA	1:KG:93:VAL:HG22	2.02	0.42
1:KL:42:ARG:HB3	1:KL:45:ASN:HB3	2.01	0.42
1:KN:82:PRO:HD2	1:KN:85:THR:HG21	2.02	0.42
1:KP:90:ARG:HA	1:KP:93:VAL:HG22	2.02	0.42
1:KS:8:LYS:HA	1:KS:19:PHE:CD1	2.55	0.42
1:KV:8:LYS:HA	1:KV:19:PHE:CD1	2.55	0.42
1:LL:42:ARG:HB3	1:LL:45:ASN:HB3	2.02	0.42
1:LN:90:ARG:HA	1:LN:93:VAL:HG22	2.02	0.42
1:LQ:82:PRO:HD2	1:LQ:85:THR:HG21	2.01	0.42
1:LU:10:ARG:HD2	1:LW:38:LEU:HD11	2.01	0.42
1:LX:7:PHE:HD1	1:LY:120:LYS:HD3	1.85	0.42
1:MB:35:VAL:HG22	1:MB:52:MET:HB2	2.02	0.42
1:MG:82:PRO:HD2	1:MG:85:THR:HG21	2.02	0.42
1:ML:82:PRO:HD2	1:ML:85:THR:HG21	2.01	0.42
1:MM:82:PRO:HD2	1:MM:85:THR:HG21	2.02	0.42
1:MS:10:ARG:HD2	1:MU:38:LEU:HD11	2.01	0.42
1:MS:42:ARG:HB3	1:MS:45:ASN:HB3	2.02	0.42
1:MU:82:PRO:HD2	1:MU:85:THR:HG21	2.01	0.42
1:NA:90:ARG:HA	1:NA:93:VAL:HG22	2.02	0.42
1:NE:42:ARG:HB3	1:NE:45:ASN:HB3	2.02	0.42
1:NM:82:PRO:HD2	1:NM:85:THR:HG21	2.01	0.42
1:NO:42:ARG:HB3	1:NO:45:ASN:HB3	2.01	0.42
1:NP:8:LYS:HA	1:NP:19:PHE:CD1	2.55	0.42
1:NT:10:ARG:HD2	1:NV:38:LEU:HD11	2.01	0.42
1:AD:7:PHE:HD1	1:AE:120:LYS:HD3	1.85	0.41
1:AY:10:ARG:HD2	1:BA:38:LEU:HD11	2.01	0.41
1:AZ:35:VAL:HG22	1:AZ:52:MET:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:9:LEU:CG	1:BC:10:ARG:H	2.29	0.41
1:BD:113:TYR:CD1	1:EP:90:ARG:NH2	2.88	0.41
1:BH:7:PHE:HD1	1:BI:120:LYS:HD3	1.85	0.41
1:BJ:94:LEU:HD23	1:EV:75:ILE:HD12	2.02	0.41
1:BK:82:PRO:HD2	1:BK:85:THR:HG21	2.02	0.41
1:BR:42:ARG:HB3	1:BR:45:ASN:HB3	2.01	0.41
1:BV:8:LYS:HA	1:BV:19:PHE:CD1	2.55	0.41
1:BZ:80:SER:HB2	1:CA:74:VAL:CG2	2.48	0.41
1:CH:106:LYS:NZ	1:FT:129:THR:O	2.53	0.41
1:CU:82:PRO:HD2	1:CU:85:THR:HG21	2.02	0.41
1:CW:92:GLU:CD	1:GI:57:LYS:HZ3	2.23	0.41
1:CZ:8:LYS:HA	1:CZ:19:PHE:CD1	2.55	0.41
1:DD:10:ARG:HH22	1:DF:15:ASP:HA	1.83	0.41
1:DL:8:LYS:HA	1:DL:19:PHE:CD1	2.55	0.41
1:DM:82:PRO:HD2	1:DM:85:THR:HG21	2.02	0.41
1:DP:7:PHE:HD1	1:DQ:120:LYS:HD3	1.85	0.41
1:DP:10:ARG:HD2	1:DR:38:LEU:HD11	2.01	0.41
1:DY:126:LEU:HD23	1:DY:126:LEU:HA	1.85	0.41
1:DZ:42:ARG:HB3	1:DZ:45:ASN:HB3	2.01	0.41
1:EN:7:PHE:HD1	1:EO:120:LYS:HD3	1.85	0.41
1:EN:80:SER:HB2	1:EO:74:VAL:CG2	2.48	0.41
1:FI:7:PHE:HD1	1:FJ:120:LYS:HD3	1.85	0.41
1:FL:10:ARG:HH22	1:FN:15:ASP:HA	1.83	0.41
1:FR:15:ASP:OD1	1:GQ:10:ARG:NH2	2.53	0.41
1:FU:7:PHE:HD1	1:FV:120:LYS:HD3	1.85	0.41
1:GB:35:VAL:HG22	1:GB:52:MET:HB2	2.02	0.41
1:GC:82:PRO:HD2	1:GC:85:THR:HG21	2.01	0.41
1:GG:82:PRO:HD2	1:GG:85:THR:HG21	2.02	0.41
1:GH:35:VAL:HG22	1:GH:52:MET:HB2	2.02	0.41
1:GI:8:LYS:HA	1:GI:19:PHE:CD1	2.55	0.41
1:GJ:10:ARG:HH22	1:GL:15:ASP:HA	1.83	0.41
1:GJ:42:ARG:HB3	1:GJ:45:ASN:HB3	2.02	0.41
1:GR:8:LYS:HA	1:GR:19:PHE:CD1	2.55	0.41
1:HA:90:ARG:HA	1:HA:93:VAL:HG22	2.02	0.41
1:HB:10:ARG:HH22	1:HD:15:ASP:HA	1.83	0.41
1:HF:39:PRO:CD	1:HF:49:VAL:HG12	2.47	0.41
1:HH:42:ARG:HB3	1:HH:45:ASN:HB3	2.02	0.41
1:HL:35:VAL:HG22	1:HL:52:MET:HB2	2.02	0.41
1:HS:10:ARG:NH1	1:LY:15:ASP:OD1	2.53	0.41
1:HS:112:ALA:O	1:LE:49:VAL:HG11	2.19	0.41
1:HV:90:ARG:HA	1:HV:93:VAL:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HX:35:VAL:HG22	1:HX:52:MET:HB2	2.02	0.41
1:IB:49:VAL:HG11	1:LN:112:ALA:O	2.20	0.41
1:IG:42:ARG:HB3	1:IG:45:ASN:HB3	2.01	0.41
1:IS:42:ARG:HB3	1:IS:45:ASN:HB3	2.01	0.41
1:IX:82:PRO:HD2	1:IX:85:THR:HG21	2.02	0.41
1:IZ:90:ARG:HA	1:IZ:93:VAL:HG22	2.02	0.41
1:JC:90:ARG:HA	1:JC:93:VAL:HG22	2.02	0.41
1:JE:35:VAL:HG22	1:JE:52:MET:HB2	2.02	0.41
1:JH:35:VAL:HG22	1:JH:52:MET:HB2	2.02	0.41
1:JO:90:ARG:NH2	1:NA:113:TYR:CG	2.88	0.41
1:JR:90:ARG:NH2	1:ND:113:TYR:CG	2.88	0.41
1:JS:10:ARG:HD2	1:JU:38:LEU:HD11	2.01	0.41
1:JT:35:VAL:HG22	1:JT:52:MET:HB2	2.02	0.41
1:KB:7:PHE:HD1	1:KC:120:LYS:HD3	1.85	0.41
1:KD:8:LYS:HA	1:KD:19:PHE:CD1	2.55	0.41
1:KG:8:LYS:HA	1:KG:19:PHE:CD1	2.55	0.41
1:KH:82:PRO:HD2	1:KH:85:THR:HG21	2.02	0.41
1:KM:82:PRO:HD2	1:KM:85:THR:HG21	2.01	0.41
1:KT:7:PHE:HD1	1:KU:120:LYS:HD3	1.85	0.41
1:KT:42:ARG:HB3	1:KT:45:ASN:HB3	2.02	0.41
1:KV:90:ARG:HA	1:KV:93:VAL:HG22	2.02	0.41
1:KX:10:ARG:HH11	1:MV:38:LEU:HB2	1.84	0.41
1:KX:35:VAL:HG22	1:KX:52:MET:HB2	2.02	0.41
1:KZ:82:PRO:HD2	1:KZ:85:THR:HG21	2.02	0.41
1:LC:7:PHE:HD1	1:LD:120:LYS:HD3	1.85	0.41
1:LG:42:ARG:HB3	1:LG:45:ASN:HB3	2.01	0.41
1:LK:8:LYS:HA	1:LK:19:PHE:CD1	2.55	0.41
1:LO:10:ARG:HD2	1:LQ:38:LEU:HD11	2.01	0.41
1:LQ:8:LYS:HA	1:LQ:19:PHE:CD1	2.55	0.41
1:LS:39:PRO:CD	1:LS:49:VAL:HG12	2.47	0.41
1:LT:82:PRO:HD2	1:LT:85:THR:HG21	2.01	0.41
1:MD:10:ARG:HH22	1:MF:15:ASP:HA	1.83	0.41
1:MI:8:LYS:HA	1:MI:19:PHE:CD1	2.55	0.41
1:MT:35:VAL:HG22	1:MT:52:MET:HB2	2.02	0.41
1:MW:35:VAL:HG22	1:MW:52:MET:HB2	2.02	0.41
1:NH:82:PRO:HD2	1:NH:85:THR:HG21	2.02	0.41
1:NV:8:LYS:HA	1:NV:19:PHE:CD1	2.55	0.41
1:AB:35:VAL:HG22	1:AB:52:MET:HB2	2.02	0.41
1:AF:8:LYS:HA	1:AF:19:PHE:CD1	2.55	0.41
1:AF:82:PRO:HD2	1:AF:85:THR:HG21	2.01	0.41
1:AL:90:ARG:NH2	1:DX:113:TYR:CG	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:42:ARG:HB3	1:AM:45:ASN:HB3	2.02	0.41
1:AP:10:ARG:HD2	1:AR:38:LEU:HD11	2.01	0.41
1:AR:8:LYS:HA	1:AR:19:PHE:CD1	2.55	0.41
1:AV:99:SER:OG	1:AV:124:GLU:O	2.20	0.41
1:BE:42:ARG:HB3	1:BE:45:ASN:HB3	2.02	0.41
1:BN:82:PRO:HD2	1:BN:85:THR:HG21	2.02	0.41
1:BP:8:LYS:HA	1:BP:19:PHE:CD1	2.55	0.41
1:BU:35:VAL:HG22	1:BU:52:MET:HB2	2.02	0.41
1:CA:42:ARG:HB3	1:CA:45:ASN:HB3	2.01	0.41
1:CB:90:ARG:HA	1:CB:93:VAL:HG22	2.02	0.41
1:CG:10:ARG:NH1	1:GM:38:LEU:HB2	2.34	0.41
1:CJ:35:VAL:HG22	1:CJ:52:MET:HB2	2.02	0.41
1:CL:10:ARG:HD2	1:CN:38:LEU:HD11	2.01	0.41
1:CU:7:PHE:HD1	1:CV:120:LYS:HD3	1.85	0.41
1:CU:10:ARG:HD2	1:CW:38:LEU:HD11	2.01	0.41
1:CV:42:ARG:HB3	1:CV:45:ASN:HB3	2.01	0.41
1:DD:10:ARG:HD2	1:DF:38:LEU:HD11	2.01	0.41
1:DH:39:PRO:CD	1:DH:49:VAL:HG12	2.47	0.41
1:DN:35:VAL:HG22	1:DN:52:MET:HB2	2.02	0.41
1:EE:42:ARG:HB3	1:EE:45:ASN:HB3	2.02	0.41
1:EK:7:PHE:HD1	1:EL:120:LYS:HD3	1.85	0.41
1:EP:8:LYS:HA	1:EP:19:PHE:CD1	2.55	0.41
1:EQ:42:ARG:HB3	1:EQ:45:ASN:HB3	2.02	0.41
1:EX:35:VAL:HG22	1:EX:52:MET:HB2	2.02	0.41
1:EX:42:ARG:HB3	1:EX:45:ASN:HB3	2.01	0.41
1:EY:90:ARG:HA	1:EY:93:VAL:HG22	2.02	0.41
1:FB:82:PRO:HD2	1:FB:85:THR:HG21	2.01	0.41
1:FE:8:LYS:HA	1:FE:19:PHE:CD1	2.55	0.41
1:FI:80:SER:HB2	1:FJ:74:VAL:CG2	2.48	0.41
1:FI:82:PRO:HD2	1:FI:85:THR:HG21	2.02	0.41
1:FK:82:PRO:HD2	1:FK:85:THR:HG21	2.01	0.41
1:FL:10:ARG:HD2	1:FN:38:LEU:HD11	2.01	0.41
1:FO:7:PHE:HD1	1:FP:120:LYS:HD3	1.85	0.41
1:FR:42:ARG:HB3	1:FR:45:ASN:HB3	2.02	0.41
1:FS:35:VAL:HG22	1:FS:52:MET:HB2	2.02	0.41
1:FX:75:ILE:HG23	1:FY:79:THR:HG22	2.00	0.41
1:GD:80:SER:HB2	1:GE:74:VAL:CG2	2.48	0.41
1:GR:90:ARG:HA	1:GR:93:VAL:HG22	2.02	0.41
1:HE:82:PRO:HD2	1:HE:85:THR:HG21	2.02	0.41
1:HK:42:ARG:HB3	1:HK:45:ASN:HB3	2.02	0.41
1:ID:9:LEU:CG	1:ID:10:ARG:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IJ:66:ALA:HB1	1:KU:66:ALA:CB	2.50	0.41
1:JA:42:ARG:HB3	1:JA:45:ASN:HB3	2.02	0.41
1:JF:17:THR:HG21	1:MR:117:VAL:HG11	2.01	0.41
1:JF:34:ILE:HD11	1:MR:111:LEU:CD2	2.50	0.41
1:JF:94:LEU:HD13	1:MR:105:VAL:HG22	2.01	0.41
1:JK:113:TYR:O	1:KF:26:VAL:HG21	2.19	0.41
1:JL:10:ARG:HH21	1:KF:38:LEU:CD2	2.31	0.41
1:JO:90:ARG:HA	1:JO:93:VAL:HG22	2.02	0.41
1:JR:82:PRO:HD2	1:JR:85:THR:HG21	2.01	0.41
1:JU:8:LYS:HA	1:JU:19:PHE:CD1	2.55	0.41
1:JU:90:ARG:HA	1:JU:93:VAL:HG22	2.02	0.41
1:JZ:15:ASP:OD1	1:KD:10:ARG:NH1	2.53	0.41
1:JZ:35:VAL:HG22	1:JZ:52:MET:HB2	2.02	0.41
1:KC:35:VAL:HG22	1:KC:52:MET:HB2	2.02	0.41
1:KJ:8:LYS:HA	1:KJ:19:PHE:CD1	2.55	0.41
1:KP:8:LYS:HA	1:KP:19:PHE:CD1	2.55	0.41
1:KP:82:PRO:HD2	1:KP:85:THR:HG21	2.01	0.41
1:KV:82:PRO:HD2	1:KV:85:THR:HG21	2.01	0.41
1:KZ:42:ARG:HB3	1:KZ:45:ASN:HB3	2.02	0.41
1:LA:35:VAL:HG22	1:LA:52:MET:HB2	2.02	0.41
1:LE:90:ARG:HA	1:LE:93:VAL:HG22	2.02	0.41
1:LG:39:PRO:CD	1:LG:49:VAL:HG12	2.47	0.41
1:LL:7:PHE:HD1	1:LM:120:LYS:HD3	1.85	0.41
1:LM:35:VAL:HG22	1:LM:52:MET:HB2	2.02	0.41
1:LN:8:LYS:HA	1:LN:19:PHE:CD1	2.55	0.41
1:MD:7:PHE:HD1	1:ME:120:LYS:HD3	1.85	0.41
1:MG:7:PHE:HD1	1:MH:120:LYS:HD3	1.85	0.41
1:MG:42:ARG:HB3	1:MG:45:ASN:HB3	2.02	0.41
1:MJ:42:ARG:HB3	1:MJ:45:ASN:HB3	2.02	0.41
1:MN:35:VAL:HG22	1:MN:52:MET:HB2	2.02	0.41
1:ND:8:LYS:HA	1:ND:19:PHE:CD1	2.55	0.41
1:NE:82:PRO:HD2	1:NE:85:THR:HG21	2.02	0.41
1:NH:7:PHE:HD1	1:NI:120:LYS:HD3	1.85	0.41
1:NJ:82:PRO:HD2	1:NJ:85:THR:HG21	2.01	0.41
1:NN:42:ARG:HB3	1:NN:45:ASN:HB3	2.02	0.41
1:AB:42:ARG:HB3	1:AB:45:ASN:HB3	2.01	0.41
1:AH:35:VAL:HG22	1:AH:52:MET:HB2	2.02	0.41
1:AS:42:ARG:HB3	1:AS:45:ASN:HB3	2.02	0.41
1:AU:82:PRO:HD2	1:AU:85:THR:HG21	2.01	0.41
1:BG:82:PRO:HD2	1:BG:85:THR:HG21	2.01	0.41
1:BS:82:PRO:HD2	1:BS:85:THR:HG21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BT:10:ARG:HD2	1:BV:38:LEU:HD11	2.01	0.41
1:BV:82:PRO:HD2	1:BV:85:THR:HG21	2.01	0.41
1:BV:90:ARG:HA	1:BV:93:VAL:HG22	2.02	0.41
1:CB:76:LYS:O	1:FN:77:THR:HA	2.20	0.41
1:CQ:90:ARG:HA	1:CQ:93:VAL:HG22	2.02	0.41
1:CR:42:ARG:HB3	1:CR:45:ASN:HB3	2.02	0.41
1:CV:10:ARG:HH11	1:DG:38:LEU:HB2	1.85	0.41
1:DA:10:ARG:HD2	1:DC:38:LEU:HD11	2.01	0.41
1:DC:90:ARG:HA	1:DC:93:VAL:HG22	2.02	0.41
1:DE:35:VAL:HG22	1:DE:52:MET:HB2	2.02	0.41
1:DF:8:LYS:HA	1:DF:19:PHE:CD1	2.55	0.41
1:DJ:10:ARG:HD2	1:DL:38:LEU:HD11	2.01	0.41
1:DO:90:ARG:HA	1:DO:93:VAL:HG22	2.02	0.41
1:DV:10:ARG:HD2	1:DX:38:LEU:HD11	2.01	0.41
1:DV:80:SER:HB2	1:DW:74:VAL:CG2	2.48	0.41
1:EC:26:VAL:HG11	1:GB:113:TYR:O	2.20	0.41
1:EG:90:ARG:HA	1:EG:93:VAL:HG22	2.02	0.41
1:EL:10:ARG:HH11	1:EQ:38:LEU:HB2	1.84	0.41
1:FG:35:VAL:HG22	1:FG:52:MET:HB2	2.02	0.41
1:GF:82:PRO:HD2	1:GF:85:THR:HG21	2.01	0.41
1:GM:10:ARG:HD2	1:GO:38:LEU:HD11	2.01	0.41
1:GY:7:PHE:HD1	1:GZ:120:LYS:HD3	1.85	0.41
1:GY:42:ARG:HB3	1:GY:45:ASN:HB3	2.02	0.41
1:HN:42:ARG:HB3	1:HN:45:ASN:HB3	2.02	0.41
1:HQ:42:ARG:HB3	1:HQ:45:ASN:HB3	2.02	0.41
1:HR:9:LEU:CG	1:HR:10:ARG:H	2.29	0.41
1:HZ:82:PRO:HD2	1:HZ:85:THR:HG21	2.02	0.41
1:IL:126:LEU:HD23	1:IL:126:LEU:HA	1.85	0.41
1:IP:35:VAL:HG22	1:IP:52:MET:HB2	2.02	0.41
1:IV:35:VAL:HG22	1:IV:52:MET:HB2	2.02	0.41
1:JF:111:LEU:HD21	1:MR:34:ILE:CD1	2.50	0.41
1:JS:42:ARG:HB3	1:JS:45:ASN:HB3	2.02	0.41
1:JU:80:SER:HB2	1:NG:74:VAL:CG2	2.44	0.41
1:JV:42:ARG:HB3	1:JV:45:ASN:HB3	2.02	0.41
1:JW:42:ARG:HB3	1:JW:45:ASN:HB3	2.01	0.41
1:JX:90:ARG:HA	1:JX:93:VAL:HG22	2.02	0.41
1:KA:8:LYS:HA	1:KA:19:PHE:CD1	2.55	0.41
1:KB:82:PRO:HD2	1:KB:85:THR:HG21	2.02	0.41
1:KG:80:SER:HB2	1:NS:74:VAL:CG2	2.49	0.41
1:KL:9:LEU:CG	1:KL:10:ARG:H	2.29	0.41
1:KN:42:ARG:HB3	1:KN:45:ASN:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KU:35:VAL:HG22	1:KU:52:MET:HB2	2.02	0.41
1:KZ:7:PHE:HD1	1:LA:120:LYS:HD3	1.85	0.41
1:LD:42:ARG:HB3	1:LD:45:ASN:HB3	2.01	0.41
1:LG:35:VAL:HG22	1:LG:52:MET:HB2	2.02	0.41
1:LK:90:ARG:HA	1:LK:93:VAL:HG22	2.02	0.41
1:LW:8:LYS:HA	1:LW:19:PHE:CD1	2.55	0.41
1:MA:42:ARG:HB3	1:MA:45:ASN:HB3	2.02	0.41
1:MQ:42:ARG:HB3	1:MQ:45:ASN:HB3	2.01	0.41
1:MS:10:ARG:HH22	1:MU:15:ASP:HA	1.83	0.41
1:MV:80:SER:HB2	1:MW:74:VAL:CG2	2.48	0.41
1:MY:10:ARG:HD2	1:NA:38:LEU:HD11	2.01	0.41
1:MZ:39:PRO:CD	1:MZ:49:VAL:HG12	2.47	0.41
1:NC:42:ARG:HB3	1:NC:45:ASN:HB3	2.01	0.41
1:NG:90:ARG:HA	1:NG:93:VAL:HG22	2.02	0.41
1:AG:80:SER:HB2	1:AH:74:VAL:CG2	2.48	0.41
1:AH:38:LEU:CD2	1:BG:10:ARG:HH21	2.31	0.41
1:AI:53:ARG:NH1	1:DU:104:GLU:OE1	2.37	0.41
1:AL:8:LYS:HA	1:AL:19:PHE:CD1	2.55	0.41
1:AP:42:ARG:HB3	1:AP:45:ASN:HB3	2.02	0.41
1:AS:82:PRO:HD2	1:AS:85:THR:HG21	2.02	0.41
1:AT:35:VAL:HG22	1:AT:52:MET:HB2	2.02	0.41
1:BD:8:LYS:HA	1:BD:19:PHE:CD1	2.55	0.41
1:BG:90:ARG:HA	1:BG:93:VAL:HG22	2.02	0.41
1:BK:7:PHE:HD1	1:BL:120:LYS:HD3	1.85	0.41
1:BK:42:ARG:HB3	1:BK:45:ASN:HB3	2.02	0.41
1:BL:39:PRO:CD	1:BL:49:VAL:HG12	2.47	0.41
1:BZ:10:ARG:HD2	1:CB:38:LEU:HD11	2.01	0.41
1:CB:8:LYS:HA	1:CB:19:PHE:CD1	2.55	0.41
1:CG:35:VAL:HG22	1:CG:52:MET:HB2	2.02	0.41
1:CH:8:LYS:HA	1:CH:19:PHE:CD1	2.55	0.41
1:CI:38:LEU:HB2	1:CP:10:ARG:HH11	1.83	0.41
1:CI:80:SER:HB2	1:CJ:74:VAL:CG2	2.48	0.41
1:CJ:15:ASP:OD1	1:GI:10:ARG:NH1	2.54	0.41
1:CL:7:PHE:HD1	1:CM:120:LYS:HD3	1.85	0.41
1:CO:10:ARG:HH22	1:CQ:15:ASP:HA	1.83	0.41
1:CQ:82:PRO:HD2	1:CQ:85:THR:HG21	2.01	0.41
1:DD:7:PHE:HD1	1:DE:120:LYS:HD3	1.85	0.41
1:DL:74:VAL:CG2	1:GX:80:SER:HB2	2.48	0.41
1:DR:8:LYS:HA	1:DR:19:PHE:CD1	2.55	0.41
1:DR:90:ARG:HA	1:DR:93:VAL:HG22	2.02	0.41
1:DS:82:PRO:HD2	1:DS:85:THR:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DW:35:VAL:HG22	1:DW:52:MET:HB2	2.02	0.41
1:EC:42:ARG:HB3	1:EC:45:ASN:HB3	2.01	0.41
1:EF:35:VAL:HG22	1:EF:52:MET:HB2	2.02	0.41
1:EF:42:ARG:HB3	1:EF:45:ASN:HB3	2.01	0.41
1:EK:126:LEU:HD23	1:EK:126:LEU:HA	1.85	0.41
1:EO:35:VAL:HG22	1:EO:52:MET:HB2	2.02	0.41
1:EW:10:ARG:HD2	1:EY:38:LEU:HD11	2.01	0.41
1:EY:8:LYS:HA	1:EY:19:PHE:CD1	2.55	0.41
1:EZ:7:PHE:HD1	1:FA:120:LYS:HD3	1.85	0.41
1:FA:9:LEU:CG	1:FA:10:ARG:H	2.29	0.41
1:FC:42:ARG:HB3	1:FC:45:ASN:HB3	2.02	0.41
1:FM:35:VAL:HG22	1:FM:52:MET:HB2	2.02	0.41
1:FO:10:ARG:HD2	1:FQ:38:LEU:HD11	2.01	0.41
1:GN:39:PRO:CD	1:GN:49:VAL:HG12	2.47	0.41
1:HL:39:PRO:CD	1:HL:49:VAL:HG12	2.47	0.41
1:HM:8:LYS:HA	1:HM:19:PHE:CD1	2.55	0.41
1:HR:26:VAL:HG21	1:LJ:113:TYR:O	2.21	0.41
1:IB:8:LYS:HA	1:IB:19:PHE:CD1	2.55	0.41
1:IE:75:ILE:HA	1:LQ:78:GLU:O	2.20	0.41
1:IF:10:ARG:HD2	1:IH:38:LEU:HD11	2.01	0.41
1:IF:82:PRO:HD2	1:IF:85:THR:HG21	2.02	0.41
1:IL:10:ARG:HD2	1:IN:38:LEU:HD11	2.01	0.41
1:IR:113:TYR:O	1:KM:26:VAL:HG21	2.21	0.41
1:IT:82:PRO:HD2	1:IT:85:THR:HG21	2.01	0.41
1:IU:7:PHE:HD1	1:IV:120:LYS:HD3	1.85	0.41
1:JD:10:ARG:HD2	1:JF:38:LEU:HD11	2.01	0.41
1:JJ:10:ARG:HD2	1:JL:38:LEU:HD11	2.01	0.41
1:JJ:82:PRO:HD2	1:JJ:85:THR:HG21	2.02	0.41
1:KH:42:ARG:HB3	1:KH:45:ASN:HB3	2.02	0.41
1:KS:82:PRO:HD2	1:KS:85:THR:HG21	2.01	0.41
1:KX:39:PRO:CD	1:KX:49:VAL:HG12	2.47	0.41
1:LB:8:LYS:HA	1:LB:19:PHE:CD1	2.55	0.41
1:LC:126:LEU:HD23	1:LC:126:LEU:HA	1.85	0.41
1:LD:35:VAL:HG22	1:LD:52:MET:HB2	2.02	0.41
1:LI:10:ARG:HD2	1:LK:38:LEU:HD11	2.01	0.41
1:LN:82:PRO:HD2	1:LN:85:THR:HG21	2.01	0.41
1:LP:35:VAL:HG22	1:LP:52:MET:HB2	2.02	0.41
1:LP:42:ARG:HB3	1:LP:45:ASN:HB3	2.01	0.41
1:LR:10:ARG:HD2	1:LT:38:LEU:HD11	2.01	0.41
1:LT:90:ARG:HA	1:LT:93:VAL:HG22	2.02	0.41
1:MB:39:PRO:CD	1:MB:49:VAL:HG12	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MC:8:LYS:HA	1:MC:19:PHE:CD1	2.55	0.41
1:MC:82:PRO:HD2	1:MC:85:THR:HG21	2.01	0.41
1:MH:39:PRO:CD	1:MH:49:VAL:HG12	2.47	0.41
1:MS:82:PRO:HD2	1:MS:85:THR:HG21	2.02	0.41
1:NH:10:ARG:HD2	1:NJ:38:LEU:HD11	2.01	0.41
1:NI:39:PRO:CD	1:NI:49:VAL:HG12	2.47	0.41
1:NK:80:SER:HB2	1:NL:74:VAL:CG2	2.48	0.41
1:NM:90:ARG:HA	1:NM:93:VAL:HG22	2.02	0.41
1:NR:35:VAL:HG22	1:NR:52:MET:HB2	2.02	0.41
1:NT:42:ARG:HB3	1:NT:45:ASN:HB3	2.02	0.41
1:NT:82:PRO:HD2	1:NT:85:THR:HG21	2.02	0.41
1:AE:101:LEU:HD23	1:AE:101:LEU:HA	1.94	0.41
1:AG:10:ARG:HD2	1:AI:38:LEU:HD11	2.01	0.41
1:AI:82:PRO:HD2	1:AI:85:THR:HG21	2.01	0.41
1:AP:80:SER:HB2	1:AQ:74:VAL:CG2	2.48	0.41
1:BB:10:ARG:HD2	1:BD:38:LEU:HD11	2.01	0.41
1:BE:82:PRO:HD2	1:BE:85:THR:HG21	2.02	0.41
1:BH:42:ARG:HB3	1:BH:45:ASN:HB3	2.02	0.41
1:BJ:90:ARG:HA	1:BJ:93:VAL:HG22	2.02	0.41
1:BM:82:PRO:HD2	1:BM:85:THR:HG21	2.01	0.41
1:BR:9:LEU:CG	1:BR:10:ARG:H	2.29	0.41
1:BS:8:LYS:HA	1:BS:19:PHE:CD1	2.55	0.41
1:BW:10:ARG:HD2	1:BY:38:LEU:HD11	2.01	0.41
1:BW:42:ARG:HB3	1:BW:45:ASN:HB3	2.02	0.41
1:CM:35:VAL:HG22	1:CM:52:MET:HB2	2.02	0.41
1:CN:8:LYS:HA	1:CN:19:PHE:CD1	2.55	0.41
1:CS:39:PRO:CD	1:CS:49:VAL:HG12	2.47	0.41
1:CS:42:ARG:HB3	1:CS:45:ASN:HB3	2.01	0.41
1:CT:8:LYS:HA	1:CT:19:PHE:CD1	2.55	0.41
1:CZ:82:PRO:HD2	1:CZ:85:THR:HG21	2.01	0.41
1:DR:82:PRO:HD2	1:DR:85:THR:HG21	2.01	0.41
1:DX:90:ARG:HA	1:DX:93:VAL:HG22	2.02	0.41
1:DY:10:ARG:HD2	1:EA:38:LEU:HD11	2.01	0.41
1:EK:42:ARG:HB3	1:EK:45:ASN:HB3	2.02	0.41
1:FC:10:ARG:HD2	1:FE:38:LEU:HD11	2.01	0.41
1:FH:82:PRO:HD2	1:FH:85:THR:HG21	2.01	0.41
1:FL:42:ARG:HB3	1:FL:45:ASN:HB3	2.02	0.41
1:GL:8:LYS:HA	1:GL:19:PHE:CD1	2.55	0.41
1:GS:7:PHE:HD1	1:GT:120:LYS:HD3	1.85	0.41
1:GS:82:PRO:HD2	1:GS:85:THR:HG21	2.02	0.41
1:HA:10:ARG:NH1	1:MW:15:ASP:OD1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IK:90:ARG:HA	1:IK:93:VAL:HG22	2.02	0.41
1:IN:82:PRO:HD2	1:IN:85:THR:HG21	2.01	0.41
1:IV:39:PRO:CD	1:IV:49:VAL:HG12	2.47	0.41
1:IX:80:SER:HB2	1:IY:74:VAL:CG2	2.48	0.41
1:IZ:8:LYS:HA	1:IZ:19:PHE:CD1	2.55	0.41
1:IZ:59:ILE:CD1	1:ML:89:ASP:OD2	2.65	0.41
1:JM:42:ARG:HB3	1:JM:45:ASN:HB3	2.02	0.41
1:JM:99:SER:OG	1:JM:124:GLU:O	2.20	0.41
1:KZ:10:ARG:HD2	1:LB:38:LEU:HD11	2.01	0.41
1:LF:82:PRO:HD2	1:LF:85:THR:HG21	2.02	0.41
1:LG:9:LEU:CG	1:LG:10:ARG:H	2.29	0.41
1:LH:82:PRO:HD2	1:LH:85:THR:HG21	2.01	0.41
1:LR:82:PRO:HD2	1:LR:85:THR:HG21	2.02	0.41
1:LX:80:SER:HB2	1:LY:74:VAL:CG2	2.48	0.41
1:LY:35:VAL:HG22	1:LY:52:MET:HB2	2.02	0.41
1:MP:7:PHE:HD1	1:MQ:120:LYS:HD3	1.85	0.41
1:MW:9:LEU:CG	1:MW:10:ARG:H	2.29	0.41
1:NL:39:PRO:CD	1:NL:49:VAL:HG12	2.47	0.41
1:NQ:80:SER:HB2	1:NR:74:VAL:CG2	2.48	0.41
1:AC:90:ARG:HA	1:AC:93:VAL:HG22	2.02	0.41
1:AF:113:TYR:CG	1:DR:90:ARG:NH2	2.89	0.41
1:AM:82:PRO:HD2	1:AM:85:THR:HG21	2.02	0.41
1:BE:99:SER:OG	1:BE:124:GLU:O	2.20	0.41
1:BG:106:LYS:NZ	1:ES:129:THR:O	2.54	0.41
1:BU:39:PRO:CD	1:BU:49:VAL:HG12	2.47	0.41
1:CC:10:ARG:HD2	1:CE:38:LEU:HD11	2.01	0.41
1:CE:8:LYS:HA	1:CE:19:PHE:CD1	2.55	0.41
1:CH:82:PRO:HD2	1:CH:85:THR:HG21	2.01	0.41
1:CI:10:ARG:HD2	1:CK:38:LEU:HD11	2.01	0.41
1:CK:82:PRO:HD2	1:CK:85:THR:HG21	2.01	0.41
1:CO:42:ARG:HB3	1:CO:45:ASN:HB3	2.02	0.41
1:CV:35:VAL:HG22	1:CV:52:MET:HB2	2.02	0.41
1:CX:82:PRO:HD2	1:CX:85:THR:HG21	2.02	0.41
1:DA:7:PHE:HD1	1:DB:120:LYS:HD3	1.85	0.41
1:DB:35:VAL:HG22	1:DB:52:MET:HB2	2.02	0.41
1:DI:8:LYS:HA	1:DI:19:PHE:CD1	2.55	0.41
1:DI:82:PRO:HD2	1:DI:85:THR:HG21	2.01	0.41
1:DM:10:ARG:HD2	1:DO:38:LEU:HD11	2.01	0.41
1:DY:82:PRO:HD2	1:DY:85:THR:HG21	2.02	0.41
1:EH:7:PHE:HD1	1:EI:120:LYS:HD3	1.85	0.41
1:EN:10:ARG:HD2	1:EP:38:LEU:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EV:8:LYS:HA	1:EV:19:PHE:CD1	2.55	0.41
1:FD:35:VAL:HG22	1:FD:52:MET:HB2	2.02	0.41
1:FF:99:SER:OG	1:FF:124:GLU:O	2.20	0.41
1:GA:42:ARG:HB3	1:GA:45:ASN:HB3	2.02	0.41
1:GD:7:PHE:HD1	1:GE:120:LYS:HD3	1.85	0.41
1:GF:8:LYS:HA	1:GF:19:PHE:CD1	2.55	0.41
1:GF:90:ARG:HA	1:GF:93:VAL:HG22	2.02	0.41
1:GH:9:LEU:CG	1:GH:10:ARG:H	2.29	0.41
1:GP:7:PHE:HD1	1:GQ:120:LYS:HD3	1.85	0.41
1:HB:82:PRO:HD2	1:HB:85:THR:HG21	2.02	0.41
1:HD:129:THR:C	1:KP:106:LYS:NZ	2.74	0.41
1:HE:7:PHE:HD1	1:HF:120:LYS:HD3	1.85	0.41
1:HF:35:VAL:HG22	1:HF:52:MET:HB2	2.02	0.41
1:HH:7:PHE:HD1	1:HI:120:LYS:HD3	1.85	0.41
1:HK:126:LEU:HA	1:HK:126:LEU:HD23	1.85	0.41
1:HN:82:PRO:HD2	1:HN:85:THR:HG21	2.02	0.41
1:HQ:126:LEU:HD23	1:HQ:126:LEU:HA	1.85	0.41
1:IC:82:PRO:HD2	1:IC:85:THR:HG21	2.02	0.41
1:IN:74:VAL:CG2	1:LZ:80:SER:HB2	2.46	0.41
1:IO:7:PHE:HD1	1:IP:120:LYS:HD3	1.85	0.41
1:IR:7:PHE:HD1	1:IS:120:LYS:HD3	1.85	0.41
1:JJ:10:ARG:HH22	1:JL:15:ASP:HA	1.83	0.41
1:JR:8:LYS:HA	1:JR:19:PHE:CD1	2.55	0.41
1:KB:42:ARG:HB3	1:KB:45:ASN:HB3	2.02	0.41
1:KI:101:LEU:HD23	1:KI:101:LEU:HA	1.93	0.41
1:KJ:82:PRO:HD2	1:KJ:85:THR:HG21	2.01	0.41
1:KJ:104:GLU:OE1	1:NV:53:ARG:NH1	2.38	0.41
1:KL:35:VAL:HG22	1:KL:52:MET:HB2	2.02	0.41
1:LW:82:PRO:HD2	1:LW:85:THR:HG21	2.01	0.41
1:ME:35:VAL:HG22	1:ME:52:MET:HB2	2.02	0.41
1:MK:35:VAL:HG22	1:MK:52:MET:HB2	2.02	0.41
1:MO:82:PRO:HD2	1:MO:85:THR:HG21	2.01	0.41
1:NB:42:ARG:HB3	1:NB:45:ASN:HB3	2.02	0.41
1:AA:42:ARG:HB3	1:AA:45:ASN:HB3	2.02	0.41
1:AC:125:ASP:HB2	1:DO:4:ILE:HG12	2.03	0.41
1:AE:38:LEU:HD23	1:BD:10:ARG:HH21	1.82	0.41
1:AJ:82:PRO:HD2	1:AJ:85:THR:HG21	2.02	0.41
1:AQ:35:VAL:HG22	1:AQ:52:MET:HB2	2.02	0.41
1:AX:82:PRO:HD2	1:AX:85:THR:HG21	2.01	0.41
1:BB:7:PHE:HD1	1:BC:120:LYS:HD3	1.85	0.41
1:BE:126:LEU:HA	1:BE:126:LEU:HD23	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:99:SER:OG	1:BH:124:GLU:O	2.20	0.41
1:BK:10:ARG:HD2	1:BM:38:LEU:HD11	2.01	0.41
1:BM:90:ARG:HA	1:BM:93:VAL:HG22	2.02	0.41
1:BY:80:SER:HB2	1:FK:74:VAL:CG2	2.47	0.41
1:BZ:82:PRO:HD2	1:BZ:85:THR:HG21	2.02	0.41
1:CA:9:LEU:CG	1:CA:10:ARG:H	2.29	0.41
1:CK:49:VAL:HG11	1:FW:112:ALA:O	2.21	0.41
1:CZ:90:ARG:HA	1:CZ:93:VAL:HG22	2.02	0.41
1:DE:9:LEU:CG	1:DE:10:ARG:H	2.29	0.41
1:DJ:42:ARG:HB3	1:DJ:45:ASN:HB3	2.02	0.41
1:DP:42:ARG:HB3	1:DP:45:ASN:HB3	2.02	0.41
1:DP:82:PRO:HD2	1:DP:85:THR:HG21	2.02	0.41
1:DU:82:PRO:HD2	1:DU:85:THR:HG21	2.01	0.41
1:EC:26:VAL:HG21	1:GB:113:TYR:O	2.20	0.41
1:EH:99:SER:OG	1:EH:124:GLU:O	2.20	0.41
1:EL:9:LEU:CG	1:EL:10:ARG:H	2.29	0.41
1:EL:57:LYS:HE3	1:EL:59:ILE:HD11	2.03	0.41
1:EQ:82:PRO:HD2	1:EQ:85:THR:HG21	2.02	0.41
1:FH:8:LYS:HA	1:FH:19:PHE:CD1	2.55	0.41
1:FK:90:ARG:HA	1:FK:93:VAL:HG22	2.02	0.41
1:FL:80:SER:HB2	1:FM:74:VAL:CG2	2.48	0.41
1:FQ:8:LYS:HA	1:FQ:19:PHE:CD1	2.55	0.41
1:FR:7:PHE:HD1	1:FS:120:LYS:HD3	1.85	0.41
1:FV:35:VAL:HG22	1:FV:52:MET:HB2	2.02	0.41
1:GE:35:VAL:HG22	1:GE:52:MET:HB2	2.02	0.41
1:GK:39:PRO:CD	1:GK:49:VAL:HG12	2.47	0.41
1:GU:8:LYS:HA	1:GU:19:PHE:CD1	2.55	0.41
1:GV:42:ARG:HB3	1:GV:45:ASN:HB3	2.02	0.41
1:GZ:101:LEU:HD23	1:GZ:101:LEU:HA	1.93	0.41
1:HC:9:LEU:CG	1:HC:10:ARG:H	2.29	0.41
1:HY:80:SER:HB2	1:LK:74:VAL:CG2	2.46	0.41
1:HZ:7:PHE:HD1	1:IA:120:LYS:HD3	1.85	0.41
1:IT:90:ARG:HA	1:IT:93:VAL:HG22	2.02	0.41
1:IY:35:VAL:HG22	1:IY:52:MET:HB2	2.02	0.41
1:JQ:35:VAL:HG22	1:JQ:52:MET:HB2	2.02	0.41
1:JS:7:PHE:HD1	1:JT:120:LYS:HD3	1.85	0.41
1:JT:42:ARG:HB3	1:JT:45:ASN:HB3	2.01	0.41
1:JY:7:PHE:HD1	1:JZ:120:LYS:HD3	1.85	0.41
1:KM:8:LYS:HA	1:KM:19:PHE:CD1	2.55	0.41
1:KO:38:LEU:HD22	1:NV:10:ARG:HH21	1.85	0.41
1:KQ:7:PHE:HD1	1:KR:120:LYS:HD3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KT:82:PRO:HD2	1:KT:85:THR:HG21	2.02	0.41
1:KU:39:PRO:CD	1:KU:49:VAL:HG12	2.47	0.41
1:LD:39:PRO:CD	1:LD:49:VAL:HG12	2.47	0.41
1:LO:82:PRO:HD2	1:LO:85:THR:HG21	2.02	0.41
1:LX:82:PRO:HD2	1:LX:85:THR:HG21	2.02	0.41
1:MF:90:ARG:HA	1:MF:93:VAL:HG22	2.02	0.41
1:MV:42:ARG:HB3	1:MV:45:ASN:HB3	2.02	0.41
1:NF:35:VAL:HG22	1:NF:52:MET:HB2	2.02	0.41
1:NK:42:ARG:HB3	1:NK:45:ASN:HB3	2.02	0.41
1:NN:80:SER:HB2	1:NO:74:VAL:CG2	2.48	0.41
1:NV:82:PRO:HD2	1:NV:85:THR:HG21	2.01	0.41
1:AD:10:ARG:HH22	1:AF:15:ASP:HA	1.83	0.41
1:AD:80:SER:HB2	1:AE:74:VAL:CG2	2.48	0.41
1:AH:42:ARG:HB3	1:AH:45:ASN:HB3	2.01	0.41
1:AT:10:ARG:NH1	1:EK:38:LEU:HB2	2.36	0.41
1:AU:8:LYS:HA	1:AU:19:PHE:CD1	2.55	0.41
1:AV:42:ARG:HB3	1:AV:45:ASN:HB3	2.02	0.41
1:AX:8:LYS:HA	1:AX:19:PHE:CD1	2.55	0.41
1:BA:90:ARG:HA	1:BA:93:VAL:HG22	2.02	0.41
1:BB:82:PRO:HD2	1:BB:85:THR:HG21	2.02	0.41
1:BG:8:LYS:HA	1:BG:19:PHE:CD1	2.55	0.41
1:BG:90:ARG:NH2	1:ES:113:TYR:CD1	2.88	0.41
1:BQ:82:PRO:HD2	1:BQ:85:THR:HG21	2.02	0.41
1:BX:35:VAL:HG22	1:BX:52:MET:HB2	2.02	0.41
1:CJ:15:ASP:O	1:CJ:35:VAL:HA	2.21	0.41
1:CK:8:LYS:HA	1:CK:19:PHE:CD1	2.55	0.41
1:CY:101:LEU:HD23	1:CY:101:LEU:HA	1.94	0.41
1:DF:82:PRO:HD2	1:DF:85:THR:HG21	2.01	0.41
1:DQ:15:ASP:O	1:DQ:35:VAL:HA	2.21	0.41
1:EA:90:ARG:HA	1:EA:93:VAL:HG22	2.02	0.41
1:EC:9:LEU:CG	1:EC:10:ARG:H	2.29	0.41
1:ER:9:LEU:CG	1:ER:10:ARG:H	2.29	0.41
1:ET:7:PHE:HD1	1:EU:120:LYS:HD3	1.85	0.41
1:EZ:42:ARG:HB3	1:EZ:45:ASN:HB3	2.02	0.41
1:FF:126:LEU:HD23	1:FF:126:LEU:HA	1.85	0.41
1:FY:39:PRO:CD	1:FY:49:VAL:HG12	2.47	0.41
1:GK:35:VAL:HG22	1:GK:52:MET:HB2	2.02	0.41
1:HH:10:ARG:HD2	1:HJ:38:LEU:HD11	2.01	0.41
1:HI:35:VAL:HG22	1:HI:52:MET:HB2	2.02	0.41
1:HO:42:ARG:HB3	1:HO:45:ASN:HB3	2.01	0.41
1:HY:90:ARG:HA	1:HY:93:VAL:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IC:10:ARG:HD2	1:IE:38:LEU:HD11	2.01	0.41
1:IC:42:ARG:HB3	1:IC:45:ASN:HB3	2.02	0.41
1:IO:42:ARG:HB3	1:IO:45:ASN:HB3	2.02	0.41
1:IO:126:LEU:HA	1:IO:126:LEU:HD23	1.85	0.41
1:IS:57:LYS:HE3	1:IS:59:ILE:HD11	2.03	0.41
1:IT:122:PHE:CE1	1:MF:5:ALA:HB2	2.55	0.41
1:IW:57:LYS:NZ	1:MI:92:GLU:OE2	2.43	0.41
1:IW:90:ARG:HA	1:IW:93:VAL:HG22	2.02	0.41
1:JG:80:SER:HB2	1:JH:74:VAL:CG2	2.48	0.41
1:JH:10:ARG:HH11	1:NE:38:LEU:HD22	1.85	0.41
1:JM:10:ARG:HD2	1:JO:38:LEU:HD11	2.01	0.41
1:KH:7:PHE:HD1	1:KI:120:LYS:HD3	1.85	0.41
1:KS:90:ARG:HA	1:KS:93:VAL:HG22	2.02	0.41
1:LI:7:PHE:HD1	1:LJ:120:LYS:HD3	1.85	0.41
1:LS:35:VAL:HG22	1:LS:52:MET:HB2	2.02	0.41
1:LW:90:ARG:HA	1:LW:93:VAL:HG22	2.02	0.41
1:MA:82:PRO:HD2	1:MA:85:THR:HG21	2.02	0.41
1:MX:90:ARG:HA	1:MX:93:VAL:HG22	2.02	0.41
1:MY:10:ARG:HH22	1:NA:15:ASP:HA	1.83	0.41
1:NA:82:PRO:HD2	1:NA:85:THR:HG21	2.01	0.41
1:NB:7:PHE:HD1	1:NC:120:LYS:HD3	1.85	0.41
1:NE:80:SER:HB2	1:NF:74:VAL:CG2	2.48	0.41
1:NK:7:PHE:HD1	1:NL:120:LYS:HD3	1.85	0.41
1:NM:8:LYS:HA	1:NM:19:PHE:CD1	2.55	0.41
1:NN:10:ARG:HD2	1:NP:38:LEU:HD11	2.01	0.41
1:AA:7:PHE:HD1	1:AB:120:LYS:HD3	1.85	0.41
1:AB:15:ASP:O	1:AB:35:VAL:HA	2.21	0.41
1:AC:28:LEU:HB3	1:AC:58:THR:O	2.21	0.41
1:AE:66:ALA:HB3	1:GB:66:ALA:HB1	2.02	0.41
1:AN:101:LEU:HD23	1:AN:101:LEU:HA	1.94	0.41
1:AO:28:LEU:HB3	1:AO:58:THR:O	2.21	0.41
1:AQ:39:PRO:CD	1:AQ:49:VAL:HG12	2.47	0.41
1:AW:57:LYS:HE3	1:AW:59:ILE:HD11	2.03	0.41
1:AZ:39:PRO:CD	1:AZ:49:VAL:HG12	2.47	0.41
1:AZ:57:LYS:HE3	1:AZ:59:ILE:HD11	2.03	0.41
1:BB:80:SER:HB2	1:BC:74:VAL:CG2	2.48	0.41
1:BF:57:LYS:HE3	1:BF:59:ILE:HD11	2.03	0.41
1:BH:114:SER:HA	1:BP:26:VAL:HG21	2.01	0.41
1:BI:57:LYS:HE3	1:BI:59:ILE:HD11	2.03	0.41
1:BK:80:SER:HB2	1:BL:74:VAL:CG2	2.48	0.41
1:BP:28:LEU:HB3	1:BP:58:THR:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BP:105:VAL:HG22	1:FB:94:LEU:CD1	2.51	0.41
1:BQ:7:PHE:HD1	1:BR:120:LYS:HD3	1.85	0.41
1:BT:80:SER:HB2	1:BU:74:VAL:CG2	2.48	0.41
1:BX:15:ASP:O	1:BX:35:VAL:HA	2.21	0.41
1:CC:126:LEU:HD23	1:CC:126:LEU:HA	1.85	0.41
1:CD:15:ASP:O	1:CD:35:VAL:HA	2.21	0.41
1:CD:57:LYS:HE3	1:CD:59:ILE:HD11	2.03	0.41
1:CE:90:ARG:HA	1:CE:93:VAL:HG22	2.02	0.41
1:CE:119:ASP:O	1:FQ:8:LYS:HB2	2.20	0.41
1:CF:7:PHE:HD1	1:CG:120:LYS:HD3	1.85	0.41
1:CF:126:LEU:HD23	1:CF:126:LEU:HA	1.85	0.41
1:CH:10:ARG:HH21	1:CM:38:LEU:HD22	1.86	0.41
1:CL:42:ARG:HB3	1:CL:45:ASN:HB3	2.02	0.41
1:CV:15:ASP:O	1:CV:35:VAL:HA	2.21	0.41
1:CW:57:LYS:NZ	1:GI:92:GLU:OE2	2.44	0.41
1:CW:90:ARG:HA	1:CW:93:VAL:HG22	2.02	0.41
1:DD:42:ARG:HB3	1:DD:45:ASN:HB3	2.02	0.41
1:DG:7:PHE:HD1	1:DH:120:LYS:HD3	1.85	0.41
1:DH:35:VAL:HG22	1:DH:52:MET:HB2	2.02	0.41
1:DI:90:ARG:HA	1:DI:93:VAL:HG22	2.02	0.41
1:DK:35:VAL:HG22	1:DK:52:MET:HB2	2.02	0.41
1:DM:80:SER:HB2	1:DN:74:VAL:CG2	2.48	0.41
1:DN:15:ASP:O	1:DN:35:VAL:HA	2.21	0.41
1:DO:8:LYS:HA	1:DO:19:PHE:CD1	2.55	0.41
1:DT:101:LEU:HD23	1:DT:101:LEU:HA	1.94	0.41
1:DV:10:ARG:HH22	1:DX:15:ASP:HA	1.83	0.41
1:DW:39:PRO:CD	1:DW:49:VAL:HG12	2.47	0.41
1:DZ:9:LEU:CG	1:DZ:10:ARG:H	2.29	0.41
1:EA:82:PRO:HD2	1:EA:85:THR:HG21	2.01	0.41
1:EE:7:PHE:HD1	1:EF:120:LYS:HD3	1.85	0.41
1:EF:15:ASP:O	1:EF:35:VAL:HA	2.21	0.41
1:EG:82:PRO:HD2	1:EG:85:THR:HG21	2.01	0.41
1:EL:39:PRO:CD	1:EL:49:VAL:HG12	2.47	0.41
1:EN:42:ARG:HB3	1:EN:45:ASN:HB3	2.02	0.41
1:EO:15:ASP:O	1:EO:35:VAL:HA	2.21	0.41
1:EQ:7:PHE:HD1	1:ER:120:LYS:HD3	1.85	0.41
1:EX:15:ASP:O	1:EX:35:VAL:HA	2.21	0.41
1:EZ:10:ARG:HH22	1:FB:15:ASP:HA	1.83	0.41
1:FB:90:ARG:HA	1:FB:93:VAL:HG22	2.02	0.41
1:FD:15:ASP:O	1:FD:35:VAL:HA	2.21	0.41
1:FD:42:ARG:HB3	1:FD:45:ASN:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FF:42:ARG:HB3	1:FF:45:ASN:HB3	2.02	0.41
1:FK:8:LYS:HA	1:FK:19:PHE:CD1	2.55	0.41
1:FL:7:PHE:HD1	1:FM:120:LYS:HD3	1.85	0.41
1:FM:15:ASP:O	1:FM:35:VAL:HA	2.21	0.41
1:FO:42:ARG:HB3	1:FO:45:ASN:HB3	2.02	0.41
1:FQ:28:LEU:HB3	1:FQ:58:THR:O	2.21	0.41
1:FS:15:ASP:O	1:FS:35:VAL:HA	2.21	0.41
1:FS:57:LYS:HE3	1:FS:59:ILE:HD11	2.03	0.41
1:FV:101:LEU:HD23	1:FV:101:LEU:HA	1.94	0.41
1:FX:42:ARG:HB3	1:FX:45:ASN:HB3	2.02	0.41
1:FY:35:VAL:HG22	1:FY:52:MET:HB2	2.02	0.41
1:GD:42:ARG:HB3	1:GD:45:ASN:HB3	2.02	0.41
1:GG:10:ARG:HD2	1:GI:38:LEU:HD11	2.01	0.41
1:GM:42:ARG:HB3	1:GM:45:ASN:HB3	2.02	0.41
1:GQ:15:ASP:O	1:GQ:35:VAL:HA	2.21	0.41
1:GQ:35:VAL:HG22	1:GQ:52:MET:HB2	2.02	0.41
1:GS:10:ARG:HH22	1:GU:15:ASP:HA	1.83	0.41
1:GW:9:LEU:CG	1:GW:10:ARG:H	2.29	0.41
1:GY:10:ARG:HD2	1:HA:38:LEU:HD11	2.01	0.41
1:GZ:57:LYS:HE3	1:GZ:59:ILE:HD11	2.03	0.41
1:HF:15:ASP:O	1:HF:35:VAL:HA	2.21	0.41
1:HH:82:PRO:HD2	1:HH:85:THR:HG21	2.02	0.41
1:HI:57:LYS:HE3	1:HI:59:ILE:HD11	2.03	0.41
1:HJ:8:LYS:HA	1:HJ:19:PHE:CD1	2.55	0.41
1:HK:82:PRO:HD2	1:HK:85:THR:HG21	2.02	0.41
1:HL:42:ARG:HB3	1:HL:45:ASN:HB3	2.01	0.41
1:HP:92:GLU:OE2	1:LB:57:LYS:NZ	2.44	0.41
1:HP:116:TYR:CE1	1:KZ:9:LEU:HA	2.56	0.41
1:HQ:7:PHE:HD1	1:HR:120:LYS:HD3	1.85	0.41
1:HQ:10:ARG:HD2	1:HS:38:LEU:HD11	2.01	0.41
1:HS:28:LEU:HB3	1:HS:58:THR:O	2.21	0.41
1:HU:113:TYR:O	1:MB:26:VAL:HG21	2.21	0.41
1:IA:57:LYS:HE3	1:IA:59:ILE:HD11	2.03	0.41
1:IG:15:ASP:OD1	1:IN:10:ARG:NH1	2.54	0.41
1:IG:35:VAL:HG22	1:IG:52:MET:HB2	2.02	0.41
1:IG:101:LEU:HD23	1:IG:101:LEU:HA	1.94	0.41
1:II:123:ILE:HG13	1:IJ:4:ILE:HB	2.03	0.41
1:IN:80:SER:HB2	1:LZ:74:VAL:CG2	2.50	0.41
1:IO:82:PRO:HD2	1:IO:85:THR:HG21	2.02	0.41
1:IR:82:PRO:HD2	1:IR:85:THR:HG21	2.02	0.41
1:IS:15:ASP:O	1:IS:35:VAL:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JC:80:SER:HB2	1:MO:74:VAL:CG2	2.51	0.41
1:JD:42:ARG:HB3	1:JD:45:ASN:HB3	2.02	0.41
1:JF:90:ARG:HA	1:JF:93:VAL:HG22	2.02	0.41
1:JK:15:ASP:O	1:JK:35:VAL:HA	2.21	0.41
1:JK:57:LYS:HE3	1:JK:59:ILE:HD11	2.03	0.41
1:JR:8:LYS:HB2	1:ND:119:ASP:O	2.21	0.41
1:JX:8:LYS:HA	1:JX:19:PHE:CD1	2.55	0.41
1:KC:15:ASP:O	1:KC:35:VAL:HA	2.21	0.41
1:KC:39:PRO:CD	1:KC:49:VAL:HG12	2.47	0.41
1:KE:82:PRO:HD2	1:KE:85:THR:HG21	2.02	0.41
1:KG:125:ASP:HB2	1:NS:4:ILE:CG1	2.51	0.41
1:KN:7:PHE:HD1	1:KO:120:LYS:HD3	1.85	0.41
1:KQ:10:ARG:HH22	1:KS:15:ASP:HA	1.83	0.41
1:KR:101:LEU:HD23	1:KR:101:LEU:HA	1.93	0.41
1:KU:101:LEU:HD23	1:KU:101:LEU:HA	1.94	0.41
1:LD:57:LYS:HE3	1:LD:59:ILE:HD11	2.03	0.41
1:LF:42:ARG:HB3	1:LF:45:ASN:HB3	2.02	0.41
1:LG:15:ASP:O	1:LG:35:VAL:HA	2.21	0.41
1:LI:42:ARG:HB3	1:LI:45:ASN:HB3	2.02	0.41
1:LM:101:LEU:HD23	1:LM:101:LEU:HA	1.93	0.41
1:LN:28:LEU:HB3	1:LN:58:THR:O	2.21	0.41
1:LO:7:PHE:HD1	1:LP:120:LYS:HD3	1.85	0.41
1:LP:15:ASP:O	1:LP:35:VAL:HA	2.21	0.41
1:LV:57:LYS:HE3	1:LV:59:ILE:HD11	2.03	0.41
1:LZ:90:ARG:HA	1:LZ:93:VAL:HG22	2.02	0.41
1:MC:90:ARG:HA	1:MC:93:VAL:HG22	2.02	0.41
1:MH:42:ARG:HB3	1:MH:45:ASN:HB3	2.01	0.41
1:MK:42:ARG:HB3	1:MK:45:ASN:HB3	2.01	0.41
1:MP:10:ARG:HD2	1:MR:38:LEU:HD11	2.01	0.41
1:MP:42:ARG:HB3	1:MP:45:ASN:HB3	2.02	0.41
1:MP:123:ILE:HG13	1:MQ:4:ILE:HB	2.03	0.41
1:MR:8:LYS:HA	1:MR:19:PHE:CD1	2.55	0.41
1:MT:9:LEU:CG	1:MT:10:ARG:H	2.29	0.41
1:MU:8:LYS:HA	1:MU:19:PHE:CD1	2.55	0.41
1:MY:80:SER:HB2	1:MZ:74:VAL:CG2	2.48	0.41
1:MZ:35:VAL:HG22	1:MZ:52:MET:HB2	2.02	0.41
1:NB:10:ARG:HD2	1:ND:38:LEU:HD11	2.01	0.41
1:NC:15:ASP:O	1:NC:35:VAL:HA	2.21	0.41
1:ND:90:ARG:HA	1:ND:93:VAL:HG22	2.02	0.41
1:NE:123:ILE:HG13	1:NF:4:ILE:HB	2.03	0.41
1:NK:82:PRO:HD2	1:NK:85:THR:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NO:35:VAL:HG22	1:NO:52:MET:HB2	2.02	0.41
1:NS:82:PRO:HD2	1:NS:85:THR:HG21	2.01	0.41
1:NU:9:LEU:CG	1:NU:10:ARG:H	2.29	0.41
1:NU:15:ASP:O	1:NU:35:VAL:HA	2.21	0.41
1:AA:80:SER:HB2	1:AB:74:VAL:CG2	2.48	0.41
1:AB:57:LYS:HE3	1:AB:59:ILE:HD11	2.03	0.41
1:AE:39:PRO:CD	1:AE:49:VAL:HG12	2.47	0.41
1:AH:15:ASP:O	1:AH:35:VAL:HA	2.21	0.41
1:AT:10:ARG:HH11	1:EK:38:LEU:HB2	1.86	0.41
1:AT:39:PRO:CD	1:AT:49:VAL:HG12	2.47	0.41
1:AW:15:ASP:O	1:AW:35:VAL:HA	2.21	0.41
1:BA:8:LYS:HA	1:BA:19:PHE:CD1	2.55	0.41
1:BB:126:LEU:HA	1:BB:126:LEU:HD23	1.85	0.41
1:BC:39:PRO:CD	1:BC:49:VAL:HG12	2.47	0.41
1:BL:35:VAL:HG22	1:BL:52:MET:HB2	2.02	0.41
1:BS:90:ARG:HA	1:BS:93:VAL:HG22	2.02	0.41
1:CI:123:ILE:HG13	1:CJ:4:ILE:HB	2.03	0.41
1:CJ:38:LEU:HD22	1:GI:10:ARG:HH21	1.86	0.41
1:CN:129:THR:O	1:FZ:106:LYS:NZ	2.54	0.41
1:CP:15:ASP:O	1:CP:35:VAL:HA	2.21	0.41
1:CW:80:SER:HB2	1:GI:74:VAL:CG2	2.46	0.41
1:DH:15:ASP:O	1:DH:35:VAL:HA	2.21	0.41
1:DY:42:ARG:HB3	1:DY:45:ASN:HB3	2.02	0.41
1:EA:28:LEU:HB3	1:EA:58:THR:O	2.21	0.41
1:EF:38:LEU:CD2	1:EV:10:ARG:HH21	2.33	0.41
1:EL:15:ASP:O	1:EL:35:VAL:HA	2.21	0.41
1:EP:88:GLU:H	1:EP:88:GLU:HG3	1.69	0.41
1:ER:35:VAL:HG22	1:ER:52:MET:HB2	2.02	0.41
1:EU:15:ASP:O	1:EU:35:VAL:HA	2.21	0.41
1:EZ:99:SER:OG	1:EZ:124:GLU:O	2.20	0.41
1:FC:80:SER:HB2	1:FD:74:VAL:CG2	2.48	0.41
1:FI:10:ARG:HD2	1:FK:38:LEU:HD11	2.01	0.41
1:FN:88:GLU:H	1:FN:88:GLU:HG3	1.69	0.41
1:FP:101:LEU:HD23	1:FP:101:LEU:HA	1.94	0.41
1:FQ:90:ARG:HA	1:FQ:93:VAL:HG22	2.02	0.41
1:FR:10:ARG:HH22	1:FT:15:ASP:HA	1.83	0.41
1:FY:57:LYS:HE3	1:FY:59:ILE:HD11	2.03	0.41
1:FZ:28:LEU:HB3	1:FZ:58:THR:O	2.21	0.41
1:GC:28:LEU:HB3	1:GC:58:THR:O	2.21	0.41
1:GE:15:ASP:O	1:GE:35:VAL:HA	2.21	0.41
1:GG:126:LEU:HD23	1:GG:126:LEU:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GH:15:ASP:O	1:GH:35:VAL:HA	2.21	0.41
1:GH:57:LYS:HE3	1:GH:59:ILE:HD11	2.03	0.41
1:GJ:82:PRO:HD2	1:GJ:85:THR:HG21	2.02	0.41
1:GK:9:LEU:CG	1:GK:10:ARG:H	2.29	0.41
1:GQ:9:LEU:CG	1:GQ:10:ARG:H	2.29	0.41
1:GT:35:VAL:HG22	1:GT:52:MET:HB2	2.02	0.41
1:GV:82:PRO:HD2	1:GV:85:THR:HG21	2.02	0.41
1:HA:82:PRO:HD2	1:HA:85:THR:HG21	2.01	0.41
1:HC:15:ASP:O	1:HC:35:VAL:HA	2.21	0.41
1:HD:119:ASP:O	1:KP:8:LYS:HB2	2.20	0.41
1:HE:42:ARG:HB3	1:HE:45:ASN:HB3	2.02	0.41
1:HF:57:LYS:HE3	1:HF:59:ILE:HD11	2.03	0.41
1:HL:57:LYS:HE3	1:HL:59:ILE:HD11	2.03	0.41
1:HM:28:LEU:HB3	1:HM:58:THR:O	2.21	0.41
1:HN:123:ILE:HG13	1:HO:4:ILE:HB	2.03	0.41
1:HR:39:PRO:CD	1:HR:49:VAL:HG12	2.47	0.41
1:HS:26:VAL:HG21	1:LX:113:TYR:O	2.21	0.41
1:HS:106:LYS:NZ	1:LE:129:THR:O	2.54	0.41
1:HU:57:LYS:HE3	1:HU:59:ILE:HD11	2.03	0.41
1:HW:7:PHE:HD1	1:HX:120:LYS:HD3	1.85	0.41
1:IA:15:ASP:O	1:IA:35:VAL:HA	2.21	0.41
1:ID:15:ASP:O	1:ID:35:VAL:HA	2.21	0.41
1:II:80:SER:HB2	1:IJ:74:VAL:CG2	2.48	0.41
1:IJ:57:LYS:HE3	1:IJ:59:ILE:HD11	2.03	0.41
1:IK:8:LYS:HA	1:IK:19:PHE:CD1	2.55	0.41
1:IL:123:ILE:HG13	1:IM:4:ILE:HB	2.03	0.41
1:IR:42:ARG:HB3	1:IR:45:ASN:HB3	2.02	0.41
1:IZ:28:LEU:HB3	1:IZ:58:THR:O	2.21	0.41
1:JJ:7:PHE:HD1	1:JK:120:LYS:HD3	1.85	0.41
1:JJ:42:ARG:HB3	1:JJ:45:ASN:HB3	2.02	0.41
1:JL:28:LEU:HB3	1:JL:58:THR:O	2.21	0.41
1:JN:57:LYS:HE3	1:JN:59:ILE:HD11	2.03	0.41
1:JV:7:PHE:HD1	1:JW:120:LYS:HD3	1.85	0.41
1:JV:123:ILE:HG13	1:JW:4:ILE:HB	2.03	0.41
1:JW:57:LYS:HE3	1:JW:59:ILE:HD11	2.03	0.41
1:JX:28:LEU:HB3	1:JX:58:THR:O	2.21	0.41
1:KA:10:ARG:HH21	1:NI:38:LEU:CD2	2.32	0.41
1:KJ:28:LEU:HB3	1:KJ:58:THR:O	2.21	0.41
1:KL:15:ASP:O	1:KL:35:VAL:HA	2.21	0.41
1:KP:28:LEU:HB3	1:KP:58:THR:O	2.21	0.41
1:KW:10:ARG:HD2	1:KY:38:LEU:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KX:57:LYS:HE3	1:KX:59:ILE:HD11	2.03	0.41
1:LF:123:ILE:HG13	1:LG:4:ILE:HB	2.03	0.41
1:LI:123:ILE:HG13	1:LJ:4:ILE:HB	2.03	0.41
1:LS:15:ASP:O	1:LS:35:VAL:HA	2.21	0.41
1:LT:28:LEU:HB3	1:LT:58:THR:O	2.21	0.41
1:MJ:10:ARG:HH22	1:ML:15:ASP:HA	1.83	0.41
1:MM:7:PHE:HD1	1:MN:120:LYS:HD3	1.85	0.41
1:MP:80:SER:HB2	1:MQ:74:VAL:CG2	2.48	0.41
1:MP:82:PRO:HD2	1:MP:85:THR:HG21	2.02	0.41
1:NC:35:VAL:HG22	1:NC:52:MET:HB2	2.02	0.41
1:NI:15:ASP:O	1:NI:35:VAL:HA	2.21	0.41
1:AI:28:LEU:HB3	1:AI:58:THR:O	2.21	0.40
1:AK:15:ASP:O	1:AK:35:VAL:HA	2.21	0.40
1:AN:15:ASP:O	1:AN:35:VAL:HA	2.21	0.40
1:AO:8:LYS:HA	1:AO:19:PHE:CD1	2.55	0.40
1:AQ:15:ASP:O	1:AQ:35:VAL:HA	2.21	0.40
1:AR:116:TYR:CE1	1:EB:9:LEU:HA	2.56	0.40
1:AT:57:LYS:HE3	1:AT:59:ILE:HD11	2.03	0.40
1:AW:35:VAL:HG22	1:AW:52:MET:HB2	2.02	0.40
1:AX:90:ARG:HA	1:AX:93:VAL:HG22	2.02	0.40
1:AY:82:PRO:HD2	1:AY:85:THR:HG21	2.02	0.40
1:BD:28:LEU:HB3	1:BD:58:THR:O	2.21	0.40
1:BL:15:ASP:O	1:BL:35:VAL:HA	2.21	0.40
1:BS:28:LEU:HB3	1:BS:58:THR:O	2.21	0.40
1:BT:10:ARG:HH22	1:BV:15:ASP:HA	1.83	0.40
1:BV:28:LEU:HB3	1:BV:58:THR:O	2.21	0.40
1:CF:82:PRO:HD2	1:CF:85:THR:HG21	2.02	0.40
1:CI:7:PHE:HD1	1:CJ:120:LYS:HD3	1.85	0.40
1:CI:10:ARG:HH22	1:CK:15:ASP:HA	1.83	0.40
1:CO:7:PHE:HD1	1:CP:120:LYS:HD3	1.85	0.40
1:CP:39:PRO:CD	1:CP:49:VAL:HG12	2.47	0.40
1:CY:35:VAL:HG22	1:CY:52:MET:HB2	2.02	0.40
1:DB:57:LYS:HE3	1:DB:59:ILE:HD11	2.03	0.40
1:DN:57:LYS:HE3	1:DN:59:ILE:HD11	2.03	0.40
1:DV:99:SER:OG	1:DV:124:GLU:O	2.20	0.40
1:DW:15:ASP:O	1:DW:35:VAL:HA	2.21	0.40
1:DW:57:LYS:HE3	1:DW:59:ILE:HD11	2.03	0.40
1:ED:28:LEU:HB3	1:ED:58:THR:O	2.21	0.40
1:EI:15:ASP:O	1:EI:35:VAL:HA	2.21	0.40
1:EM:28:LEU:HB3	1:EM:58:THR:O	2.21	0.40
1:EN:10:ARG:HH22	1:EP:15:ASP:HA	1.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EO:57:LYS:HE3	1:EO:59:ILE:HD11	2.03	0.40
1:EO:101:LEU:HD23	1:EO:101:LEU:HA	1.94	0.40
1:ER:57:LYS:HE3	1:ER:59:ILE:HD11	2.03	0.40
1:EU:57:LYS:HE3	1:EU:59:ILE:HD11	2.03	0.40
1:EZ:126:LEU:HD23	1:EZ:126:LEU:HA	1.85	0.40
1:FC:123:ILE:HG13	1:FD:4:ILE:HB	2.03	0.40
1:FU:123:ILE:HG13	1:FV:4:ILE:HB	2.03	0.40
1:FX:82:PRO:HD2	1:FX:85:THR:HG21	2.02	0.40
1:GM:7:PHE:HD1	1:GN:120:LYS:HD3	1.85	0.40
1:GT:101:LEU:HD23	1:GT:101:LEU:HA	1.94	0.40
1:GY:123:ILE:HG13	1:GZ:4:ILE:HB	2.03	0.40
1:HB:7:PHE:HD1	1:HC:120:LYS:HD3	1.85	0.40
1:HN:10:ARG:HD2	1:HP:38:LEU:HD11	2.01	0.40
1:HO:101:LEU:HD23	1:HO:101:LEU:HA	1.93	0.40
1:IB:28:LEU:HB3	1:IB:58:THR:O	2.21	0.40
1:IC:123:ILE:HG13	1:ID:4:ILE:HB	2.04	0.40
1:IE:8:LYS:HB2	1:LQ:119:ASP:O	2.21	0.40
1:IE:57:LYS:HZ3	1:LQ:92:GLU:CD	2.24	0.40
1:IG:39:PRO:CD	1:IG:49:VAL:HG12	2.47	0.40
1:IP:15:ASP:O	1:IP:35:VAL:HA	2.21	0.40
1:IP:57:LYS:HE3	1:IP:59:ILE:HD11	2.03	0.40
1:IV:9:LEU:CG	1:IV:10:ARG:H	2.30	0.40
1:IV:57:LYS:HE3	1:IV:59:ILE:HD11	2.03	0.40
1:IZ:82:PRO:HD2	1:IZ:85:THR:HG21	2.01	0.40
1:JC:28:LEU:HB3	1:JC:58:THR:O	2.22	0.40
1:JE:15:ASP:O	1:JE:35:VAL:HA	2.21	0.40
1:JF:6:ILE:HB	1:MR:121:TYR:HB2	2.03	0.40
1:JH:15:ASP:O	1:JH:35:VAL:HA	2.21	0.40
1:JH:57:LYS:HE3	1:JH:59:ILE:HD11	2.03	0.40
1:JN:35:VAL:HG22	1:JN:52:MET:HB2	2.02	0.40
1:JN:39:PRO:CD	1:JN:49:VAL:HG12	2.47	0.40
1:JS:82:PRO:HD2	1:JS:85:THR:HG21	2.02	0.40
1:JT:15:ASP:O	1:JT:35:VAL:HA	2.21	0.40
1:JV:80:SER:HB2	1:JW:74:VAL:CG2	2.48	0.40
1:JZ:57:LYS:HE3	1:JZ:59:ILE:HD11	2.03	0.40
1:KA:90:ARG:NH2	1:NM:113:TYR:CD1	2.89	0.40
1:KF:57:LYS:HE3	1:KF:59:ILE:HD11	2.03	0.40
1:KI:15:ASP:O	1:KI:35:VAL:HA	2.21	0.40
1:KI:39:PRO:CD	1:KI:49:VAL:HG12	2.47	0.40
1:KM:90:ARG:HA	1:KM:93:VAL:HG22	2.02	0.40
1:KW:7:PHE:HD1	1:KX:120:LYS:HD3	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KW:123:ILE:HG13	1:KX:4:ILE:HB	2.04	0.40
1:KX:15:ASP:O	1:KX:35:VAL:HA	2.21	0.40
1:LC:123:ILE:HG13	1:LD:4:ILE:HB	2.03	0.40
1:LL:123:ILE:HG13	1:LM:4:ILE:HB	2.03	0.40
1:LY:57:LYS:HE3	1:LY:59:ILE:HD11	2.03	0.40
1:MJ:126:LEU:HA	1:MJ:126:LEU:HD23	1.85	0.40
1:MR:28:LEU:HB3	1:MR:58:THR:O	2.21	0.40
1:MU:28:LEU:HB3	1:MU:58:THR:O	2.21	0.40
1:MV:10:ARG:HD2	1:MX:38:LEU:HD11	2.01	0.40
1:NF:57:LYS:HE3	1:NF:59:ILE:HD11	2.03	0.40
1:NG:8:LYS:HA	1:NG:19:PHE:CD1	2.55	0.40
1:NJ:28:LEU:HB3	1:NJ:58:THR:O	2.21	0.40
1:NL:35:VAL:HG22	1:NL:52:MET:HB2	2.02	0.40
1:NP:90:ARG:HA	1:NP:93:VAL:HG22	2.02	0.40
1:NQ:123:ILE:HG13	1:NR:4:ILE:HB	2.03	0.40
1:NR:15:ASP:O	1:NR:35:VAL:HA	2.21	0.40
1:NT:123:ILE:HG13	1:NU:4:ILE:HB	2.03	0.40
1:AF:57:LYS:HZ3	1:DR:92:GLU:CD	2.24	0.40
1:AG:123:ILE:HG13	1:AH:4:ILE:HB	2.04	0.40
1:AJ:42:ARG:HB3	1:AJ:45:ASN:HB3	2.02	0.40
1:AO:74:VAL:CG2	1:EA:80:SER:HB2	2.50	0.40
1:AS:80:SER:HB2	1:AT:74:VAL:CG2	2.48	0.40
1:AT:15:ASP:O	1:AT:35:VAL:HA	2.21	0.40
1:BD:49:VAL:HG11	1:EP:112:ALA:O	2.21	0.40
1:BN:42:ARG:HB3	1:BN:45:ASN:HB3	2.02	0.40
1:BQ:123:ILE:HG13	1:BR:4:ILE:HB	2.03	0.40
1:CC:42:ARG:HB3	1:CC:45:ASN:HB3	2.02	0.40
1:CC:123:ILE:HG13	1:CD:4:ILE:HB	2.03	0.40
1:CE:28:LEU:HB3	1:CE:58:THR:O	2.22	0.40
1:CF:42:ARG:HB3	1:CF:45:ASN:HB3	2.02	0.40
1:CG:101:LEU:HD23	1:CG:101:LEU:HA	1.94	0.40
1:CQ:28:LEU:HB3	1:CQ:58:THR:O	2.21	0.40
1:DA:123:ILE:HG13	1:DB:4:ILE:HB	2.03	0.40
1:DE:15:ASP:O	1:DE:35:VAL:HA	2.21	0.40
1:DO:28:LEU:HB3	1:DO:58:THR:O	2.21	0.40
1:EK:123:ILE:HG13	1:EL:4:ILE:HB	2.04	0.40
1:EU:10:ARG:NH1	1:FF:38:LEU:HB2	2.36	0.40
1:FD:57:LYS:HE3	1:FD:59:ILE:HD11	2.03	0.40
1:FM:57:LYS:HE3	1:FM:59:ILE:HD11	2.03	0.40
1:FO:80:SER:HB2	1:FP:74:VAL:CG2	2.48	0.40
1:FU:42:ARG:HB3	1:FU:45:ASN:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FV:15:ASP:O	1:FV:35:VAL:HA	2.21	0.40
1:GK:15:ASP:O	1:GK:35:VAL:HA	2.21	0.40
1:GM:80:SER:HB2	1:GN:74:VAL:CG2	2.48	0.40
1:GM:123:ILE:HG13	1:GN:4:ILE:HB	2.03	0.40
1:GN:57:LYS:HE3	1:GN:59:ILE:HD11	2.03	0.40
1:HJ:82:PRO:HD2	1:HJ:85:THR:HG21	2.01	0.40
1:HO:57:LYS:HE3	1:HO:59:ILE:HD11	2.03	0.40
1:HR:15:ASP:O	1:HR:35:VAL:HA	2.21	0.40
1:HT:10:ARG:HD2	1:HV:38:LEU:HD11	2.02	0.40
1:HT:82:PRO:HD2	1:HT:85:THR:HG21	2.02	0.40
1:HT:123:ILE:HG13	1:HU:4:ILE:HB	2.03	0.40
1:IC:7:PHE:HD1	1:ID:120:LYS:HD3	1.85	0.40
1:IJ:15:ASP:O	1:IJ:35:VAL:HA	2.21	0.40
1:IM:35:VAL:HG22	1:IM:52:MET:HB2	2.02	0.40
1:IR:10:ARG:HH22	1:IT:15:ASP:HA	1.83	0.40
1:IR:123:ILE:HG13	1:IS:4:ILE:HB	2.03	0.40
1:IS:9:LEU:CG	1:IS:10:ARG:H	2.29	0.40
1:IU:42:ARG:HB3	1:IU:45:ASN:HB3	2.02	0.40
1:IV:11:GLU:OE1	1:KP:11:GLU:OE1	2.38	0.40
1:JE:101:LEU:HD23	1:JE:101:LEU:HA	1.93	0.40
1:JF:59:ILE:CD1	1:MR:89:ASP:OD2	2.69	0.40
1:JK:35:VAL:HG22	1:JK:52:MET:HB2	2.02	0.40
1:JP:123:ILE:HG13	1:JQ:4:ILE:HB	2.03	0.40
1:JQ:15:ASP:O	1:JQ:35:VAL:HA	2.21	0.40
1:JS:80:SER:HB2	1:JT:74:VAL:CG2	2.48	0.40
1:KC:57:LYS:HE3	1:KC:59:ILE:HD11	2.03	0.40
1:KE:42:ARG:HB3	1:KE:45:ASN:HB3	2.02	0.40
1:KF:35:VAL:HG22	1:KF:52:MET:HB2	2.02	0.40
1:KL:57:LYS:HE3	1:KL:59:ILE:HD11	2.03	0.40
1:KN:123:ILE:HG13	1:KO:4:ILE:HB	2.03	0.40
1:LH:28:LEU:HB3	1:LH:58:THR:O	2.21	0.40
1:LW:26:VAL:HG21	1:MG:113:TYR:O	2.21	0.40
1:LX:123:ILE:HG13	1:LY:4:ILE:HB	2.03	0.40
1:MA:7:PHE:HD1	1:MB:120:LYS:HD3	1.85	0.40
1:MD:126:LEU:HD23	1:MD:126:LEU:HA	1.85	0.40
1:MH:15:ASP:O	1:MH:35:VAL:HA	2.21	0.40
1:MJ:82:PRO:HD2	1:MJ:85:THR:HG21	2.02	0.40
1:MN:15:ASP:O	1:MN:35:VAL:HA	2.21	0.40
1:MV:7:PHE:HD1	1:MW:120:LYS:HD3	1.85	0.40
1:NP:28:LEU:HB3	1:NP:58:THR:O	2.21	0.40
1:NS:90:ARG:HA	1:NS:93:VAL:HG22	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NT:126:LEU:HD23	1:NT:126:LEU:HA	1.85	0.40
1:NU:35:VAL:HG22	1:NU:52:MET:HB2	2.02	0.40
1:AD:123:ILE:HG13	1:AE:4:ILE:HB	2.03	0.40
1:AE:57:LYS:HE3	1:AE:59:ILE:HD11	2.03	0.40
1:AV:126:LEU:HD23	1:AV:126:LEU:HA	1.85	0.40
1:BB:123:ILE:HG13	1:BC:4:ILE:HB	2.03	0.40
1:BD:90:ARG:HA	1:BD:93:VAL:HG22	2.02	0.40
1:BI:39:PRO:CD	1:BI:49:VAL:HG12	2.47	0.40
1:BM:129:THR:O	1:EY:106:LYS:NZ	2.54	0.40
1:BO:57:LYS:HE3	1:BO:59:ILE:HD11	2.03	0.40
1:BS:116:TYR:CD1	1:FC:9:LEU:HA	2.56	0.40
1:CB:28:LEU:HB3	1:CB:58:THR:O	2.21	0.40
1:CB:81:PHE:CD1	1:FN:73:ILE:HG23	2.57	0.40
1:CR:80:SER:HB2	1:CS:74:VAL:CG2	2.48	0.40
1:CS:15:ASP:O	1:CS:35:VAL:HA	2.21	0.40
1:CV:57:LYS:HE3	1:CV:59:ILE:HD11	2.03	0.40
1:CV:113:TYR:O	1:GN:26:VAL:HG21	2.21	0.40
1:CW:89:ASP:OD2	1:GI:59:ILE:HD12	2.22	0.40
1:CW:104:GLU:OE1	1:GI:53:ARG:NH1	2.42	0.40
1:DA:42:ARG:HB3	1:DA:45:ASN:HB3	2.02	0.40
1:DF:28:LEU:HB3	1:DF:58:THR:O	2.21	0.40
1:EC:35:VAL:HG22	1:EC:52:MET:HB2	2.02	0.40
1:EI:35:VAL:HG22	1:EI:52:MET:HB2	2.02	0.40
1:EN:82:PRO:HD2	1:EN:85:THR:HG21	2.02	0.40
1:EZ:10:ARG:HD2	1:FB:38:LEU:HD11	2.01	0.40
1:FB:20:THR:OG1	1:FL:116:TYR:OH	2.10	0.40
1:FC:126:LEU:HD23	1:FC:126:LEU:HA	1.85	0.40
1:FG:15:ASP:O	1:FG:35:VAL:HA	2.21	0.40
1:FP:57:LYS:HE3	1:FP:59:ILE:HD11	2.03	0.40
1:FT:28:LEU:HB3	1:FT:58:THR:O	2.21	0.40
1:GD:123:ILE:HG13	1:GE:4:ILE:HB	2.03	0.40
1:GE:57:LYS:HE3	1:GE:59:ILE:HD11	2.03	0.40
1:GG:42:ARG:HB3	1:GG:45:ASN:HB3	2.02	0.40
1:GS:123:ILE:HG13	1:GT:4:ILE:HB	2.03	0.40
1:GX:28:LEU:HB3	1:GX:58:THR:O	2.21	0.40
1:HA:88:GLU:H	1:HA:88:GLU:HG3	1.69	0.40
1:HI:15:ASP:O	1:HI:35:VAL:HA	2.21	0.40
1:HK:123:ILE:HG13	1:HL:4:ILE:HB	2.04	0.40
1:HO:35:VAL:HG22	1:HO:52:MET:HB2	2.02	0.40
1:HP:28:LEU:HB3	1:HP:58:THR:O	2.21	0.40
1:HT:80:SER:HB2	1:HU:74:VAL:CG2	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HW:42:ARG:HB3	1:HW:45:ASN:HB3	2.02	0.40
1:HZ:42:ARG:HB3	1:HZ:45:ASN:HB3	2.02	0.40
1:IB:112:ALA:O	1:LN:49:VAL:CG1	2.67	0.40
1:IH:28:LEU:HB3	1:IH:58:THR:O	2.21	0.40
1:IH:74:VAL:CG2	1:LT:80:SER:HB2	2.50	0.40
1:II:126:LEU:HD23	1:II:126:LEU:HA	1.85	0.40
1:IS:39:PRO:CD	1:IS:49:VAL:HG12	2.47	0.40
1:IU:99:SER:OG	1:IU:124:GLU:O	2.20	0.40
1:JB:39:PRO:CD	1:JB:49:VAL:HG12	2.47	0.40
1:JF:10:ARG:HH21	1:JK:38:LEU:CD2	2.34	0.40
1:JG:42:ARG:HB3	1:JG:45:ASN:HB3	2.02	0.40
1:JG:123:ILE:HG13	1:JH:4:ILE:HB	2.03	0.40
1:JI:28:LEU:HB3	1:JI:58:THR:O	2.21	0.40
1:JO:28:LEU:HB3	1:JO:58:THR:O	2.21	0.40
1:JR:28:LEU:HB3	1:JR:58:THR:O	2.21	0.40
1:JR:57:LYS:NZ	1:ND:92:GLU:OE2	2.50	0.40
1:JZ:39:PRO:CD	1:JZ:49:VAL:HG12	2.47	0.40
1:KF:15:ASP:O	1:KF:35:VAL:HA	2.21	0.40
1:KI:35:VAL:HG22	1:KI:52:MET:HB2	2.02	0.40
1:KO:15:ASP:O	1:KO:35:VAL:HA	2.21	0.40
1:KT:123:ILE:HG13	1:KU:4:ILE:HB	2.03	0.40
1:LC:42:ARG:HB3	1:LC:45:ASN:HB3	2.02	0.40
1:LO:123:ILE:HG13	1:LP:4:ILE:HB	2.04	0.40
1:LO:126:LEU:HD23	1:LO:126:LEU:HA	1.85	0.40
1:LZ:10:ARG:HH21	1:MK:38:LEU:HD22	1.86	0.40
1:MJ:123:ILE:HG13	1:MK:4:ILE:HB	2.03	0.40
1:MM:42:ARG:HB3	1:MM:45:ASN:HB3	2.02	0.40
1:MY:42:ARG:HB3	1:MY:45:ASN:HB3	2.02	0.40
1:NQ:7:PHE:HD1	1:NR:120:LYS:HD3	1.85	0.40
1:NS:28:LEU:HB3	1:NS:58:THR:O	2.21	0.40
1:AM:123:ILE:HG13	1:AN:4:ILE:HB	2.03	0.40
1:AV:123:ILE:HG13	1:AW:4:ILE:HB	2.03	0.40
1:AZ:15:ASP:O	1:AZ:35:VAL:HA	2.21	0.40
1:BA:59:ILE:HD12	1:EM:89:ASP:OD2	2.21	0.40
1:BE:123:ILE:HG13	1:BF:4:ILE:HB	2.04	0.40
1:BF:101:LEU:HD23	1:BF:101:LEU:HA	1.94	0.40
1:BM:28:LEU:HB3	1:BM:58:THR:O	2.21	0.40
1:BT:123:ILE:HG13	1:BU:4:ILE:HB	2.03	0.40
1:CA:15:ASP:O	1:CA:35:VAL:HA	2.21	0.40
1:CA:39:PRO:CD	1:CA:49:VAL:HG12	2.47	0.40
1:CG:15:ASP:O	1:CG:35:VAL:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:28:LEU:HB3	1:CK:58:THR:O	2.21	0.40
1:CN:28:LEU:HB3	1:CN:58:THR:O	2.21	0.40
1:DL:88:GLU:H	1:DL:88:GLU:HG3	1.69	0.40
1:DV:42:ARG:HB3	1:DV:45:ASN:HB3	2.02	0.40
1:DV:123:ILE:HG13	1:DW:4:ILE:HB	2.03	0.40
1:DY:123:ILE:HG13	1:DZ:4:ILE:HB	2.03	0.40
1:EJ:28:LEU:HB3	1:EJ:58:THR:O	2.21	0.40
1:ET:10:ARG:HH22	1:EV:15:ASP:HA	1.83	0.40
1:EW:80:SER:HB2	1:EX:74:VAL:CG2	2.48	0.40
1:FJ:57:LYS:HE3	1:FJ:59:ILE:HD11	2.03	0.40
1:FN:28:LEU:HB3	1:FN:58:THR:O	2.21	0.40
1:FT:26:VAL:CG2	1:GP:114:SER:HA	2.51	0.40
1:FZ:88:GLU:H	1:FZ:88:GLU:HG3	1.69	0.40
1:GA:10:ARG:HH22	1:GC:15:ASP:HA	1.83	0.40
1:GJ:123:ILE:HG13	1:GK:4:ILE:HB	2.03	0.40
1:GN:15:ASP:O	1:GN:35:VAL:HA	2.21	0.40
1:HE:123:ILE:HG13	1:HF:4:ILE:HB	2.03	0.40
1:HQ:10:ARG:HH22	1:HS:15:ASP:HA	1.83	0.40
1:HV:28:LEU:HB3	1:HV:58:THR:O	2.21	0.40
1:HX:57:LYS:HE3	1:HX:59:ILE:HD11	2.03	0.40
1:HZ:123:ILE:HG13	1:IA:4:ILE:HB	2.03	0.40
1:IL:7:PHE:HD1	1:IM:120:LYS:HD3	1.85	0.40
1:IO:10:ARG:HH22	1:IQ:15:ASP:HA	1.83	0.40
1:IO:80:SER:HB2	1:IP:74:VAL:CG2	2.48	0.40
1:IO:123:ILE:HG13	1:IP:4:ILE:HB	2.04	0.40
1:IQ:28:LEU:HB3	1:IQ:58:THR:O	2.21	0.40
1:IR:80:SER:HB2	1:IS:74:VAL:CG2	2.48	0.40
1:IU:123:ILE:HG13	1:IV:4:ILE:HB	2.03	0.40
1:JD:10:ARG:HH22	1:JF:15:ASP:HA	1.83	0.40
1:JD:123:ILE:HG13	1:JE:4:ILE:HB	2.03	0.40
1:KU:15:ASP:O	1:KU:35:VAL:HA	2.21	0.40
1:LF:10:ARG:HH22	1:LH:15:ASP:HA	1.83	0.40
1:LG:101:LEU:HD23	1:LG:101:LEU:HA	1.94	0.40
1:LJ:38:LEU:CD2	1:LQ:10:ARG:HH21	2.33	0.40
1:LO:42:ARG:HB3	1:LO:45:ASN:HB3	2.02	0.40
1:MC:28:LEU:HB3	1:MC:58:THR:O	2.21	0.40
1:MD:42:ARG:HB3	1:MD:45:ASN:HB3	2.02	0.40
1:MD:123:ILE:HG13	1:ME:4:ILE:HB	2.03	0.40
1:MO:28:LEU:HB3	1:MO:58:THR:O	2.21	0.40
1:MS:38:LEU:HB2	1:NR:10:ARG:HH11	1.87	0.40
1:MX:28:LEU:HB3	1:MX:58:THR:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MY:123:ILE:HG13	1:MZ:4:ILE:HB	2.03	0.40
1:MZ:15:ASP:O	1:MZ:35:VAL:HA	2.21	0.40
1:NH:123:ILE:HG13	1:NI:4:ILE:HB	2.03	0.40
1:NI:57:LYS:HE3	1:NI:59:ILE:HD11	2.03	0.40
1:NJ:88:GLU:H	1:NJ:88:GLU:HG3	1.69	0.40
1:NN:7:PHE:HD1	1:NO:120:LYS:HD3	1.85	0.40
1:NO:39:PRO:CD	1:NO:49:VAL:HG12	2.47	0.40
1:NU:101:LEU:HD23	1:NU:101:LEU:HA	1.93	0.40
1:AF:28:LEU:HB3	1:AF:58:THR:O	2.21	0.40
1:AK:57:LYS:HE3	1:AK:59:ILE:HD11	2.03	0.40
1:BC:15:ASP:O	1:BC:35:VAL:HA	2.21	0.40
1:BF:35:VAL:HG22	1:BF:52:MET:HB2	2.02	0.40
1:BJ:28:LEU:HB3	1:BJ:58:THR:O	2.21	0.40
1:BN:80:SER:HB2	1:BO:74:VAL:CG2	2.48	0.40
1:CD:35:VAL:HG22	1:CD:52:MET:HB2	2.02	0.40
1:CH:28:LEU:HB3	1:CH:58:THR:O	2.21	0.40
1:CT:28:LEU:HB3	1:CT:58:THR:O	2.21	0.40
1:CY:15:ASP:O	1:CY:35:VAL:HA	2.21	0.40
1:CZ:28:LEU:HB3	1:CZ:58:THR:O	2.21	0.40
1:DJ:123:ILE:HG13	1:DK:4:ILE:HB	2.03	0.40
1:DN:10:ARG:HH11	1:GS:38:LEU:HB2	1.87	0.40
1:DP:123:ILE:HG13	1:DQ:4:ILE:HB	2.03	0.40
1:DQ:26:VAL:HG21	1:GW:113:TYR:O	2.22	0.40
1:DT:15:ASP:O	1:DT:35:VAL:HA	2.21	0.40
1:DX:28:LEU:HB3	1:DX:58:THR:O	2.21	0.40
1:DZ:39:PRO:CD	1:DZ:49:VAL:HG12	2.47	0.40
1:ET:42:ARG:HB3	1:ET:45:ASN:HB3	2.02	0.40
1:EW:123:ILE:HG13	1:EX:4:ILE:HB	2.03	0.40
1:FW:28:LEU:HB3	1:FW:58:THR:O	2.21	0.40
1:GP:42:ARG:HB3	1:GP:45:ASN:HB3	2.02	0.40
1:GR:88:GLU:H	1:GR:88:GLU:HG3	1.69	0.40
1:HM:57:LYS:NZ	1:KY:92:GLU:OE2	2.45	0.40
1:HM:90:ARG:HA	1:HM:93:VAL:HG22	2.02	0.40
1:II:42:ARG:HB3	1:II:45:ASN:HB3	2.02	0.40
1:IJ:35:VAL:HG22	1:IJ:52:MET:HB2	2.02	0.40
1:JL:129:THR:O	1:MX:106:LYS:NZ	2.55	0.40
1:JR:106:LYS:NZ	1:ND:129:THR:O	2.54	0.40
1:JW:35:VAL:HG22	1:JW:52:MET:HB2	2.02	0.40
1:JZ:15:ASP:O	1:JZ:35:VAL:HA	2.21	0.40
1:KA:90:ARG:NH2	1:NM:113:TYR:CG	2.90	0.40
1:KB:10:ARG:HH22	1:KD:15:ASP:HA	1.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:123:ILE:HG13	1:KF:4:ILE:HB	2.03	0.40
1:KG:92:GLU:CD	1:NS:57:LYS:NZ	2.69	0.40
1:KM:28:LEU:HB3	1:KM:58:THR:O	2.21	0.40
1:KQ:42:ARG:HB3	1:KQ:45:ASN:HB3	2.02	0.40
1:KQ:123:ILE:HG13	1:KR:4:ILE:HB	2.03	0.40
1:LU:7:PHE:HD1	1:LV:120:LYS:HD3	1.85	0.40
1:MA:123:ILE:HG13	1:MB:4:ILE:HB	2.03	0.40
1:MB:15:ASP:O	1:MB:35:VAL:HA	2.21	0.40
1:MM:123:ILE:HG13	1:MN:4:ILE:HB	2.03	0.40
1:MQ:15:ASP:O	1:MQ:35:VAL:HA	2.21	0.40
1:MV:10:ARG:HH22	1:MX:15:ASP:HA	1.83	0.40
1:MW:15:ASP:O	1:MW:35:VAL:HA	2.21	0.40
1:NC:57:LYS:HE3	1:NC:59:ILE:HD11	2.03	0.40
1:NF:15:ASP:O	1:NF:35:VAL:HA	2.21	0.40
1:NI:101:LEU:HD23	1:NI:101:LEU:HA	1.94	0.40
1:NK:123:ILE:HG13	1:NL:4:ILE:HB	2.04	0.40
1:NO:57:LYS:HE3	1:NO:59:ILE:HD11	2.03	0.40
1:NV:28:LEU:HB3	1:NV:58:THR:O	2.21	0.40

All (112) 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:FN:88:GLU:CG	1:NV:1:SER:N[1_545]	1.02	1.18
1:BS:130:GLU:CD	1:KS:1:SER:O[1_554]	1.07	1.13
1:GC:129:THR:CG2	1:IN:3:PRO:CG[1_454]	1.08	1.12
1:BS:129:THR:O	1:KS:2:LYS:NZ[1_554]	1.12	1.08
1:CS:130:GLU:CD	1:EE:1:SER:OG[1_455]	1.14	1.06
1:FN:88:GLU:CD	1:NV:1:SER:OG[1_545]	1.20	1.00
1:CS:130:GLU:OE2	1:EE:1:SER:CA[1_455]	1.23	0.97
1:GC:88:GLU:OE1	1:IN:129:THR:N[1_454]	1.23	0.97
1:BS:130:GLU:CG	1:KS:1:SER:O[1_554]	1.24	0.96
1:CS:130:GLU:OE2	1:EE:1:SER:C[1_455]	1.25	0.95
1:EO:2:LYS:CD	1:JF:130:GLU:CB[1_544]	1.25	0.95
1:BR:88:GLU:OE2	1:KQ:1:SER:O[1_554]	1.29	0.91
1:CM:129:THR:OG1	1:LF:122:PHE:CZ[1_455]	1.29	0.91
1:BS:130:GLU:CB	1:KS:1:SER:C[1_554]	1.32	0.88
1:DT:88:GLU:CB	1:IP:130:GLU:OE2[1_445]	1.33	0.87
1:CM:129:THR:OG1	1:LF:122:PHE:CE1[1_455]	1.40	0.80
1:GC:129:THR:CB	1:IN:3:PRO:CG[1_454]	1.40	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FN:87:GLU:OE1	1:NV:2:LYS:NZ[1_545]	1.42	0.78
1:BS:130:GLU:OE1	1:KS:1:SER:O[1_554]	1.44	0.76
1:EI:3:PRO:CG	1:JK:127:VAL:CG1[1_544]	1.45	0.75
1:DK:2:LYS:NZ	1:IL:108:ASN:ND2[1_454]	1.46	0.74
1:FN:88:GLU:CG	1:NV:1:SER:CA[1_545]	1.46	0.74
1:GR:3:PRO:CG	1:LB:130:GLU:O[1_445]	1.47	0.73
1:CS:130:GLU:OE2	1:EE:1:SER:CB[1_455]	1.48	0.72
1:FN:88:GLU:OE1	1:NV:1:SER:OG[1_545]	1.51	0.69
1:BS:130:GLU:CB	1:KS:2:LYS:N[1_554]	1.52	0.68
1:CM:130:GLU:OXT	1:LG:7:PHE:CZ[1_455]	1.53	0.67
1:EO:2:LYS:CG	1:JF:130:GLU:OE1[1_544]	1.53	0.67
1:EO:2:LYS:CD	1:JF:130:GLU:CA[1_544]	1.56	0.64
1:GC:129:THR:CB	1:IN:3:PRO:CD[1_454]	1.56	0.64
1:IK:130:GLU:CG	1:NR:2:LYS:CD[1_545]	1.61	0.59
1:BR:88:GLU:OE2	1:KQ:1:SER:C[1_554]	1.62	0.58
1:JC:130:GLU:CG	1:LS:2:LYS:CD[1_455]	1.62	0.58
1:ID:129:THR:OG1	1:KK:122:PHE:CE1[1_545]	1.63	0.57
1:BR:88:GLU:OE2	1:KQ:2:LYS:CA[1_554]	1.66	0.54
1:BS:130:GLU:CB	1:KS:1:SER:O[1_554]	1.68	0.52
1:CS:130:GLU:OE1	1:EE:1:SER:OG[1_455]	1.69	0.51
1:EO:2:LYS:NZ	1:MR:106:LYS:NZ[1_544]	1.70	0.50
1:EO:2:LYS:CG	1:JF:130:GLU:CB[1_544]	1.72	0.48
1:FN:87:GLU:OE1	1:NV:2:LYS:CE[1_545]	1.72	0.48
1:GC:88:GLU:OE2	1:IN:128:ILE:CG2[1_454]	1.74	0.46
1:IK:130:GLU:CG	1:NR:2:LYS:CE[1_545]	1.74	0.46
1:BR:88:GLU:OE2	1:KQ:2:LYS:N[1_554]	1.76	0.44
1:BR:88:GLU:CD	1:KQ:2:LYS:CA[1_554]	1.76	0.44
1:CS:130:GLU:CG	1:EE:1:SER:OG[1_455]	1.76	0.44
1:CM:130:GLU:OXT	1:LG:7:PHE:CE1[1_455]	1.77	0.43
1:CS:130:GLU:OE2	1:EE:1:SER:OG[1_455]	1.77	0.43
1:GC:88:GLU:O	1:IN:130:GLU:O[1_454]	1.77	0.43
1:BS:129:THR:C	1:KS:2:LYS:NZ[1_554]	1.78	0.42
1:FM:124:GLU:OE2	1:KO:88:GLU:OE2[1_545]	1.78	0.42
1:DK:2:LYS:CE	1:IL:108:ASN:ND2[1_454]	1.80	0.40
1:GC:129:THR:OG1	1:IN:3:PRO:CG[1_454]	1.81	0.39
1:BS:130:GLU:N	1:KS:2:LYS:CG[1_554]	1.82	0.38
1:FN:88:GLU:OE2	1:NV:1:SER:OG[1_545]	1.83	0.37
1:GC:129:THR:CG2	1:IN:3:PRO:CD[1_454]	1.84	0.36
1:GR:3:PRO:CD	1:LB:130:GLU:CB[1_445]	1.84	0.36
1:GR:2:LYS:CG	1:LB:130:GLU:OE1[1_445]	1.85	0.35
1:BL:2:LYS:CD	1:GU:130:GLU:OE1[1_545]	1.86	0.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GC:88:GLU:CD	1:IN:129:THR:N[1_454]	1.86	0.34
1:IC:1:SER:O	1:KL:130:GLU:OE2[1_545]	1.86	0.34
1:JC:130:GLU:CG	1:LS:2:LYS:CG[1_455]	1.86	0.34
1:CS:130:GLU:OE2	1:EE:1:SER:O[1_455]	1.88	0.32
1:JP:1:SER:C	1:LD:130:GLU:OE2[1_455]	1.89	0.31
1:EO:2:LYS:CG	1:JF:130:GLU:CD[1_544]	1.91	0.29
1:FN:88:GLU:CB	1:NV:1:SER:N[1_545]	1.91	0.29
1:BS:129:THR:OG1	1:KS:2:LYS:CE[1_554]	1.92	0.28
1:FN:88:GLU:CG	1:NV:1:SER:CB[1_545]	1.92	0.28
1:CS:130:GLU:CD	1:EE:1:SER:CB[1_455]	1.93	0.27
1:FN:88:GLU:CD	1:NV:1:SER:CB[1_545]	1.94	0.26
1:ID:129:THR:OG1	1:KK:122:PHE:CZ[1_545]	1.95	0.25
1:EH:124:GLU:OE2	1:JJ:1:SER:OG[1_544]	1.96	0.24
1:JQ:129:THR:OG1	1:LC:122:PHE:CZ[1_455]	1.97	0.23
1:CR:122:PHE:CZ	1:EF:130:GLU:OXT[1_455]	1.98	0.22
1:DS:107:ASN:OD1	1:LB:2:LYS:CE[1_445]	1.99	0.21
1:BS:130:GLU:CG	1:KS:1:SER:C[1_554]	2.00	0.20
1:GC:88:GLU:OE1	1:IN:129:THR:CA[1_454]	2.02	0.18
1:JP:2:LYS:N	1:LD:130:GLU:OE2[1_455]	2.02	0.18
1:IK:130:GLU:OE2	1:NR:2:LYS:CE[1_545]	2.04	0.16
1:ED:129:THR:O	1:NP:2:LYS:NZ[1_554]	2.05	0.15
1:FN:88:GLU:CG	1:NV:1:SER:OG[1_545]	2.05	0.15
1:BS:129:THR:OG1	1:KS:2:LYS:CD[1_554]	2.06	0.14
1:BR:88:GLU:OE2	1:KQ:2:LYS:C[1_554]	2.08	0.12
1:EO:2:LYS:CG	1:JF:130:GLU:CG[1_544]	2.09	0.11
1:JC:129:THR:CA	1:LS:2:LYS:NZ[1_455]	2.09	0.11
1:IK:130:GLU:CG	1:NR:2:LYS:NZ[1_545]	2.10	0.10
1:FM:124:GLU:CD	1:KO:88:GLU:OE2[1_545]	2.11	0.09
1:FN:88:GLU:N	1:NV:1:SER:N[1_545]	2.11	0.09
1:DS:107:ASN:OD1	1:LB:2:LYS:NZ[1_445]	2.12	0.08
1:EO:2:LYS:CE	1:JF:130:GLU:CA[1_544]	2.12	0.08
1:IK:130:GLU:CD	1:NR:2:LYS:CE[1_545]	2.12	0.08
1:BS:129:THR:C	1:KS:2:LYS:CE[1_554]	2.13	0.07
1:FN:88:GLU:CD	1:NV:1:SER:CA[1_545]	2.13	0.07
1:GC:129:THR:CG2	1:IN:3:PRO:CB[1_454]	2.13	0.07
1:JC:130:GLU:CG	1:LS:2:LYS:CE[1_455]	2.13	0.07
1:BR:88:GLU:CG	1:KQ:2:LYS:N[1_554]	2.14	0.06
1:BS:130:GLU:O	1:KS:2:LYS:CG[1_554]	2.14	0.06
1:BS:130:GLU:CB	1:KS:2:LYS:CA[1_554]	2.14	0.06
1:GC:88:GLU:OE1	1:IN:129:THR:OG1[1_454]	2.14	0.06
1:JC:1:SER:O	1:LR:88:GLU:OE2[1_455]	2.16	0.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BR:88:GLU:CD	1:KQ:2:LYS:N[1_554]	2.17	0.03
1:DT:88:GLU:CB	1:IP:130:GLU:CD[1_445]	2.17	0.03
1:EI:3:PRO:CB	1:JK:127:VAL:CG1[1_544]	2.17	0.03
1:FN:88:GLU:OE2	1:NV:1:SER:CB[1_545]	2.17	0.03
1:GC:88:GLU:OE2	1:IN:129:THR:N[1_454]	2.17	0.03
1:GC:130:GLU:CG	1:IN:2:LYS:CG[1_454]	2.17	0.03
1:BL:2:LYS:CG	1:GU:130:GLU:OE1[1_545]	2.18	0.02
1:CL:2:LYS:CE	1:LG:130:GLU:OXT[1_455]	2.18	0.02
1:DT:130:GLU:OE2	1:LB:4:ILE:CD1[1_445]	2.18	0.02
1:JQ:129:THR:OG1	1:LC:122:PHE:CE2[1_455]	2.18	0.02
1:BS:130:GLU:CA	1:KS:2:LYS:CG[1_554]	2.19	0.01
1:BS:130:GLU:OE2	1:KS:1:SER:O[1_554]	2.19	0.01
1:EO:2:LYS:NZ	1:JF:130:GLU:CA[1_544]	2.19	0.01

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	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AB	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AC	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	AD	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AE	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AF	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	AG	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AH	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AI	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	AJ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AK	128/130 (98%)	126 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AL	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	AM	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AN	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AO	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	AP	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AQ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AR	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	AS	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AT	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AU	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	AV	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AW	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AX	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	AY	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	AZ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BA	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	BB	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BC	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BD	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	BE	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BF	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BG	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	BH	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BI	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BJ	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	BK	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BL	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BM	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	BN	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BO	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BP	128/130 (98%)	125 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BQ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BR	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BS	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	BT	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BU	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BV	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	BW	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BX	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	BY	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	BZ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CA	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CB	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	CC	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CD	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CE	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	CF	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CG	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CH	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	CI	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CJ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CK	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	CL	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CM	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CN	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	CO	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CP	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CQ	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	CR	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CS	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CT	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	CU	128/130 (98%)	126 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	CV	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CW	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	CX	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CY	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	CZ	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	DA	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DB	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DC	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	DD	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DE	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DF	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	DG	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DH	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DI	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	DJ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DK	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DL	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	DM	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DN	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DO	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	DP	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DQ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DR	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	DS	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DT	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DU	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	DV	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DW	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DX	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	DY	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	DZ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	EA	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	EB	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	EC	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	ED	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	EE	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	EF	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	EG	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	EH	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	EI	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	EJ	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	EK	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	EL	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	EM	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	EN	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	EO	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	EP	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	EQ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	ER	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	ES	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	ET	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	EU	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	EV	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	EW	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	EX	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	EY	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	EZ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FA	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FB	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	FC	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FD	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FE	128/130 (98%)	125 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	FF	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FG	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FH	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	FI	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FJ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FK	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	FL	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FM	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FN	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	FO	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FP	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FQ	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	FR	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FS	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FT	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	FU	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FV	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FW	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	FX	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FY	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	FZ	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	GA	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GB	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GC	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	GD	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GE	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GF	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	GG	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GH	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GI	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	GJ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	GK	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GL	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	GM	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GN	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GO	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	GP	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GQ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GR	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	GS	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GT	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GU	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	GV	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GW	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GX	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	GY	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	GZ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HA	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	HB	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HC	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HD	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	HE	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HF	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HG	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	HH	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HI	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HJ	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	HK	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HL	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HM	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	HN	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HO	128/130 (98%)	126 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	HP	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	HQ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HR	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HS	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	HT	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HU	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HV	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	HW	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HX	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	HY	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	HZ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IA	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IB	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	IC	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	ID	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IE	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	IF	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IG	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IH	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	II	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IJ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IK	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	IL	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IM	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IN	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	IO	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IP	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IQ	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	IR	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IS	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IT	128/130 (98%)	125 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	IU	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IV	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IW	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	IX	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IY	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	IZ	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	JA	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JB	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JC	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	JD	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JE	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JF	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	JG	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JH	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JI	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	JJ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JK	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JL	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	JM	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JN	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JO	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	JP	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JQ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JR	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	JS	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JT	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JU	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	JV	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JW	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	JX	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	JY	128/130 (98%)	126 (98%)	2 (2%)	0	100	100

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	JZ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KA	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	KB	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KC	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KD	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	KE	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KF	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KG	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	KH	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KI	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KJ	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	KK	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KL	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KM	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	KN	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KO	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KP	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	KQ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KR	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KS	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	KT	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KU	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KV	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	KW	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KX	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	KY	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	KZ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LA	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LB	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	LC	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LD	128/130 (98%)	126 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	LE	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	LF	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LG	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LH	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	LI	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LJ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LK	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	LL	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LM	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LN	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	LO	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LP	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LQ	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	LR	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LS	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LT	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	LU	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LV	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LW	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	LX	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LY	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	LZ	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	MA	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MB	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MC	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	MD	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	ME	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MF	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	MG	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MH	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MI	128/130 (98%)	125 (98%)	3 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	MJ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MK	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	ML	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	MM	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MN	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MO	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	MP	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MQ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MR	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	MS	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MT	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MU	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	MV	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MW	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MX	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	MY	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	MZ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	NA	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	NB	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	NC	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	ND	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	NE	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	NF	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	NG	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	NH	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	NI	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	NJ	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	NK	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	NL	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	NM	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	NN	128/130 (98%)	126 (98%)	2 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	NO	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	NP	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	NQ	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	NR	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	NS	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
1	NT	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	NU	128/130 (98%)	126 (98%)	2 (2%)	0	100	100
1	NV	128/130 (98%)	125 (98%)	3 (2%)	0	100	100
All	All	46080/46800 (98%)	45240 (98%)	840 (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	115/115 (100%)	115 (100%)	0	100	100
1	AB	115/115 (100%)	115 (100%)	0	100	100
1	AC	115/115 (100%)	115 (100%)	0	100	100
1	AD	115/115 (100%)	115 (100%)	0	100	100
1	AE	115/115 (100%)	115 (100%)	0	100	100
1	AF	115/115 (100%)	115 (100%)	0	100	100
1	AG	115/115 (100%)	115 (100%)	0	100	100
1	AH	115/115 (100%)	115 (100%)	0	100	100
1	AI	115/115 (100%)	115 (100%)	0	100	100
1	AJ	115/115 (100%)	115 (100%)	0	100	100
1	AK	115/115 (100%)	115 (100%)	0	100	100
1	AL	115/115 (100%)	115 (100%)	0	100	100
1	AM	115/115 (100%)	115 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AN	115/115 (100%)	115 (100%)	0	100	100
1	AO	115/115 (100%)	115 (100%)	0	100	100
1	AP	115/115 (100%)	115 (100%)	0	100	100
1	AQ	115/115 (100%)	115 (100%)	0	100	100
1	AR	115/115 (100%)	115 (100%)	0	100	100
1	AS	115/115 (100%)	115 (100%)	0	100	100
1	AT	115/115 (100%)	115 (100%)	0	100	100
1	AU	115/115 (100%)	115 (100%)	0	100	100
1	AV	115/115 (100%)	115 (100%)	0	100	100
1	AW	115/115 (100%)	115 (100%)	0	100	100
1	AX	115/115 (100%)	115 (100%)	0	100	100
1	AY	115/115 (100%)	115 (100%)	0	100	100
1	AZ	115/115 (100%)	115 (100%)	0	100	100
1	BA	115/115 (100%)	115 (100%)	0	100	100
1	BB	115/115 (100%)	115 (100%)	0	100	100
1	BC	115/115 (100%)	115 (100%)	0	100	100
1	BD	115/115 (100%)	115 (100%)	0	100	100
1	BE	115/115 (100%)	115 (100%)	0	100	100
1	BF	115/115 (100%)	115 (100%)	0	100	100
1	BG	115/115 (100%)	115 (100%)	0	100	100
1	BH	115/115 (100%)	115 (100%)	0	100	100
1	BI	115/115 (100%)	115 (100%)	0	100	100
1	BJ	115/115 (100%)	115 (100%)	0	100	100
1	BK	115/115 (100%)	115 (100%)	0	100	100
1	BL	115/115 (100%)	115 (100%)	0	100	100
1	BM	115/115 (100%)	115 (100%)	0	100	100
1	BN	115/115 (100%)	115 (100%)	0	100	100
1	BO	115/115 (100%)	115 (100%)	0	100	100
1	BP	115/115 (100%)	115 (100%)	0	100	100
1	BQ	115/115 (100%)	115 (100%)	0	100	100
1	BR	115/115 (100%)	115 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	BS	115/115 (100%)	115 (100%)	0	100	100
1	BT	115/115 (100%)	115 (100%)	0	100	100
1	BU	115/115 (100%)	115 (100%)	0	100	100
1	BV	115/115 (100%)	115 (100%)	0	100	100
1	BW	115/115 (100%)	115 (100%)	0	100	100
1	BX	115/115 (100%)	115 (100%)	0	100	100
1	BY	115/115 (100%)	115 (100%)	0	100	100
1	BZ	115/115 (100%)	115 (100%)	0	100	100
1	CA	115/115 (100%)	115 (100%)	0	100	100
1	CB	115/115 (100%)	115 (100%)	0	100	100
1	CC	115/115 (100%)	115 (100%)	0	100	100
1	CD	115/115 (100%)	115 (100%)	0	100	100
1	CE	115/115 (100%)	115 (100%)	0	100	100
1	CF	115/115 (100%)	115 (100%)	0	100	100
1	CG	115/115 (100%)	115 (100%)	0	100	100
1	CH	115/115 (100%)	115 (100%)	0	100	100
1	CI	115/115 (100%)	115 (100%)	0	100	100
1	CJ	115/115 (100%)	115 (100%)	0	100	100
1	CK	115/115 (100%)	115 (100%)	0	100	100
1	CL	115/115 (100%)	115 (100%)	0	100	100
1	CM	115/115 (100%)	115 (100%)	0	100	100
1	CN	115/115 (100%)	115 (100%)	0	100	100
1	CO	115/115 (100%)	115 (100%)	0	100	100
1	CP	115/115 (100%)	115 (100%)	0	100	100
1	CQ	115/115 (100%)	115 (100%)	0	100	100
1	CR	115/115 (100%)	115 (100%)	0	100	100
1	CS	115/115 (100%)	115 (100%)	0	100	100
1	CT	115/115 (100%)	115 (100%)	0	100	100
1	CU	115/115 (100%)	115 (100%)	0	100	100
1	CV	115/115 (100%)	115 (100%)	0	100	100
1	CW	115/115 (100%)	115 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	CX	115/115 (100%)	115 (100%)	0	100	100
1	CY	115/115 (100%)	115 (100%)	0	100	100
1	CZ	115/115 (100%)	115 (100%)	0	100	100
1	DA	115/115 (100%)	115 (100%)	0	100	100
1	DB	115/115 (100%)	115 (100%)	0	100	100
1	DC	115/115 (100%)	115 (100%)	0	100	100
1	DD	115/115 (100%)	115 (100%)	0	100	100
1	DE	115/115 (100%)	115 (100%)	0	100	100
1	DF	115/115 (100%)	115 (100%)	0	100	100
1	DG	115/115 (100%)	115 (100%)	0	100	100
1	DH	115/115 (100%)	115 (100%)	0	100	100
1	DI	115/115 (100%)	115 (100%)	0	100	100
1	DJ	115/115 (100%)	115 (100%)	0	100	100
1	DK	115/115 (100%)	115 (100%)	0	100	100
1	DL	115/115 (100%)	115 (100%)	0	100	100
1	DM	115/115 (100%)	115 (100%)	0	100	100
1	DN	115/115 (100%)	115 (100%)	0	100	100
1	DO	115/115 (100%)	115 (100%)	0	100	100
1	DP	115/115 (100%)	115 (100%)	0	100	100
1	DQ	115/115 (100%)	115 (100%)	0	100	100
1	DR	115/115 (100%)	115 (100%)	0	100	100
1	DS	115/115 (100%)	115 (100%)	0	100	100
1	DT	115/115 (100%)	115 (100%)	0	100	100
1	DU	115/115 (100%)	115 (100%)	0	100	100
1	DV	115/115 (100%)	115 (100%)	0	100	100
1	DW	115/115 (100%)	115 (100%)	0	100	100
1	DX	115/115 (100%)	115 (100%)	0	100	100
1	DY	115/115 (100%)	115 (100%)	0	100	100
1	DZ	115/115 (100%)	115 (100%)	0	100	100
1	EA	115/115 (100%)	115 (100%)	0	100	100
1	EB	115/115 (100%)	115 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	EC	115/115 (100%)	115 (100%)	0	100	100
1	ED	115/115 (100%)	115 (100%)	0	100	100
1	EE	115/115 (100%)	115 (100%)	0	100	100
1	EF	115/115 (100%)	115 (100%)	0	100	100
1	EG	115/115 (100%)	115 (100%)	0	100	100
1	EH	115/115 (100%)	115 (100%)	0	100	100
1	EI	115/115 (100%)	115 (100%)	0	100	100
1	EJ	115/115 (100%)	115 (100%)	0	100	100
1	EK	115/115 (100%)	115 (100%)	0	100	100
1	EL	115/115 (100%)	115 (100%)	0	100	100
1	EM	115/115 (100%)	115 (100%)	0	100	100
1	EN	115/115 (100%)	115 (100%)	0	100	100
1	EO	115/115 (100%)	115 (100%)	0	100	100
1	EP	115/115 (100%)	115 (100%)	0	100	100
1	EQ	115/115 (100%)	115 (100%)	0	100	100
1	ER	115/115 (100%)	115 (100%)	0	100	100
1	ES	115/115 (100%)	115 (100%)	0	100	100
1	ET	115/115 (100%)	115 (100%)	0	100	100
1	EU	115/115 (100%)	115 (100%)	0	100	100
1	EV	115/115 (100%)	115 (100%)	0	100	100
1	EW	115/115 (100%)	115 (100%)	0	100	100
1	EX	115/115 (100%)	115 (100%)	0	100	100
1	EY	115/115 (100%)	115 (100%)	0	100	100
1	EZ	115/115 (100%)	115 (100%)	0	100	100
1	FA	115/115 (100%)	115 (100%)	0	100	100
1	FB	115/115 (100%)	115 (100%)	0	100	100
1	FC	115/115 (100%)	115 (100%)	0	100	100
1	FD	115/115 (100%)	115 (100%)	0	100	100
1	FE	115/115 (100%)	115 (100%)	0	100	100
1	FF	115/115 (100%)	115 (100%)	0	100	100
1	FG	115/115 (100%)	115 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	FH	115/115 (100%)	115 (100%)	0	100	100
1	FI	115/115 (100%)	115 (100%)	0	100	100
1	FJ	115/115 (100%)	115 (100%)	0	100	100
1	FK	115/115 (100%)	115 (100%)	0	100	100
1	FL	115/115 (100%)	115 (100%)	0	100	100
1	FM	115/115 (100%)	115 (100%)	0	100	100
1	FN	115/115 (100%)	115 (100%)	0	100	100
1	FO	115/115 (100%)	115 (100%)	0	100	100
1	FP	115/115 (100%)	115 (100%)	0	100	100
1	FQ	115/115 (100%)	115 (100%)	0	100	100
1	FR	115/115 (100%)	115 (100%)	0	100	100
1	FS	115/115 (100%)	115 (100%)	0	100	100
1	FT	115/115 (100%)	115 (100%)	0	100	100
1	FU	115/115 (100%)	115 (100%)	0	100	100
1	FV	115/115 (100%)	115 (100%)	0	100	100
1	FW	115/115 (100%)	115 (100%)	0	100	100
1	FX	115/115 (100%)	115 (100%)	0	100	100
1	FY	115/115 (100%)	115 (100%)	0	100	100
1	FZ	115/115 (100%)	115 (100%)	0	100	100
1	GA	115/115 (100%)	115 (100%)	0	100	100
1	GB	115/115 (100%)	115 (100%)	0	100	100
1	GC	115/115 (100%)	115 (100%)	0	100	100
1	GD	115/115 (100%)	115 (100%)	0	100	100
1	GE	115/115 (100%)	115 (100%)	0	100	100
1	GF	115/115 (100%)	115 (100%)	0	100	100
1	GG	115/115 (100%)	115 (100%)	0	100	100
1	GH	115/115 (100%)	115 (100%)	0	100	100
1	GI	115/115 (100%)	115 (100%)	0	100	100
1	GJ	115/115 (100%)	115 (100%)	0	100	100
1	GK	115/115 (100%)	115 (100%)	0	100	100
1	GL	115/115 (100%)	115 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	GM	115/115 (100%)	115 (100%)	0	100	100
1	GN	115/115 (100%)	115 (100%)	0	100	100
1	GO	115/115 (100%)	115 (100%)	0	100	100
1	GP	115/115 (100%)	115 (100%)	0	100	100
1	GQ	115/115 (100%)	115 (100%)	0	100	100
1	GR	115/115 (100%)	115 (100%)	0	100	100
1	GS	115/115 (100%)	115 (100%)	0	100	100
1	GT	115/115 (100%)	115 (100%)	0	100	100
1	GU	115/115 (100%)	115 (100%)	0	100	100
1	GV	115/115 (100%)	115 (100%)	0	100	100
1	GW	115/115 (100%)	115 (100%)	0	100	100
1	GX	115/115 (100%)	115 (100%)	0	100	100
1	GY	115/115 (100%)	115 (100%)	0	100	100
1	GZ	115/115 (100%)	115 (100%)	0	100	100
1	HA	115/115 (100%)	115 (100%)	0	100	100
1	HB	115/115 (100%)	115 (100%)	0	100	100
1	HC	115/115 (100%)	115 (100%)	0	100	100
1	HD	115/115 (100%)	115 (100%)	0	100	100
1	HE	115/115 (100%)	115 (100%)	0	100	100
1	HF	115/115 (100%)	115 (100%)	0	100	100
1	HG	115/115 (100%)	115 (100%)	0	100	100
1	HH	115/115 (100%)	115 (100%)	0	100	100
1	HI	115/115 (100%)	115 (100%)	0	100	100
1	HJ	115/115 (100%)	115 (100%)	0	100	100
1	HK	115/115 (100%)	115 (100%)	0	100	100
1	HL	115/115 (100%)	115 (100%)	0	100	100
1	HM	115/115 (100%)	115 (100%)	0	100	100
1	HN	115/115 (100%)	115 (100%)	0	100	100
1	HO	115/115 (100%)	115 (100%)	0	100	100
1	HP	115/115 (100%)	115 (100%)	0	100	100
1	HQ	115/115 (100%)	115 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	HR	115/115 (100%)	115 (100%)	0	100	100
1	HS	115/115 (100%)	115 (100%)	0	100	100
1	HT	115/115 (100%)	115 (100%)	0	100	100
1	HU	115/115 (100%)	115 (100%)	0	100	100
1	HV	115/115 (100%)	115 (100%)	0	100	100
1	HW	115/115 (100%)	115 (100%)	0	100	100
1	HX	115/115 (100%)	115 (100%)	0	100	100
1	HY	115/115 (100%)	115 (100%)	0	100	100
1	HZ	115/115 (100%)	115 (100%)	0	100	100
1	IA	115/115 (100%)	115 (100%)	0	100	100
1	IB	115/115 (100%)	115 (100%)	0	100	100
1	IC	115/115 (100%)	115 (100%)	0	100	100
1	ID	115/115 (100%)	115 (100%)	0	100	100
1	IE	115/115 (100%)	115 (100%)	0	100	100
1	IF	115/115 (100%)	115 (100%)	0	100	100
1	IG	115/115 (100%)	115 (100%)	0	100	100
1	IH	115/115 (100%)	115 (100%)	0	100	100
1	II	115/115 (100%)	115 (100%)	0	100	100
1	IJ	115/115 (100%)	115 (100%)	0	100	100
1	IK	115/115 (100%)	115 (100%)	0	100	100
1	IL	115/115 (100%)	115 (100%)	0	100	100
1	IM	115/115 (100%)	115 (100%)	0	100	100
1	IN	115/115 (100%)	115 (100%)	0	100	100
1	IO	115/115 (100%)	115 (100%)	0	100	100
1	IP	115/115 (100%)	115 (100%)	0	100	100
1	IQ	115/115 (100%)	115 (100%)	0	100	100
1	IR	115/115 (100%)	115 (100%)	0	100	100
1	IS	115/115 (100%)	115 (100%)	0	100	100
1	IT	115/115 (100%)	115 (100%)	0	100	100
1	IU	115/115 (100%)	115 (100%)	0	100	100
1	IV	115/115 (100%)	115 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	IW	115/115 (100%)	115 (100%)	0	100	100
1	IX	115/115 (100%)	115 (100%)	0	100	100
1	IY	115/115 (100%)	115 (100%)	0	100	100
1	IZ	115/115 (100%)	115 (100%)	0	100	100
1	JA	115/115 (100%)	115 (100%)	0	100	100
1	JB	115/115 (100%)	115 (100%)	0	100	100
1	JC	115/115 (100%)	115 (100%)	0	100	100
1	JD	115/115 (100%)	115 (100%)	0	100	100
1	JE	115/115 (100%)	115 (100%)	0	100	100
1	JF	115/115 (100%)	115 (100%)	0	100	100
1	JG	115/115 (100%)	115 (100%)	0	100	100
1	JH	115/115 (100%)	115 (100%)	0	100	100
1	JI	115/115 (100%)	115 (100%)	0	100	100
1	JJ	115/115 (100%)	115 (100%)	0	100	100
1	JK	115/115 (100%)	115 (100%)	0	100	100
1	JL	115/115 (100%)	115 (100%)	0	100	100
1	JM	115/115 (100%)	115 (100%)	0	100	100
1	JN	115/115 (100%)	115 (100%)	0	100	100
1	JO	115/115 (100%)	115 (100%)	0	100	100
1	JP	115/115 (100%)	115 (100%)	0	100	100
1	JQ	115/115 (100%)	115 (100%)	0	100	100
1	JR	115/115 (100%)	115 (100%)	0	100	100
1	JS	115/115 (100%)	115 (100%)	0	100	100
1	JT	115/115 (100%)	115 (100%)	0	100	100
1	JU	115/115 (100%)	115 (100%)	0	100	100
1	JV	115/115 (100%)	115 (100%)	0	100	100
1	JW	115/115 (100%)	115 (100%)	0	100	100
1	JX	115/115 (100%)	115 (100%)	0	100	100
1	JY	115/115 (100%)	115 (100%)	0	100	100
1	JZ	115/115 (100%)	115 (100%)	0	100	100
1	KA	115/115 (100%)	115 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	KB	115/115 (100%)	115 (100%)	0	100	100
1	KC	115/115 (100%)	115 (100%)	0	100	100
1	KD	115/115 (100%)	115 (100%)	0	100	100
1	KE	115/115 (100%)	115 (100%)	0	100	100
1	KF	115/115 (100%)	115 (100%)	0	100	100
1	KG	115/115 (100%)	115 (100%)	0	100	100
1	KH	115/115 (100%)	115 (100%)	0	100	100
1	KI	115/115 (100%)	115 (100%)	0	100	100
1	KJ	115/115 (100%)	115 (100%)	0	100	100
1	KK	115/115 (100%)	115 (100%)	0	100	100
1	KL	115/115 (100%)	115 (100%)	0	100	100
1	KM	115/115 (100%)	115 (100%)	0	100	100
1	KN	115/115 (100%)	115 (100%)	0	100	100
1	KO	115/115 (100%)	115 (100%)	0	100	100
1	KP	115/115 (100%)	115 (100%)	0	100	100
1	KQ	115/115 (100%)	115 (100%)	0	100	100
1	KR	115/115 (100%)	115 (100%)	0	100	100
1	KS	115/115 (100%)	115 (100%)	0	100	100
1	KT	115/115 (100%)	115 (100%)	0	100	100
1	KU	115/115 (100%)	115 (100%)	0	100	100
1	KV	115/115 (100%)	115 (100%)	0	100	100
1	KW	115/115 (100%)	115 (100%)	0	100	100
1	KX	115/115 (100%)	115 (100%)	0	100	100
1	KY	115/115 (100%)	115 (100%)	0	100	100
1	KZ	115/115 (100%)	115 (100%)	0	100	100
1	LA	115/115 (100%)	115 (100%)	0	100	100
1	LB	115/115 (100%)	115 (100%)	0	100	100
1	LC	115/115 (100%)	115 (100%)	0	100	100
1	LD	115/115 (100%)	115 (100%)	0	100	100
1	LE	115/115 (100%)	115 (100%)	0	100	100
1	LF	115/115 (100%)	115 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	LG	115/115 (100%)	115 (100%)	0	100	100
1	LH	115/115 (100%)	115 (100%)	0	100	100
1	LI	115/115 (100%)	115 (100%)	0	100	100
1	LJ	115/115 (100%)	115 (100%)	0	100	100
1	LK	115/115 (100%)	115 (100%)	0	100	100
1	LL	115/115 (100%)	115 (100%)	0	100	100
1	LM	115/115 (100%)	115 (100%)	0	100	100
1	LN	115/115 (100%)	115 (100%)	0	100	100
1	LO	115/115 (100%)	115 (100%)	0	100	100
1	LP	115/115 (100%)	115 (100%)	0	100	100
1	LQ	115/115 (100%)	115 (100%)	0	100	100
1	LR	115/115 (100%)	115 (100%)	0	100	100
1	LS	115/115 (100%)	115 (100%)	0	100	100
1	LT	115/115 (100%)	115 (100%)	0	100	100
1	LU	115/115 (100%)	115 (100%)	0	100	100
1	LV	115/115 (100%)	115 (100%)	0	100	100
1	LW	115/115 (100%)	115 (100%)	0	100	100
1	LX	115/115 (100%)	115 (100%)	0	100	100
1	LY	115/115 (100%)	115 (100%)	0	100	100
1	LZ	115/115 (100%)	115 (100%)	0	100	100
1	MA	115/115 (100%)	115 (100%)	0	100	100
1	MB	115/115 (100%)	115 (100%)	0	100	100
1	MC	115/115 (100%)	115 (100%)	0	100	100
1	MD	115/115 (100%)	115 (100%)	0	100	100
1	ME	115/115 (100%)	115 (100%)	0	100	100
1	MF	115/115 (100%)	115 (100%)	0	100	100
1	MG	115/115 (100%)	115 (100%)	0	100	100
1	MH	115/115 (100%)	115 (100%)	0	100	100
1	MI	115/115 (100%)	115 (100%)	0	100	100
1	MJ	115/115 (100%)	115 (100%)	0	100	100
1	MK	115/115 (100%)	115 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	ML	115/115 (100%)	115 (100%)	0	100	100
1	MM	115/115 (100%)	115 (100%)	0	100	100
1	MN	115/115 (100%)	115 (100%)	0	100	100
1	MO	115/115 (100%)	115 (100%)	0	100	100
1	MP	115/115 (100%)	115 (100%)	0	100	100
1	MQ	115/115 (100%)	115 (100%)	0	100	100
1	MR	115/115 (100%)	115 (100%)	0	100	100
1	MS	115/115 (100%)	115 (100%)	0	100	100
1	MT	115/115 (100%)	115 (100%)	0	100	100
1	MU	115/115 (100%)	115 (100%)	0	100	100
1	MV	115/115 (100%)	115 (100%)	0	100	100
1	MW	115/115 (100%)	115 (100%)	0	100	100
1	MX	115/115 (100%)	115 (100%)	0	100	100
1	MY	115/115 (100%)	115 (100%)	0	100	100
1	MZ	115/115 (100%)	115 (100%)	0	100	100
1	NA	115/115 (100%)	115 (100%)	0	100	100
1	NB	115/115 (100%)	115 (100%)	0	100	100
1	NC	115/115 (100%)	115 (100%)	0	100	100
1	ND	115/115 (100%)	115 (100%)	0	100	100
1	NE	115/115 (100%)	115 (100%)	0	100	100
1	NF	115/115 (100%)	115 (100%)	0	100	100
1	NG	115/115 (100%)	115 (100%)	0	100	100
1	NH	115/115 (100%)	115 (100%)	0	100	100
1	NI	115/115 (100%)	115 (100%)	0	100	100
1	NJ	115/115 (100%)	115 (100%)	0	100	100
1	NK	115/115 (100%)	115 (100%)	0	100	100
1	NL	115/115 (100%)	115 (100%)	0	100	100
1	NM	115/115 (100%)	115 (100%)	0	100	100
1	NN	115/115 (100%)	115 (100%)	0	100	100
1	NO	115/115 (100%)	115 (100%)	0	100	100
1	NP	115/115 (100%)	115 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	NQ	115/115 (100%)	115 (100%)	0	100	100
1	NR	115/115 (100%)	115 (100%)	0	100	100
1	NS	115/115 (100%)	115 (100%)	0	100	100
1	NT	115/115 (100%)	115 (100%)	0	100	100
1	NU	115/115 (100%)	115 (100%)	0	100	100
1	NV	115/115 (100%)	115 (100%)	0	100	100
All	All	41400/41400 (100%)	41400 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	AC	30	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 120 ligands modelled in this entry, 120 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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	130/130 (100%)	-0.24	0 100 100	111, 164, 226, 246	0
1	AB	130/130 (100%)	-0.32	2 (1%) 73 64	110, 166, 236, 289	0
1	AC	130/130 (100%)	-0.14	2 (1%) 73 64	110, 168, 223, 278	0
1	AD	130/130 (100%)	-0.28	1 (0%) 86 79	111, 164, 226, 246	0
1	AE	130/130 (100%)	-0.02	4 (3%) 49 38	110, 166, 236, 289	0
1	AF	130/130 (100%)	-0.08	2 (1%) 73 64	110, 168, 223, 278	0
1	AG	130/130 (100%)	-0.19	0 100 100	111, 164, 226, 246	0
1	AH	130/130 (100%)	-0.26	2 (1%) 73 64	110, 166, 236, 289	0
1	AI	130/130 (100%)	-0.10	1 (0%) 86 79	110, 168, 223, 278	0
1	AJ	130/130 (100%)	-0.23	2 (1%) 73 64	111, 164, 226, 246	0
1	AK	130/130 (100%)	-0.17	2 (1%) 73 64	110, 166, 236, 289	0
1	AL	130/130 (100%)	-0.13	3 (2%) 60 50	110, 168, 223, 278	0
1	AM	130/130 (100%)	0.01	3 (2%) 60 50	111, 164, 226, 246	0
1	AN	130/130 (100%)	0.04	4 (3%) 49 38	110, 166, 236, 289	0
1	AO	130/130 (100%)	-0.22	1 (0%) 86 79	110, 168, 223, 278	0
1	AP	130/130 (100%)	-0.19	3 (2%) 60 50	111, 164, 226, 246	0
1	AQ	130/130 (100%)	-0.17	1 (0%) 86 79	110, 166, 236, 289	0
1	AR	130/130 (100%)	-0.17	1 (0%) 86 79	110, 168, 223, 278	0
1	AS	130/130 (100%)	-0.17	2 (1%) 73 64	111, 164, 226, 246	0
1	AT	130/130 (100%)	-0.13	3 (2%) 60 50	110, 166, 236, 289	0
1	AU	130/130 (100%)	-0.06	3 (2%) 60 50	110, 168, 223, 278	0
1	AV	130/130 (100%)	-0.17	0 100 100	111, 164, 226, 246	0
1	AW	130/130 (100%)	-0.10	1 (0%) 86 79	110, 166, 236, 289	0
1	AX	130/130 (100%)	-0.22	1 (0%) 86 79	110, 168, 223, 278	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	AY	130/130 (100%)	-0.12	0 100 100	111, 164, 226, 246	0
1	AZ	130/130 (100%)	-0.07	6 (4%) 32 26	110, 166, 236, 289	0
1	BA	130/130 (100%)	-0.05	3 (2%) 60 50	110, 168, 223, 278	0
1	BB	130/130 (100%)	-0.18	1 (0%) 86 79	111, 164, 226, 246	0
1	BC	130/130 (100%)	-0.04	2 (1%) 73 64	110, 166, 236, 289	0
1	BD	130/130 (100%)	-0.10	3 (2%) 60 50	110, 168, 223, 278	0
1	BE	130/130 (100%)	-0.16	1 (0%) 86 79	111, 164, 226, 246	0
1	BF	130/130 (100%)	0.05	2 (1%) 73 64	110, 166, 236, 289	0
1	BG	130/130 (100%)	-0.14	1 (0%) 86 79	110, 168, 223, 278	0
1	BH	130/130 (100%)	-0.23	3 (2%) 60 50	111, 164, 226, 246	0
1	BI	130/130 (100%)	-0.11	4 (3%) 49 38	110, 166, 236, 289	0
1	BJ	130/130 (100%)	-0.16	2 (1%) 73 64	110, 168, 223, 278	0
1	BK	130/130 (100%)	-0.10	2 (1%) 73 64	111, 164, 226, 246	0
1	BL	130/130 (100%)	-0.07	0 100 100	110, 166, 236, 289	0
1	BM	130/130 (100%)	-0.00	3 (2%) 60 50	110, 168, 223, 278	0
1	BN	130/130 (100%)	-0.19	4 (3%) 49 38	111, 164, 226, 246	0
1	BO	130/130 (100%)	-0.05	4 (3%) 49 38	110, 166, 236, 289	0
1	BP	130/130 (100%)	-0.19	3 (2%) 60 50	110, 168, 223, 278	0
1	BQ	130/130 (100%)	-0.10	2 (1%) 73 64	111, 164, 226, 246	0
1	BR	130/130 (100%)	-0.02	3 (2%) 60 50	110, 166, 236, 289	0
1	BS	130/130 (100%)	-0.05	2 (1%) 73 64	110, 168, 223, 278	0
1	BT	130/130 (100%)	-0.20	0 100 100	111, 164, 226, 246	0
1	BU	130/130 (100%)	-0.19	2 (1%) 73 64	110, 166, 236, 289	0
1	BV	130/130 (100%)	-0.22	0 100 100	110, 168, 223, 278	0
1	BW	130/130 (100%)	-0.18	1 (0%) 86 79	111, 164, 226, 246	0
1	BX	130/130 (100%)	-0.17	1 (0%) 86 79	110, 166, 236, 289	0
1	BY	130/130 (100%)	-0.10	1 (0%) 86 79	110, 168, 223, 278	0
1	BZ	130/130 (100%)	-0.16	4 (3%) 49 38	111, 164, 226, 246	0
1	CA	130/130 (100%)	-0.24	1 (0%) 86 79	110, 166, 236, 289	0
1	CB	130/130 (100%)	-0.04	2 (1%) 73 64	110, 168, 223, 278	0
1	CC	130/130 (100%)	-0.01	2 (1%) 73 64	111, 164, 226, 246	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	CD	130/130 (100%)	-0.03	2 (1%) 73 64	110, 166, 236, 289	0
1	CE	130/130 (100%)	-0.05	4 (3%) 49 38	110, 168, 223, 278	0
1	CF	130/130 (100%)	-0.18	1 (0%) 86 79	111, 164, 226, 246	0
1	CG	130/130 (100%)	-0.19	3 (2%) 60 50	110, 166, 236, 289	0
1	CH	130/130 (100%)	0.11	4 (3%) 49 38	110, 168, 223, 278	0
1	CI	130/130 (100%)	-0.19	1 (0%) 86 79	111, 164, 226, 246	0
1	CJ	130/130 (100%)	-0.01	4 (3%) 49 38	110, 166, 236, 289	0
1	CK	130/130 (100%)	-0.25	0 100 100	110, 168, 223, 278	0
1	CL	130/130 (100%)	-0.07	0 100 100	111, 164, 226, 246	0
1	CM	130/130 (100%)	0.09	4 (3%) 49 38	110, 166, 236, 289	0
1	CN	130/130 (100%)	-0.12	1 (0%) 86 79	110, 168, 223, 278	0
1	CO	130/130 (100%)	-0.16	2 (1%) 73 64	111, 164, 226, 246	0
1	CP	130/130 (100%)	-0.15	1 (0%) 86 79	110, 166, 236, 289	0
1	CQ	130/130 (100%)	0.02	2 (1%) 73 64	110, 168, 223, 278	0
1	CR	130/130 (100%)	-0.03	2 (1%) 73 64	111, 164, 226, 246	0
1	CS	130/130 (100%)	-0.08	1 (0%) 86 79	110, 166, 236, 289	0
1	CT	130/130 (100%)	-0.02	4 (3%) 49 38	110, 168, 223, 278	0
1	CU	130/130 (100%)	-0.23	1 (0%) 86 79	111, 164, 226, 246	0
1	CV	130/130 (100%)	-0.28	2 (1%) 73 64	110, 166, 236, 289	0
1	CW	130/130 (100%)	-0.22	1 (0%) 86 79	110, 168, 223, 278	0
1	CX	130/130 (100%)	-0.14	3 (2%) 60 50	111, 164, 226, 246	0
1	CY	130/130 (100%)	-0.05	3 (2%) 60 50	110, 166, 236, 289	0
1	CZ	130/130 (100%)	-0.07	2 (1%) 73 64	110, 168, 223, 278	0
1	DA	130/130 (100%)	-0.16	0 100 100	111, 164, 226, 246	0
1	DB	130/130 (100%)	-0.12	3 (2%) 60 50	110, 166, 236, 289	0
1	DC	130/130 (100%)	-0.26	3 (2%) 60 50	110, 168, 223, 278	0
1	DD	130/130 (100%)	-0.28	2 (1%) 73 64	111, 164, 226, 246	0
1	DE	130/130 (100%)	-0.26	1 (0%) 86 79	110, 166, 236, 289	0
1	DF	130/130 (100%)	-0.08	1 (0%) 86 79	110, 168, 223, 278	0
1	DG	130/130 (100%)	-0.23	1 (0%) 86 79	111, 164, 226, 246	0
1	DH	130/130 (100%)	-0.15	1 (0%) 86 79	110, 166, 236, 289	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	DI	130/130 (100%)	-0.10	3 (2%) 60 50	110, 168, 223, 278	0
1	DJ	130/130 (100%)	-0.15	3 (2%) 60 50	111, 164, 226, 246	0
1	DK	130/130 (100%)	0.02	3 (2%) 60 50	110, 166, 236, 289	0
1	DL	130/130 (100%)	-0.12	3 (2%) 60 50	110, 168, 223, 278	0
1	DM	130/130 (100%)	0.04	2 (1%) 73 64	111, 164, 226, 246	0
1	DN	130/130 (100%)	-0.04	1 (0%) 86 79	110, 166, 236, 289	0
1	DO	130/130 (100%)	0.00	3 (2%) 60 50	110, 168, 223, 278	0
1	DP	130/130 (100%)	-0.08	6 (4%) 32 26	111, 164, 226, 246	0
1	DQ	130/130 (100%)	-0.11	3 (2%) 60 50	110, 166, 236, 289	0
1	DR	130/130 (100%)	-0.17	4 (3%) 49 38	110, 168, 223, 278	0
1	DS	130/130 (100%)	-0.20	0 100 100	111, 164, 226, 246	0
1	DT	130/130 (100%)	0.04	6 (4%) 32 26	110, 166, 236, 289	0
1	DU	130/130 (100%)	-0.15	1 (0%) 86 79	110, 168, 223, 278	0
1	DV	130/130 (100%)	-0.12	1 (0%) 86 79	111, 164, 226, 246	0
1	DW	130/130 (100%)	-0.00	2 (1%) 73 64	110, 166, 236, 289	0
1	DX	130/130 (100%)	-0.16	0 100 100	110, 168, 223, 278	0
1	DY	130/130 (100%)	-0.29	1 (0%) 86 79	111, 164, 226, 246	0
1	DZ	130/130 (100%)	-0.21	0 100 100	110, 166, 236, 289	0
1	EA	130/130 (100%)	-0.08	4 (3%) 49 38	110, 168, 223, 278	0
1	EB	130/130 (100%)	-0.28	1 (0%) 86 79	111, 164, 226, 246	0
1	EC	130/130 (100%)	-0.08	3 (2%) 60 50	110, 166, 236, 289	0
1	ED	130/130 (100%)	-0.05	3 (2%) 60 50	110, 168, 223, 278	0
1	EE	130/130 (100%)	-0.02	1 (0%) 86 79	111, 164, 226, 246	0
1	EF	130/130 (100%)	0.12	5 (3%) 40 31	110, 166, 236, 289	0
1	EG	130/130 (100%)	-0.12	1 (0%) 86 79	110, 168, 223, 278	0
1	EH	130/130 (100%)	-0.20	0 100 100	111, 164, 226, 246	0
1	EI	130/130 (100%)	-0.05	1 (0%) 86 79	110, 166, 236, 289	0
1	EJ	130/130 (100%)	-0.10	2 (1%) 73 64	110, 168, 223, 278	0
1	EK	130/130 (100%)	0.01	3 (2%) 60 50	111, 164, 226, 246	0
1	EL	130/130 (100%)	-0.18	1 (0%) 86 79	110, 166, 236, 289	0
1	EM	130/130 (100%)	-0.16	2 (1%) 73 64	110, 168, 223, 278	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	EN	130/130 (100%)	-0.08	1 (0%) 86 79	111, 164, 226, 246	0
1	EO	130/130 (100%)	-0.01	3 (2%) 60 50	110, 166, 236, 289	0
1	EP	130/130 (100%)	-0.14	1 (0%) 86 79	110, 168, 223, 278	0
1	EQ	130/130 (100%)	-0.19	0 100 100	111, 164, 226, 246	0
1	ER	130/130 (100%)	-0.07	2 (1%) 73 64	110, 166, 236, 289	0
1	ES	130/130 (100%)	-0.23	1 (0%) 86 79	110, 168, 223, 278	0
1	ET	130/130 (100%)	-0.26	2 (1%) 73 64	111, 164, 226, 246	0
1	EU	130/130 (100%)	-0.06	3 (2%) 60 50	110, 166, 236, 289	0
1	EV	130/130 (100%)	0.03	4 (3%) 49 38	110, 168, 223, 278	0
1	EW	130/130 (100%)	-0.23	0 100 100	111, 164, 226, 246	0
1	EX	130/130 (100%)	-0.24	2 (1%) 73 64	110, 166, 236, 289	0
1	EY	130/130 (100%)	-0.00	3 (2%) 60 50	110, 168, 223, 278	0
1	EZ	130/130 (100%)	-0.12	1 (0%) 86 79	111, 164, 226, 246	0
1	FA	130/130 (100%)	-0.24	1 (0%) 86 79	110, 166, 236, 289	0
1	FB	130/130 (100%)	-0.08	1 (0%) 86 79	110, 168, 223, 278	0
1	FC	130/130 (100%)	-0.18	2 (1%) 73 64	111, 164, 226, 246	0
1	FD	130/130 (100%)	-0.20	1 (0%) 86 79	110, 166, 236, 289	0
1	FE	130/130 (100%)	-0.04	1 (0%) 86 79	110, 168, 223, 278	0
1	FF	130/130 (100%)	-0.27	0 100 100	111, 164, 226, 246	0
1	FG	130/130 (100%)	-0.26	2 (1%) 73 64	110, 166, 236, 289	0
1	FH	130/130 (100%)	-0.08	3 (2%) 60 50	110, 168, 223, 278	0
1	FI	130/130 (100%)	-0.09	0 100 100	111, 164, 226, 246	0
1	FJ	130/130 (100%)	-0.21	2 (1%) 73 64	110, 166, 236, 289	0
1	FK	130/130 (100%)	-0.13	3 (2%) 60 50	110, 168, 223, 278	0
1	FL	130/130 (100%)	-0.08	4 (3%) 49 38	111, 164, 226, 246	0
1	FM	130/130 (100%)	-0.15	0 100 100	110, 166, 236, 289	0
1	FN	130/130 (100%)	-0.00	1 (0%) 86 79	110, 168, 223, 278	0
1	FO	130/130 (100%)	-0.18	4 (3%) 49 38	111, 164, 226, 246	0
1	FP	130/130 (100%)	-0.19	2 (1%) 73 64	110, 166, 236, 289	0
1	FQ	130/130 (100%)	-0.01	2 (1%) 73 64	110, 168, 223, 278	0
1	FR	130/130 (100%)	-0.32	4 (3%) 49 38	111, 164, 226, 246	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	FS	130/130 (100%)	-0.13	4 (3%) 49 38	110, 166, 236, 289	0
1	FT	130/130 (100%)	-0.05	3 (2%) 60 50	110, 168, 223, 278	0
1	FU	130/130 (100%)	-0.19	0 100 100	111, 164, 226, 246	0
1	FV	130/130 (100%)	-0.23	1 (0%) 86 79	110, 166, 236, 289	0
1	FW	130/130 (100%)	-0.26	0 100 100	110, 168, 223, 278	0
1	FX	130/130 (100%)	-0.29	0 100 100	111, 164, 226, 246	0
1	FY	130/130 (100%)	-0.16	3 (2%) 60 50	110, 166, 236, 289	0
1	FZ	130/130 (100%)	-0.14	2 (1%) 73 64	110, 168, 223, 278	0
1	GA	130/130 (100%)	-0.06	2 (1%) 73 64	111, 164, 226, 246	0
1	GB	130/130 (100%)	0.14	5 (3%) 40 31	110, 166, 236, 289	0
1	GC	130/130 (100%)	-0.02	4 (3%) 49 38	110, 168, 223, 278	0
1	GD	130/130 (100%)	-0.17	1 (0%) 86 79	111, 164, 226, 246	0
1	GE	130/130 (100%)	-0.22	1 (0%) 86 79	110, 166, 236, 289	0
1	GF	130/130 (100%)	-0.13	3 (2%) 60 50	110, 168, 223, 278	0
1	GG	130/130 (100%)	-0.26	0 100 100	111, 164, 226, 246	0
1	GH	130/130 (100%)	-0.10	1 (0%) 86 79	110, 166, 236, 289	0
1	GI	130/130 (100%)	-0.03	2 (1%) 73 64	110, 168, 223, 278	0
1	GJ	130/130 (100%)	-0.06	2 (1%) 73 64	111, 164, 226, 246	0
1	GK	130/130 (100%)	-0.15	1 (0%) 86 79	110, 166, 236, 289	0
1	GL	130/130 (100%)	0.01	4 (3%) 49 38	110, 168, 223, 278	0
1	GM	130/130 (100%)	-0.10	2 (1%) 73 64	111, 164, 226, 246	0
1	GN	130/130 (100%)	-0.15	1 (0%) 86 79	110, 166, 236, 289	0
1	GO	130/130 (100%)	0.01	4 (3%) 49 38	110, 168, 223, 278	0
1	GP	130/130 (100%)	-0.15	2 (1%) 73 64	111, 164, 226, 246	0
1	GQ	130/130 (100%)	-0.06	4 (3%) 49 38	110, 166, 236, 289	0
1	GR	130/130 (100%)	0.06	3 (2%) 60 50	110, 168, 223, 278	0
1	GS	130/130 (100%)	-0.15	0 100 100	111, 164, 226, 246	0
1	GT	130/130 (100%)	-0.16	3 (2%) 60 50	110, 166, 236, 289	0
1	GU	130/130 (100%)	-0.07	3 (2%) 60 50	110, 168, 223, 278	0
1	GV	130/130 (100%)	-0.26	1 (0%) 86 79	111, 164, 226, 246	0
1	GW	130/130 (100%)	-0.12	2 (1%) 73 64	110, 166, 236, 289	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	GX	130/130 (100%)	-0.04	3 (2%) 60 50	110, 168, 223, 278	0
1	GY	130/130 (100%)	-0.19	2 (1%) 73 64	111, 164, 226, 246	0
1	GZ	130/130 (100%)	-0.22	1 (0%) 86 79	110, 166, 236, 289	0
1	HA	130/130 (100%)	-0.06	1 (0%) 86 79	110, 168, 223, 278	0
1	HB	130/130 (100%)	-0.25	3 (2%) 60 50	111, 164, 226, 246	0
1	HC	130/130 (100%)	-0.09	4 (3%) 49 38	110, 166, 236, 289	0
1	HD	130/130 (100%)	0.07	5 (3%) 40 31	110, 168, 223, 278	0
1	HE	130/130 (100%)	-0.05	3 (2%) 60 50	111, 164, 226, 246	0
1	HF	130/130 (100%)	-0.23	2 (1%) 73 64	110, 166, 236, 289	0
1	HG	130/130 (100%)	-0.17	1 (0%) 86 79	110, 168, 223, 278	0
1	HH	130/130 (100%)	-0.19	1 (0%) 86 79	111, 164, 226, 246	0
1	HI	130/130 (100%)	0.00	4 (3%) 49 38	110, 166, 236, 289	0
1	HJ	130/130 (100%)	-0.13	3 (2%) 60 50	110, 168, 223, 278	0
1	HK	130/130 (100%)	-0.13	1 (0%) 86 79	111, 164, 226, 246	0
1	HL	130/130 (100%)	-0.09	2 (1%) 73 64	110, 166, 236, 289	0
1	HM	130/130 (100%)	-0.08	3 (2%) 60 50	110, 168, 223, 278	0
1	HN	130/130 (100%)	-0.18	3 (2%) 60 50	111, 164, 226, 246	0
1	HO	130/130 (100%)	-0.29	1 (0%) 86 79	110, 166, 236, 289	0
1	HP	130/130 (100%)	0.06	1 (0%) 86 79	110, 168, 223, 278	0
1	HQ	130/130 (100%)	-0.20	1 (0%) 86 79	111, 164, 226, 246	0
1	HR	130/130 (100%)	-0.16	3 (2%) 60 50	110, 166, 236, 289	0
1	HS	130/130 (100%)	-0.06	4 (3%) 49 38	110, 168, 223, 278	0
1	HT	130/130 (100%)	-0.23	0 100 100	111, 164, 226, 246	0
1	HU	130/130 (100%)	-0.24	2 (1%) 73 64	110, 166, 236, 289	0
1	HV	130/130 (100%)	-0.17	2 (1%) 73 64	110, 168, 223, 278	0
1	HW	130/130 (100%)	-0.17	2 (1%) 73 64	111, 164, 226, 246	0
1	HX	130/130 (100%)	-0.10	4 (3%) 49 38	110, 166, 236, 289	0
1	HY	130/130 (100%)	-0.08	3 (2%) 60 50	110, 168, 223, 278	0
1	HZ	130/130 (100%)	-0.18	1 (0%) 86 79	111, 164, 226, 246	0
1	IA	130/130 (100%)	-0.27	2 (1%) 73 64	110, 166, 236, 289	0
1	IB	130/130 (100%)	-0.05	3 (2%) 60 50	110, 168, 223, 278	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	IC	130/130 (100%)	0.03	1 (0%) 86 79	111, 164, 226, 246	0
1	ID	130/130 (100%)	0.11	6 (4%) 32 26	110, 166, 236, 289	0
1	IE	130/130 (100%)	-0.13	0 100 100	110, 168, 223, 278	0
1	IF	130/130 (100%)	-0.19	0 100 100	111, 164, 226, 246	0
1	IG	130/130 (100%)	-0.16	4 (3%) 49 38	110, 166, 236, 289	0
1	IH	130/130 (100%)	-0.07	1 (0%) 86 79	110, 168, 223, 278	0
1	II	130/130 (100%)	-0.14	2 (1%) 73 64	111, 164, 226, 246	0
1	IJ	130/130 (100%)	-0.08	3 (2%) 60 50	110, 166, 236, 289	0
1	IK	130/130 (100%)	0.03	2 (1%) 73 64	110, 168, 223, 278	0
1	IL	130/130 (100%)	0.00	2 (1%) 73 64	111, 164, 226, 246	0
1	IM	130/130 (100%)	-0.07	4 (3%) 49 38	110, 166, 236, 289	0
1	IN	130/130 (100%)	-0.06	4 (3%) 49 38	110, 168, 223, 278	0
1	IO	130/130 (100%)	-0.16	2 (1%) 73 64	111, 164, 226, 246	0
1	IP	130/130 (100%)	-0.05	2 (1%) 73 64	110, 166, 236, 289	0
1	IQ	130/130 (100%)	-0.01	3 (2%) 60 50	110, 168, 223, 278	0
1	IR	130/130 (100%)	-0.21	0 100 100	111, 164, 226, 246	0
1	IS	130/130 (100%)	-0.26	1 (0%) 86 79	110, 166, 236, 289	0
1	IT	130/130 (100%)	-0.18	0 100 100	110, 168, 223, 278	0
1	IU	130/130 (100%)	-0.27	0 100 100	111, 164, 226, 246	0
1	IV	130/130 (100%)	-0.23	3 (2%) 60 50	110, 166, 236, 289	0
1	IW	130/130 (100%)	-0.16	4 (3%) 49 38	110, 168, 223, 278	0
1	IX	130/130 (100%)	-0.25	1 (0%) 86 79	111, 164, 226, 246	0
1	IY	130/130 (100%)	-0.06	2 (1%) 73 64	110, 166, 236, 289	0
1	IZ	130/130 (100%)	-0.00	3 (2%) 60 50	110, 168, 223, 278	0
1	JA	130/130 (100%)	-0.25	1 (0%) 86 79	111, 164, 226, 246	0
1	JB	130/130 (100%)	-0.10	1 (0%) 86 79	110, 166, 236, 289	0
1	JC	130/130 (100%)	0.06	6 (4%) 32 26	110, 168, 223, 278	0
1	JD	130/130 (100%)	-0.15	2 (1%) 73 64	111, 164, 226, 246	0
1	JE	130/130 (100%)	-0.10	2 (1%) 73 64	110, 166, 236, 289	0
1	JF	130/130 (100%)	0.06	4 (3%) 49 38	110, 168, 223, 278	0
1	JG	130/130 (100%)	-0.14	2 (1%) 73 64	111, 164, 226, 246	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	JH	130/130 (100%)	-0.04	1 (0%) 86 79	110, 166, 236, 289	0
1	JI	130/130 (100%)	-0.15	3 (2%) 60 50	110, 168, 223, 278	0
1	JJ	130/130 (100%)	-0.17	0 100 100	111, 164, 226, 246	0
1	JK	130/130 (100%)	0.01	5 (3%) 40 31	110, 166, 236, 289	0
1	JL	130/130 (100%)	-0.09	2 (1%) 73 64	110, 168, 223, 278	0
1	JM	130/130 (100%)	-0.25	0 100 100	111, 164, 226, 246	0
1	JN	130/130 (100%)	-0.18	0 100 100	110, 166, 236, 289	0
1	JO	130/130 (100%)	-0.08	4 (3%) 49 38	110, 168, 223, 278	0
1	JP	130/130 (100%)	-0.02	3 (2%) 60 50	111, 164, 226, 246	0
1	JQ	130/130 (100%)	0.05	5 (3%) 40 31	110, 166, 236, 289	0
1	JR	130/130 (100%)	-0.10	3 (2%) 60 50	110, 168, 223, 278	0
1	JS	130/130 (100%)	-0.13	3 (2%) 60 50	111, 164, 226, 246	0
1	JT	130/130 (100%)	-0.18	2 (1%) 73 64	110, 166, 236, 289	0
1	JU	130/130 (100%)	-0.16	2 (1%) 73 64	110, 168, 223, 278	0
1	JV	130/130 (100%)	-0.04	3 (2%) 60 50	111, 164, 226, 246	0
1	JW	130/130 (100%)	-0.01	2 (1%) 73 64	110, 166, 236, 289	0
1	JX	130/130 (100%)	-0.20	2 (1%) 73 64	110, 168, 223, 278	0
1	JY	130/130 (100%)	-0.18	1 (0%) 86 79	111, 164, 226, 246	0
1	JZ	130/130 (100%)	-0.05	3 (2%) 60 50	110, 166, 236, 289	0
1	KA	130/130 (100%)	-0.26	1 (0%) 86 79	110, 168, 223, 278	0
1	KB	130/130 (100%)	-0.11	5 (3%) 40 31	111, 164, 226, 246	0
1	KC	130/130 (100%)	-0.24	1 (0%) 86 79	110, 166, 236, 289	0
1	KD	130/130 (100%)	-0.21	2 (1%) 73 64	110, 168, 223, 278	0
1	KE	130/130 (100%)	-0.10	2 (1%) 73 64	111, 164, 226, 246	0
1	KF	130/130 (100%)	-0.09	3 (2%) 60 50	110, 166, 236, 289	0
1	KG	130/130 (100%)	-0.09	2 (1%) 73 64	110, 168, 223, 278	0
1	KH	130/130 (100%)	-0.01	3 (2%) 60 50	111, 164, 226, 246	0
1	KI	130/130 (100%)	-0.07	1 (0%) 86 79	110, 166, 236, 289	0
1	KJ	130/130 (100%)	-0.02	5 (3%) 40 31	110, 168, 223, 278	0
1	KK	130/130 (100%)	-0.26	0 100 100	111, 164, 226, 246	0
1	KL	130/130 (100%)	-0.04	1 (0%) 86 79	110, 166, 236, 289	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	KM	130/130 (100%)	-0.06	3 (2%) 60 50	110, 168, 223, 278	0
1	KN	130/130 (100%)	-0.21	1 (0%) 86 79	111, 164, 226, 246	0
1	KO	130/130 (100%)	0.18	5 (3%) 40 31	110, 166, 236, 289	0
1	KP	130/130 (100%)	-0.04	2 (1%) 73 64	110, 168, 223, 278	0
1	KQ	130/130 (100%)	-0.13	3 (2%) 60 50	111, 164, 226, 246	0
1	KR	130/130 (100%)	-0.04	3 (2%) 60 50	110, 166, 236, 289	0
1	KS	130/130 (100%)	0.01	6 (4%) 32 26	110, 168, 223, 278	0
1	KT	130/130 (100%)	-0.29	1 (0%) 86 79	111, 164, 226, 246	0
1	KU	130/130 (100%)	-0.22	3 (2%) 60 50	110, 166, 236, 289	0
1	KV	130/130 (100%)	-0.06	4 (3%) 49 38	110, 168, 223, 278	0
1	KW	130/130 (100%)	-0.23	1 (0%) 86 79	111, 164, 226, 246	0
1	KX	130/130 (100%)	-0.18	2 (1%) 73 64	110, 166, 236, 289	0
1	KY	130/130 (100%)	-0.00	4 (3%) 49 38	110, 168, 223, 278	0
1	KZ	130/130 (100%)	-0.12	2 (1%) 73 64	111, 164, 226, 246	0
1	LA	130/130 (100%)	-0.18	1 (0%) 86 79	110, 166, 236, 289	0
1	LB	130/130 (100%)	-0.09	2 (1%) 73 64	110, 168, 223, 278	0
1	LC	130/130 (100%)	-0.23	0 100 100	111, 164, 226, 246	0
1	LD	130/130 (100%)	-0.10	2 (1%) 73 64	110, 166, 236, 289	0
1	LE	130/130 (100%)	-0.10	1 (0%) 86 79	110, 168, 223, 278	0
1	LF	130/130 (100%)	-0.24	1 (0%) 86 79	111, 164, 226, 246	0
1	LG	130/130 (100%)	-0.06	3 (2%) 60 50	110, 166, 236, 289	0
1	LH	130/130 (100%)	-0.17	2 (1%) 73 64	110, 168, 223, 278	0
1	LI	130/130 (100%)	-0.16	2 (1%) 73 64	111, 164, 226, 246	0
1	LJ	130/130 (100%)	-0.12	2 (1%) 73 64	110, 166, 236, 289	0
1	LK	130/130 (100%)	-0.02	3 (2%) 60 50	110, 168, 223, 278	0
1	LL	130/130 (100%)	-0.19	1 (0%) 86 79	111, 164, 226, 246	0
1	LM	130/130 (100%)	-0.08	2 (1%) 73 64	110, 166, 236, 289	0
1	LN	130/130 (100%)	-0.04	2 (1%) 73 64	110, 168, 223, 278	0
1	LO	130/130 (100%)	-0.13	1 (0%) 86 79	111, 164, 226, 246	0
1	LP	130/130 (100%)	-0.19	3 (2%) 60 50	110, 166, 236, 289	0
1	LQ	130/130 (100%)	-0.08	5 (3%) 40 31	110, 168, 223, 278	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	LR	130/130 (100%)	-0.06	0 100 100	111, 164, 226, 246	0
1	LS	130/130 (100%)	-0.06	1 (0%) 86 79	110, 166, 236, 289	0
1	LT	130/130 (100%)	-0.11	2 (1%) 73 64	110, 168, 223, 278	0
1	LU	130/130 (100%)	-0.18	2 (1%) 73 64	111, 164, 226, 246	0
1	LV	130/130 (100%)	-0.21	2 (1%) 73 64	110, 166, 236, 289	0
1	LW	130/130 (100%)	-0.10	2 (1%) 73 64	110, 168, 223, 278	0
1	LX	130/130 (100%)	-0.13	3 (2%) 60 50	111, 164, 226, 246	0
1	LY	130/130 (100%)	-0.10	2 (1%) 73 64	110, 166, 236, 289	0
1	LZ	130/130 (100%)	-0.11	1 (0%) 86 79	110, 168, 223, 278	0
1	MA	130/130 (100%)	-0.04	3 (2%) 60 50	111, 164, 226, 246	0
1	MB	130/130 (100%)	-0.17	2 (1%) 73 64	110, 166, 236, 289	0
1	MC	130/130 (100%)	-0.07	2 (1%) 73 64	110, 168, 223, 278	0
1	MD	130/130 (100%)	-0.17	1 (0%) 86 79	111, 164, 226, 246	0
1	ME	130/130 (100%)	-0.15	4 (3%) 49 38	110, 166, 236, 289	0
1	MF	130/130 (100%)	-0.14	1 (0%) 86 79	110, 168, 223, 278	0
1	MG	130/130 (100%)	-0.16	1 (0%) 86 79	111, 164, 226, 246	0
1	MH	130/130 (100%)	-0.14	2 (1%) 73 64	110, 166, 236, 289	0
1	MI	130/130 (100%)	-0.04	2 (1%) 73 64	110, 168, 223, 278	0
1	MJ	130/130 (100%)	-0.15	0 100 100	111, 164, 226, 246	0
1	MK	130/130 (100%)	-0.10	1 (0%) 86 79	110, 166, 236, 289	0
1	ML	130/130 (100%)	-0.04	3 (2%) 60 50	110, 168, 223, 278	0
1	MM	130/130 (100%)	-0.19	4 (3%) 49 38	111, 164, 226, 246	0
1	MN	130/130 (100%)	-0.20	0 100 100	110, 166, 236, 289	0
1	MO	130/130 (100%)	-0.22	1 (0%) 86 79	110, 168, 223, 278	0
1	MP	130/130 (100%)	-0.29	0 100 100	111, 164, 226, 246	0
1	MQ	130/130 (100%)	-0.23	4 (3%) 49 38	110, 166, 236, 289	0
1	MR	130/130 (100%)	-0.12	3 (2%) 60 50	110, 168, 223, 278	0
1	MS	130/130 (100%)	-0.24	1 (0%) 86 79	111, 164, 226, 246	0
1	MT	130/130 (100%)	-0.13	3 (2%) 60 50	110, 166, 236, 289	0
1	MU	130/130 (100%)	-0.05	0 100 100	110, 168, 223, 278	0
1	MV	130/130 (100%)	-0.15	2 (1%) 73 64	111, 164, 226, 246	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	MW	130/130 (100%)	-0.16	1 (0%) 86 79	110, 166, 236, 289	0
1	MX	130/130 (100%)	-0.16	3 (2%) 60 50	110, 168, 223, 278	0
1	MY	130/130 (100%)	-0.06	1 (0%) 86 79	111, 164, 226, 246	0
1	MZ	130/130 (100%)	-0.15	2 (1%) 73 64	110, 166, 236, 289	0
1	NA	130/130 (100%)	-0.02	3 (2%) 60 50	110, 168, 223, 278	0
1	NB	130/130 (100%)	-0.19	0 100 100	111, 164, 226, 246	0
1	NC	130/130 (100%)	-0.09	1 (0%) 86 79	110, 166, 236, 289	0
1	ND	130/130 (100%)	-0.19	2 (1%) 73 64	110, 168, 223, 278	0
1	NE	130/130 (100%)	-0.14	0 100 100	111, 164, 226, 246	0
1	NF	130/130 (100%)	-0.05	4 (3%) 49 38	110, 166, 236, 289	0
1	NG	130/130 (100%)	-0.12	3 (2%) 60 50	110, 168, 223, 278	0
1	NH	130/130 (100%)	-0.26	0 100 100	111, 164, 226, 246	0
1	NI	130/130 (100%)	-0.15	2 (1%) 73 64	110, 166, 236, 289	0
1	NJ	130/130 (100%)	0.03	4 (3%) 49 38	110, 168, 223, 278	0
1	NK	130/130 (100%)	-0.19	2 (1%) 73 64	111, 164, 226, 246	0
1	NL	130/130 (100%)	-0.07	2 (1%) 73 64	110, 166, 236, 289	0
1	NM	130/130 (100%)	-0.17	2 (1%) 73 64	110, 168, 223, 278	0
1	NN	130/130 (100%)	-0.12	2 (1%) 73 64	111, 164, 226, 246	0
1	NO	130/130 (100%)	-0.13	1 (0%) 86 79	110, 166, 236, 289	0
1	NP	130/130 (100%)	-0.01	4 (3%) 49 38	110, 168, 223, 278	0
1	NQ	130/130 (100%)	0.09	3 (2%) 60 50	111, 164, 226, 246	0
1	NR	130/130 (100%)	0.08	4 (3%) 49 38	110, 166, 236, 289	0
1	NS	130/130 (100%)	-0.05	1 (0%) 86 79	110, 168, 223, 278	0
1	NT	130/130 (100%)	-0.10	5 (3%) 40 31	111, 164, 226, 246	0
1	NU	130/130 (100%)	-0.15	2 (1%) 73 64	110, 166, 236, 289	0
1	NV	130/130 (100%)	-0.03	5 (3%) 40 31	110, 168, 223, 278	0
All	All	46800/46800 (100%)	-0.12	754 (1%) 72 62	110, 166, 232, 289	0

All (754) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	HJ	1	SER	8.6
1	DO	1	SER	7.1

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Mol	Chain	Res	Type	RSRZ
1	EU	43	LYS	6.4
1	GK	1	SER	6.4
1	GB	1	SER	6.2
1	AF	43	LYS	6.1
1	KR	43	LYS	5.7
1	CH	43	LYS	5.7
1	FK	115	GLY	5.4
1	DK	43	LYS	5.4
1	AZ	43	LYS	5.3
1	CB	43	LYS	5.3
1	NV	115	GLY	5.2
1	EX	1	SER	5.2
1	JZ	43	LYS	5.2
1	LQ	1	SER	5.1
1	MM	1	SER	5.1
1	FK	43	LYS	5.0
1	BC	43	LYS	5.0
1	IQ	43	LYS	5.0
1	KF	1	SER	4.9
1	GQ	1	SER	4.8
1	DR	1	SER	4.8
1	HN	44	GLY	4.8
1	KO	43	LYS	4.7
1	BR	1	SER	4.7
1	MX	1	SER	4.7
1	IL	44	GLY	4.6
1	KY	1	SER	4.6
1	KM	130	GLU	4.6
1	LP	1	SER	4.6
1	HI	1	SER	4.5
1	GR	43	LYS	4.5
1	JO	1	SER	4.5
1	EA	1	SER	4.5
1	LB	1	SER	4.5
1	FY	43	LYS	4.4
1	LG	43	LYS	4.4
1	KH	116	TYR	4.4
1	EO	43	LYS	4.4
1	MO	1	SER	4.4
1	CM	43	LYS	4.3
1	GW	43	LYS	4.3
1	EV	130	GLU	4.3

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Mol	Chain	Res	Type	RSRZ
1	CM	1	SER	4.3
1	MB	1	SER	4.2
1	IY	130	GLU	4.2
1	FJ	43	LYS	4.2
1	KF	43	LYS	4.2
1	EU	1	SER	4.2
1	CM	130	GLU	4.2
1	IJ	43	LYS	4.2
1	KU	1	SER	4.2
1	HA	1	SER	4.2
1	CN	43	LYS	4.1
1	JF	43	LYS	4.1
1	GU	69	ARG	4.1
1	LB	43	LYS	4.1
1	JZ	42	ARG	4.1
1	KM	43	LYS	4.1
1	NJ	115	GLY	4.1
1	NT	1	SER	4.1
1	GT	43	LYS	4.1
1	MW	1	SER	4.0
1	NJ	43	LYS	4.0
1	HD	43	LYS	4.0
1	CT	130	GLU	4.0
1	NU	1	SER	4.0
1	LN	43	LYS	4.0
1	LH	43	LYS	4.0
1	KM	1	SER	4.0
1	IW	115	GLY	3.9
1	HX	43	LYS	3.9
1	NN	44	GLY	3.9
1	KI	1	SER	3.9
1	KL	43	LYS	3.8
1	HV	1	SER	3.8
1	KR	130	GLU	3.8
1	EC	130	GLU	3.8
1	ML	1	SER	3.8
1	HS	1	SER	3.8
1	BH	44	GLY	3.7
1	GF	43	LYS	3.7
1	HX	42	ARG	3.7
1	KR	44	GLY	3.7
1	FZ	69	ARG	3.7

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Mol	Chain	Res	Type	RSRZ
1	AK	43	LYS	3.7
1	KC	1	SER	3.7
1	BC	42	ARG	3.7
1	IA	42	ARG	3.7
1	JS	127	VAL	3.6
1	JS	129	THR	3.6
1	BO	130	GLU	3.6
1	HD	1	SER	3.6
1	KE	1	SER	3.6
1	JL	47	GLY	3.6
1	LA	130	GLU	3.6
1	FH	129	THR	3.6
1	FP	1	SER	3.6
1	EK	1	SER	3.6
1	LW	43	LYS	3.6
1	AL	43	LYS	3.6
1	HQ	116	TYR	3.6
1	BZ	116	TYR	3.5
1	JQ	43	LYS	3.5
1	BR	43	LYS	3.5
1	JI	130	GLU	3.5
1	KQ	84	GLY	3.5
1	CW	43	LYS	3.5
1	DR	43	LYS	3.5
1	LT	1	SER	3.5
1	IN	129	THR	3.5
1	KY	43	LYS	3.5
1	BM	1	SER	3.5
1	HB	42	ARG	3.5
1	HI	43	LYS	3.5
1	KW	129	THR	3.5
1	GC	130	GLU	3.5
1	ML	69	ARG	3.4
1	GL	1	SER	3.4
1	DC	1	SER	3.4
1	IV	43	LYS	3.4
1	HE	60	LEU	3.4
1	KV	42	ARG	3.4
1	JC	130	GLU	3.4
1	GO	43	LYS	3.4
1	GJ	47	GLY	3.4
1	IN	130	GLU	3.4

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Mol	Chain	Res	Type	RSRZ
1	CQ	43	LYS	3.3
1	FP	43	LYS	3.3
1	AU	1	SER	3.3
1	IJ	1	SER	3.3
1	IB	43	LYS	3.3
1	NP	70	ALA	3.3
1	DT	44	GLY	3.3
1	LM	43	LYS	3.3
1	HX	41	PRO	3.3
1	GZ	130	GLU	3.3
1	AZ	44	GLY	3.3
1	GL	130	GLU	3.3
1	GH	43	LYS	3.3
1	BW	1	SER	3.3
1	JR	130	GLU	3.3
1	MS	44	GLY	3.3
1	DP	115	GLY	3.2
1	JE	43	LYS	3.2
1	KP	43	LYS	3.2
1	EB	127	VAL	3.2
1	DW	1	SER	3.2
1	EF	3	PRO	3.2
1	AD	115	GLY	3.2
1	KS	69	ARG	3.2
1	ND	60	LEU	3.2
1	GA	44	GLY	3.2
1	HG	43	LYS	3.2
1	FY	63	ALA	3.2
1	FO	69	ARG	3.2
1	JX	69	ARG	3.2
1	IY	43	LYS	3.1
1	GE	1	SER	3.1
1	CP	130	GLU	3.1
1	EA	69	ARG	3.1
1	JL	115	GLY	3.1
1	EF	130	GLU	3.1
1	HI	42	ARG	3.1
1	GQ	43	LYS	3.1
1	DQ	1	SER	3.1
1	AJ	129	THR	3.1
1	GY	44	GLY	3.1
1	MT	130	GLU	3.1

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Mol	Chain	Res	Type	RSRZ
1	AB	1	SER	3.1
1	AZ	69	ARG	3.1
1	KV	43	LYS	3.1
1	HC	43	LYS	3.1
1	NF	115	GLY	3.1
1	AH	130	GLU	3.1
1	IG	1	SER	3.1
1	JQ	1	SER	3.1
1	KD	1	SER	3.1
1	IP	130	GLU	3.1
1	EM	43	LYS	3.1
1	CS	1	SER	3.1
1	GI	1	SER	3.1
1	IZ	1	SER	3.1
1	NL	1	SER	3.1
1	AH	43	LYS	3.1
1	IK	50	LYS	3.1
1	AF	5	ALA	3.0
1	IM	115	GLY	3.0
1	AO	43	LYS	3.0
1	KE	43	LYS	3.0
1	EC	1	SER	3.0
1	KF	10	ARG	3.0
1	HC	130	GLU	3.0
1	AE	43	LYS	3.0
1	AZ	1	SER	3.0
1	BH	127	VAL	3.0
1	CX	129	THR	3.0
1	LX	116	TYR	3.0
1	BP	115	GLY	3.0
1	BS	43	LYS	3.0
1	CX	1	SER	3.0
1	NC	130	GLU	3.0
1	NK	116	TYR	3.0
1	FT	43	LYS	3.0
1	KO	130	GLU	3.0
1	MT	1	SER	3.0
1	KS	115	GLY	3.0
1	MQ	130	GLU	3.0
1	ED	43	LYS	3.0
1	IV	1	SER	3.0
1	LP	43	LYS	3.0

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Mol	Chain	Res	Type	RSRZ
1	EY	47	GLY	2.9
1	NT	47	GLY	2.9
1	MM	129	THR	2.9
1	JC	43	LYS	2.9
1	BJ	1	SER	2.9
1	IM	43	LYS	2.9
1	FL	43	LYS	2.9
1	IN	128	ILE	2.9
1	HD	130	GLU	2.9
1	ER	43	LYS	2.9
1	KS	43	LYS	2.9
1	HF	1	SER	2.9
1	BD	43	LYS	2.9
1	GB	5	ALA	2.9
1	EO	69	ARG	2.9
1	BQ	81	PHE	2.9
1	CH	48	THR	2.9
1	MG	129	THR	2.9
1	HP	115	GLY	2.9
1	HS	64	GLY	2.9
1	IJ	42	ARG	2.9
1	JI	1	SER	2.9
1	AK	60	LEU	2.9
1	KJ	115	GLY	2.9
1	GC	129	THR	2.9
1	JU	1	SER	2.9
1	GJ	129	THR	2.9
1	GT	48	THR	2.9
1	JT	43	LYS	2.9
1	NT	42	ARG	2.9
1	LV	1	SER	2.9
1	IA	126	LEU	2.9
1	DI	1	SER	2.9
1	EF	1	SER	2.9
1	GQ	42	ARG	2.9
1	GV	1	SER	2.9
1	NU	43	LYS	2.9
1	DO	115	GLY	2.9
1	IO	84	GLY	2.9
1	LX	1	SER	2.9
1	DF	43	LYS	2.8
1	FL	44	GLY	2.8

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Mol	Chain	Res	Type	RSRZ
1	HS	43	LYS	2.8
1	IO	43	LYS	2.8
1	IG	10	ARG	2.8
1	NT	39	PRO	2.8
1	IP	60	LEU	2.8
1	MM	126	LEU	2.8
1	HK	129	THR	2.8
1	KJ	50	LYS	2.8
1	DT	43	LYS	2.8
1	IG	43	LYS	2.8
1	AE	1	SER	2.8
1	FH	115	GLY	2.8
1	CY	43	LYS	2.8
1	HM	43	LYS	2.8
1	HR	43	LYS	2.8
1	MI	43	LYS	2.8
1	NP	59	ILE	2.8
1	AI	69	ARG	2.8
1	CE	47	GLY	2.8
1	JK	2	LYS	2.8
1	HJ	128	ILE	2.8
1	LX	129	THR	2.8
1	HH	97	MET	2.8
1	BF	1	SER	2.8
1	CZ	43	LYS	2.8
1	LO	1	SER	2.8
1	NV	43	LYS	2.8
1	GX	130	GLU	2.8
1	LQ	130	GLU	2.8
1	NS	50	LYS	2.8
1	DB	1	SER	2.8
1	FL	116	TYR	2.7
1	BK	44	GLY	2.7
1	BU	60	LEU	2.7
1	HZ	129	THR	2.7
1	KJ	69	ARG	2.7
1	JF	60	LEU	2.7
1	DP	128	ILE	2.7
1	DR	130	GLU	2.7
1	EC	43	LYS	2.7
1	CV	43	LYS	2.7
1	AL	130	GLU	2.7

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Mol	Chain	Res	Type	RSRZ
1	JQ	130	GLU	2.7
1	NV	1	SER	2.7
1	ML	60	LEU	2.7
1	CH	47	GLY	2.7
1	HL	96	GLN	2.7
1	HN	127	VAL	2.7
1	ER	1	SER	2.7
1	IB	69	ARG	2.7
1	ES	128	ILE	2.7
1	HM	130	GLU	2.7
1	HE	126	LEU	2.7
1	EG	43	LYS	2.7
1	HU	42	ARG	2.7
1	KG	43	LYS	2.7
1	MA	5	ALA	2.7
1	CD	81	PHE	2.7
1	GO	50	LYS	2.7
1	AR	130	GLU	2.7
1	FT	82	PRO	2.7
1	GW	1	SER	2.7
1	MQ	43	LYS	2.7
1	DI	81	PHE	2.7
1	DL	43	LYS	2.7
1	FC	129	THR	2.7
1	BI	42	ARG	2.7
1	EA	43	LYS	2.7
1	EY	43	LYS	2.7
1	FS	130	GLU	2.7
1	IM	124	GLU	2.7
1	GX	117	VAL	2.7
1	ET	73	ILE	2.7
1	DE	43	LYS	2.7
1	ID	1	SER	2.7
1	FS	129	THR	2.7
1	ID	37	HIS	2.7
1	GN	43	LYS	2.7
1	MB	43	LYS	2.6
1	GO	48	THR	2.6
1	GU	43	LYS	2.6
1	JF	42	ARG	2.6
1	GY	129	THR	2.6
1	KO	129	THR	2.6

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Mol	Chain	Res	Type	RSRZ
1	IQ	130	GLU	2.6
1	BP	128	ILE	2.6
1	CG	1	SER	2.6
1	GC	115	GLY	2.6
1	NI	1	SER	2.6
1	BB	126	LEU	2.6
1	JR	1	SER	2.6
1	FH	43	LYS	2.6
1	GI	43	LYS	2.6
1	BK	130	GLU	2.6
1	IL	1	SER	2.6
1	DR	69	ARG	2.6
1	NM	42	ARG	2.6
1	HW	47	GLY	2.6
1	IH	5	ALA	2.6
1	MA	129	THR	2.6
1	CG	43	LYS	2.6
1	CT	43	LYS	2.6
1	FV	43	LYS	2.6
1	JZ	52	MET	2.6
1	KB	127	VAL	2.6
1	NT	44	GLY	2.6
1	ID	43	LYS	2.6
1	NO	70	ALA	2.6
1	AM	129	THR	2.6
1	DN	40	THR	2.6
1	DP	116	TYR	2.6
1	LM	19	PHE	2.6
1	MK	130	GLU	2.6
1	BE	127	VAL	2.6
1	FE	43	LYS	2.6
1	DC	115	GLY	2.6
1	EJ	115	GLY	2.6
1	CE	81	PHE	2.6
1	CZ	69	ARG	2.6
1	FQ	69	ARG	2.6
1	KA	1	SER	2.6
1	AN	43	LYS	2.6
1	KB	4	ILE	2.6
1	CE	83	VAL	2.6
1	LQ	47	GLY	2.6
1	ME	42	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
1	KU	43	LYS	2.5
1	MF	130	GLU	2.5
1	NF	43	LYS	2.5
1	FL	47	GLY	2.5
1	KY	128	ILE	2.5
1	HM	115	GLY	2.5
1	LQ	84	GLY	2.5
1	JU	59	ILE	2.5
1	AZ	52	MET	2.5
1	JP	124	GLU	2.5
1	MQ	1	SER	2.5
1	LK	69	ARG	2.5
1	MT	115	GLY	2.5
1	HB	43	LYS	2.5
1	MV	112	ALA	2.5
1	BI	130	GLU	2.5
1	DB	130	GLU	2.5
1	FK	47	GLY	2.5
1	KZ	81	PHE	2.5
1	HB	129	THR	2.5
1	LL	44	GLY	2.5
1	MR	43	LYS	2.5
1	MM	127	VAL	2.5
1	HD	69	ARG	2.5
1	DL	48	THR	2.5
1	LU	129	THR	2.5
1	HY	71	VAL	2.5
1	CQ	69	ARG	2.5
1	AT	48	THR	2.5
1	CC	1	SER	2.5
1	BD	69	ARG	2.5
1	CM	129	THR	2.5
1	GP	127	VAL	2.5
1	HO	129	THR	2.5
1	LW	69	ARG	2.5
1	EI	43	LYS	2.5
1	AX	69	ARG	2.5
1	BD	73	ILE	2.5
1	CU	129	THR	2.5
1	JW	43	LYS	2.5
1	JQ	83	VAL	2.5
1	AN	130	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
1	BG	130	GLU	2.5
1	ID	130	GLU	2.5
1	HV	126	LEU	2.5
1	EY	130	GLU	2.4
1	DB	43	LYS	2.4
1	FB	43	LYS	2.4
1	ME	127	VAL	2.4
1	NR	50	LYS	2.4
1	DT	72	PRO	2.4
1	BO	1	SER	2.4
1	DV	47	GLY	2.4
1	JI	83	VAL	2.4
1	AN	126	LEU	2.4
1	KJ	130	GLU	2.4
1	GM	44	GLY	2.4
1	II	44	GLY	2.4
1	FT	81	PHE	2.4
1	LE	130	GLU	2.4
1	MR	72	PRO	2.4
1	FO	116	TYR	2.4
1	LH	98	ALA	2.4
1	GA	43	LYS	2.4
1	GL	126	LEU	2.4
1	KO	10	ARG	2.4
1	NJ	48	THR	2.4
1	AU	47	GLY	2.4
1	CV	98	ALA	2.4
1	DW	60	LEU	2.4
1	CC	130	GLU	2.4
1	ED	80	SER	2.4
1	IZ	130	GLU	2.4
1	JF	69	ARG	2.4
1	NK	69	ARG	2.4
1	CO	84	GLY	2.4
1	MR	70	ALA	2.4
1	LN	42	ARG	2.4
1	KX	84	GLY	2.4
1	NR	78	GLU	2.4
1	CT	1	SER	2.4
1	FS	42	ARG	2.4
1	GB	126	LEU	2.4
1	GC	69	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
1	AW	130	GLU	2.4
1	BN	75	ILE	2.4
1	EF	43	LYS	2.4
1	MZ	44	GLY	2.4
1	IQ	48	THR	2.4
1	KH	115	GLY	2.4
1	FG	43	LYS	2.4
1	JA	42	ARG	2.4
1	JW	49	VAL	2.4
1	DK	80	SER	2.4
1	JC	129	THR	2.4
1	HS	84	GLY	2.3
1	NL	43	LYS	2.3
1	HL	123	ILE	2.3
1	HJ	69	ARG	2.3
1	HR	1	SER	2.3
1	LK	116	TYR	2.3
1	HY	69	ARG	2.3
1	LG	42	ARG	2.3
1	GB	2	LYS	2.3
1	LJ	43	LYS	2.3
1	LS	130	GLU	2.3
1	ME	1	SER	2.3
1	MV	69	ARG	2.3
1	EO	61	LEU	2.3
1	AS	129	THR	2.3
1	BS	48	THR	2.3
1	KS	70	ALA	2.3
1	LD	43	LYS	2.3
1	BI	43	LYS	2.3
1	EV	73	ILE	2.3
1	FS	43	LYS	2.3
1	IV	81	PHE	2.3
1	JO	130	GLU	2.3
1	KY	130	GLU	2.3
1	MZ	130	GLU	2.3
1	NP	78	GLU	2.3
1	AM	69	ARG	2.3
1	KH	73	ILE	2.3
1	BO	43	LYS	2.3
1	LD	130	GLU	2.3
1	CJ	44	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
1	FC	69	ARG	2.3
1	CF	73	ILE	2.3
1	JO	43	LYS	2.3
1	JD	129	THR	2.3
1	KB	44	GLY	2.3
1	IW	69	ARG	2.3
1	HN	73	ILE	2.3
1	NJ	47	GLY	2.3
1	DD	109	GLN	2.3
1	JY	127	VAL	2.3
1	NM	43	LYS	2.3
1	EJ	130	GLU	2.3
1	ED	42	ARG	2.3
1	JP	73	ILE	2.3
1	ME	43	LYS	2.3
1	GO	49	VAL	2.3
1	AC	72	PRO	2.3
1	JK	1	SER	2.3
1	CB	69	ARG	2.3
1	AB	43	LYS	2.3
1	IG	70	ALA	2.3
1	BM	83	VAL	2.3
1	BF	42	ARG	2.3
1	BI	1	SER	2.3
1	GF	130	GLU	2.3
1	IW	130	GLU	2.3
1	IX	1	SER	2.3
1	GD	116	TYR	2.3
1	LF	82	PRO	2.2
1	LU	42	ARG	2.2
1	BH	1	SER	2.2
1	DY	73	ILE	2.2
1	JR	83	VAL	2.2
1	JK	116	TYR	2.2
1	EK	42	ARG	2.2
1	EN	130	GLU	2.2
1	FR	44	GLY	2.2
1	HC	1	SER	2.2
1	JH	60	LEU	2.2
1	BP	100	PHE	2.2
1	GM	69	ARG	2.2
1	BA	64	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
1	CH	50	LYS	2.2
1	FY	64	GLY	2.2
1	ID	84	GLY	2.2
1	DH	130	GLU	2.2
1	FD	43	LYS	2.2
1	EA	49	VAL	2.2
1	NA	83	VAL	2.2
1	JK	69	ARG	2.2
1	AT	45	ASN	2.2
1	EU	44	GLY	2.2
1	IN	60	LEU	2.2
1	KD	115	GLY	2.2
1	NV	111	LEU	2.2
1	BO	42	ARG	2.2
1	GL	43	LYS	2.2
1	MH	1	SER	2.2
1	JG	96	GLN	2.2
1	AT	42	ARG	2.2
1	KT	69	ARG	2.2
1	JX	1	SER	2.2
1	LV	43	LYS	2.2
1	CJ	48	THR	2.2
1	DT	69	ARG	2.2
1	MA	70	ALA	2.2
1	AC	1	SER	2.2
1	GT	1	SER	2.2
1	DM	115	GLY	2.2
1	GB	43	LYS	2.2
1	FG	1	SER	2.2
1	IS	43	LYS	2.2
1	KO	66	ALA	2.2
1	DT	109	GLN	2.2
1	CT	60	LEU	2.2
1	AJ	43	LYS	2.2
1	AN	42	ARG	2.2
1	CA	43	LYS	2.2
1	DP	1	SER	2.2
1	NR	42	ARG	2.2
1	EZ	69	ARG	2.2
1	IZ	129	THR	2.2
1	II	43	LYS	2.2
1	HI	97	MET	2.2

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Mol	Chain	Res	Type	RSRZ
1	DL	96	GLN	2.2
1	NG	83	VAL	2.2
1	AU	43	LYS	2.2
1	LY	43	LYS	2.2
1	NN	69	ARG	2.2
1	NQ	44	GLY	2.2
1	FR	1	SER	2.2
1	BN	73	ILE	2.2
1	BY	43	LYS	2.2
1	EV	56	ARG	2.2
1	FO	126	LEU	2.2
1	FO	127	VAL	2.2
1	IW	43	LYS	2.2
1	KP	69	ARG	2.2
1	DJ	44	GLY	2.2
1	EF	81	PHE	2.2
1	GR	47	GLY	2.2
1	KB	1	SER	2.2
1	NG	1	SER	2.2
1	EM	74	VAL	2.2
1	MQ	69	ARG	2.2
1	BQ	44	GLY	2.2
1	BA	80	SER	2.2
1	HX	1	SER	2.2
1	ND	43	LYS	2.2
1	NQ	81	PHE	2.2
1	GX	116	TYR	2.1
1	DC	43	LYS	2.1
1	JD	83	VAL	2.1
1	LI	60	LEU	2.1
1	AE	65	THR	2.1
1	FZ	43	LYS	2.1
1	IK	70	ALA	2.1
1	IM	69	ARG	2.1
1	NF	130	GLU	2.1
1	AM	95	LYS	2.1
1	GU	73	ILE	2.1
1	JC	125	ASP	2.1
1	EX	43	LYS	2.1
1	AP	113	TYR	2.1
1	BJ	47	GLY	2.1
1	DP	129	THR	2.1

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Mol	Chain	Res	Type	RSRZ
1	KQ	85	THR	2.1
1	LI	129	THR	2.1
1	KV	41	PRO	2.1
1	LZ	81	PHE	2.1
1	EK	44	GLY	2.1
1	GP	44	GLY	2.1
1	AP	129	THR	2.1
1	DK	112	ALA	2.1
1	JE	42	ARG	2.1
1	KJ	49	VAL	2.1
1	KU	60	LEU	2.1
1	DQ	34	ILE	2.1
1	GF	75	ILE	2.1
1	DM	44	GLY	2.1
1	GR	115	GLY	2.1
1	HE	44	GLY	2.1
1	KX	43	LYS	2.1
1	CE	49	VAL	2.1
1	JV	127	VAL	2.1
1	MX	69	ARG	2.1
1	CR	96	GLN	2.1
1	CX	116	TYR	2.1
1	DT	45	ASN	2.1
1	EP	72	PRO	2.1
1	FQ	6	ILE	2.1
1	LQ	73	ILE	2.1
1	JT	130	GLU	2.1
1	DU	117	VAL	2.1
1	KB	5	ALA	2.1
1	DQ	48	THR	2.1
1	HY	1	SER	2.1
1	LK	43	LYS	2.1
1	BR	44	GLY	2.1
1	FN	69	ARG	2.1
1	EL	69	ARG	2.1
1	BZ	126	LEU	2.1
1	CY	126	LEU	2.1
1	DO	83	VAL	2.1
1	MC	60	LEU	2.1
1	MY	126	LEU	2.1
1	AQ	42	ARG	2.1
1	CI	49	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
1	FR	129	THR	2.1
1	JQ	115	GLY	2.1
1	KQ	83	VAL	2.1
1	FR	128	ILE	2.1
1	NQ	73	ILE	2.1
1	CJ	1	SER	2.1
1	LG	115	GLY	2.1
1	NV	83	VAL	2.1
1	BZ	129	THR	2.1
1	CR	85	THR	2.1
1	JK	48	THR	2.1
1	AS	116	TYR	2.1
1	KG	69	ARG	2.1
1	KN	42	ARG	2.1
1	CO	83	VAL	2.1
1	DD	1	SER	2.1
1	JC	115	GLY	2.1
1	ID	2	LYS	2.1
1	NA	66	ALA	2.1
1	AL	69	ARG	2.1
1	JO	69	ARG	2.1
1	BN	127	VAL	2.1
1	MD	127	VAL	2.1
1	NR	130	GLU	2.1
1	BU	1	SER	2.0
1	CG	95	LYS	2.0
1	JG	43	LYS	2.0
1	CJ	42	ARG	2.0
1	DI	69	ARG	2.0
1	KZ	116	TYR	2.0
1	NP	69	ARG	2.0
1	AE	64	GLY	2.0
1	HR	115	GLY	2.0
1	MX	43	LYS	2.0
1	NA	47	GLY	2.0
1	FJ	1	SER	2.0
1	HC	66	ALA	2.0
1	IC	82	PRO	2.0
1	HF	69	ARG	2.0
1	JC	69	ARG	2.0
1	LP	42	ARG	2.0
1	DP	117	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
1	CD	1	SER	2.0
1	ET	1	SER	2.0
1	FA	10	ARG	2.0
1	JP	5	ALA	2.0
1	MC	69	ARG	2.0
1	DG	43	LYS	2.0
1	BA	115	GLY	2.0
1	KS	130	GLU	2.0
1	CY	102	ILE	2.0
1	JV	128	ILE	2.0
1	LJ	70	ALA	2.0
1	BZ	114	SER	2.0
1	JB	1	SER	2.0
1	BM	43	LYS	2.0
1	EV	43	LYS	2.0
1	DJ	69	ARG	2.0
1	GQ	69	ARG	2.0
1	JS	42	ARG	2.0
1	KV	1	SER	2.0
1	LY	113	TYR	2.0
1	EE	43	LYS	2.0
1	IB	50	LYS	2.0
1	MI	1	SER	2.0
1	NF	1	SER	2.0
1	NI	43	LYS	2.0
1	HD	47	GLY	2.0
1	HW	129	THR	2.0
1	LT	47	GLY	2.0
1	NG	47	GLY	2.0
1	JV	42	ARG	2.0
1	BN	74	VAL	2.0
1	HU	1	SER	2.0
1	AZ	42	ARG	2.0
1	DJ	42	ARG	2.0
1	AP	73	ILE	2.0
1	MH	70	ALA	2.0
1	KS	60	LEU	2.0
1	BX	115	GLY	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)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	CA	NU	201	1/1	0.87	0.33	148,148,148,148	0
2	CA	AJ	201	1/1	0.89	0.36	148,148,148,148	0
2	CA	MN	201	1/1	0.91	0.34	148,148,148,148	0
2	CA	CM	201	1/1	0.91	0.36	148,148,148,148	0
2	CA	EI	201	1/1	0.92	0.27	148,148,148,148	0
2	CA	FM	201	1/1	0.92	0.25	148,148,148,148	0
2	CA	FY	201	1/1	0.93	0.28	148,148,148,148	0
2	CA	GZ	201	1/1	0.93	0.50	148,148,148,148	0
2	CA	JT	201	1/1	0.93	0.65	148,148,148,148	0
2	CA	DH	201	1/1	0.93	0.29	148,148,148,148	0
2	CA	NL	201	1/1	0.93	0.40	148,148,148,148	0
2	CA	DT	201	1/1	0.93	0.32	148,148,148,148	0
2	CA	CD	201	1/1	0.94	0.34	148,148,148,148	0
2	CA	IS	201	1/1	0.94	0.46	148,148,148,148	0
2	CA	NO	201	1/1	0.94	0.34	148,148,148,148	0
2	CA	FJ	201	1/1	0.94	0.36	148,148,148,148	0
2	CA	DZ	201	1/1	0.95	0.34	148,148,148,148	0
2	CA	CO	201	1/1	0.95	0.41	148,148,148,148	0
2	CA	JQ	201	1/1	0.95	0.32	148,148,148,148	0
2	CA	FA	201	1/1	0.95	0.36	148,148,148,148	0
2	CA	JZ	201	1/1	0.95	0.42	148,148,148,148	0
2	CA	KR	201	1/1	0.95	0.26	148,148,148,148	0
2	CA	LJ	201	1/1	0.95	0.35	148,148,148,148	0
2	CA	LM	201	1/1	0.95	0.29	148,148,148,148	0
2	CA	FG	201	1/1	0.95	0.29	148,148,148,148	0
2	CA	DE	201	1/1	0.95	0.47	148,148,148,148	0
2	CA	AQ	201	1/1	0.95	0.38	148,148,148,148	0
2	CA	AZ	201	1/1	0.95	0.36	148,148,148,148	0
2	CA	HC	201	1/1	0.96	0.51	148,148,148,148	0
2	CA	KL	201	1/1	0.96	0.41	148,148,148,148	0
2	CA	HO	201	1/1	0.96	0.32	148,148,148,148	0
2	CA	IJ	201	1/1	0.96	0.37	148,148,148,148	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	CA	EF	201	1/1	0.96	0.36	148,148,148,148	0
2	CA	LS	201	1/1	0.96	0.28	148,148,148,148	0
2	CA	JH	201	1/1	0.96	0.34	148,148,148,148	0
2	CA	JN	201	1/1	0.96	0.37	148,148,148,148	0
2	CA	EC	201	1/1	0.96	0.26	148,148,148,148	0
2	CA	EU	201	1/1	0.96	0.43	148,148,148,148	0
2	CA	EX	201	1/1	0.97	0.32	148,148,148,148	0
2	CA	BU	201	1/1	0.97	0.29	148,148,148,148	0
2	CA	DQ	201	1/1	0.97	0.32	148,148,148,148	0
2	CA	BX	201	1/1	0.97	0.38	148,148,148,148	0
2	CA	AT	201	1/1	0.97	0.29	148,148,148,148	0
2	CA	KF	201	1/1	0.97	0.27	148,148,148,148	0
2	CA	FV	201	1/1	0.97	0.21	148,148,148,148	0
2	CA	EB	201	1/1	0.97	0.26	148,148,148,148	0
2	CA	LG	201	1/1	0.97	0.33	148,148,148,148	0
2	CA	GK	201	1/1	0.97	0.33	148,148,148,148	0
2	CA	AH	201	1/1	0.97	0.37	148,148,148,148	0
2	CA	BF	201	1/1	0.97	0.33	148,148,148,148	0
2	CA	LV	201	1/1	0.97	0.34	148,148,148,148	0
2	CA	MK	201	1/1	0.97	0.29	148,148,148,148	0
2	CA	CV	201	1/1	0.97	0.34	148,148,148,148	0
2	CA	MW	201	1/1	0.97	0.40	148,148,148,148	0
2	CA	MZ	201	1/1	0.97	0.25	148,148,148,148	0
2	CA	NF	201	1/1	0.97	0.30	148,148,148,148	0
2	CA	ID	201	1/1	0.97	0.36	148,148,148,148	0
2	CA	EO	201	1/1	0.97	0.37	148,148,148,148	0
2	CA	NR	201	1/1	0.97	0.42	148,148,148,148	0
2	CA	BL	201	1/1	0.97	0.27	148,148,148,148	0
2	CA	BC	201	1/1	0.98	0.28	148,148,148,148	0
2	CA	AN	201	1/1	0.98	0.34	148,148,148,148	0
2	CA	GB	201	1/1	0.98	0.35	148,148,148,148	0
2	CA	GE	201	1/1	0.98	0.33	148,148,148,148	0
2	CA	GH	201	1/1	0.98	0.34	148,148,148,148	0
2	CA	ER	201	1/1	0.98	0.36	148,148,148,148	0
2	CA	GQ	201	1/1	0.98	0.41	148,148,148,148	0
2	CA	KO	201	1/1	0.98	0.17	148,148,148,148	0
2	CA	GS	201	1/1	0.98	0.42	148,148,148,148	0
2	CA	KU	201	1/1	0.98	0.33	148,148,148,148	0
2	CA	KX	201	1/1	0.98	0.34	148,148,148,148	0
2	CA	LD	201	1/1	0.98	0.32	148,148,148,148	0
2	CA	BI	201	1/1	0.98	0.33	148,148,148,148	0
2	CA	DW	201	1/1	0.98	0.34	148,148,148,148	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	CA	HF	201	1/1	0.98	0.35	148,148,148,148	0
2	CA	LP	201	1/1	0.98	0.26	148,148,148,148	0
2	CA	AB	201	1/1	0.98	0.36	148,148,148,148	0
2	CA	HR	201	1/1	0.98	0.37	148,148,148,148	0
2	CA	ME	201	1/1	0.98	0.43	148,148,148,148	0
2	CA	MH	201	1/1	0.98	0.39	148,148,148,148	0
2	CA	HU	201	1/1	0.98	0.46	148,148,148,148	0
2	CA	IA	201	1/1	0.98	0.20	148,148,148,148	0
2	CA	MQ	201	1/1	0.98	0.21	148,148,148,148	0
2	CA	MT	201	1/1	0.98	0.32	148,148,148,148	0
2	CA	CS	201	1/1	0.98	0.39	148,148,148,148	0
2	CA	IG	201	1/1	0.98	0.32	148,148,148,148	0
2	CA	NC	201	1/1	0.98	0.27	148,148,148,148	0
2	CA	BO	201	1/1	0.98	0.35	148,148,148,148	0
2	CA	IM	201	1/1	0.98	0.34	148,148,148,148	0
2	CA	BB	201	1/1	0.98	0.60	148,148,148,148	0
2	CA	IY	201	1/1	0.98	0.25	148,148,148,148	0
2	CA	JE	201	1/1	0.98	0.31	148,148,148,148	0
2	CA	KZ	201	1/1	0.99	0.33	148,148,148,148	0
2	CA	LA	201	1/1	0.99	0.27	148,148,148,148	0
2	CA	GT	201	1/1	0.99	0.42	148,148,148,148	0
2	CA	GW	201	1/1	0.99	0.31	148,148,148,148	0
2	CA	IV	201	1/1	0.99	0.23	148,148,148,148	0
2	CA	FS	201	1/1	0.99	0.31	148,148,148,148	0
2	CA	JB	201	1/1	0.99	0.42	148,148,148,148	0
2	CA	JD	201	1/1	0.99	0.37	148,148,148,148	0
2	CA	CY	201	1/1	0.99	0.25	148,148,148,148	0
2	CA	LY	201	1/1	0.99	0.37	148,148,148,148	0
2	CA	MB	201	1/1	0.99	0.34	148,148,148,148	0
2	CA	AK	201	1/1	0.99	0.33	148,148,148,148	0
2	CA	HI	201	1/1	0.99	0.23	148,148,148,148	0
2	CA	HL	201	1/1	0.99	0.32	148,148,148,148	0
2	CA	CA	201	1/1	0.99	0.24	148,148,148,148	0
2	CA	JW	201	1/1	0.99	0.20	148,148,148,148	0
2	CA	CP	201	1/1	0.99	0.39	148,148,148,148	0
2	CA	KC	201	1/1	0.99	0.24	148,148,148,148	0
2	CA	FD	201	1/1	0.99	0.35	148,148,148,148	0
2	CA	KI	201	1/1	0.99	0.24	148,148,148,148	0
2	CA	HX	201	1/1	0.99	0.32	148,148,148,148	0
2	CA	NI	201	1/1	0.99	0.33	148,148,148,148	0
2	CA	AW	201	1/1	0.99	0.42	148,148,148,148	0
2	CA	GN	201	1/1	0.99	0.40	148,148,148,148	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	CA	EL	201	1/1	0.99	0.47	148,148,148,148	0
2	CA	CG	201	1/1	0.99	0.31	148,148,148,148	0
2	CA	CJ	201	1/1	1.00	0.41	148,148,148,148	0
2	CA	DB	201	1/1	1.00	0.33	148,148,148,148	0

6.5 Other polymers (i)

There are no such residues in this entry.