Full wwPDB EM Validation Report ⓘ

Nov 10, 2024 – 07:40 AM EST

PDB ID	:	7LHD
EMDB ID	:	EMD-23336
Title	:	The complete model of phage Qbeta virion
Authors	:	Chang, J.Y.; Zhang, J.
Deposited on	:	2021-01-22
Resolution	:	4.60 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp
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:

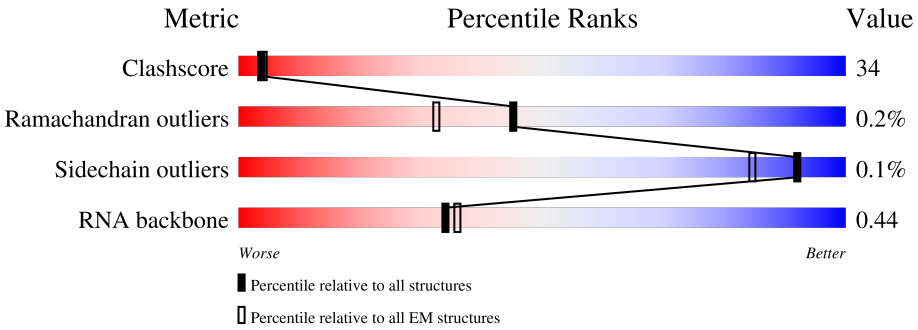
EMDB validation analysis	:	0.0.1.dev113
MolProbity	:	4.02b-467
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 4.60 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)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415
RNA backbone	6643	2191

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	4217	57% 30% 52% 17%
2	M	420	48% 65% 35%
3	B	133	92% 74% 25%
3	BA	133	6% 47% 53%
3	BB	133	5% 44% 52%
3	BC	133	5% 49% 50%
3	BD	133	5% 48% 50%

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Mol	Chain	Length	Quality of chain
3	BE	133	51% 48%
3	BF	133	6% 53% 46%
3	BG	133	8% 44% 54%
3	BH	133	54% 43%
3	BI	133	7% 48% 51%
3	BJ	133	8% 53% 45%
3	BK	133	47% 53%
3	BL	133	5% 53% 47%
3	BM	133	8% 55% 44%
3	BN	133	56% 42%
3	CA	133	7% 49% 50%
3	CB	133	5% 43% 56%
3	CC	133	5% 44% 52%
3	CD	133	5% 50% 48%
3	CE	133	8% 50% 49%
3	CF	133	5% 52% 47%
3	CG	133	50% 49%
3	CH	133	5% 50% 48%
3	CI	133	5% 46% 52%
3	CJ	133	6% 50% 47%
3	CK	133	7% 55% 44%
3	CL	133	52% 47%
3	CM	133	8% 49% 50%
3	CN	133	7% 47% 52%
3	D	133	94% 75% 24%

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Mol	Chain	Length	Quality of chain
3	DA	133	6% 56% 43%
3	DB	133	8% 50% 49%
3	DC	133	7% 44% 55%
3	DD	133	5% 54% 44%
3	DE	133	8% 49% 49%
3	DF	133	8% 47% 52%
3	DG	133	56% 41%
3	DH	133	8% 49% 50%
3	DI	133	7% 54% 44%
3	DJ	133	5% 53% 45%
3	DK	133	5% 51% 48%
3	DL	133	8% 45% 53%
3	DM	133	6% 51% 47%
3	DN	133	8% 56% 43%
3	EA	133	8% 51% 48%
3	EB	133	48% 49%
3	EC	133	11% 50% 50%
3	ED	133	15% 49% 50%
3	EE	133	19% 41% 58%
3	EF	133	11% 57% 41%
3	EG	133	41% 45% 54%
3	EH	133	11% 56% 42%
3	EI	133	5% 39% 59%
3	EJ	133	6% 42% 56%
3	EK	133	5% 50% 48%

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Mol	Chain	Length	Quality of chain
3	EL	133	7% 44% 55%
3	EM	133	11% 56% 43%
3	EN	133	52% 47%
3	FA	133	10% 50% 49%
3	FB	133	32% 47% 52%
3	FC	133	50% 58% 40%
3	FD	133	47% 51% 41% 8%
3	FE	133	14% 53% 45%
3	FF	133	35% 57% 41%
3	FG	133	44% 62% 36%
3	FH	133	17% 50% 50%
3	FI	133	17% 48% 51%
3	FJ	133	8% 45% 53%
3	FK	133	6% 45% 51%
3	FL	133	8% 47% 52%
3	FM	133	11% 44% 56%
3	FN	133	5% 41% 57%
3	GA	133	11% 45% 54%
3	GB	133	58% 56% 38% 7%
3	GC	133	38% 53% 46%
3	GD	133	15% 45% 53%
3	GE	133	7% 53% 47%
3	GF	133	5% 50% 49%
3	GG	133	5% 50% 47%
3	GH	133	7% 44% 54%

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Mol	Chain	Length	Quality of chain
3	GI	133	6% 54% 45%
3	GJ	133	7% 47% 52%
3	GK	133	5% 42% 56%
3	GL	133	7% 50% 50%
3	GM	133	7% 48% 50%
3	GN	133	41% 57%
3	HA	133	8% 48% 50%
3	HB	133	10% 45% 53%
3	HC	133	8% 48% 50%
3	HD	133	8% 50% 49%
3	HE	133	8% 52% 47%
3	HF	133	7% 61% 38%
3	HG	133	7% 55% 44%
3	HH	133	8% 54% 44%
3	HI	133	45% 53%
3	HJ	133	5% 44% 56%
3	HK	133	6% 44% 53%
3	HL	133	45% 53%
3	HM	133	5% 54% 45%
3	HN	133	46% 53%
3	IA	133	5% 47% 51%
3	IB	133	5% 56% 44%
3	IC	133	5% 50% 49%
3	ID	133	44% 55%
3	IE	133	5% 49% 50%

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Mol	Chain	Length	Quality of chain
3	IF	133	7% 53% 46%
3	IG	133	51% 47%
3	IH	133	8% 53% 46%
3	II	133	7% 50% 48%
3	IJ	133	51% 47%
3	IK	133	5% 52% 47%
3	IL	133	7% 44% 55%
3	IM	133	5% 52% 47%
3	IN	133	6% 55% 44%
3	JA	133	7% 44% 53%
3	JB	133	5% 56% 41%
3	JC	133	7% 56% 42%
3	JD	133	7% 47% 52%
3	JE	133	50% 48%
3	JF	133	5% 53% 45%
3	JG	133	6% 47% 50%
3	JH	133	5% 59% 39%
3	JI	133	8% 47% 53%
3	JJ	133	6% 49% 50%
3	JK	133	6% 48% 50%
3	JL	133	5% 54% 44%
3	JM	133	7% 44% 54%
3	JN	133	50% 47%
3	KA	133	7% 57% 42%
3	KB	133	8% 45% 53%

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Mol	Chain	Length	Quality of chain
3	KC	133	5% 50% 49%
3	KD	133	11% 63% 36%
3	KE	133	25% 53% 46%
3	KF	133	13% 46% 51%
3	KG	133	33% 52% 47%
3	KH	133	8% 50% 47%
3	KI	133	8% 50% 47%
3	KJ	133	6% 43% 56%
3	KK	133	8% 51% 47%
3	KL	133	8% 51% 47%
3	KM	133	7% 52% 47%
3	KN	133	6% 42% 57%
3	LA	133	45% 53%
3	LB	133	5% 47% 51%
3	LC	133	8% 52% 47%
3	LD	133	5% 50% 47%
3	LE	133	8% 46% 53%
3	LF	133	47% 56% 44%
3	LG	133	16% 49% 48%
3	LH	133	51% 53% 47%
3	LI	133	17% 61% 38%
3	LJ	133	32% 52% 47%
3	LK	133	17% 50% 49%
3	LL	133	10% 53% 45%
3	LM	133	7% 48% 50%

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Mol	Chain	Length	Quality of chain
3	LN	133	8% 56% 43%
3	MA	133	6% 43% 55%
3	MB	133	6% 50% 48%
3	MC	133	8% 47% 50%
3	MD	133	9% 48% 51%
3	ME	133	5% 50% 48%
3	MF	133	7% 51% 46%
3	MG	133	15% 50% 49%
3	MH	133	9% 45% 54%
3	MI	133	9% 48% 50%
3	MJ	133	6% 50% 48%
3	MK	133	5% 46% 52%
3	ML	133	6% 47% 51%
3	MM	133	8% 44% 54%
3	MN	133	41% 58%
3	NA	133	6% 54% 45%
3	NB	133	7% 56% 43%
3	NC	133	47% 50%
3	ND	133	7% 53% 46%
3	NE	133	7% 47% 53%
3	NF	133	53% 45%
3	NG	133	8% 53% 46%
3	NH	133	6% 50% 48%
3	NI	133	5% 51% 47%
3	NJ	133	7% 50% 48%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 271383 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 RNA chain called Genomic RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
1	A	4217	89319	39933	15385	29784	4217	0	0

- Molecule 2 is a protein called Maturation protein A2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	M	419	3438	2210	615	610	3	0	0

- Molecule 3 is a protein called Capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	B	132	993	616	177	198	2	0	0
3	D	132	993	616	177	198	2	0	0
3	BA	132	993	616	177	198	2	0	0
3	BB	132	993	616	177	198	2	0	0
3	BC	132	993	616	177	198	2	0	0
3	BD	132	993	616	177	198	2	0	0
3	BE	132	993	616	177	198	2	0	0
3	BF	132	993	616	177	198	2	0	0
3	BG	132	993	616	177	198	2	0	0
3	BH	132	993	616	177	198	2	0	0
3	BI	132	993	616	177	198	2	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	BJ	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	BK	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	BL	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	BM	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	BN	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CA	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CB	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CC	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CD	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CE	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CF	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CG	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CH	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CI	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CJ	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CK	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CL	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CM	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	CN	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	DA	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	DB	132	Total	C	N	O	S	0	0
			993	616	177	198	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	DC	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	DD	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	DE	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	DF	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	DG	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	DH	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	DI	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	DJ	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	DK	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	DL	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	DM	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	DN	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	EA	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	EB	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	EC	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	ED	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	EE	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	EF	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	EG	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	EH	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	EI	132	Total	C	N	O	S	0	0
			993	616	177	198	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	EJ	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	EK	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	EL	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	EM	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	EN	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	FA	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	FB	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	FC	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	FD	122	Total	C	N	O		0	0
			930	582	166	182			
3	FE	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	FF	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	FG	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	FH	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	FI	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	FJ	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	FK	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	FL	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	FM	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	FN	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	GA	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	GB	124	Total	C	N	O	S	0	0
			942	588	168	185	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	GC	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	GD	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	GE	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	GF	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	GG	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	GH	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	GI	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	GJ	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	GK	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	GL	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	GM	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	GN	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	HA	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	HB	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	HC	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	HD	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	HE	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	HF	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	HG	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	HH	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	HI	132	Total	C	N	O	S	0	0
			993	616	177	198	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	HJ	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	HK	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	HL	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	HM	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	HN	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	IA	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	IB	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	IC	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	ID	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	IE	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	IF	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	IG	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	IH	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	II	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	IJ	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	IK	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	IL	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	IM	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	IN	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	JA	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	JB	132	Total	C	N	O	S	0	0
			993	616	177	198	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	JC	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	JD	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	JE	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	JF	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	JG	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	JH	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	JI	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	JJ	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	JK	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	JL	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	JM	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	JN	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	KA	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	KB	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	KC	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	KD	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	KE	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	KF	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	KG	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	KH	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	KI	132	Total	C	N	O	S	0	0
			993	616	177	198	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	KJ	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	KK	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	KL	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	KM	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	KN	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LA	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LB	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LC	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LD	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LE	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LF	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LG	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LH	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LI	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LJ	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LK	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LL	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LM	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	LN	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	MA	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	MB	132	Total	C	N	O	S	0	0
			993	616	177	198	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	MC	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	MD	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	ME	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	MF	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	MG	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	MH	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	MI	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	MJ	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	MK	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	ML	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	MM	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	MN	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	NA	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	NB	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	NC	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	ND	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	NE	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	NF	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	NG	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	NH	132	Total	C	N	O	S	0	0
			993	616	177	198	2		
3	NI	132	Total	C	N	O	S	0	0
			993	616	177	198	2		

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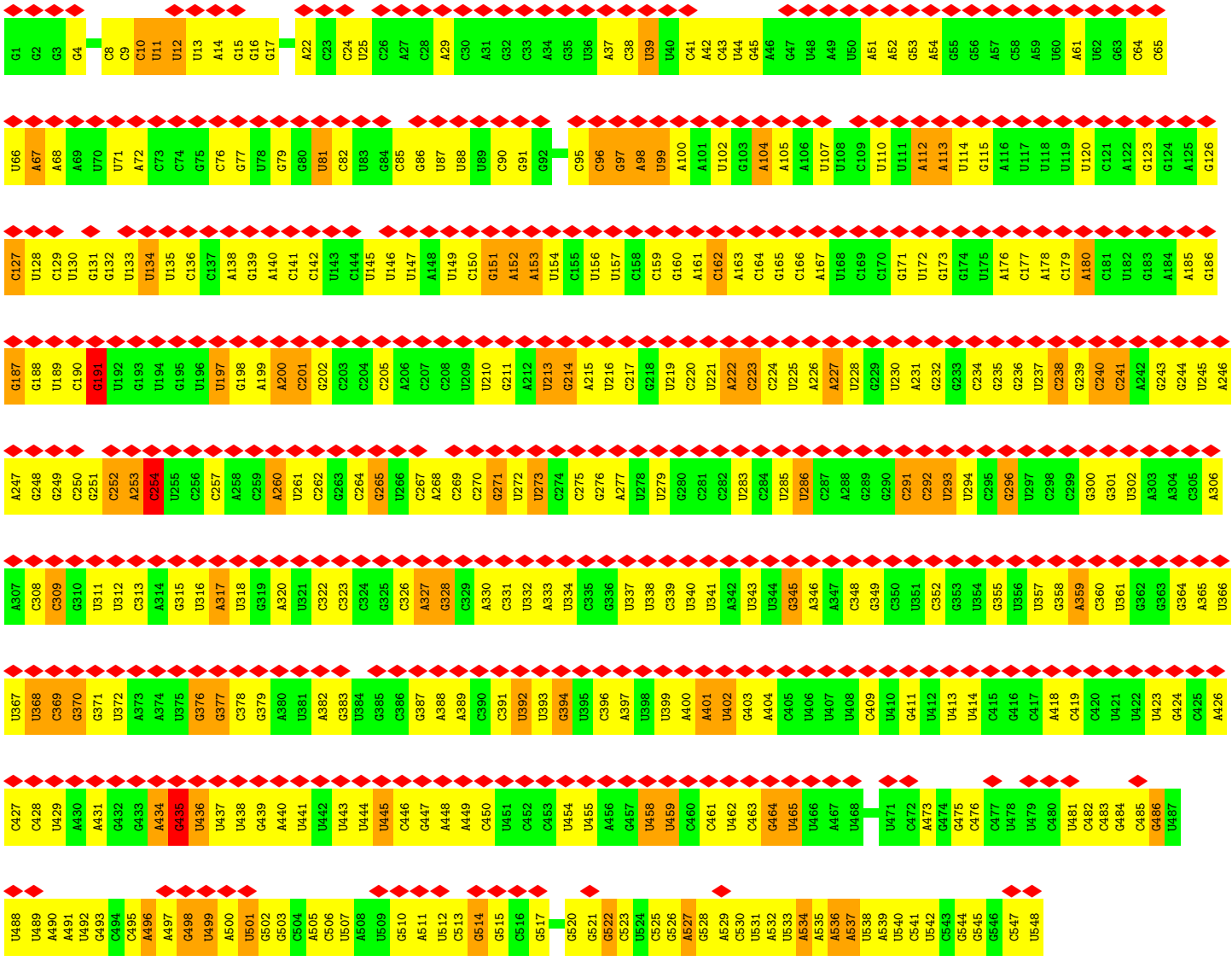
Mol	Chain	Residues	Atoms					AltConf	Trace
3	NJ	132	Total	C	N	O	S	0	0
			993	616	177	198	2		

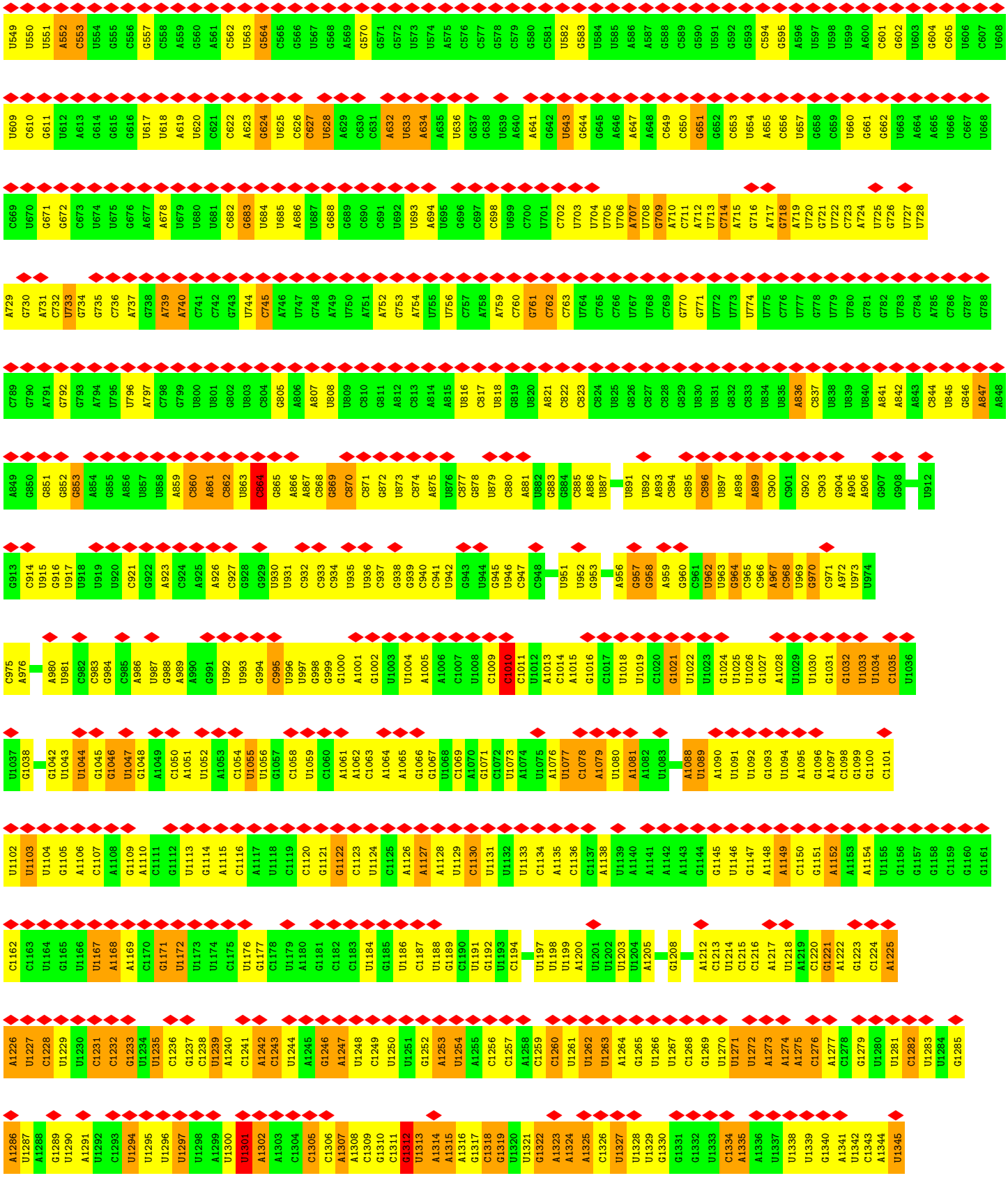
3 Residue-property plots (i)

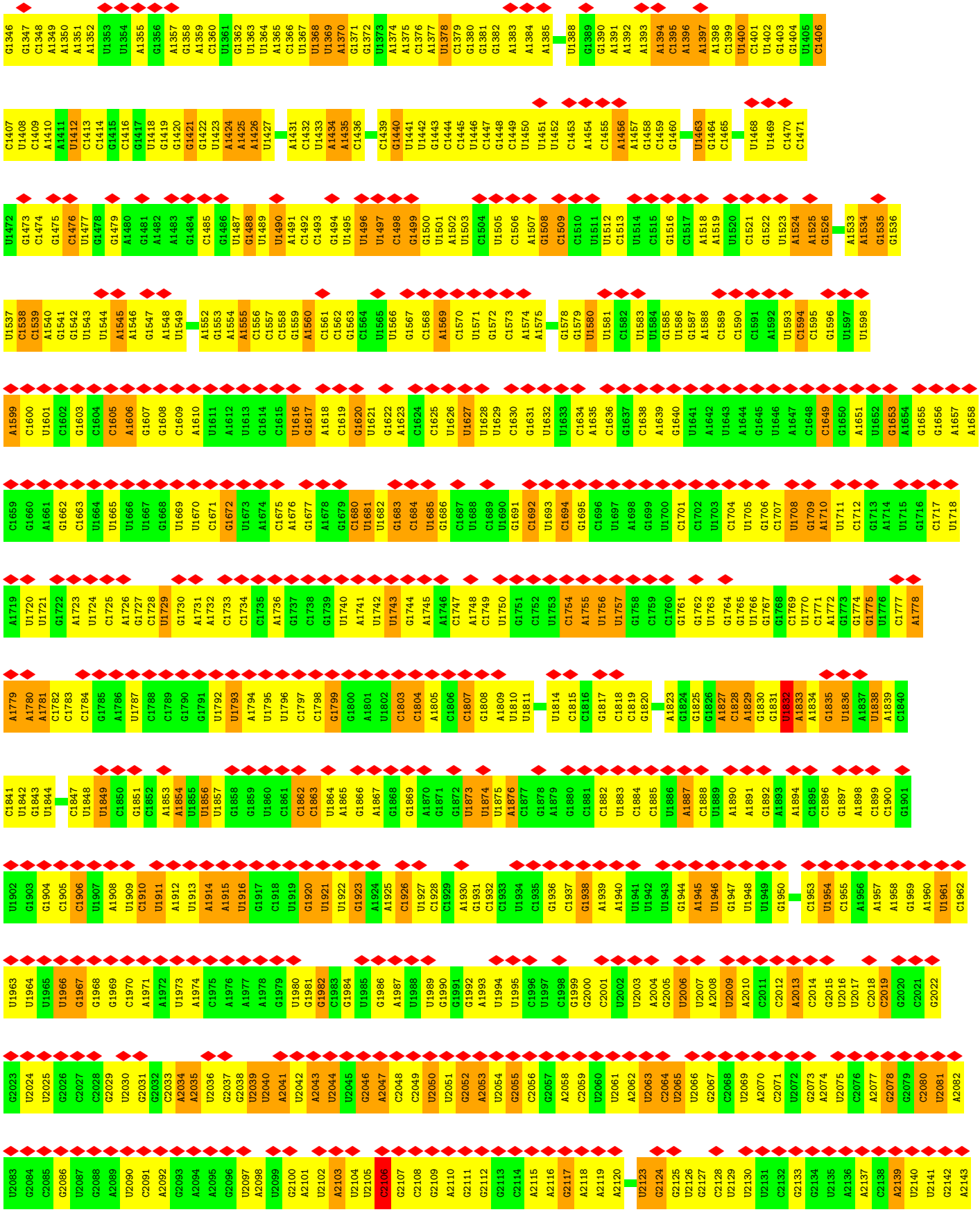
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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.

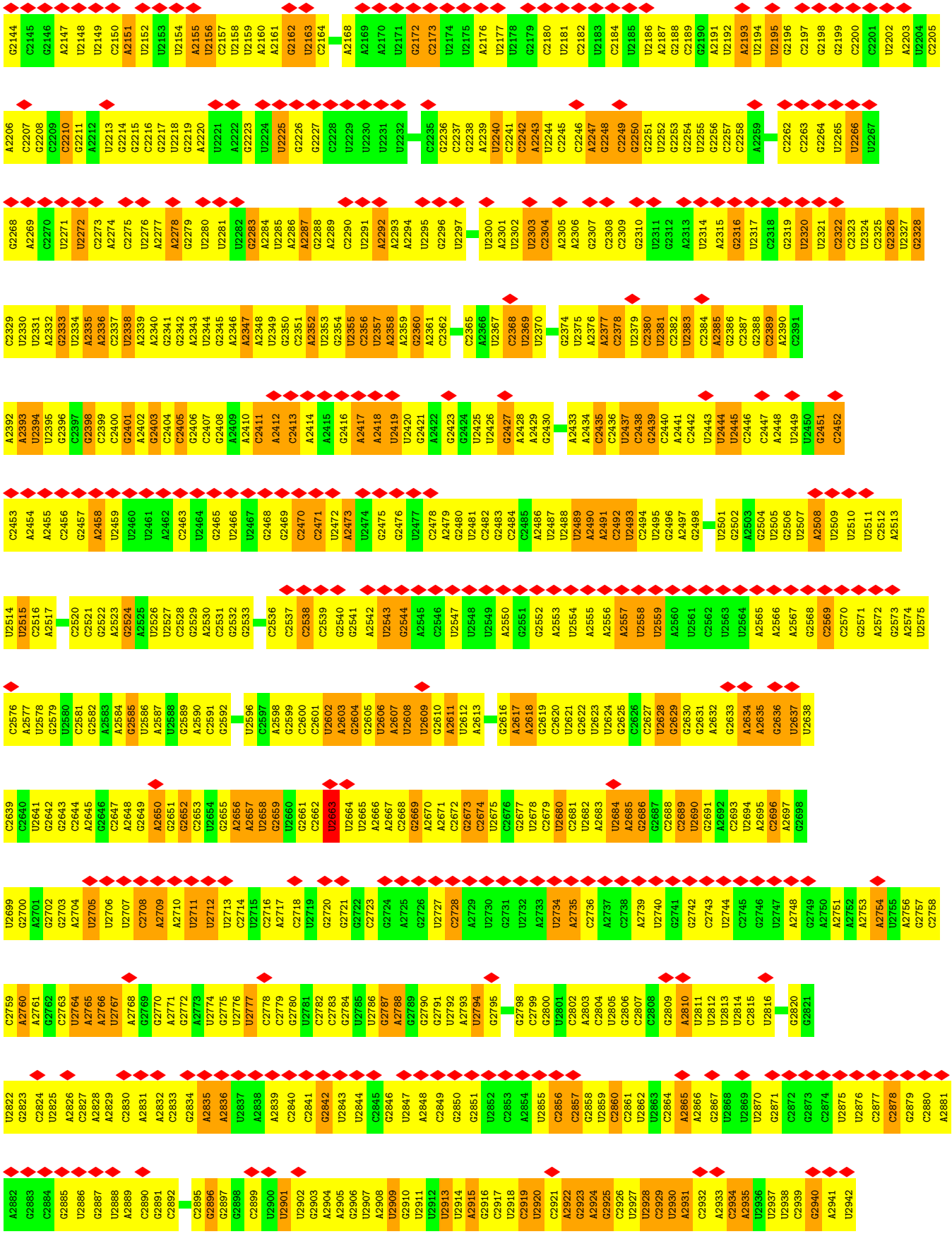
- Molecule 1: Genomic RNA

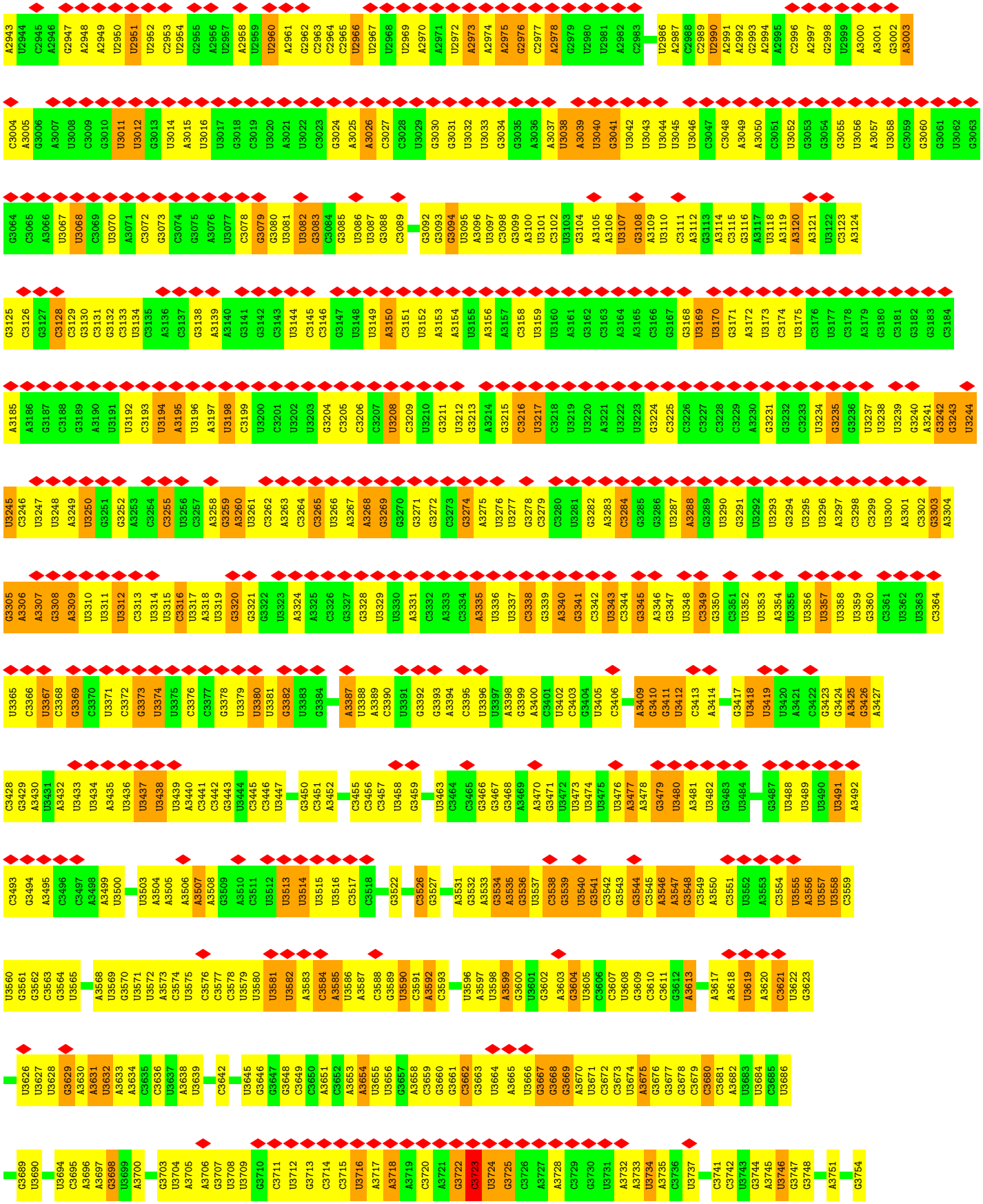
Chain A:

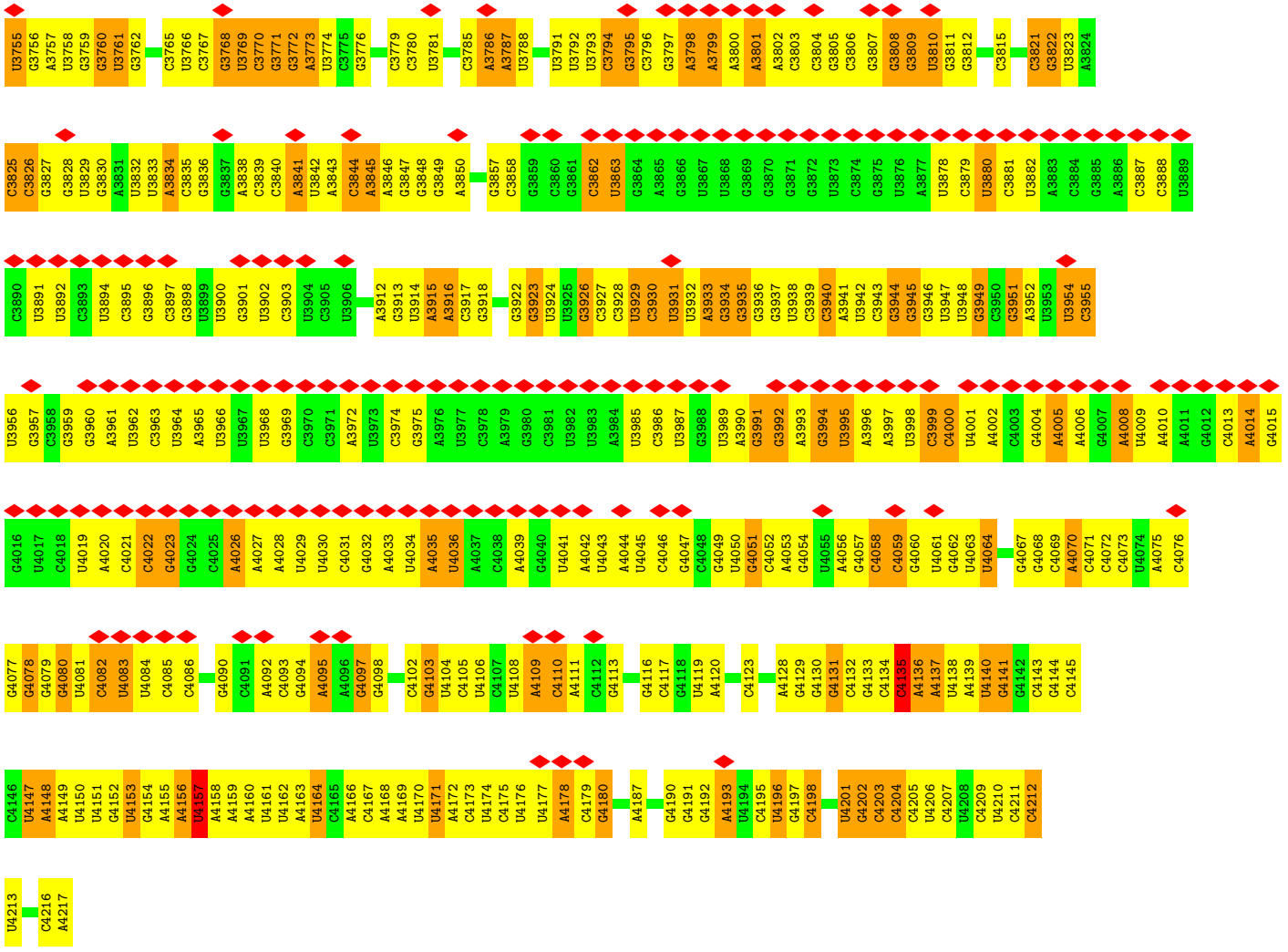






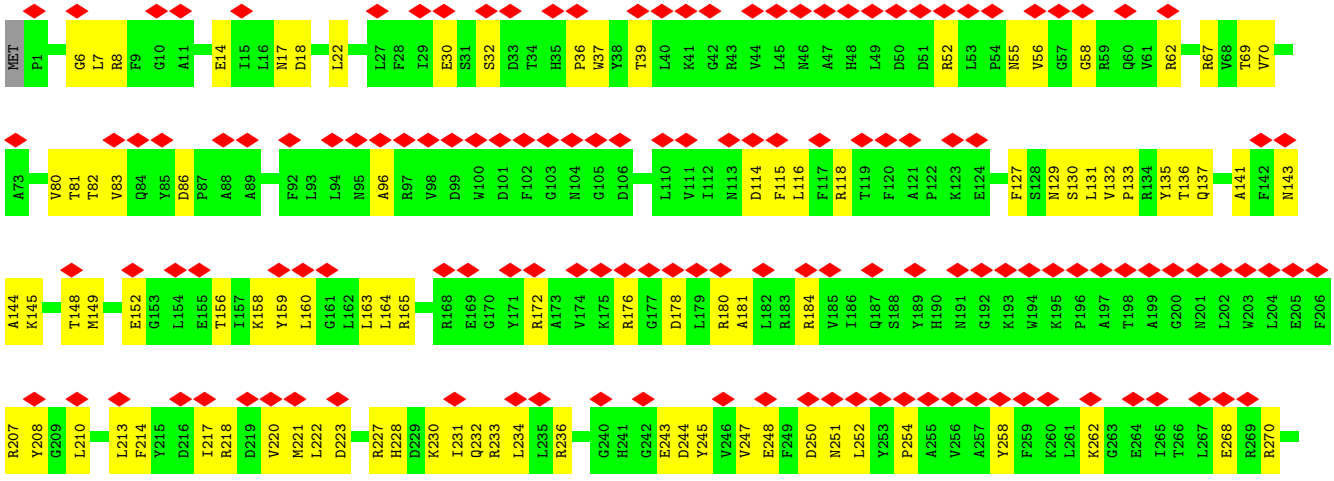


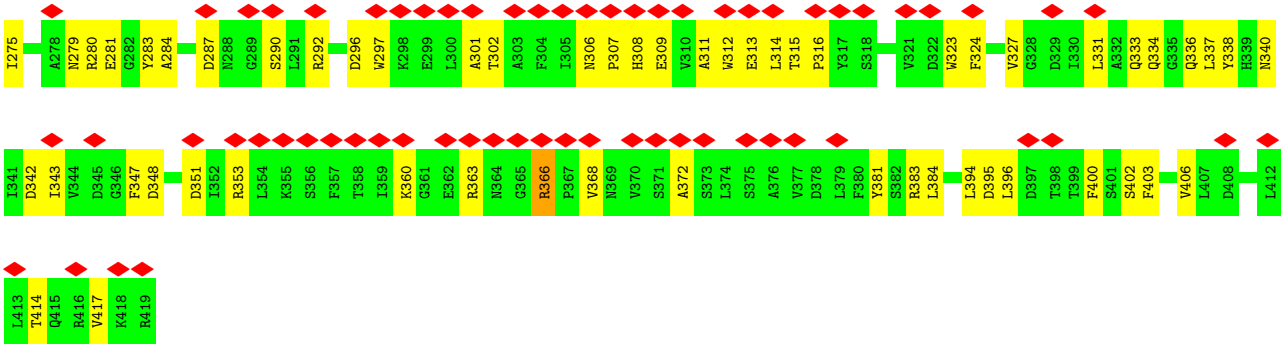




• Molecule 2: Maturation protein A2

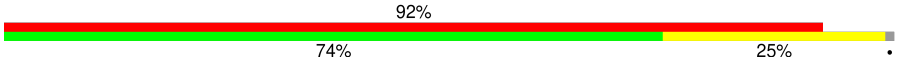
Chain M:

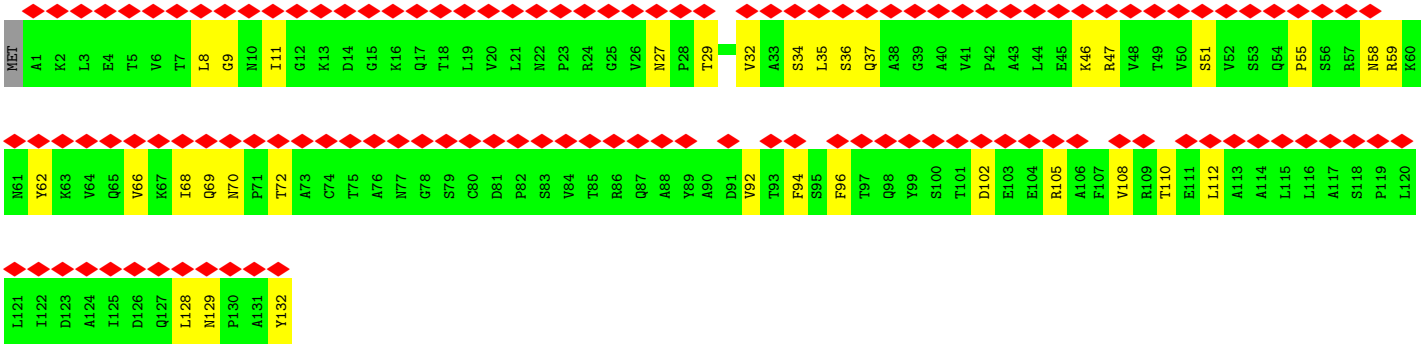




• Molecule 3: Capsid protein

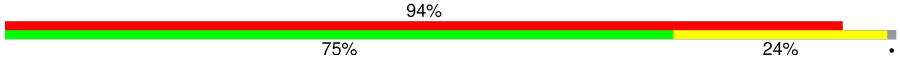
Chain B:





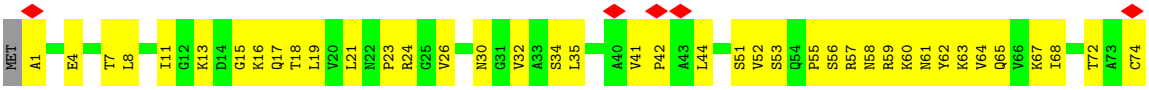
• Molecule 3: Capsid protein

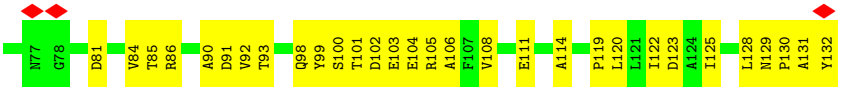
Chain D:



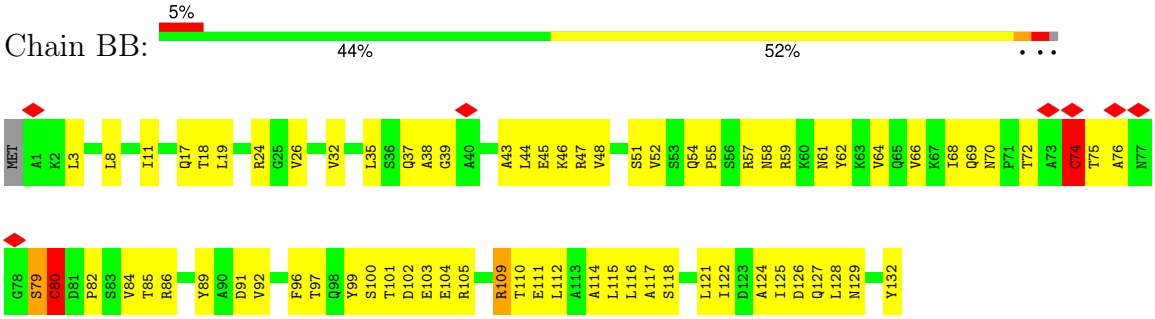
• Molecule 3: Capsid protein

Chain BA:

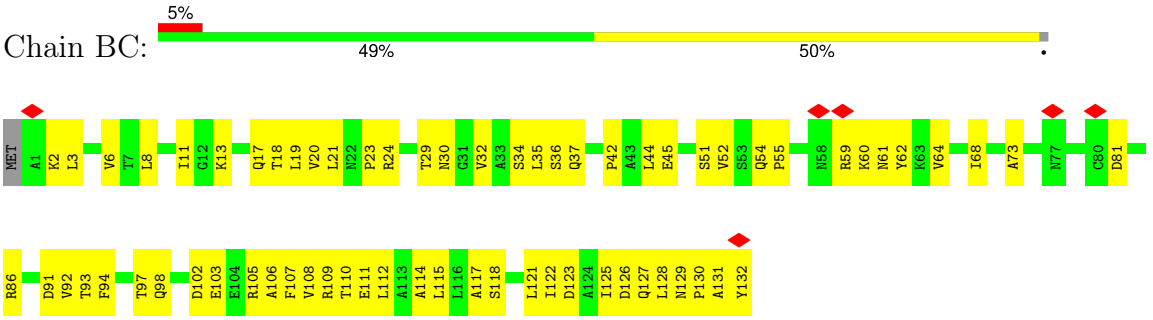




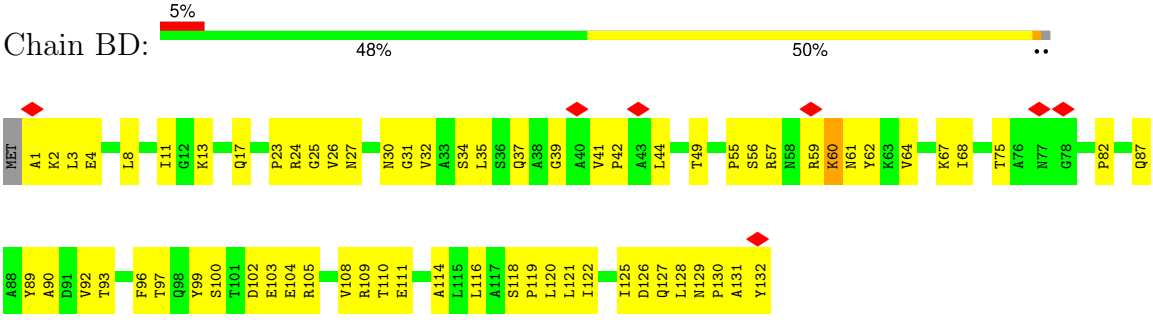
• Molecule 3: Capsid protein



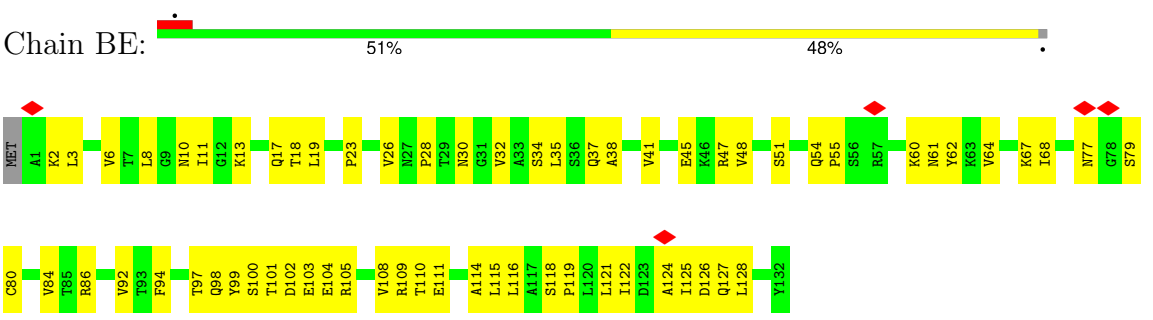
• Molecule 3: Capsid protein



• Molecule 3: Capsid protein

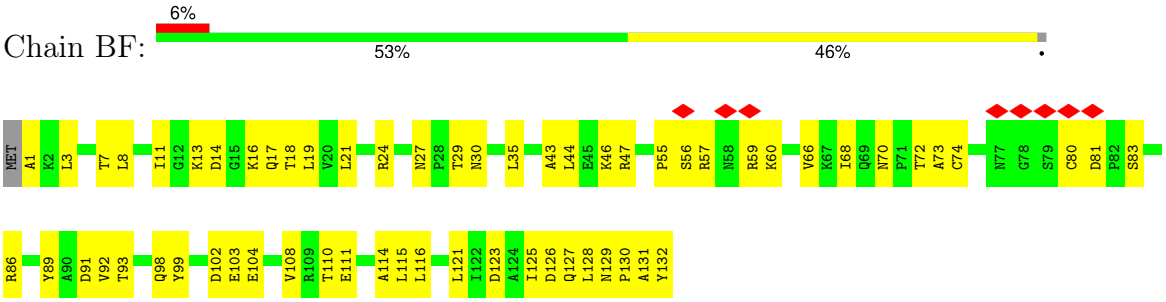


• Molecule 3: Capsid protein



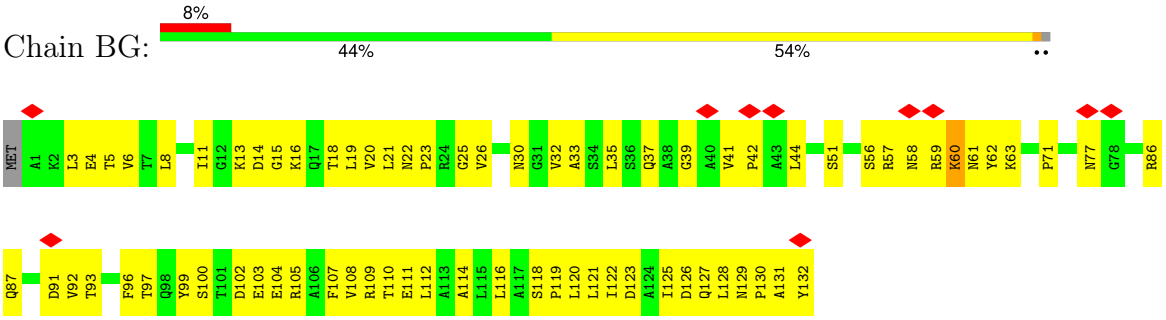
• Molecule 3: Capsid protein

Chain BF:



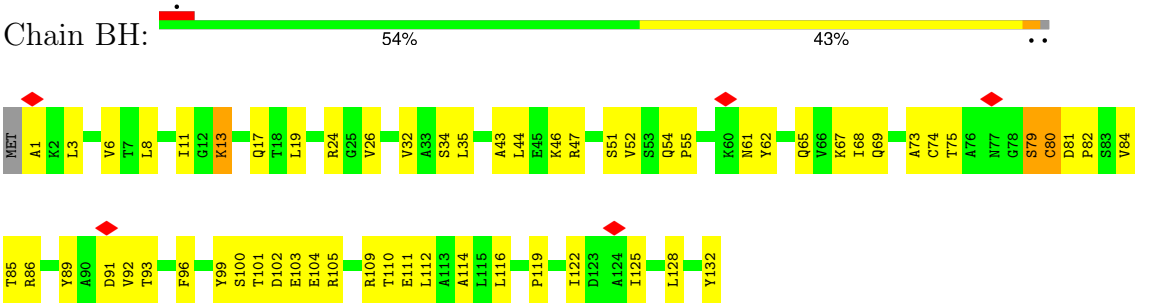
• Molecule 3: Capsid protein

Chain BG:



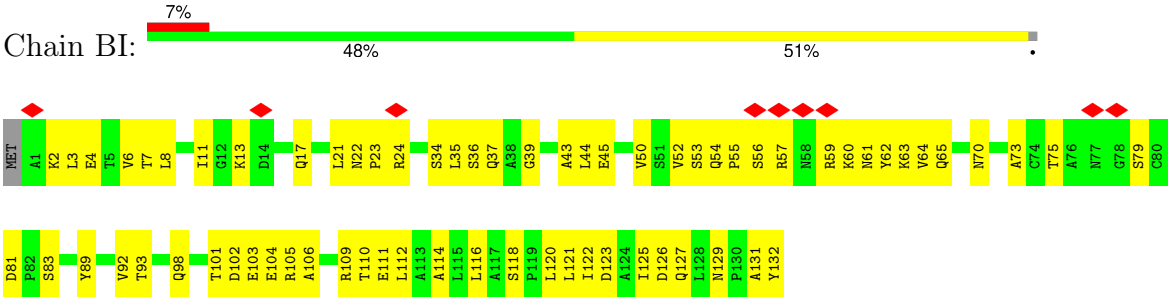
• Molecule 3: Capsid protein

Chain BH:



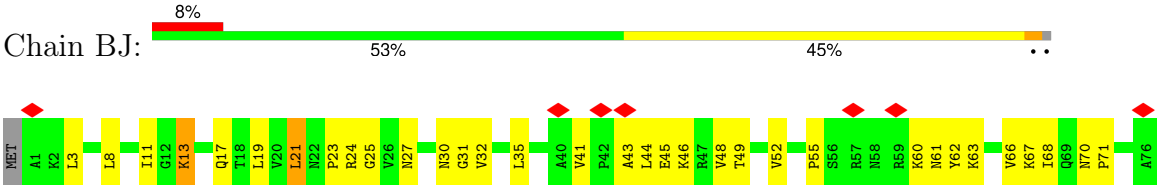
• Molecule 3: Capsid protein

Chain BI:



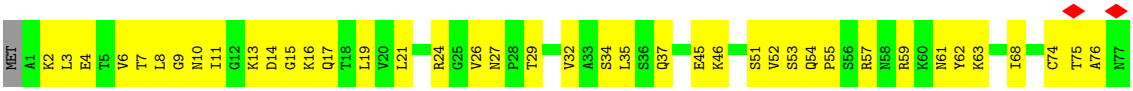
• Molecule 3: Capsid protein

Chain BJ:



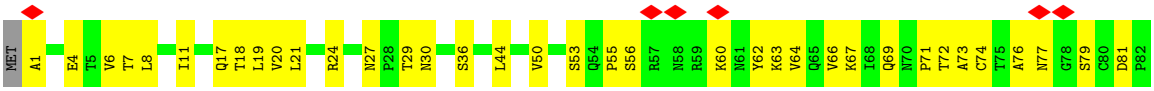
• Molecule 3: Capsid protein

Chain BK:



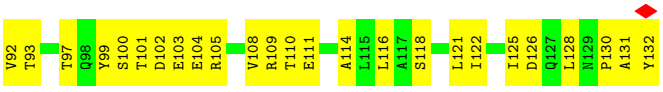
• Molecule 3: Capsid protein

Chain BL:



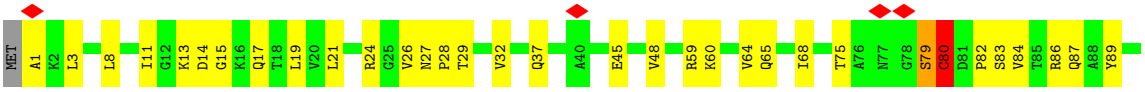
• Molecule 3: Capsid protein

Chain BM:



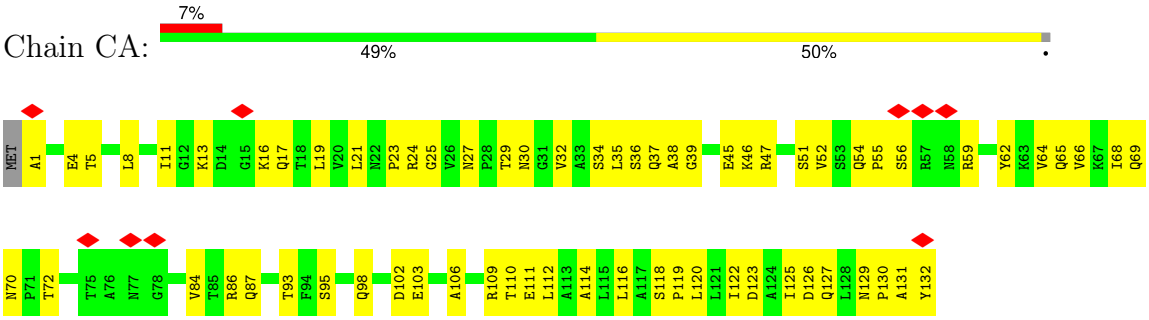
• Molecule 3: Capsid protein

Chain BN:



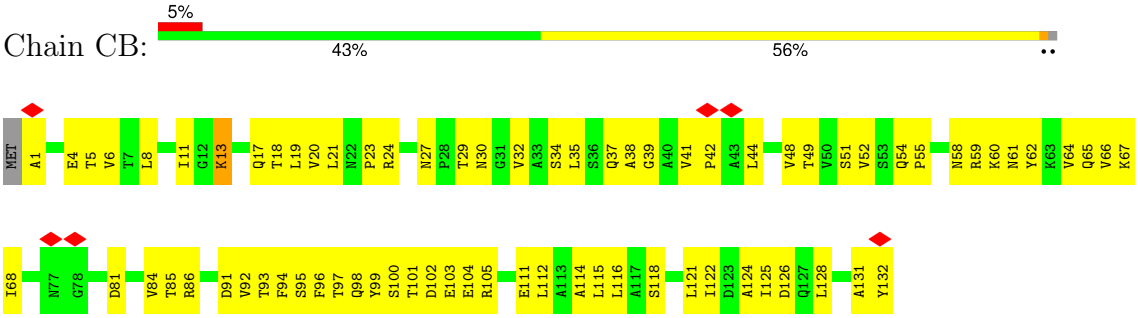
• Molecule 3: Capsid protein

Chain CA:



• Molecule 3: Capsid protein

Chain CB:

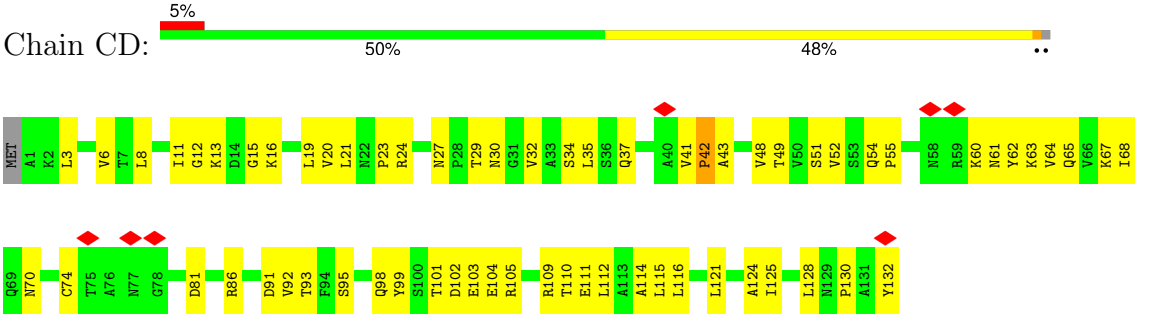


• Molecule 3: Capsid protein

Chain CC:

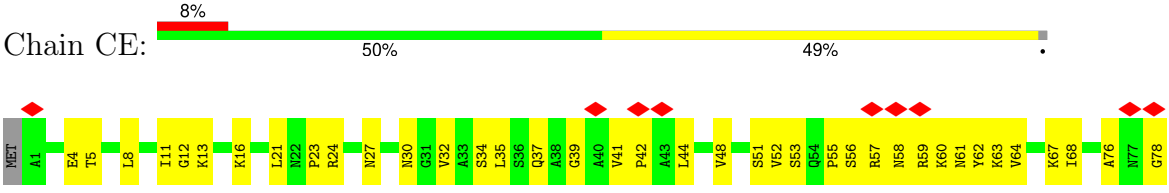
• Molecule 3: Capsid protein

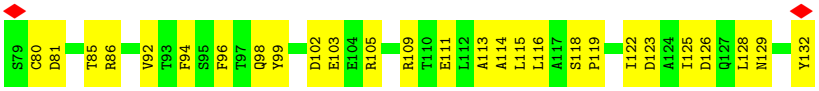
Chain CD:



• Molecule 3: Capsid protein

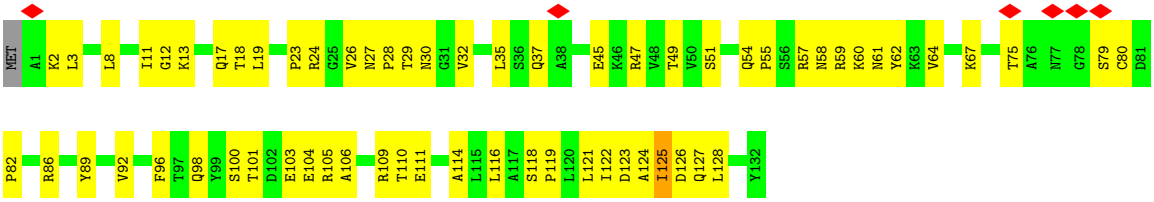
Chain CE:





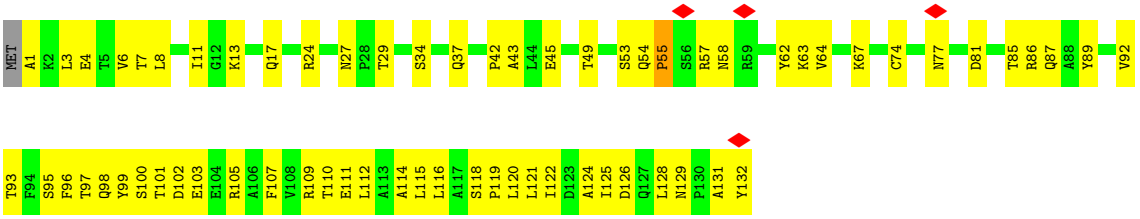
• Molecule 3: Capsid protein

Chain CF:



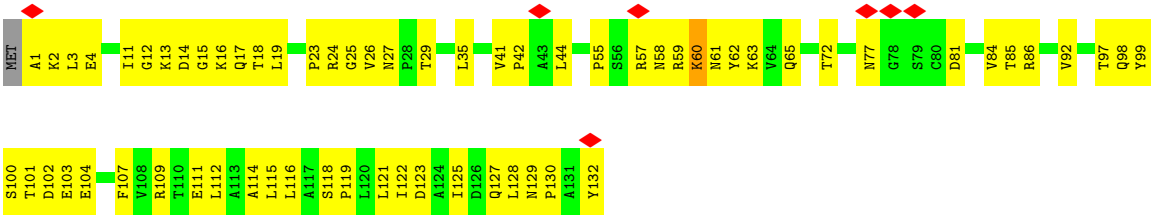
• Molecule 3: Capsid protein

Chain CG:



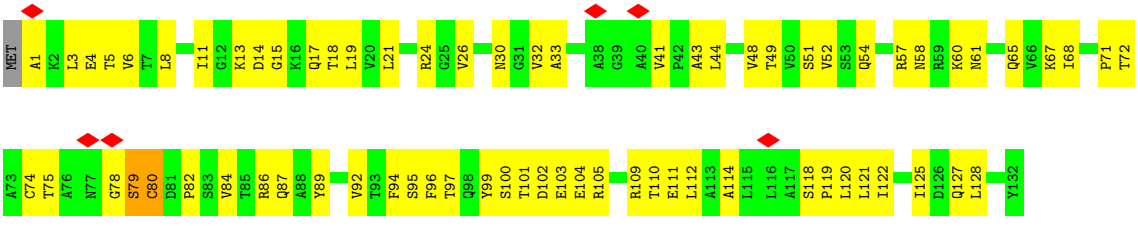
• Molecule 3: Capsid protein

Chain CH:



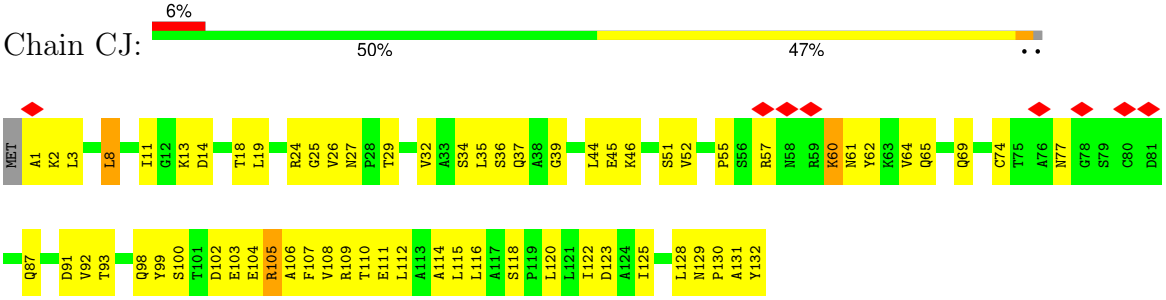
• Molecule 3: Capsid protein

Chain CI:



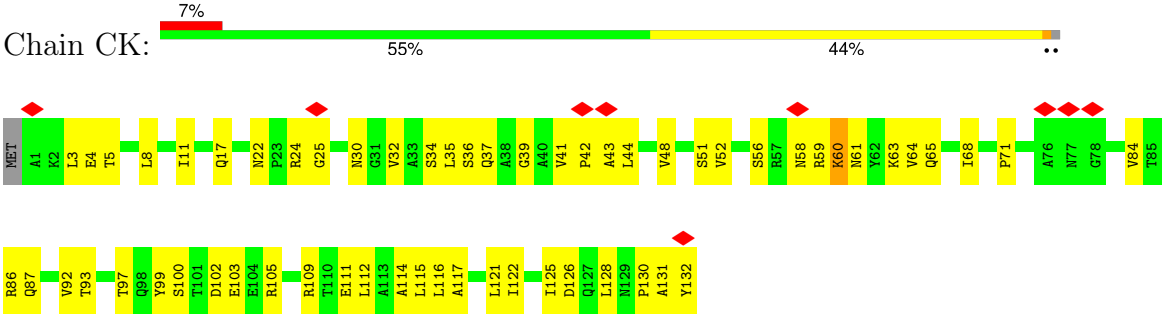
• Molecule 3: Capsid protein

Chain CJ:



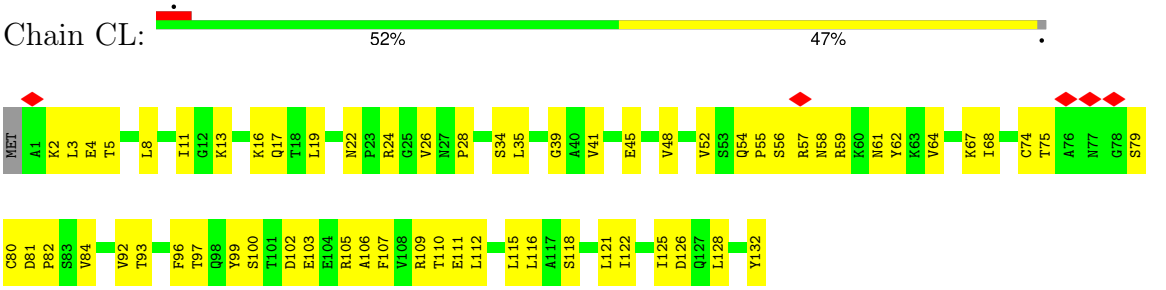
• Molecule 3: Capsid protein

Chain CK:



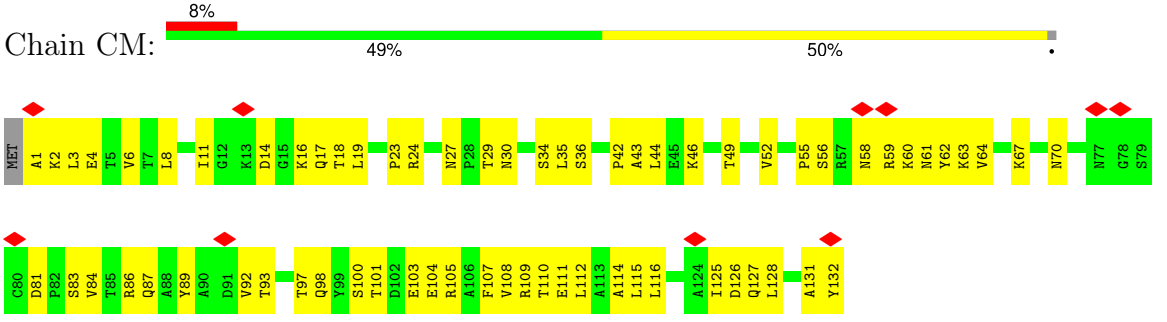
• Molecule 3: Capsid protein

Chain CL:



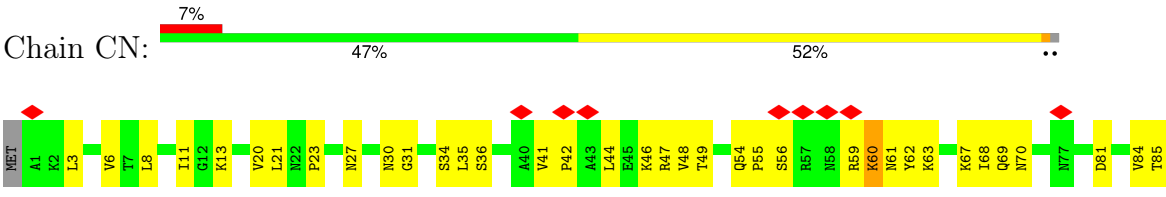
• Molecule 3: Capsid protein

Chain CM:



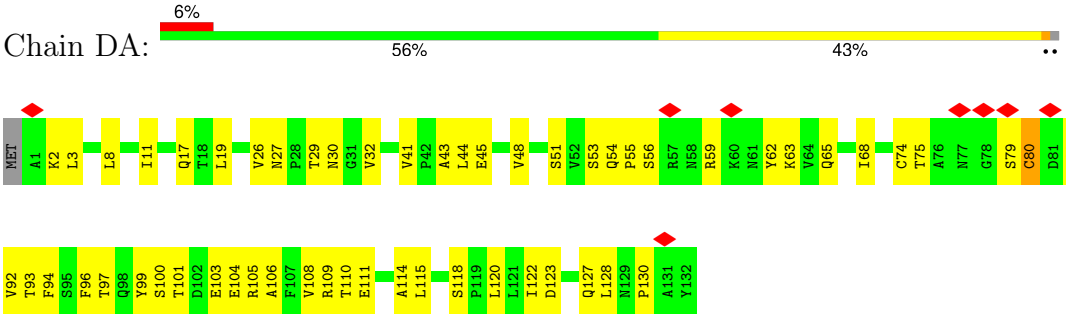
• Molecule 3: Capsid protein

Chain CN:



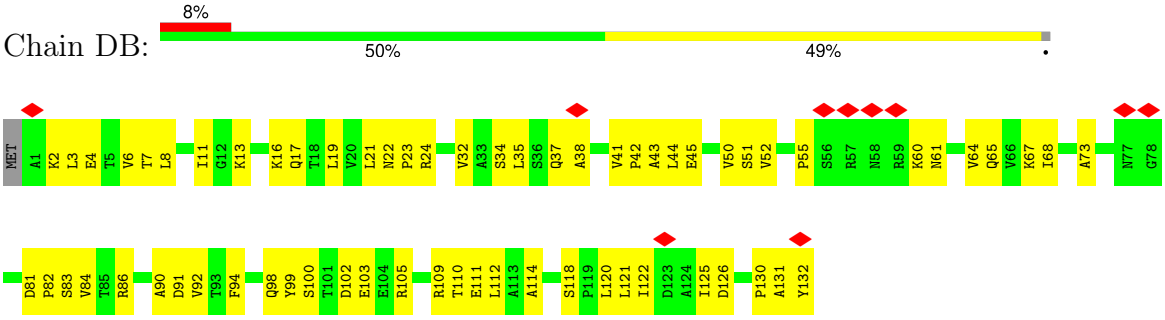
• Molecule 3: Capsid protein

Chain DA:



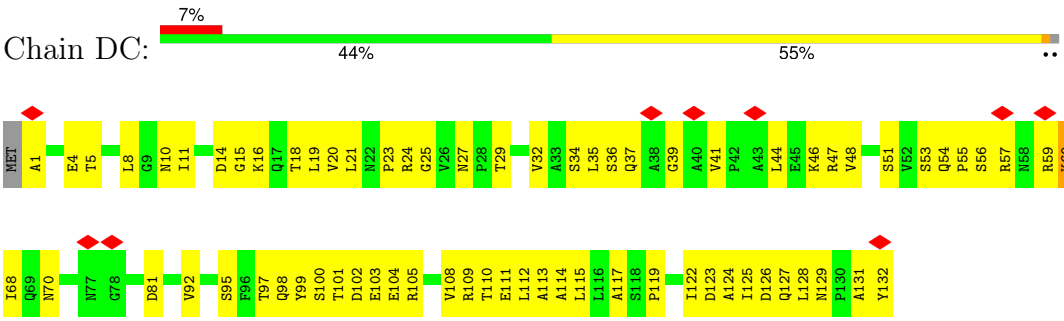
• Molecule 3: Capsid protein

Chain DB:



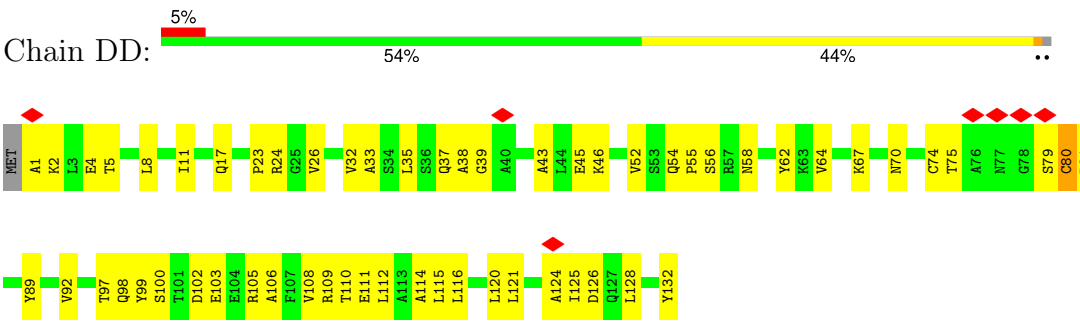
• Molecule 3: Capsid protein

Chain DC:



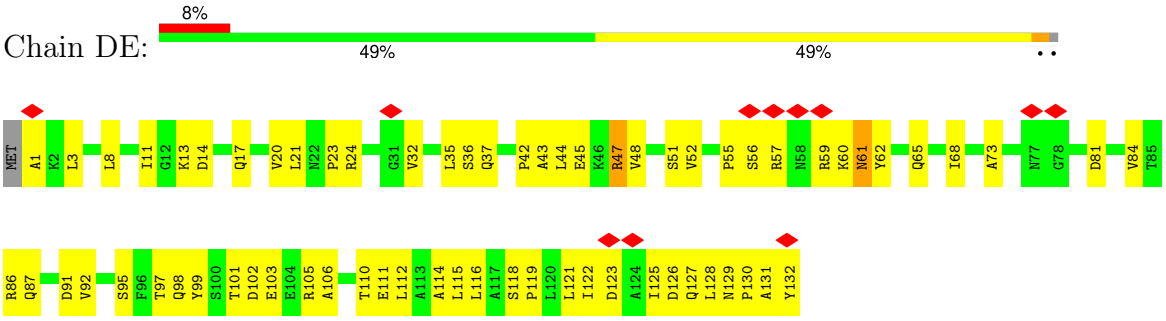
• Molecule 3: Capsid protein

Chain DD:



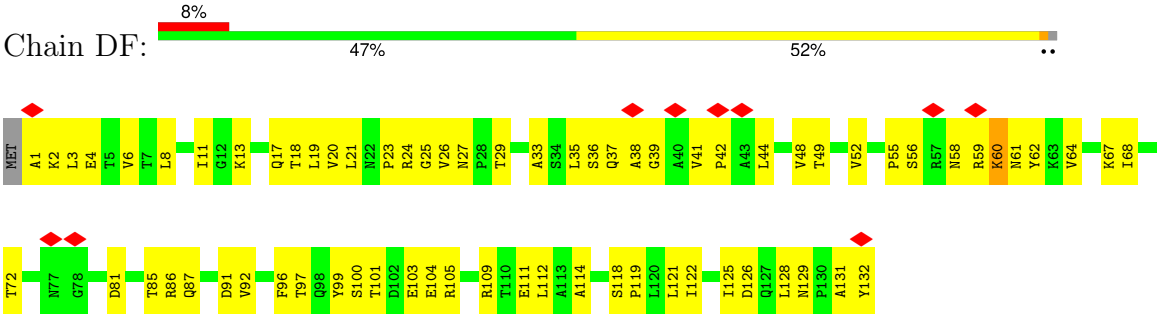
• Molecule 3: Capsid protein

Chain DE:



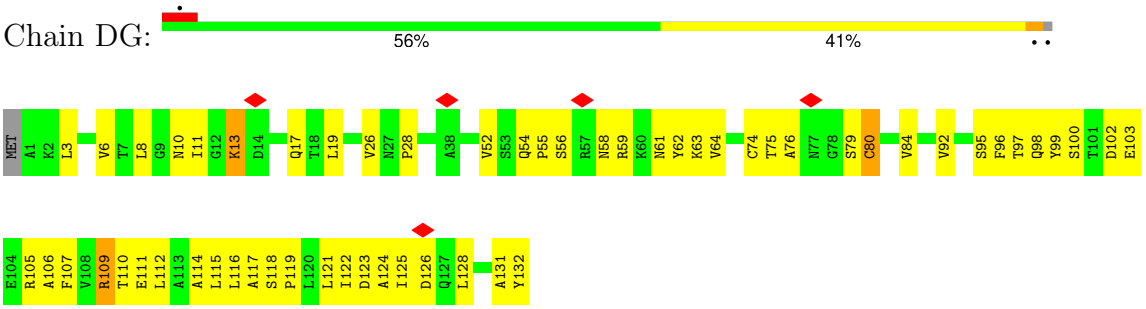
• Molecule 3: Capsid protein

Chain DF:



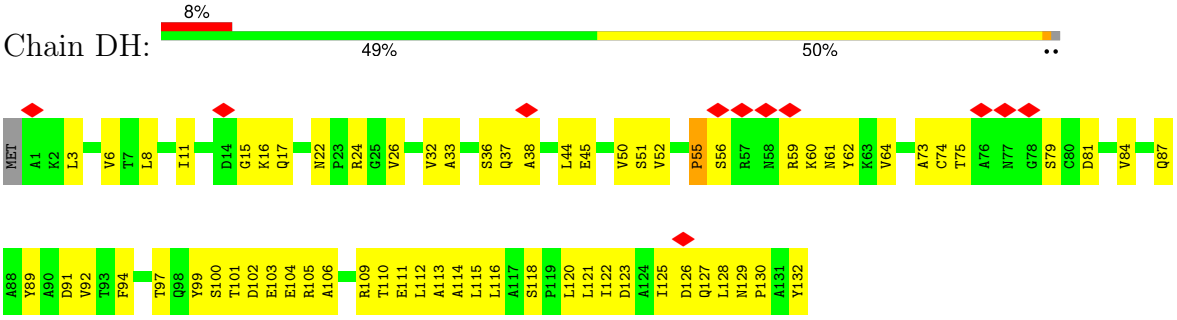
• Molecule 3: Capsid protein

Chain DG:



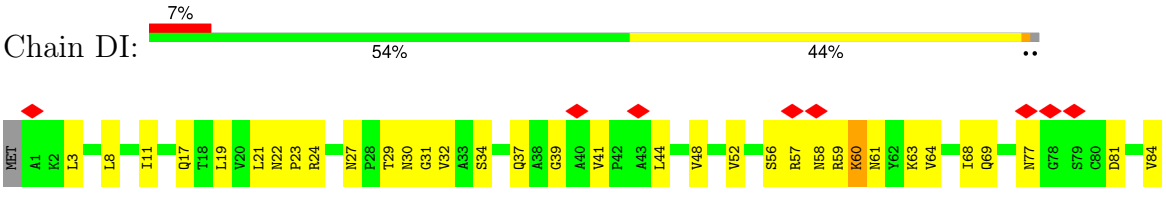
• Molecule 3: Capsid protein

Chain DH:



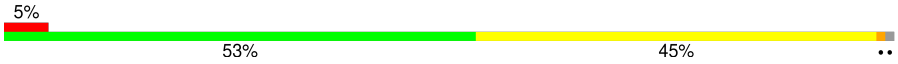
• Molecule 3: Capsid protein

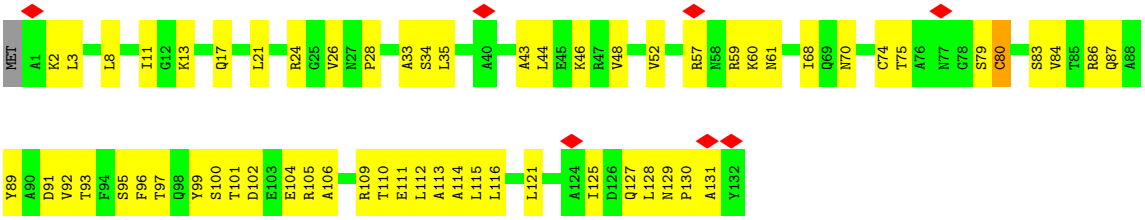
Chain DI:



• Molecule 3: Capsid protein

Chain DJ:





• Molecule 3: Capsid protein

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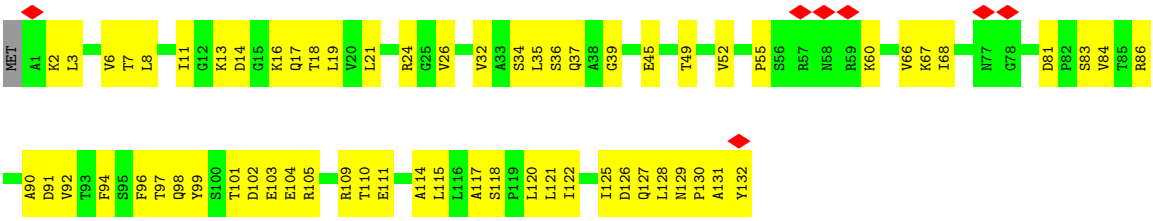
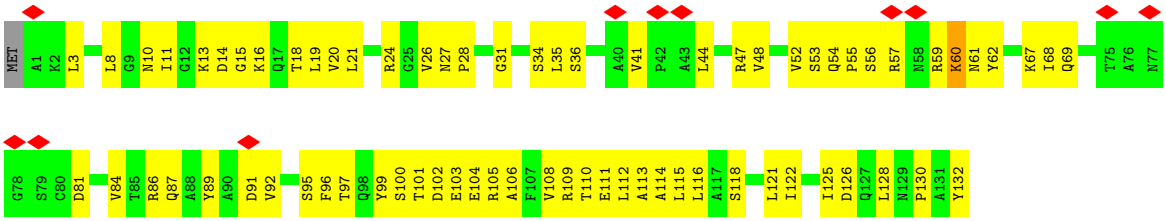


• Molecule 3: Capsid protein

Chain DL:



• Molecule 3: Capsid protein

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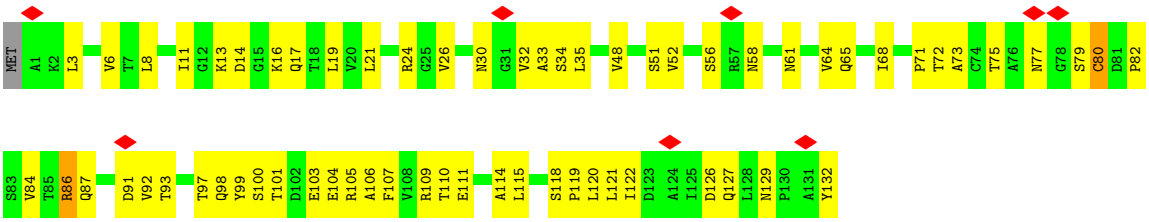
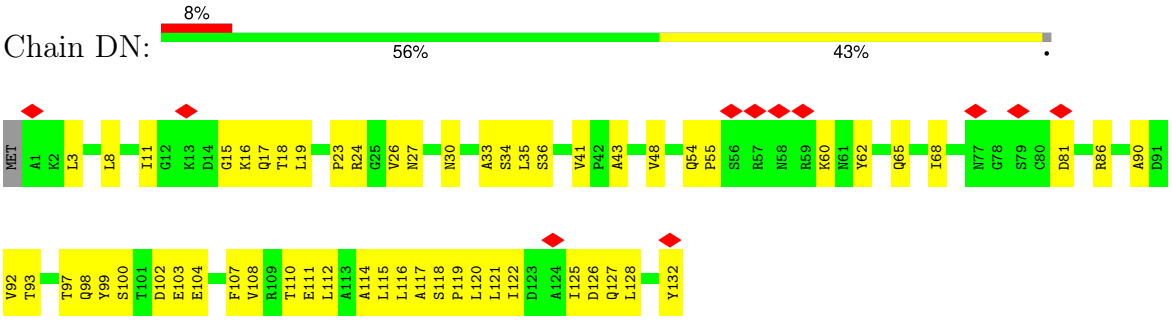


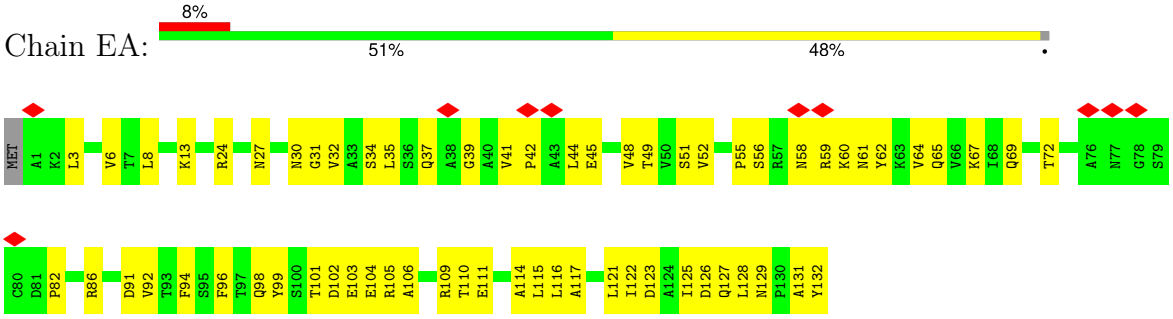
• Molecule 3: Capsid protein

Chain DN:



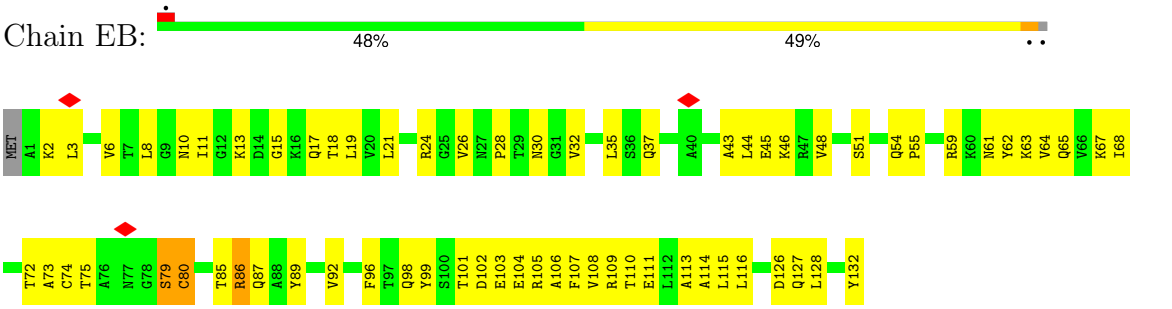
• Molecule 3: Capsid protein

Chain EA:



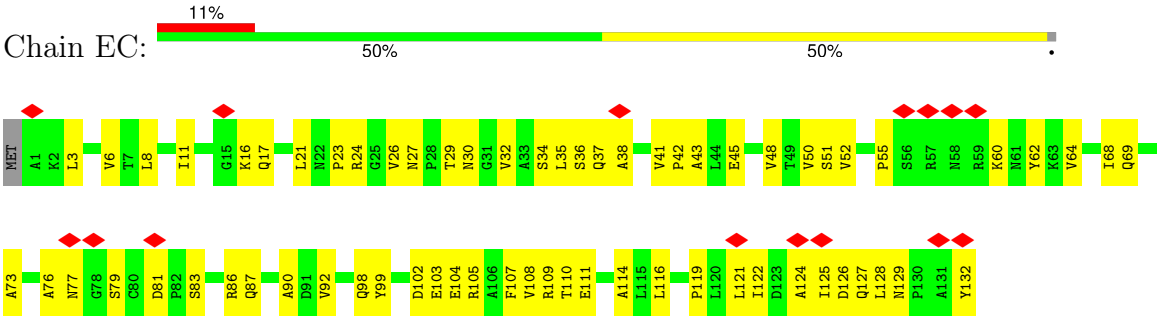
• Molecule 3: Capsid protein

Chain EB:



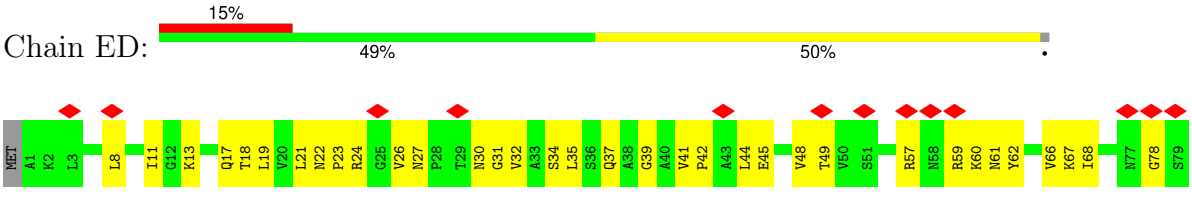
• Molecule 3: Capsid protein

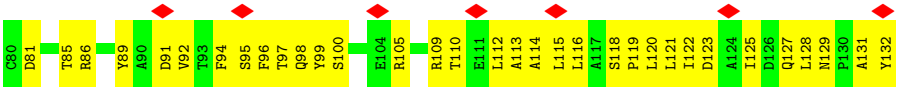
Chain EC:



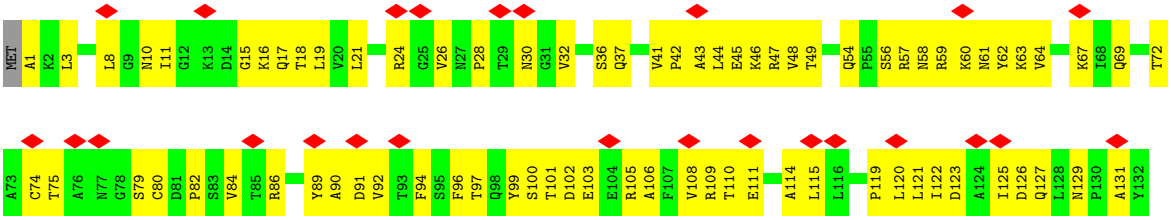
• Molecule 3: Capsid protein

Chain ED:

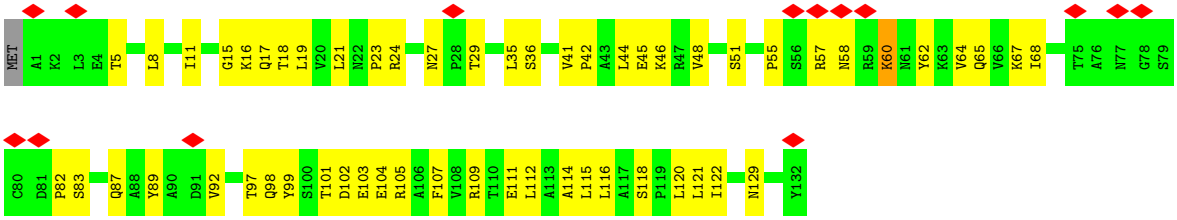




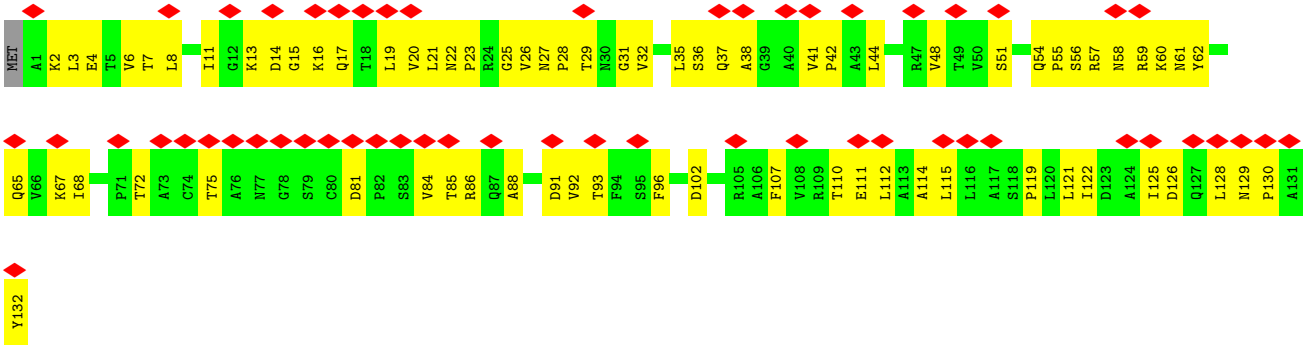
• Molecule 3: Capsid protein



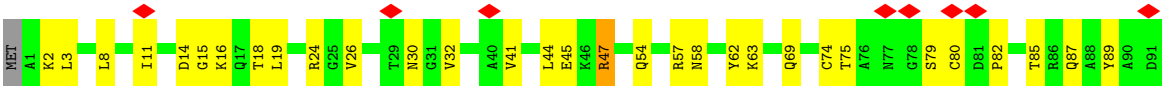
• Molecule 3: Capsid protein

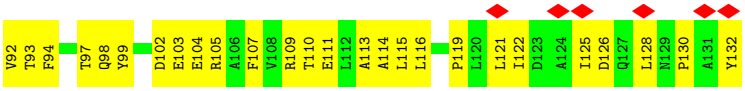


• Molecule 3: Capsid protein



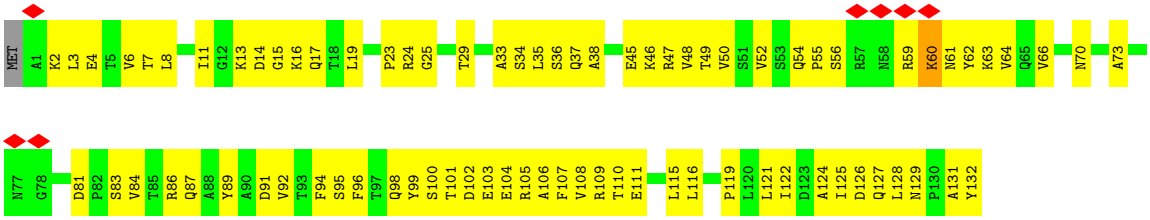
• Molecule 3: Capsid protein





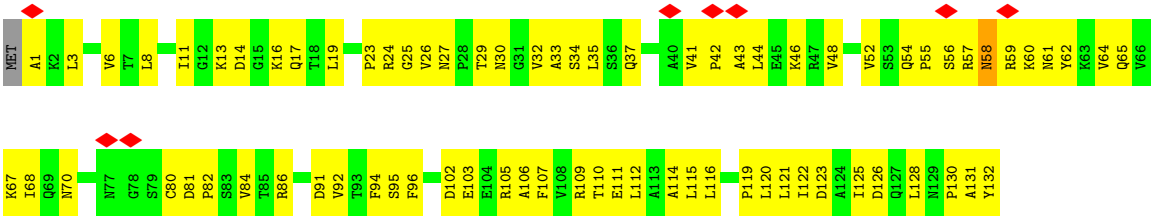
• Molecule 3: Capsid protein

Chain EI:



• Molecule 3: Capsid protein

Chain EJ:



• Molecule 3: Capsid protein

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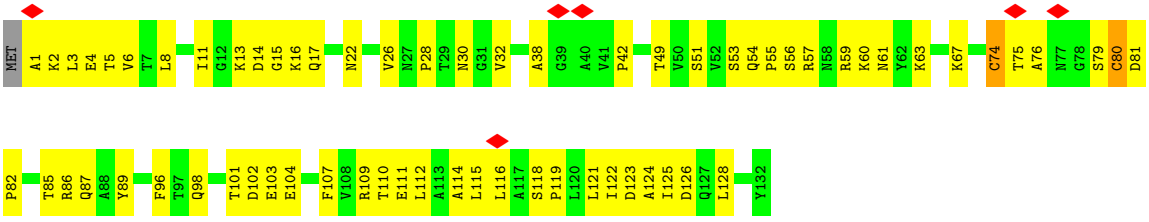

• Molecule 3: Capsid protein

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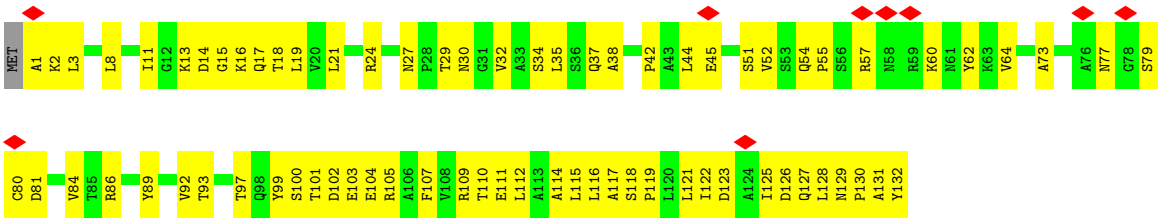
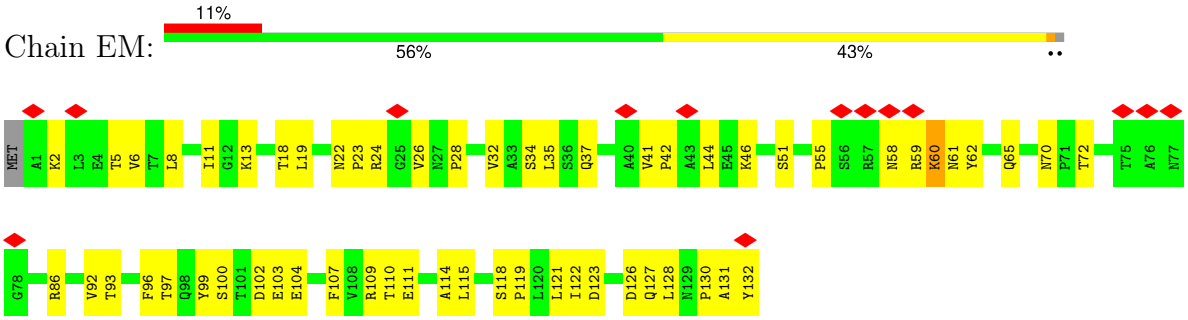


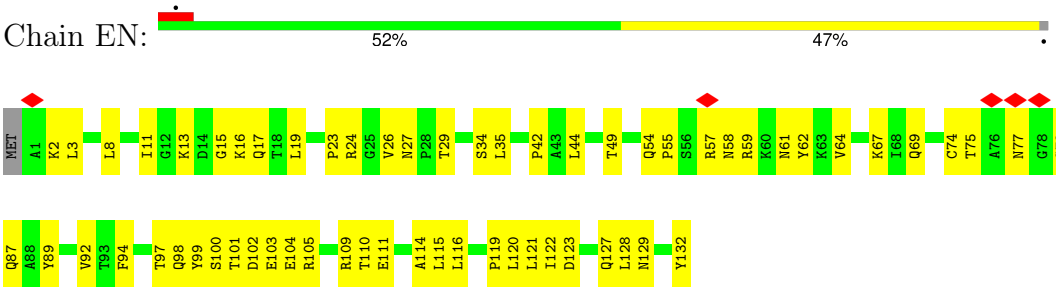
• Molecule 3: Capsid protein

Chain EM:



• Molecule 3: Capsid protein

Chain EN:



• Molecule 3: Capsid protein

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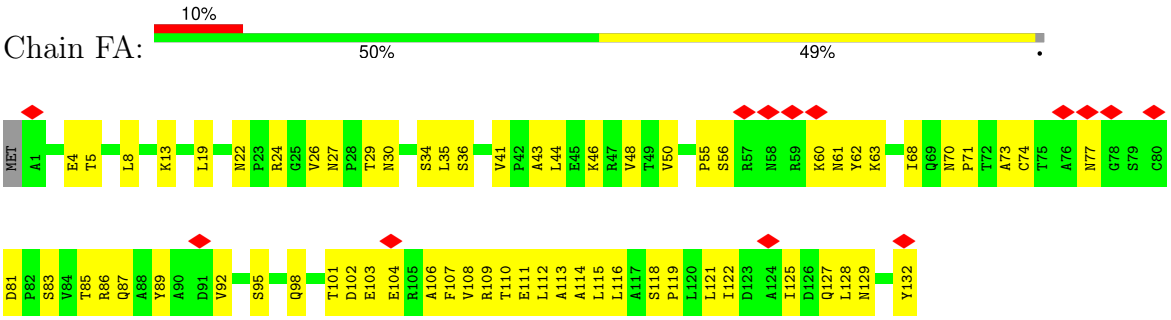
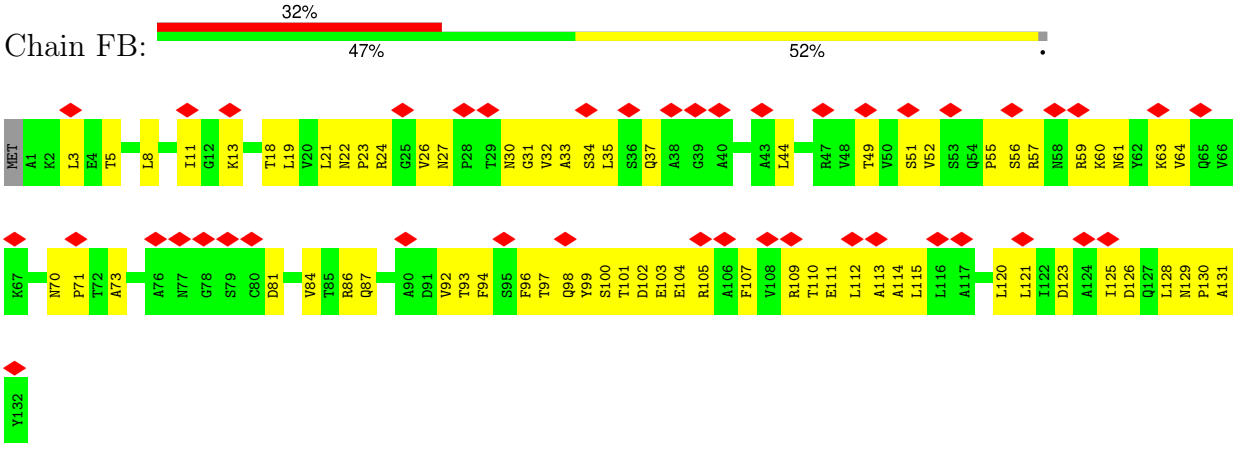


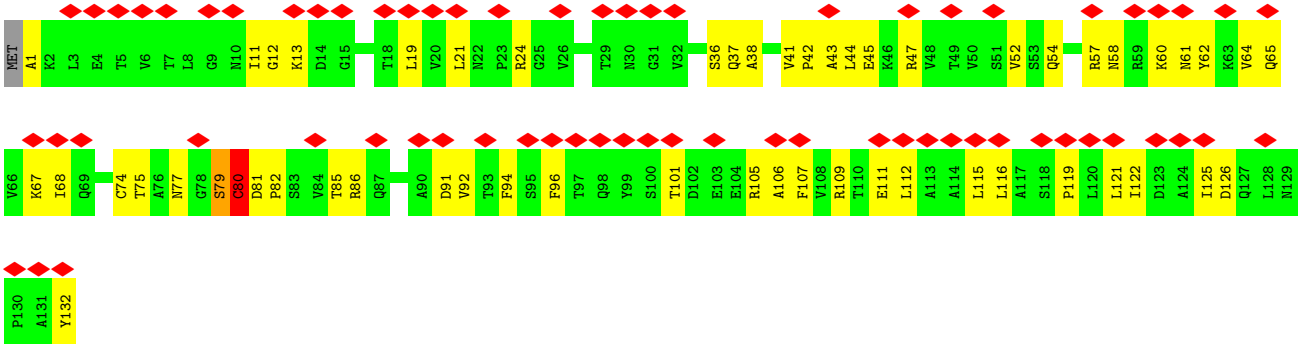
• Molecule 3: Capsid protein

Chain FB:



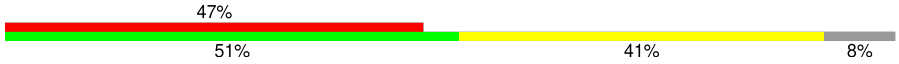
• Molecule 3: Capsid protein

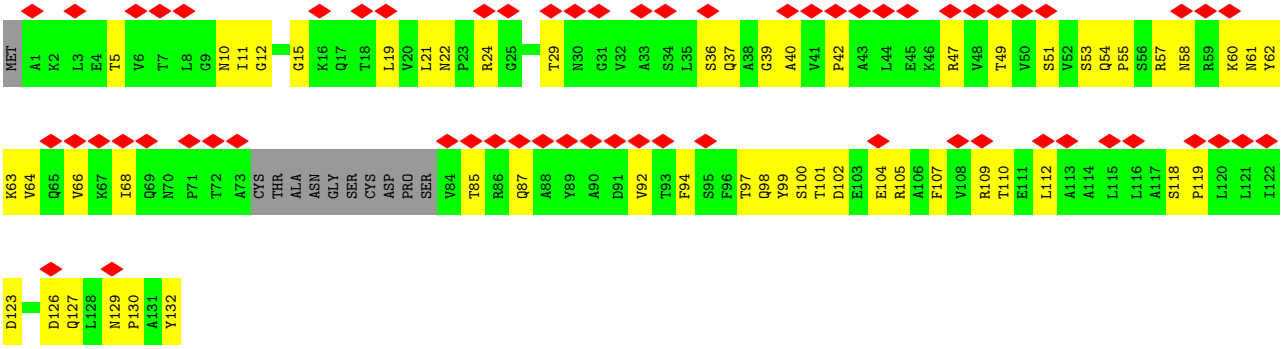
Chain FC:



• Molecule 3: Capsid protein

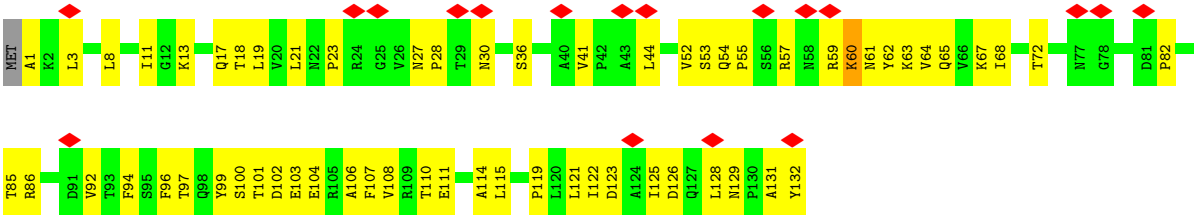
Chain FD:





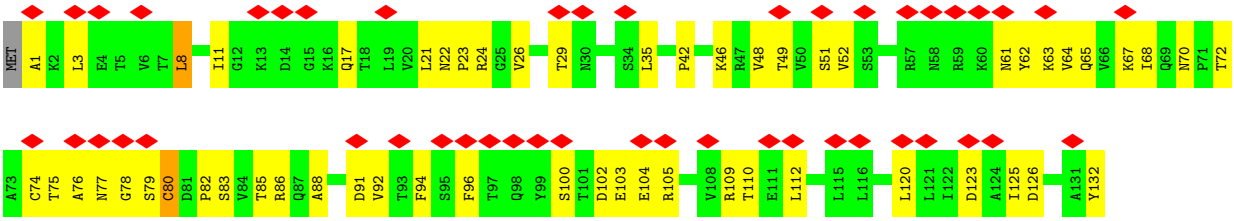
• Molecule 3: Capsid protein

Chain FE:



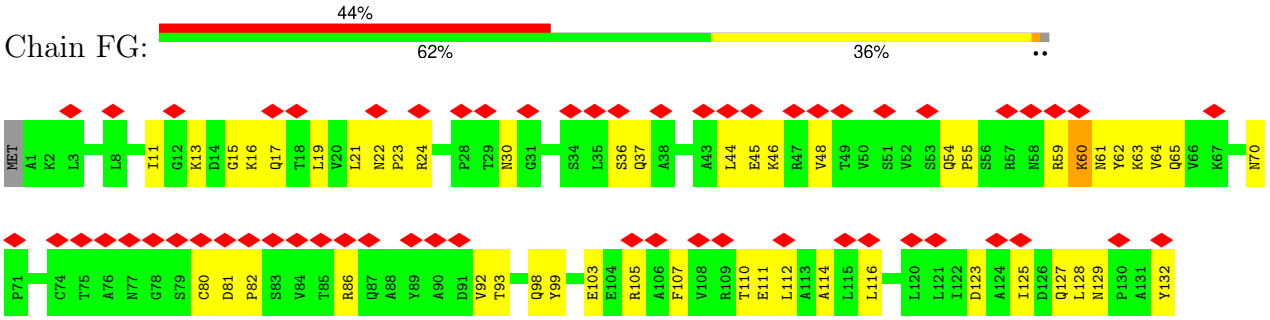
• Molecule 3: Capsid protein

Chain FF:



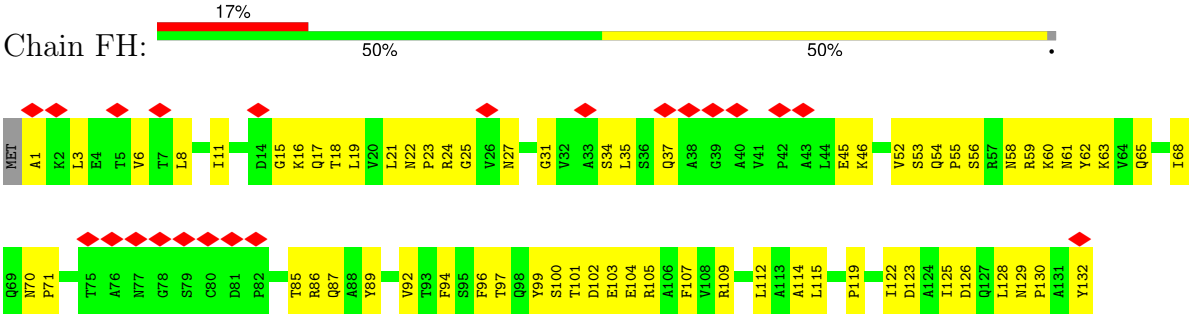
• Molecule 3: Capsid protein

Chain FG:



• Molecule 3: Capsid protein

Chain FH:



• Molecule 3: Capsid protein

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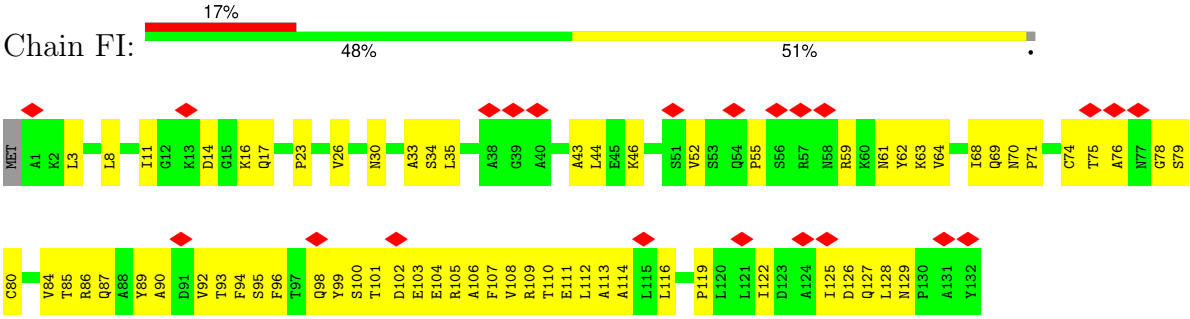

• Molecule 3: Capsid protein

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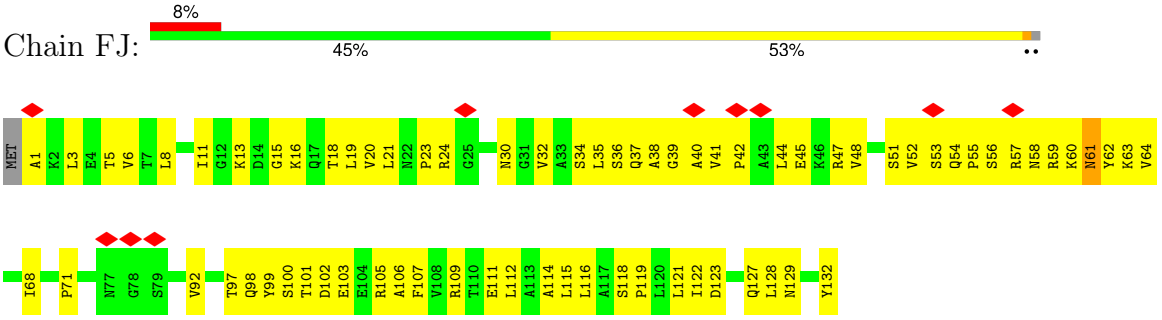
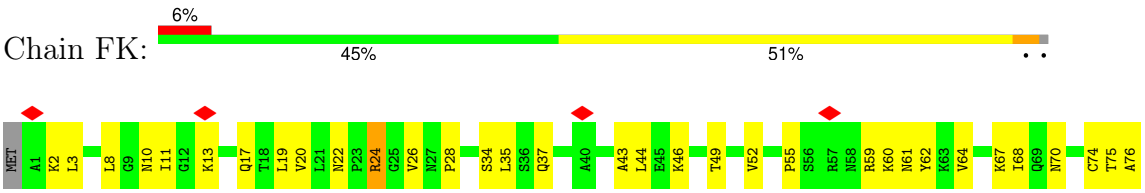
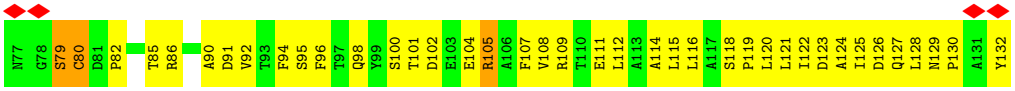


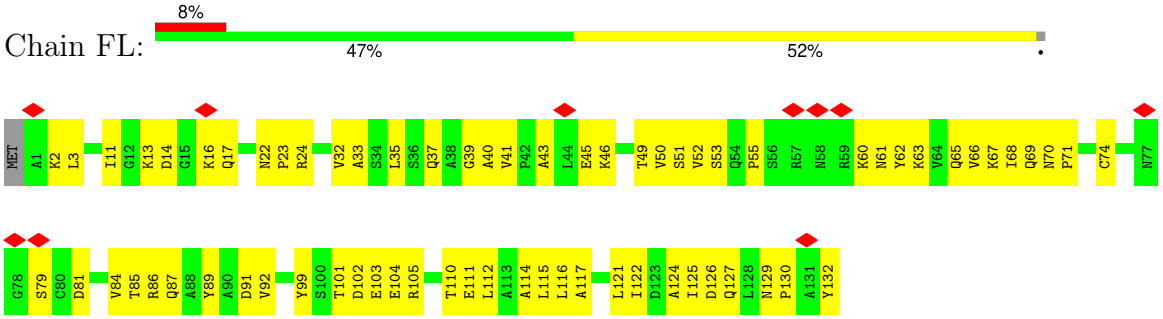
• Molecule 3: Capsid protein

Chain FK:

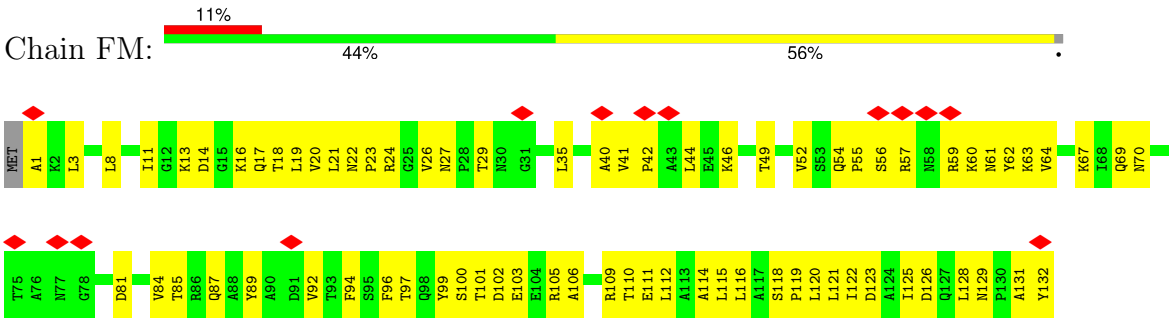




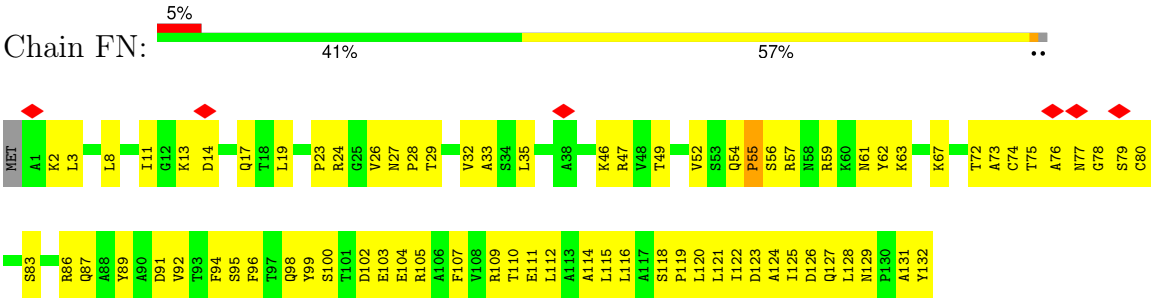
• Molecule 3: Capsid protein



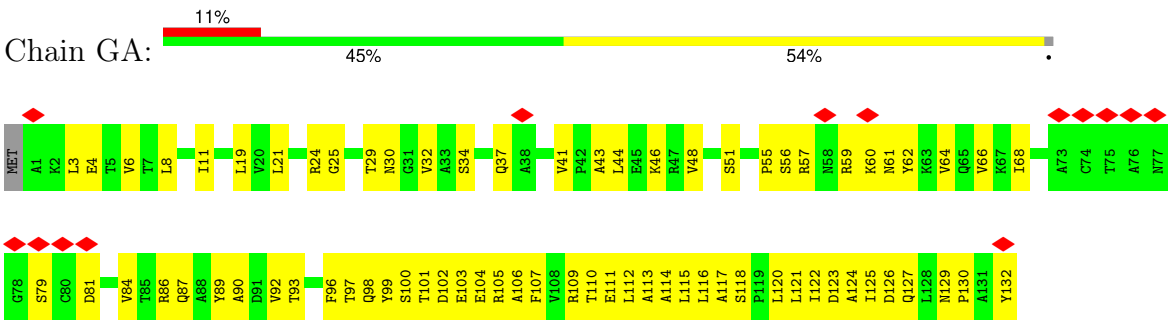
• Molecule 3: Capsid protein



• Molecule 3: Capsid protein

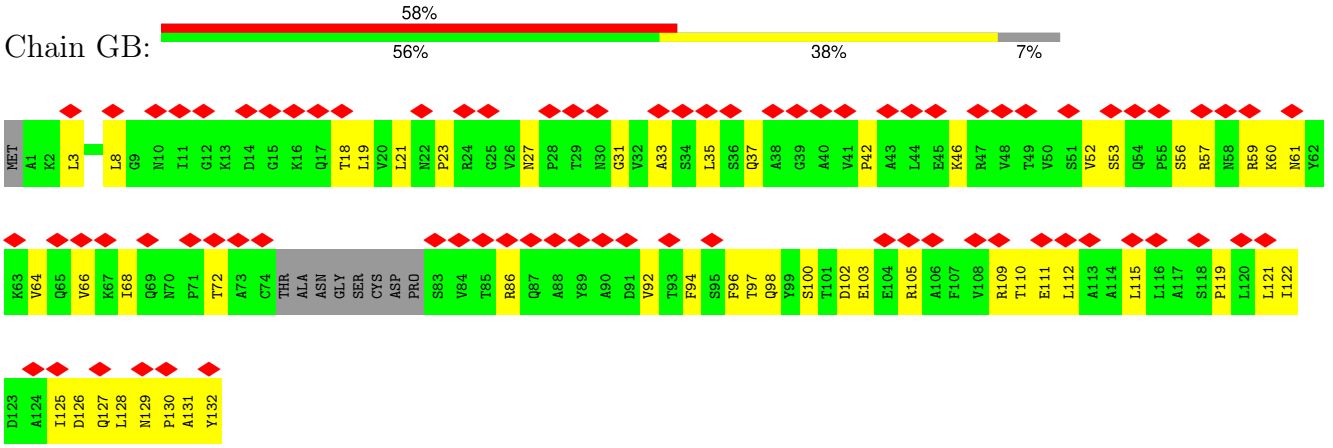


• Molecule 3: Capsid protein



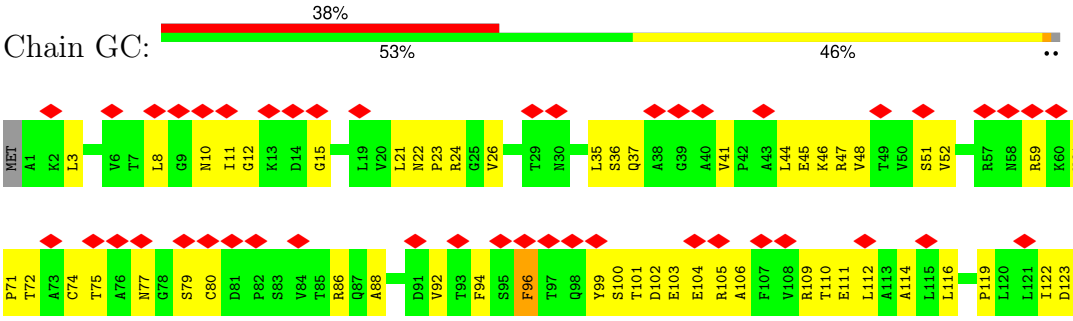
• Molecule 3: Capsid protein

Chain GB:



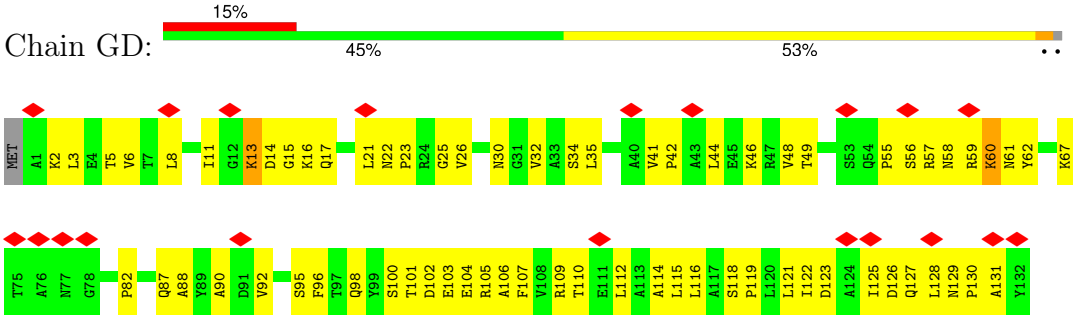
• Molecule 3: Capsid protein

Chain GC:



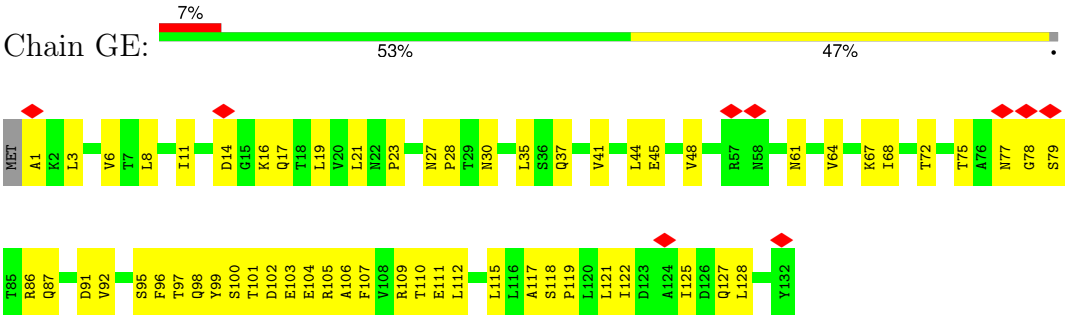
• Molecule 3: Capsid protein

Chain GD:



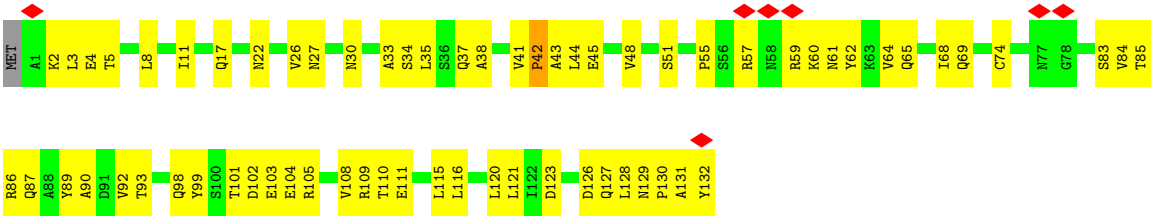
• Molecule 3: Capsid protein

Chain GE:



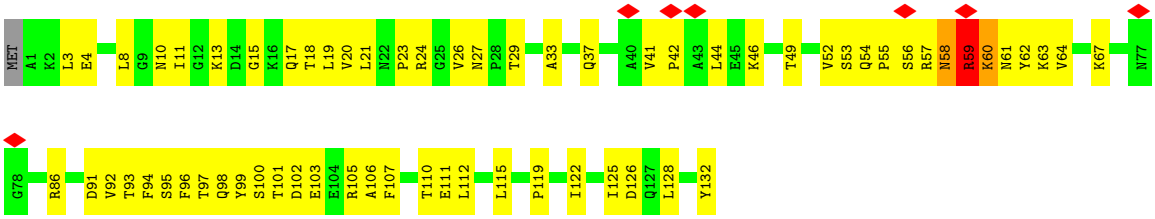
• Molecule 3: Capsid protein

Chain GF:



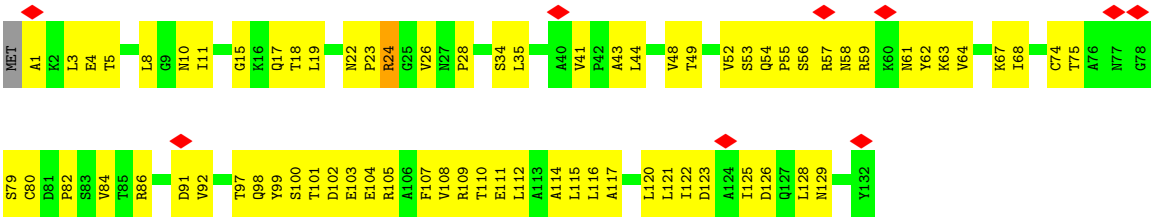
• Molecule 3: Capsid protein

Chain GG:



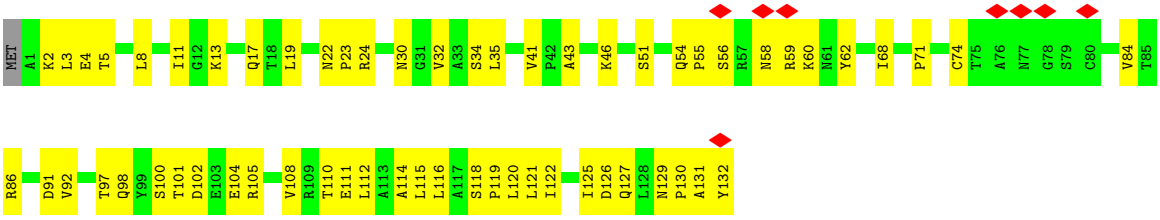
• Molecule 3: Capsid protein

Chain GH:



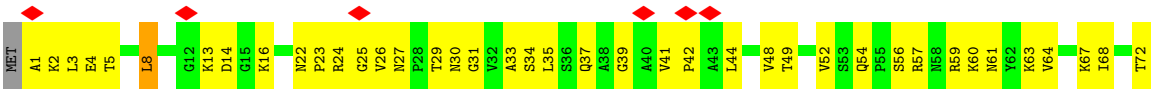
• Molecule 3: Capsid protein

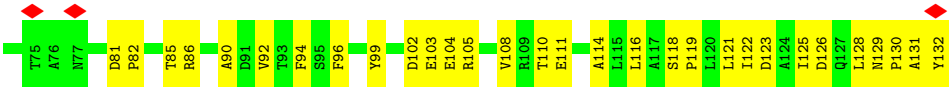
Chain GI:



• Molecule 3: Capsid protein

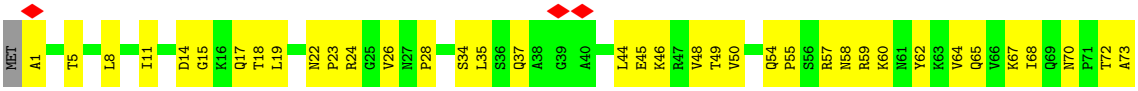
Chain GJ:





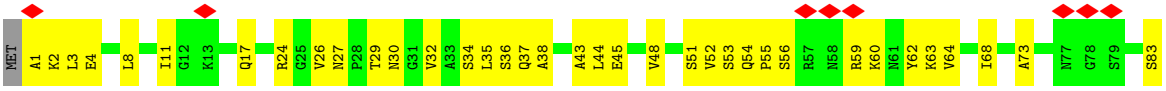
• Molecule 3: Capsid protein

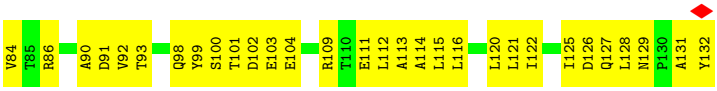
Chain GK:



• Molecule 3: Capsid protein

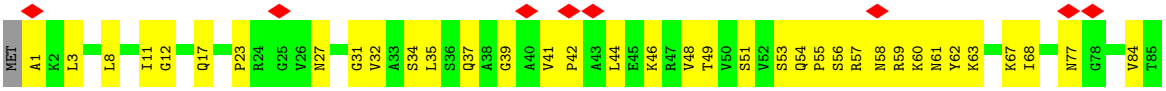
Chain GL:

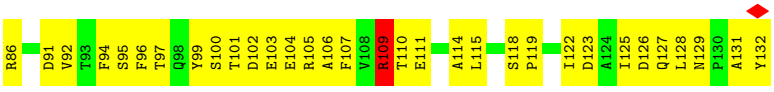




• Molecule 3: Capsid protein

Chain GM:





• Molecule 3: Capsid protein

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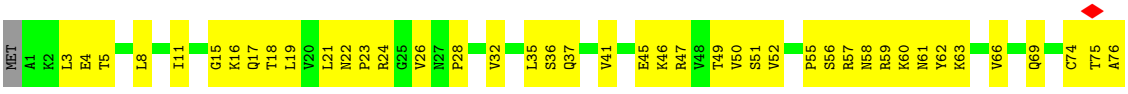
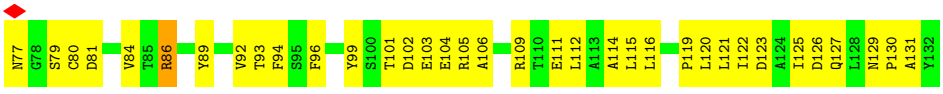
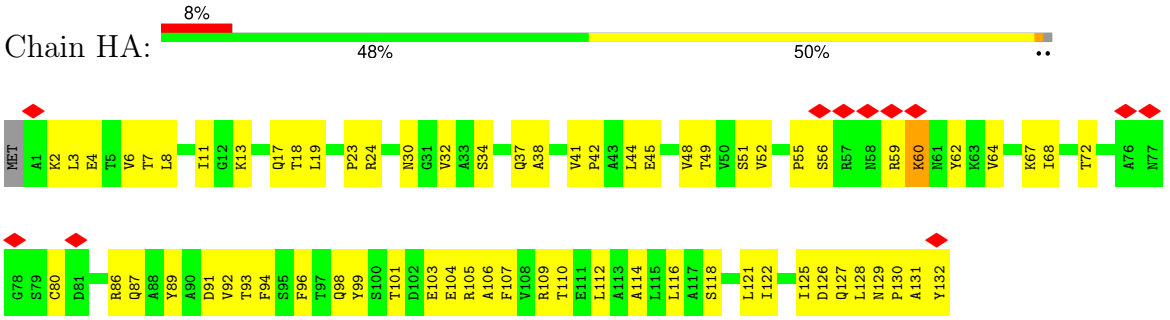




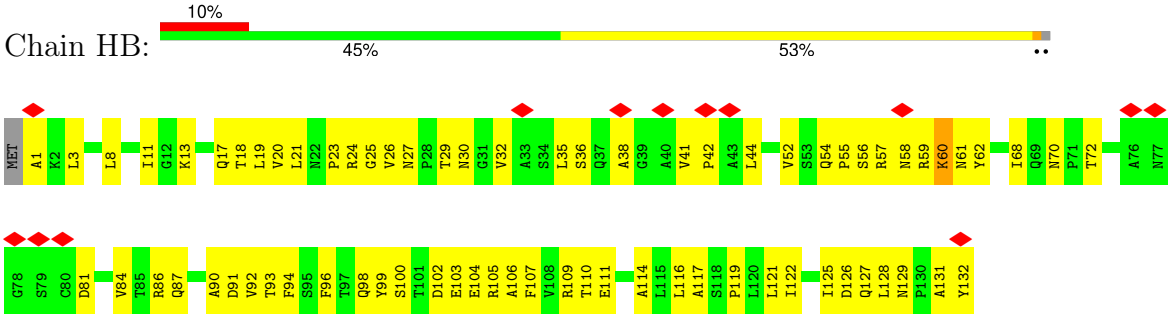
• Molecule 3: Capsid protein

Chain HA:



• Molecule 3: Capsid protein

Chain HB:



• Molecule 3: Capsid protein

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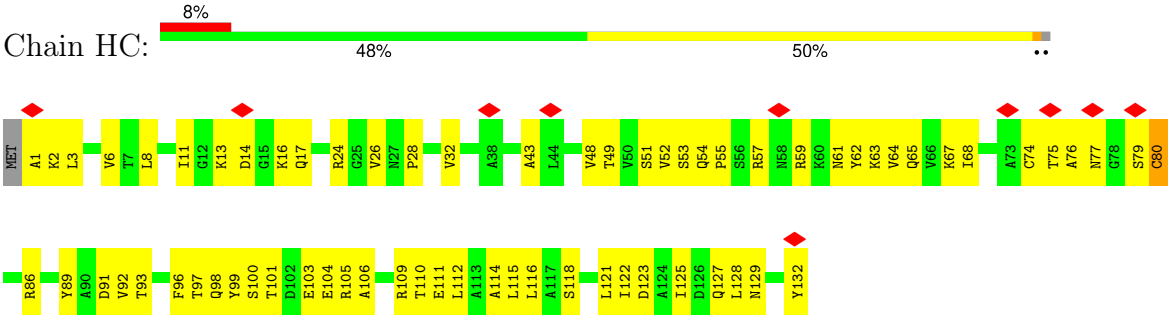
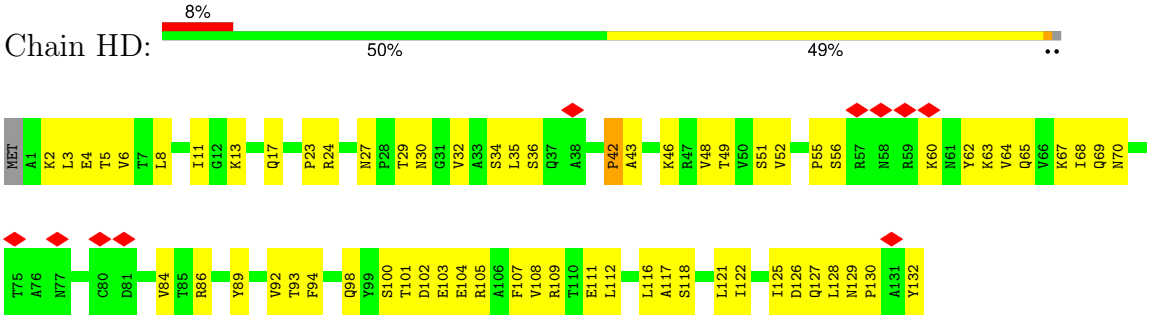


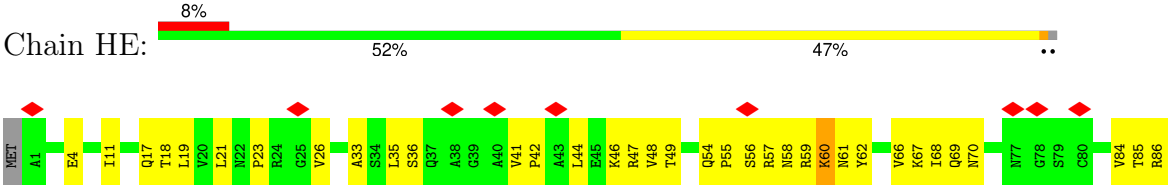
• Molecule 3: Capsid protein

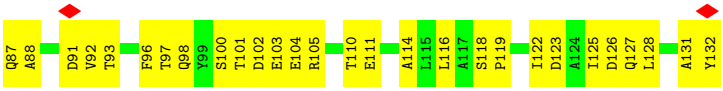
Chain HD:



• Molecule 3: Capsid protein

Chain HE:





• Molecule 3: Capsid protein

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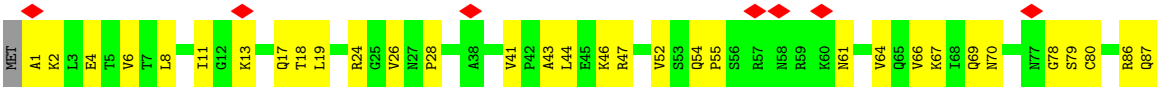
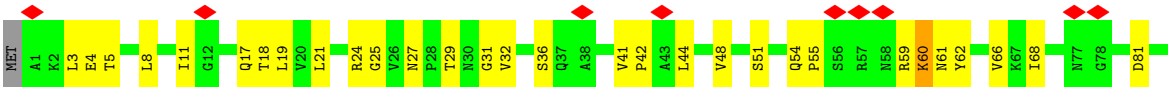


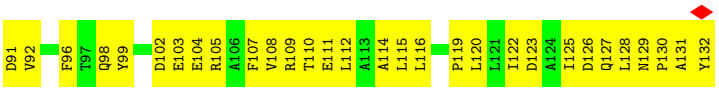
• Molecule 3: Capsid protein

Chain HG:

• Molecule 3: Capsid protein

Chain HH:





• Molecule 3: Capsid protein

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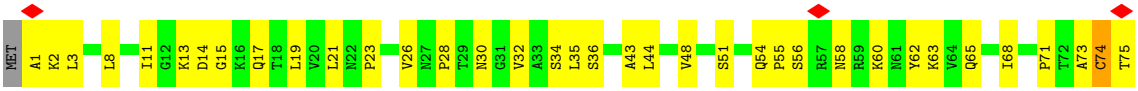
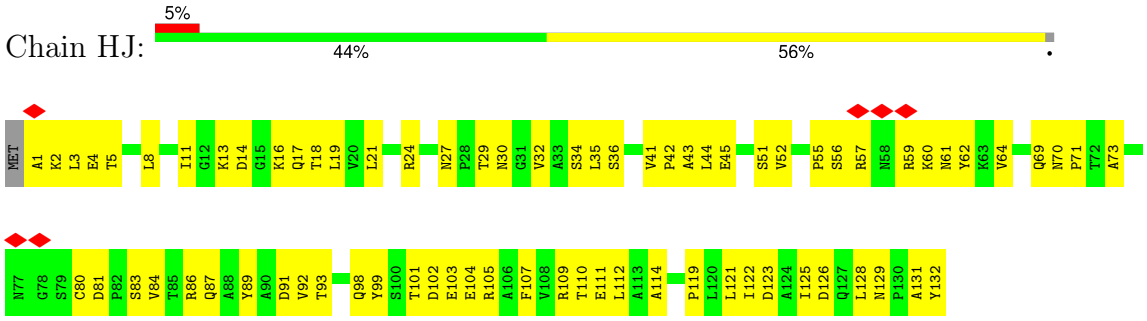


• Molecule 3: Capsid protein

Chain HJ:



• Molecule 3: Capsid protein

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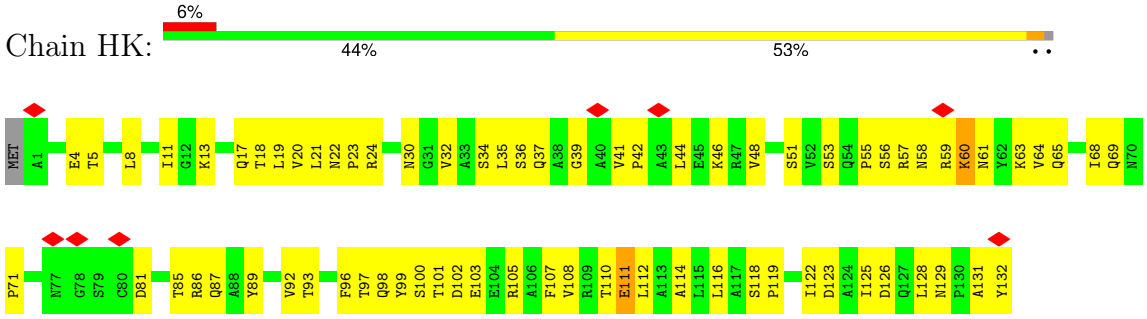

• Molecule 3: Capsid protein

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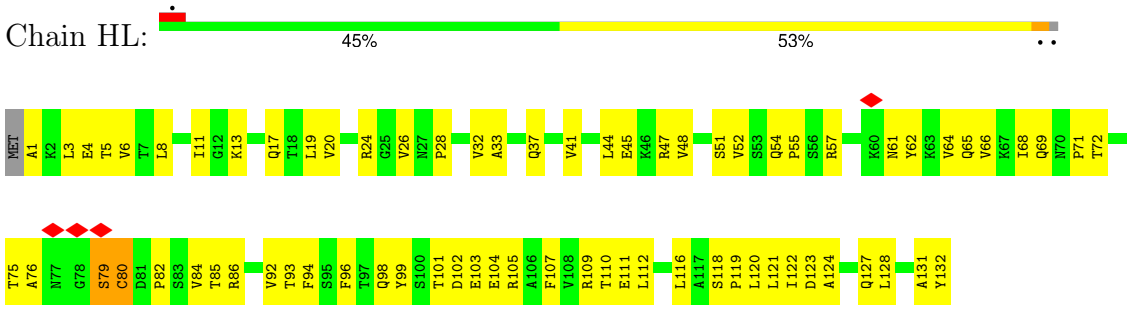

• Molecule 3: Capsid protein

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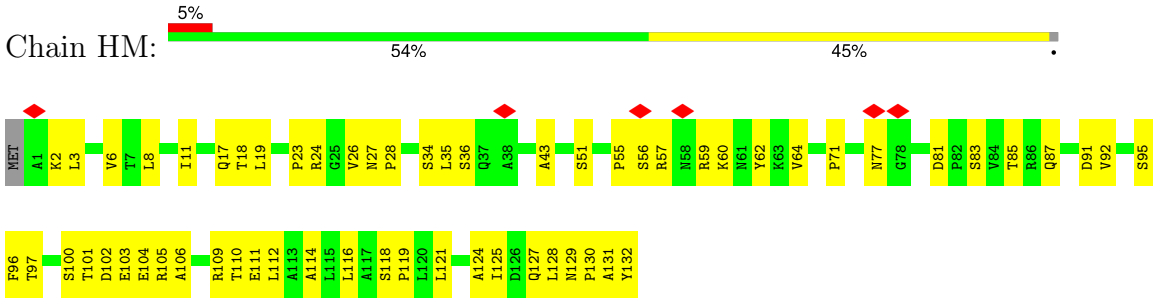

• Molecule 3: Capsid protein

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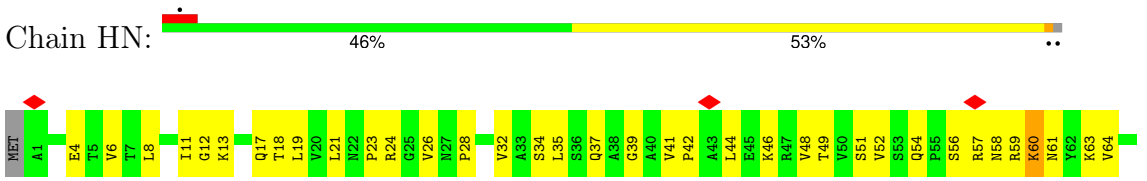
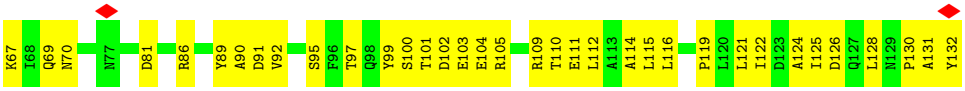
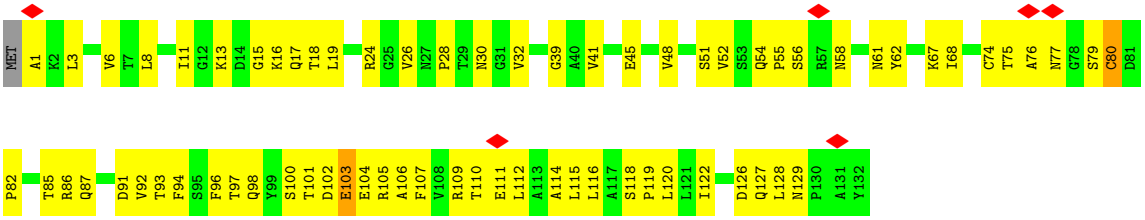




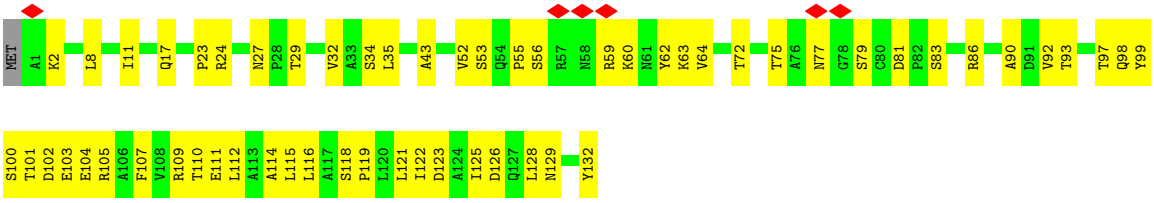
• Molecule 3: Capsid protein

Chain IA:



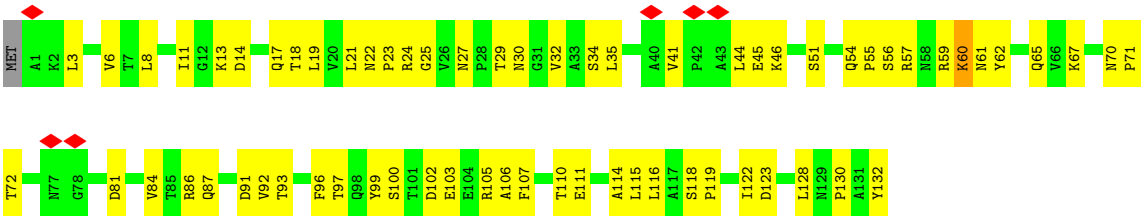
• Molecule 3: Capsid protein

Chain IB:



• Molecule 3: Capsid protein

Chain IC:



• Molecule 3: Capsid protein

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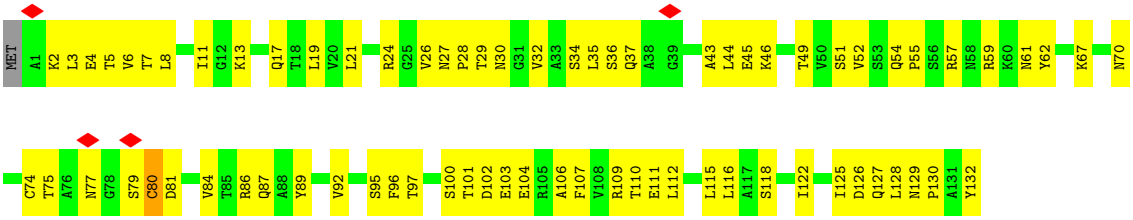
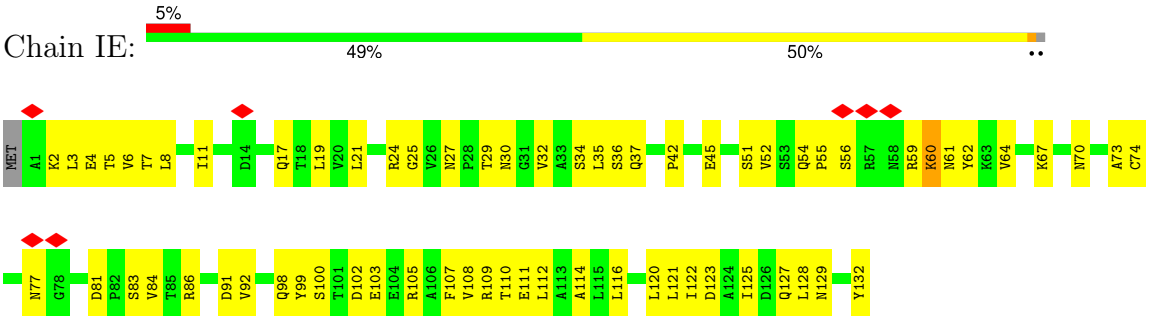


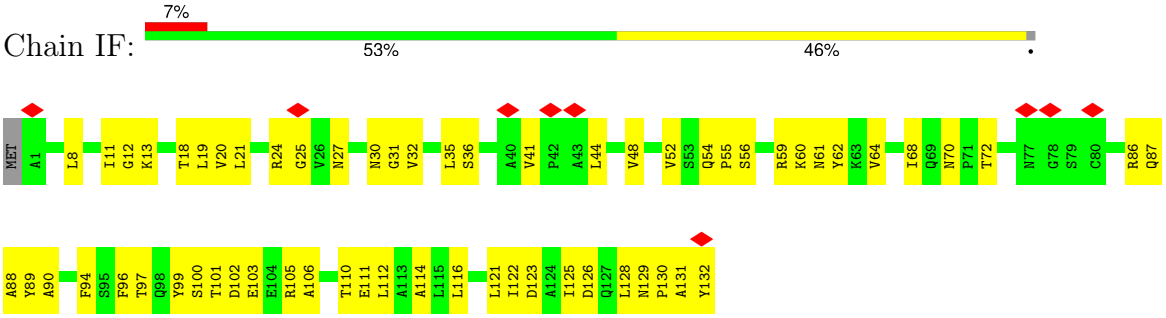
• Molecule 3: Capsid protein

Chain IE:



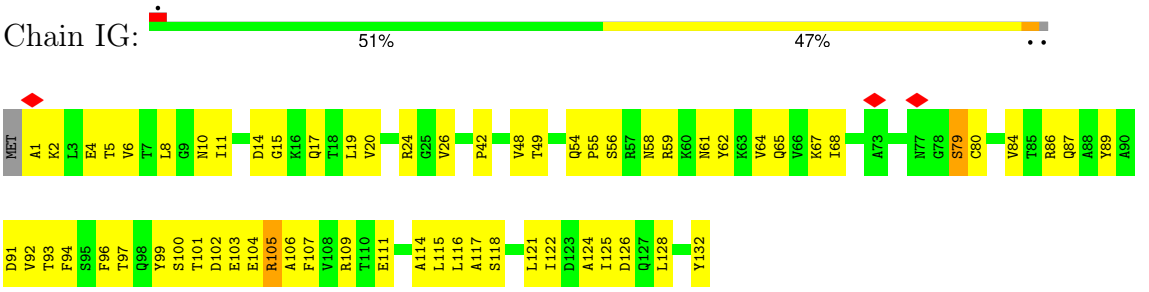
• Molecule 3: Capsid protein

Chain IF:



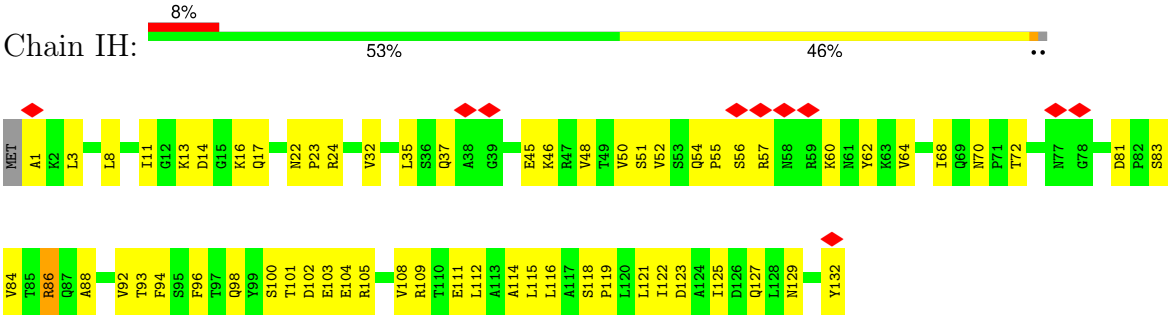
• Molecule 3: Capsid protein

Chain IG:



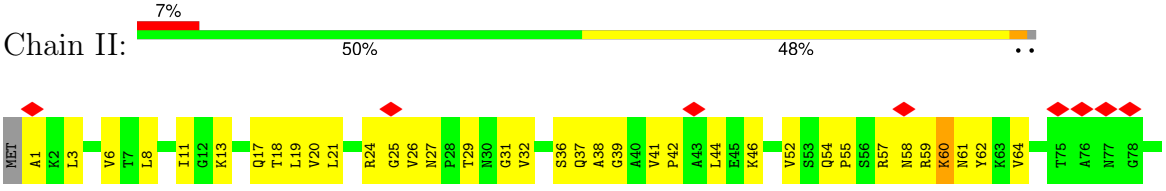
• Molecule 3: Capsid protein

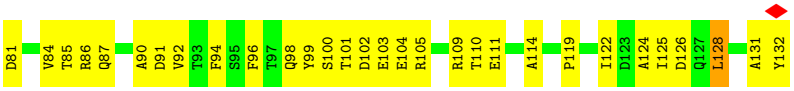
Chain IH:



• Molecule 3: Capsid protein

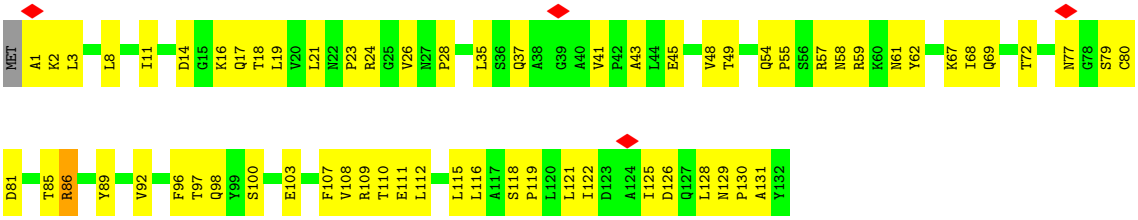
Chain II:





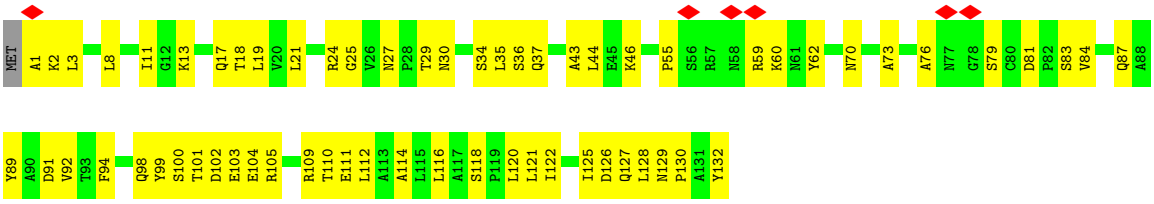
• Molecule 3: Capsid protein

Chain IJ:



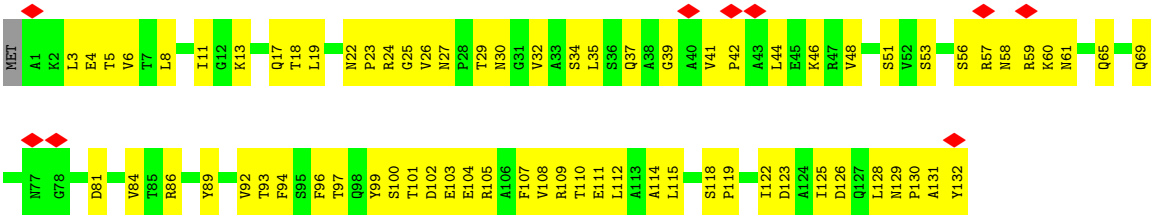
• Molecule 3: Capsid protein

Chain IK:



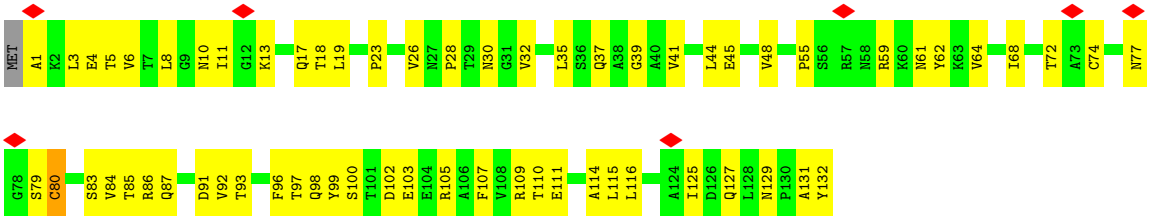
• Molecule 3: Capsid protein

Chain IL:



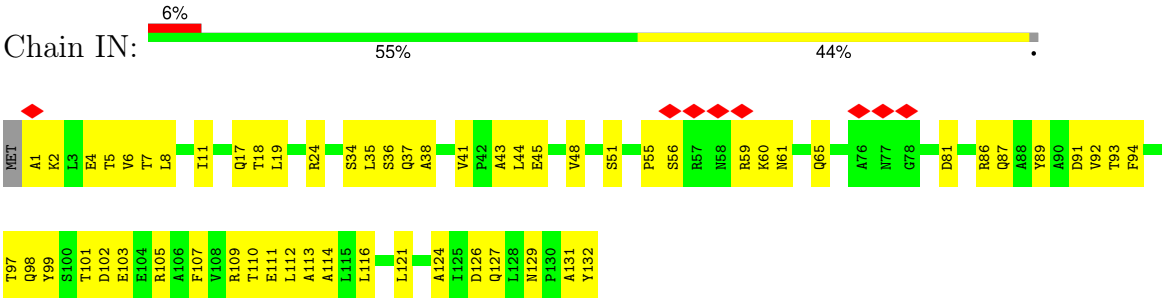
• Molecule 3: Capsid protein

Chain IM:



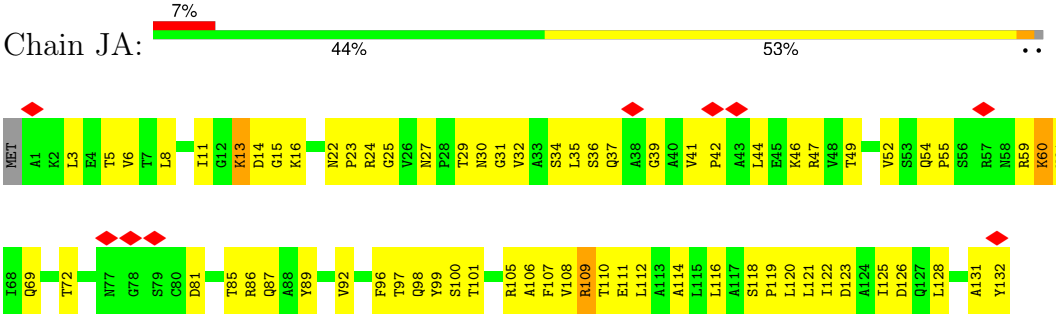
• Molecule 3: Capsid protein

Chain IN:



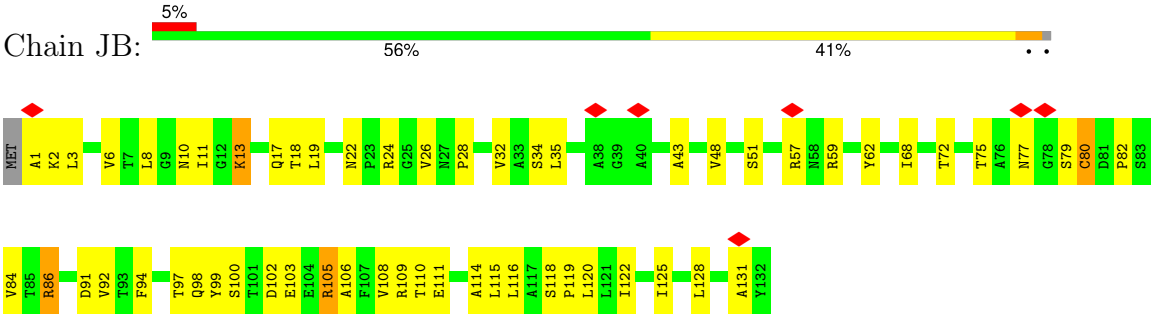
• Molecule 3: Capsid protein

Chain JA:



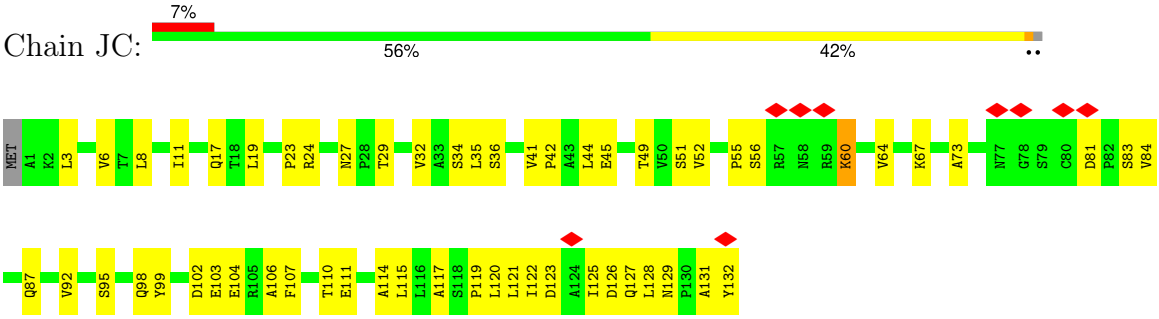
• Molecule 3: Capsid protein

Chain JB:



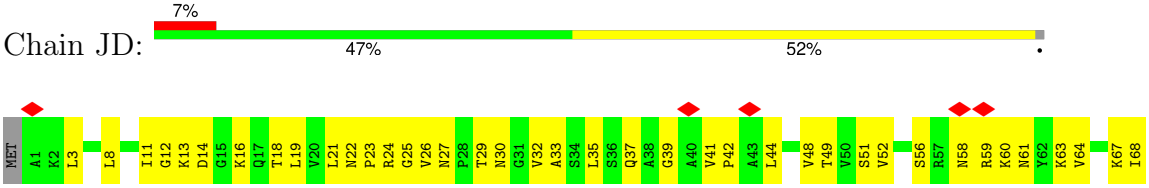
• Molecule 3: Capsid protein

Chain JC:



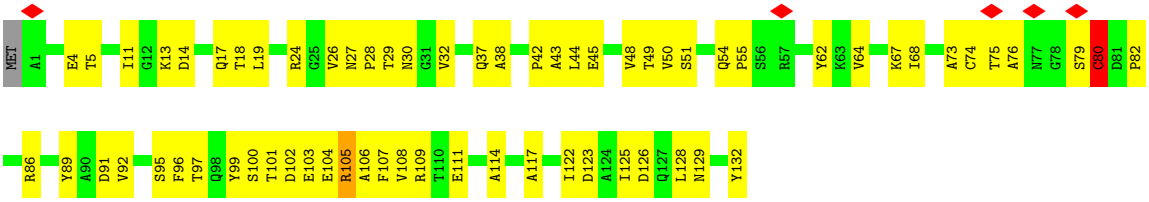
• Molecule 3: Capsid protein

Chain JD:



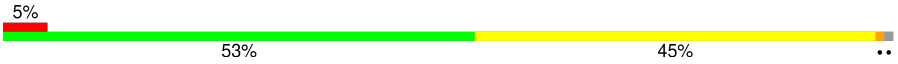
• Molecule 3: Capsid protein

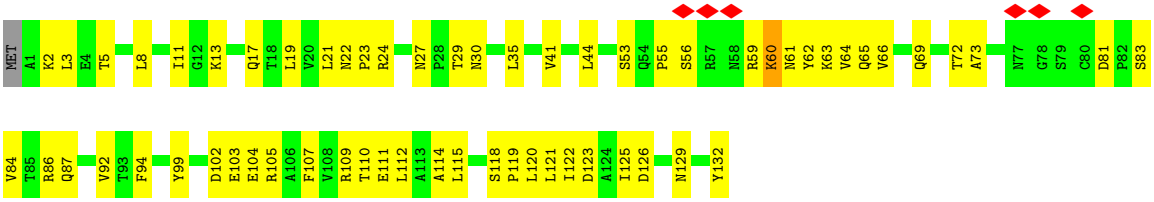
Chain JE:



• Molecule 3: Capsid protein

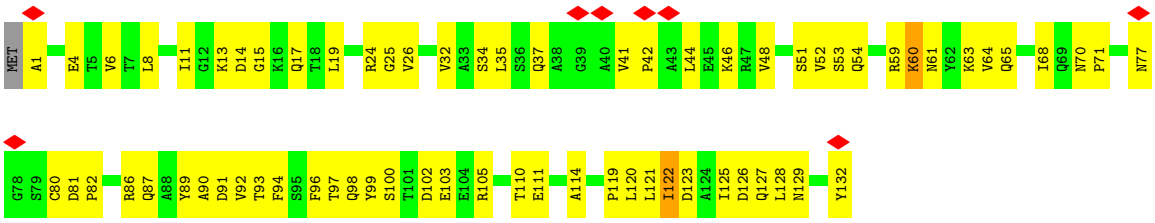
Chain JF:





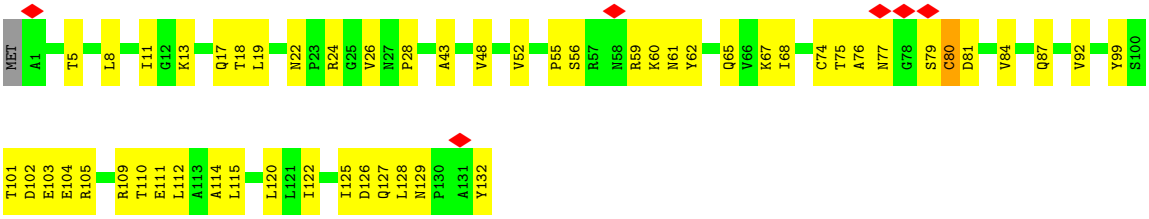
• Molecule 3: Capsid protein

Chain JG:



• Molecule 3: Capsid protein

Chain JH:

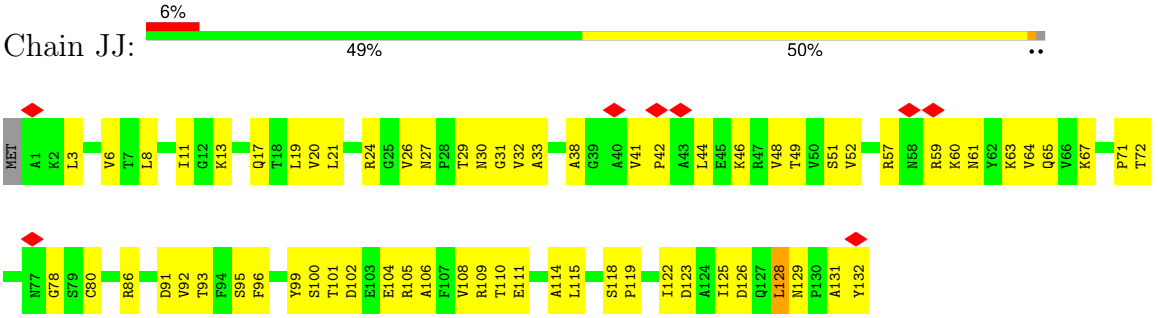


• Molecule 3: Capsid protein

Chain JI:

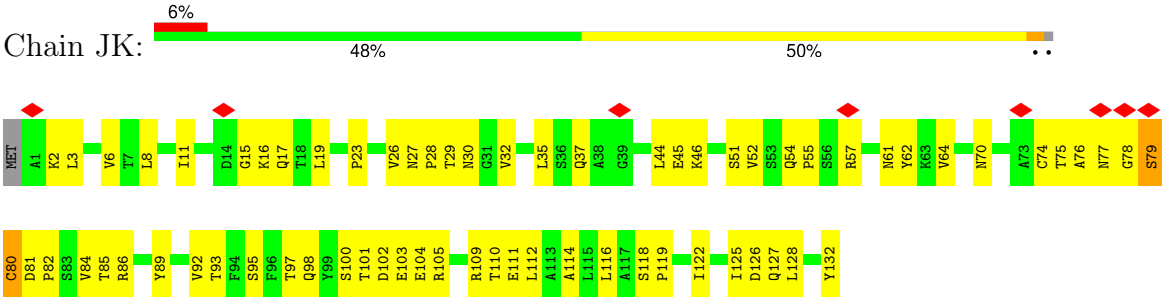
• Molecule 3: Capsid protein

Chain JJ:



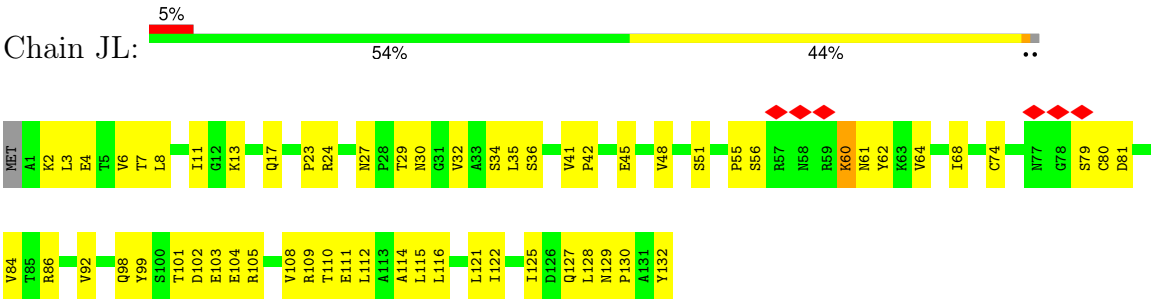
• Molecule 3: Capsid protein

Chain JK:



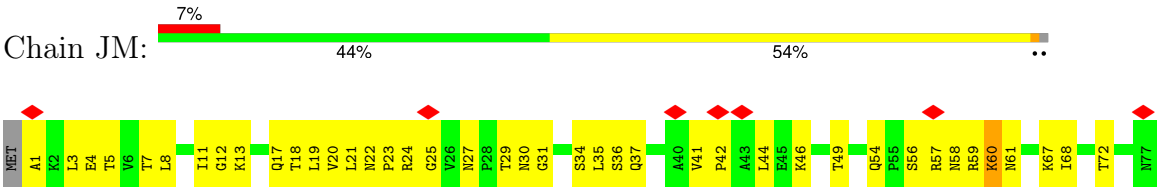
• Molecule 3: Capsid protein

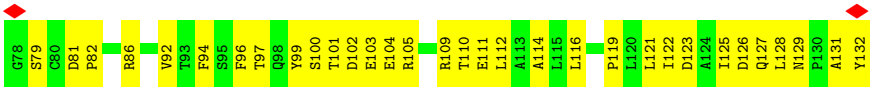
Chain JL:



• Molecule 3: Capsid protein

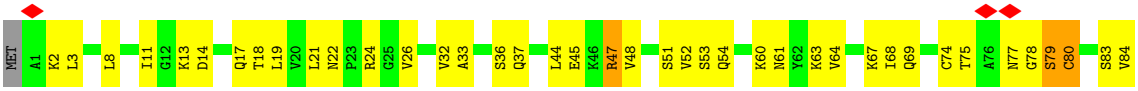
Chain JM:





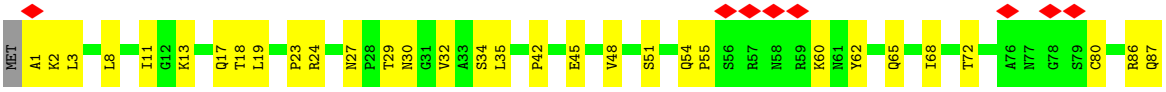
• Molecule 3: Capsid protein

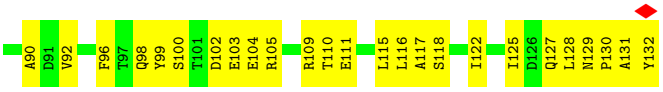
Chain JN:



• Molecule 3: Capsid protein

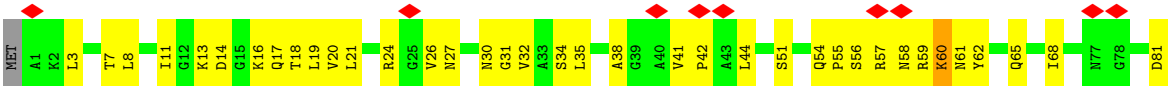
Chain KA:





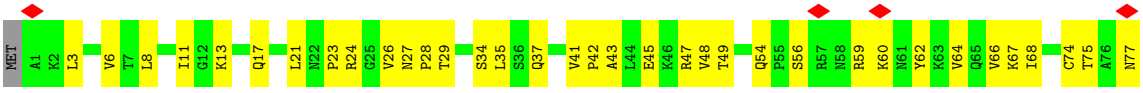
• Molecule 3: Capsid protein

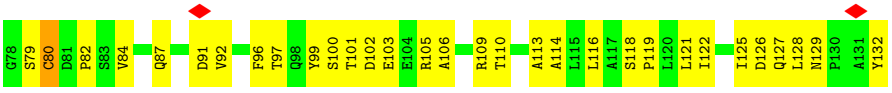
Chain KB:



• Molecule 3: Capsid protein

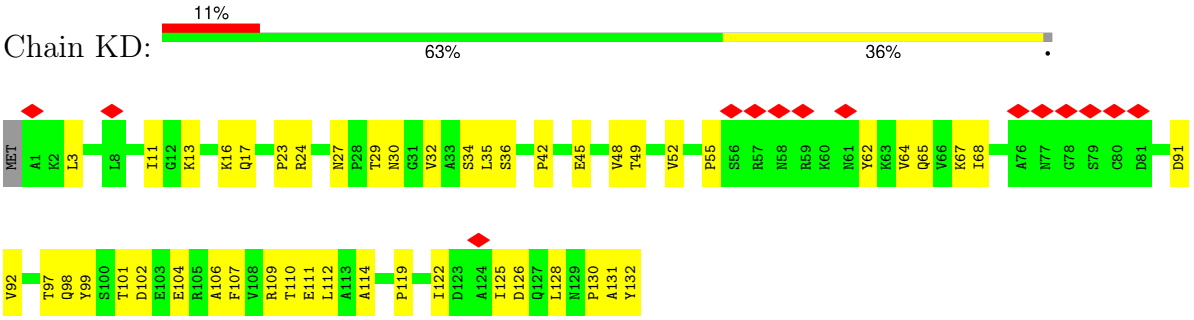
Chain KC:





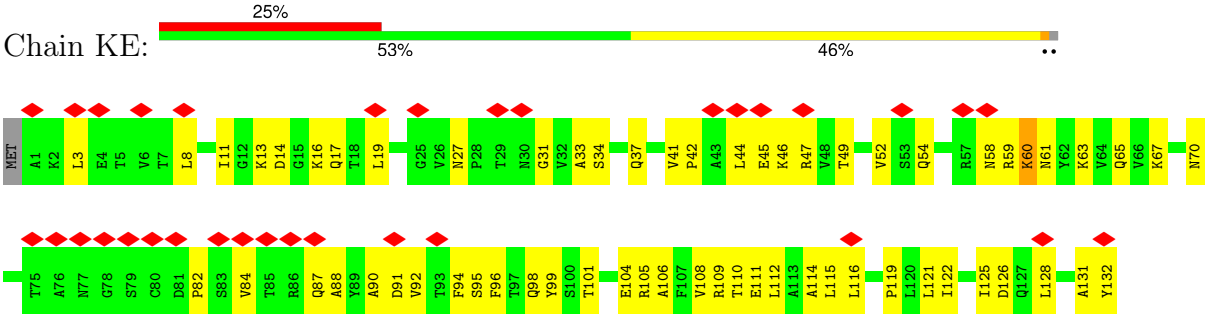
• Molecule 3: Capsid protein

Chain KD:



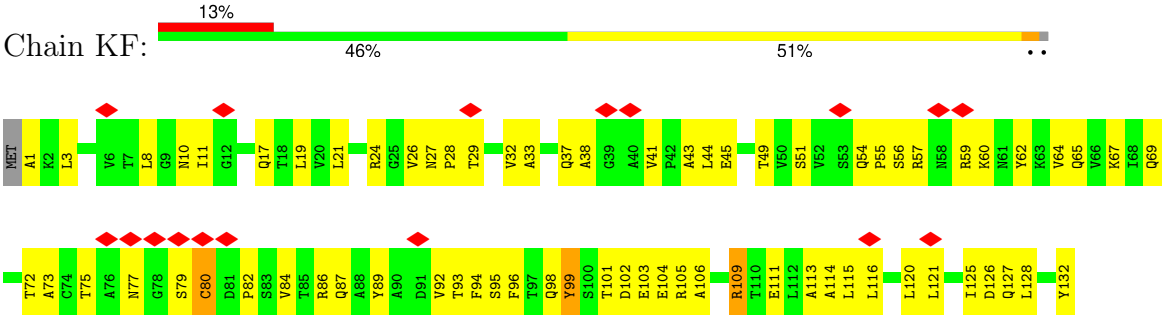
• Molecule 3: Capsid protein

Chain KE:



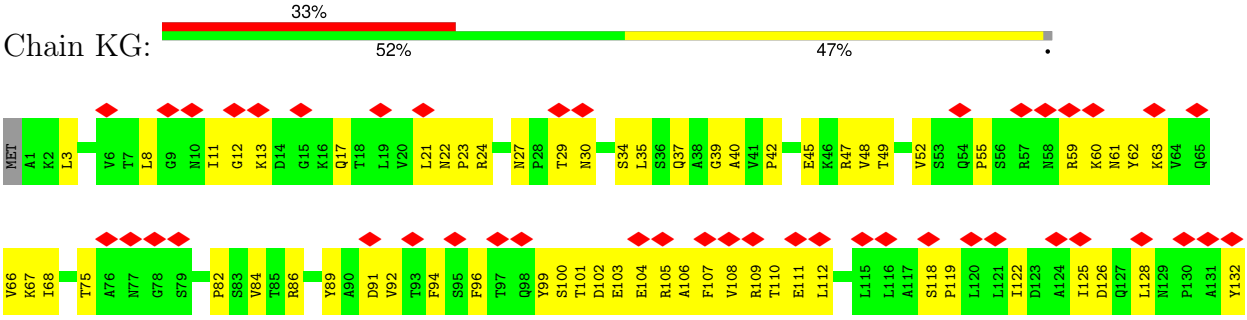
• Molecule 3: Capsid protein

Chain KF:



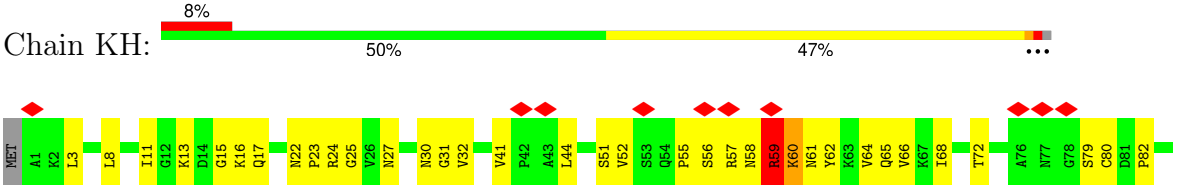
• Molecule 3: Capsid protein

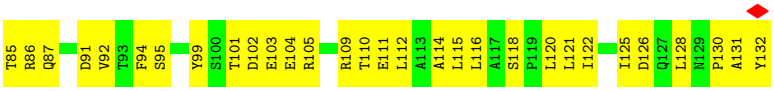
Chain KG:



• Molecule 3: Capsid protein

Chain KH:



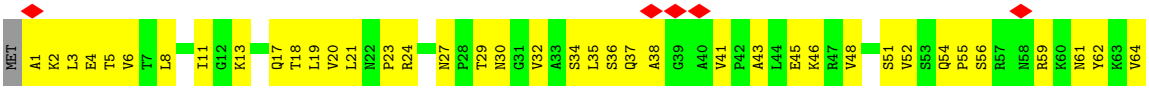


• Molecule 3: Capsid protein

Chain KI:

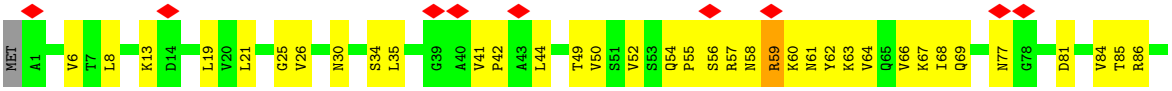
• Molecule 3: Capsid protein

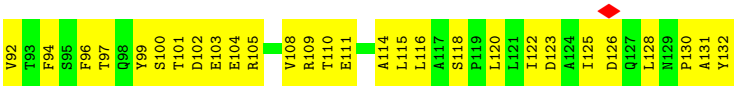
Chain KJ:



• Molecule 3: Capsid protein

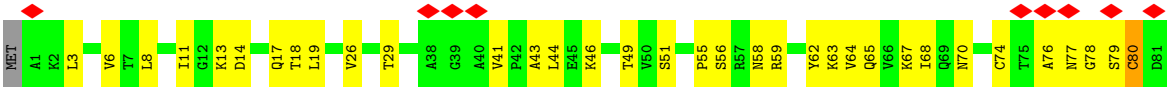
Chain KK:

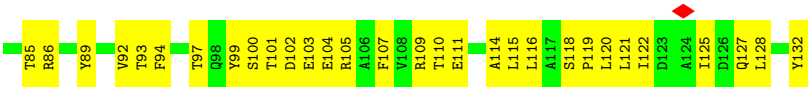




• Molecule 3: Capsid protein

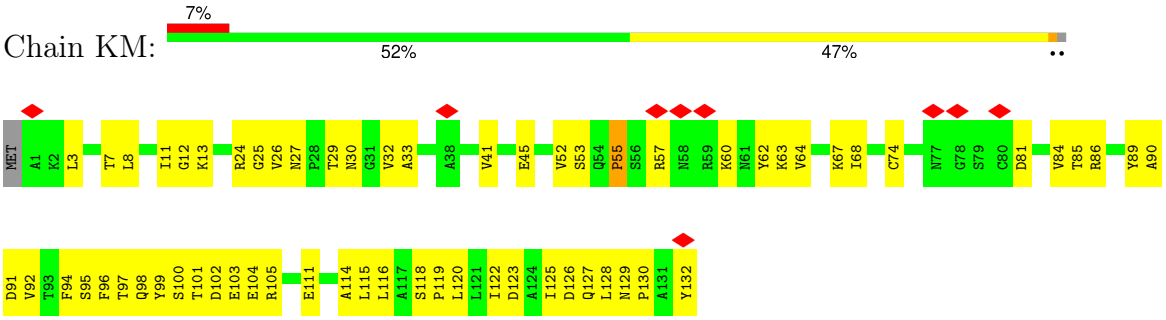
Chain KL:





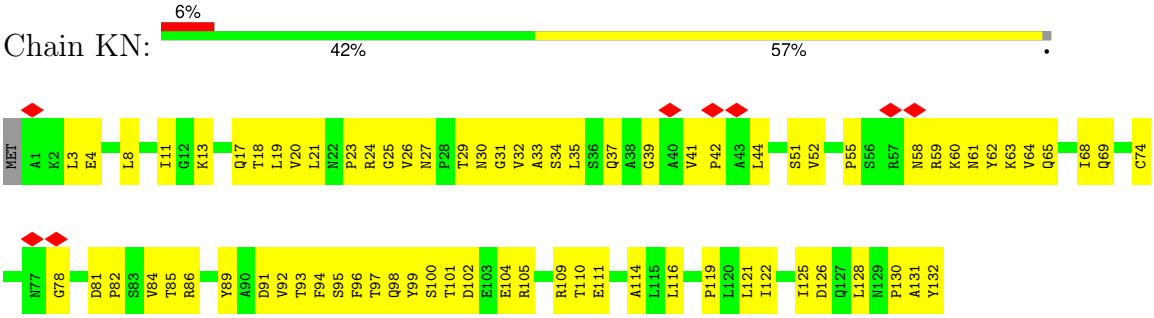
• Molecule 3: Capsid protein

Chain KM:



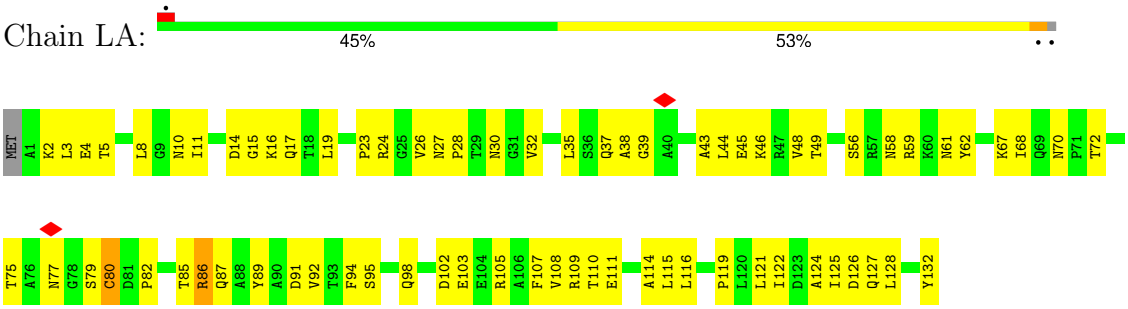
• Molecule 3: Capsid protein

Chain KN:



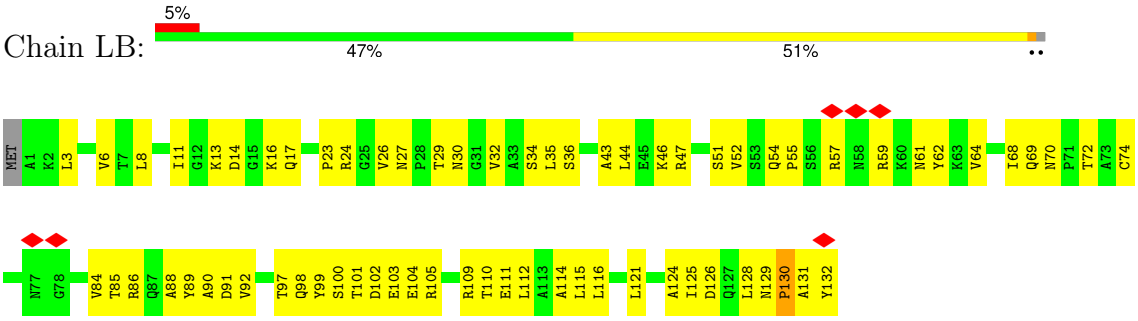
• Molecule 3: Capsid protein

Chain LA:



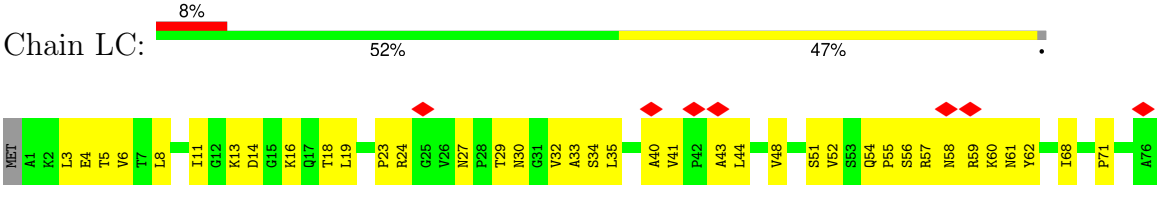
• Molecule 3: Capsid protein

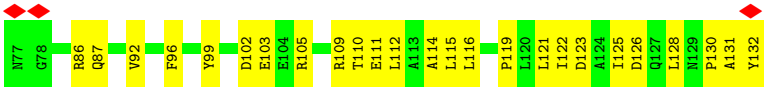
Chain LB:



• Molecule 3: Capsid protein

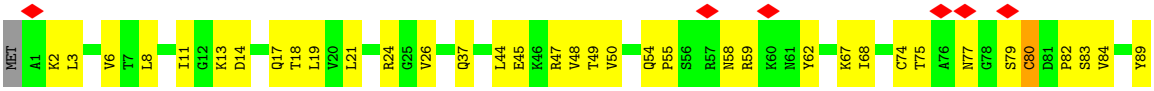
Chain LC:





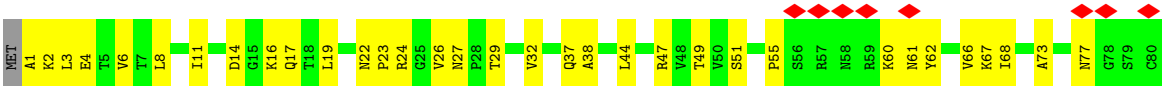
• Molecule 3: Capsid protein

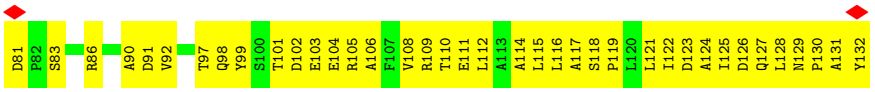
Chain LD:



• Molecule 3: Capsid protein

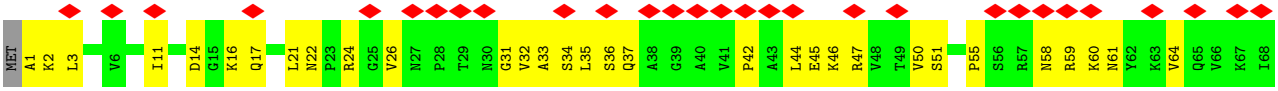
Chain LE:

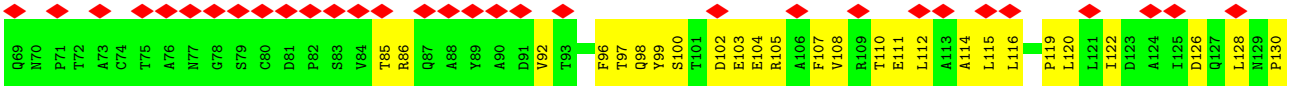




• Molecule 3: Capsid protein

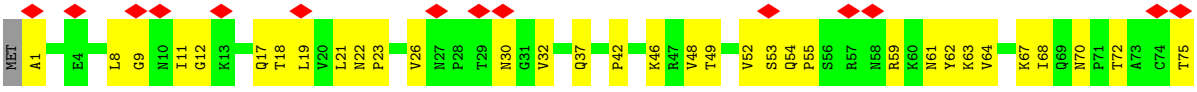
Chain LF:





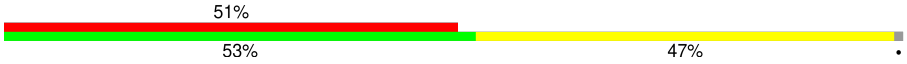
• Molecule 3: Capsid protein

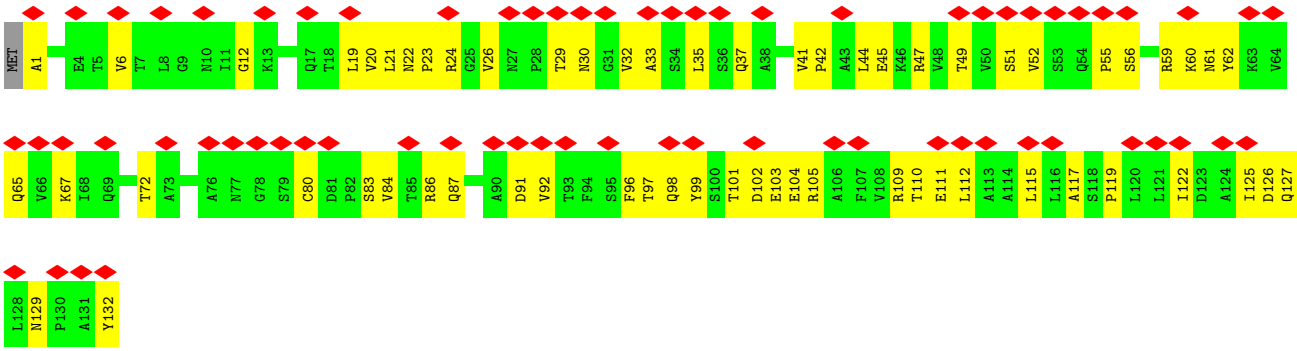
Chain LG:



• Molecule 3: Capsid protein

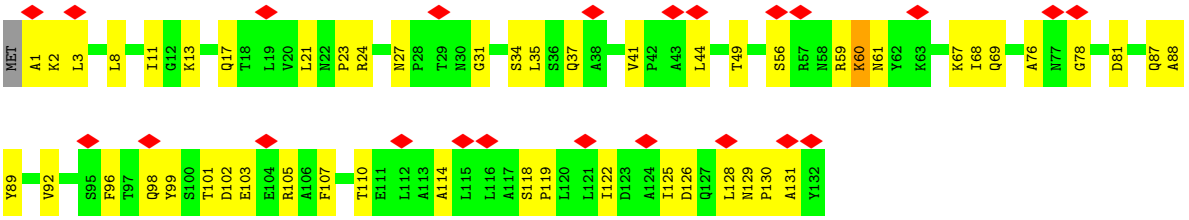
Chain LH:





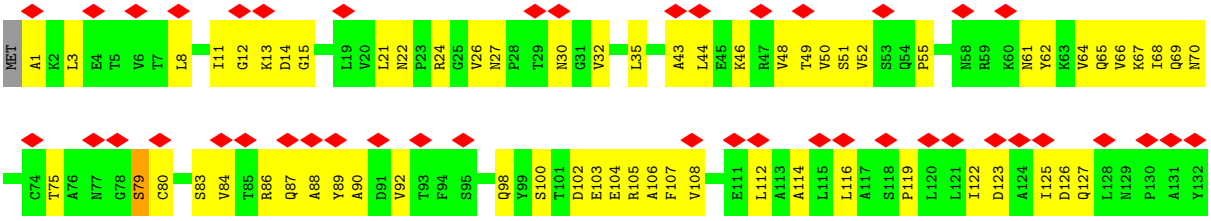
• Molecule 3: Capsid protein

Chain LI:



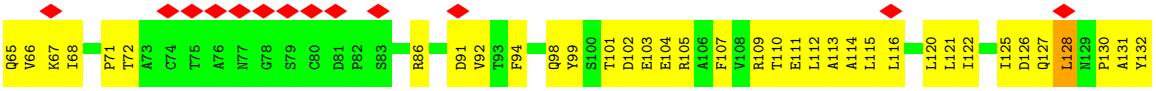
• Molecule 3: Capsid protein

Chain LJ:

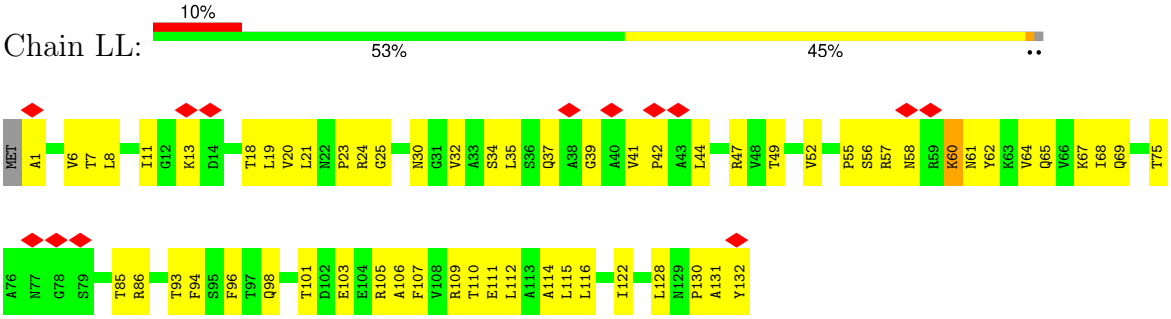


• Molecule 3: Capsid protein

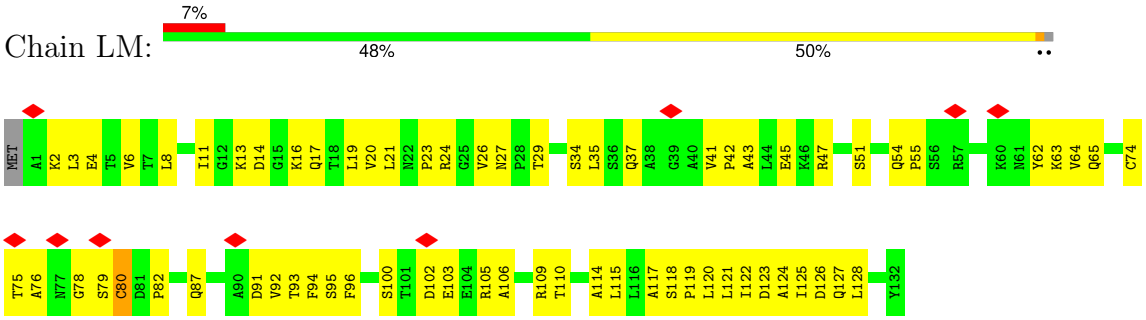
Chain LK:



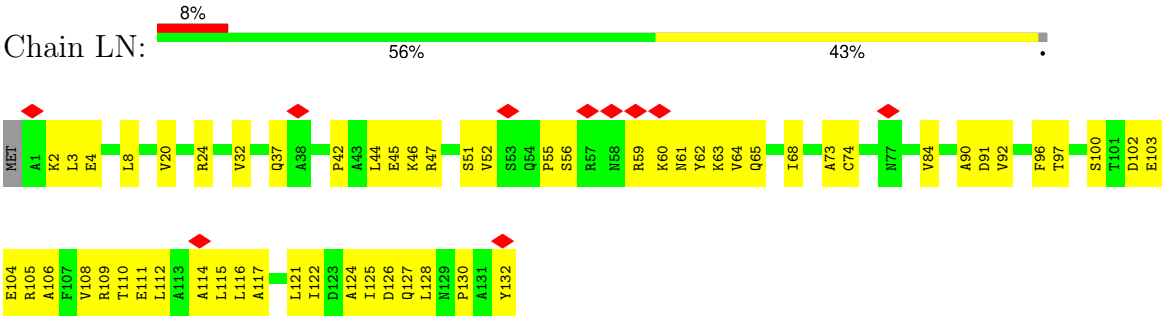
• Molecule 3: Capsid protein



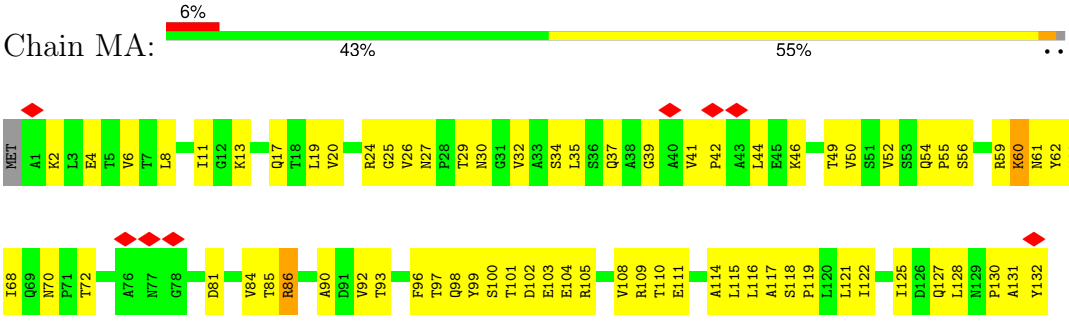
• Molecule 3: Capsid protein



• Molecule 3: Capsid protein

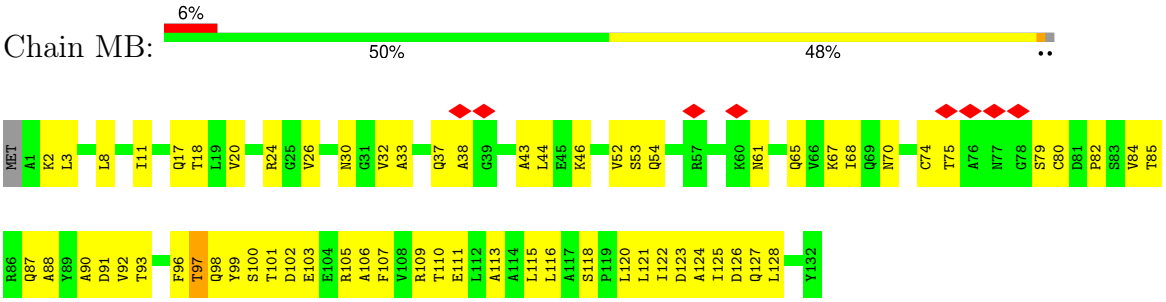


• Molecule 3: Capsid protein



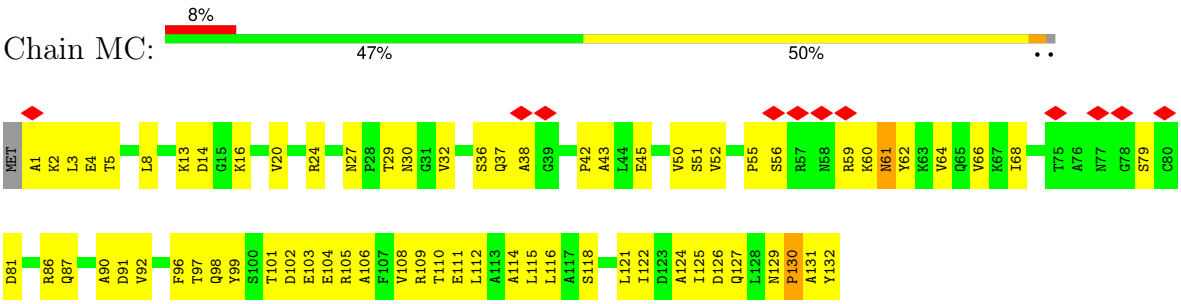
• Molecule 3: Capsid protein

Chain MB:



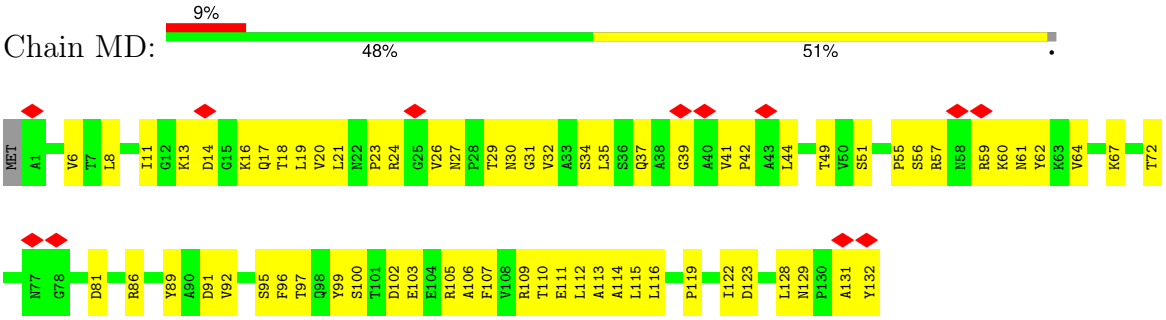
• Molecule 3: Capsid protein

Chain MC:



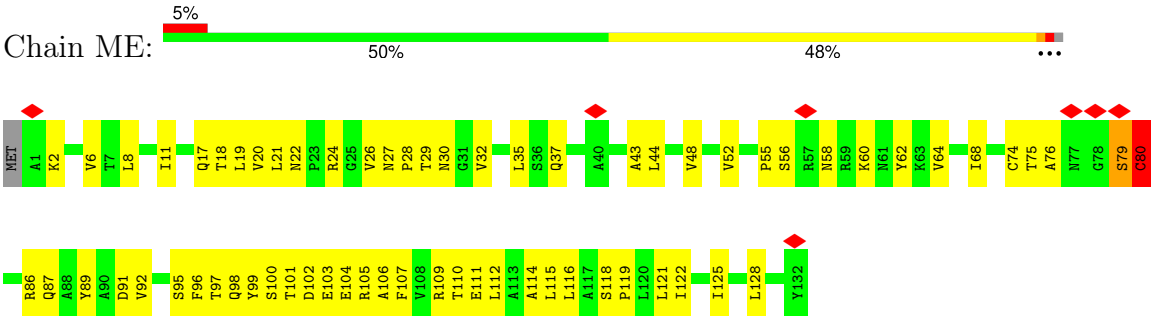
• Molecule 3: Capsid protein

Chain MD:



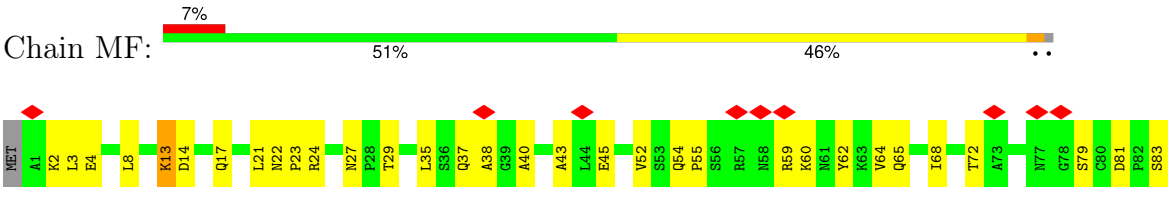
• Molecule 3: Capsid protein

Chain ME:



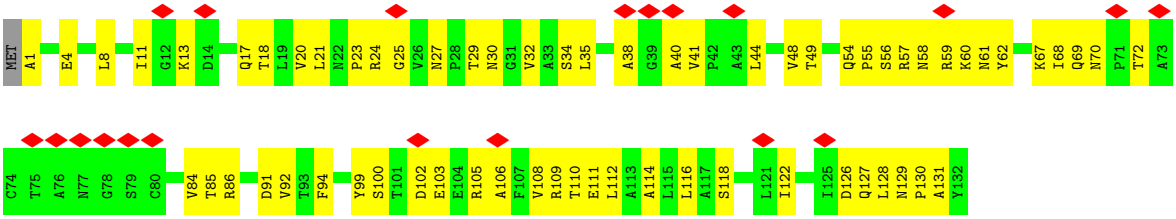
• Molecule 3: Capsid protein

Chain MF:



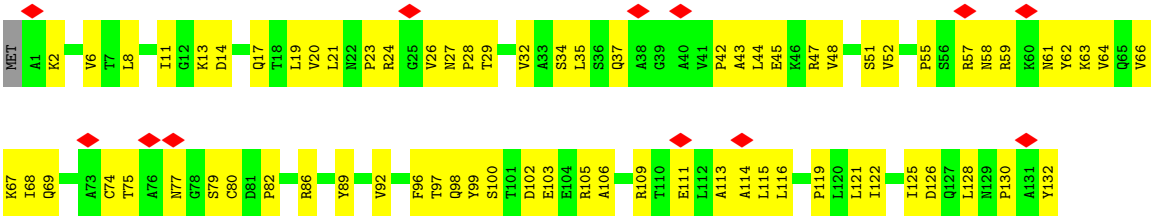
• Molecule 3: Capsid protein

Chain MG:



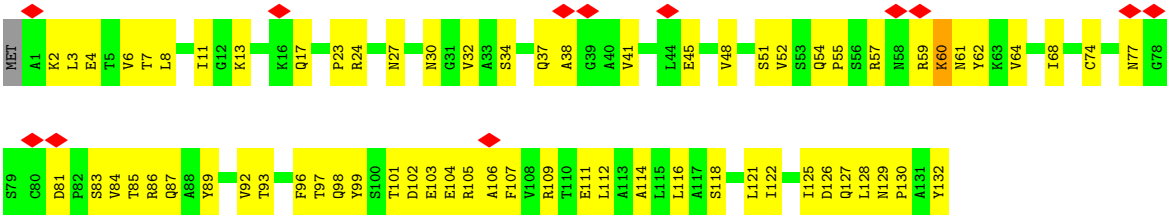
• Molecule 3: Capsid protein

Chain MH:



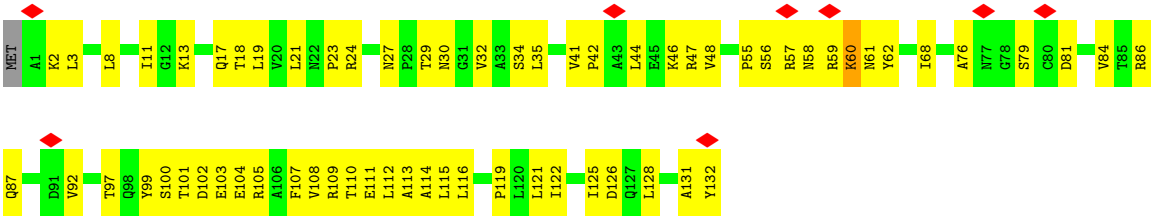
• Molecule 3: Capsid protein

Chain MI:



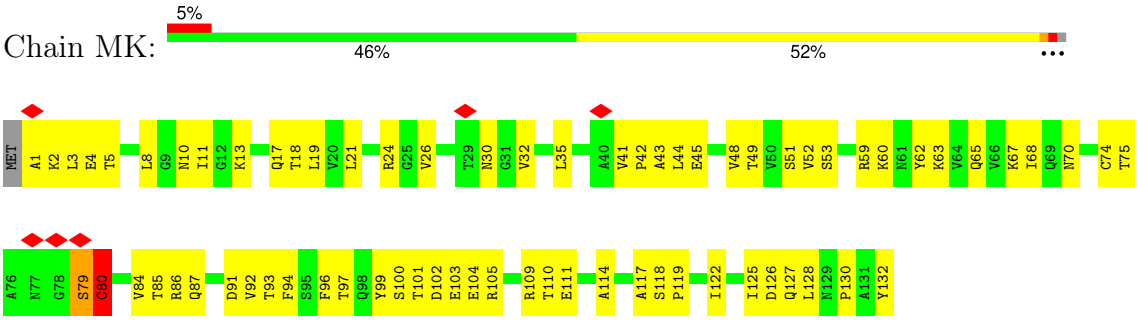
• Molecule 3: Capsid protein

Chain MJ:



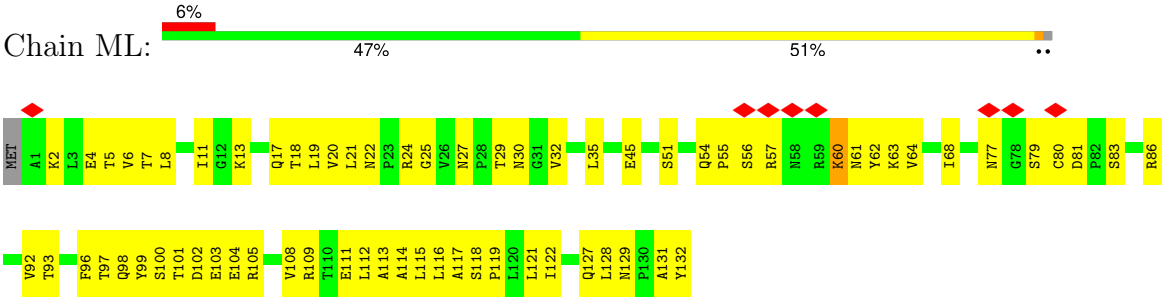
• Molecule 3: Capsid protein

Chain MK:



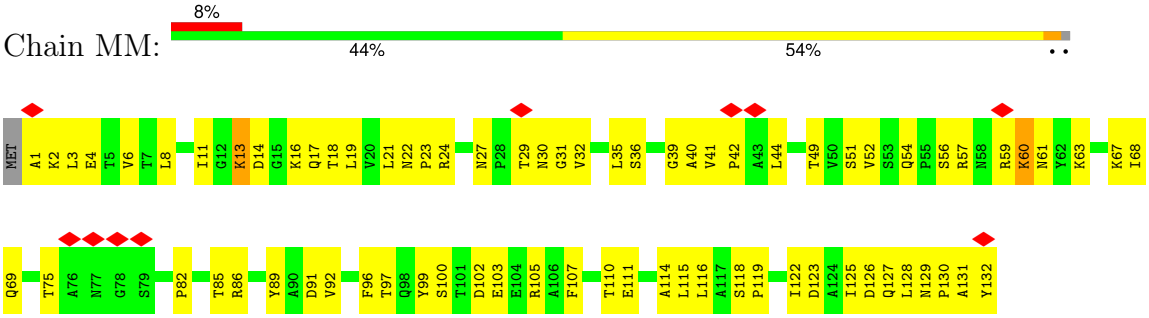
• Molecule 3: Capsid protein

Chain ML:



• Molecule 3: Capsid protein

Chain MM:



• Molecule 3: Capsid protein

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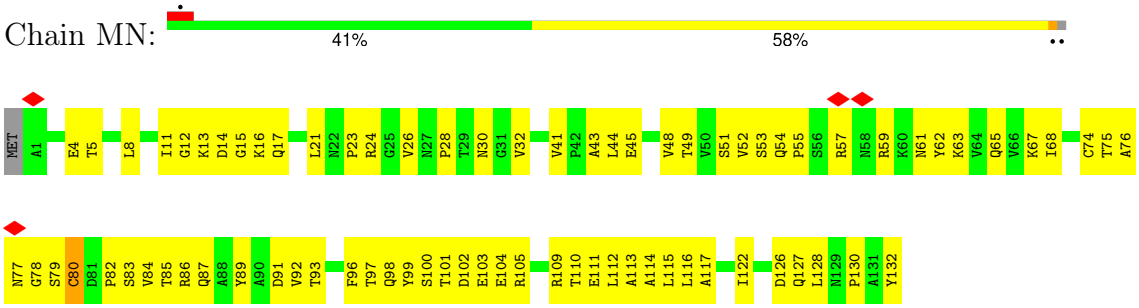
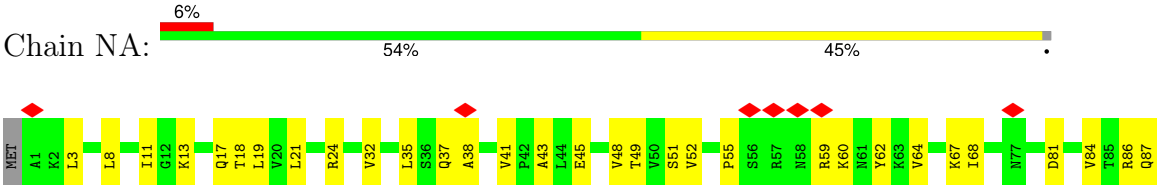
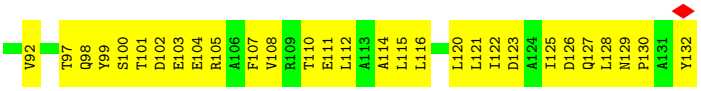


• Molecule 3: Capsid protein

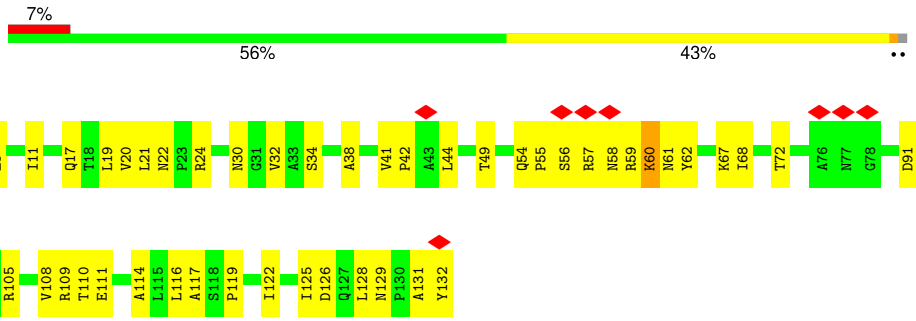
Chain NA:





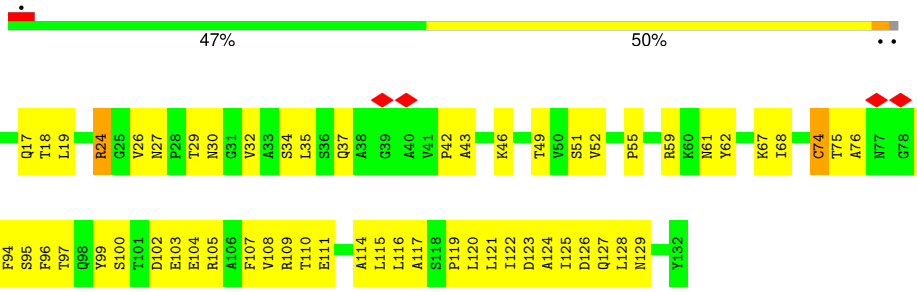
• Molecule 3: Capsid protein

Chain NB:



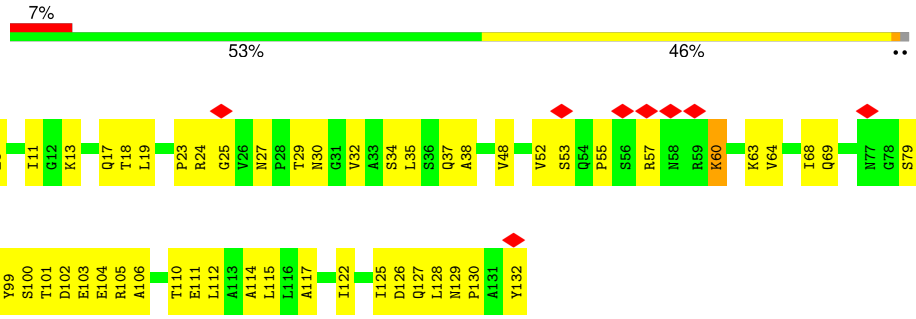
• Molecule 3: Capsid protein

Chain NC:



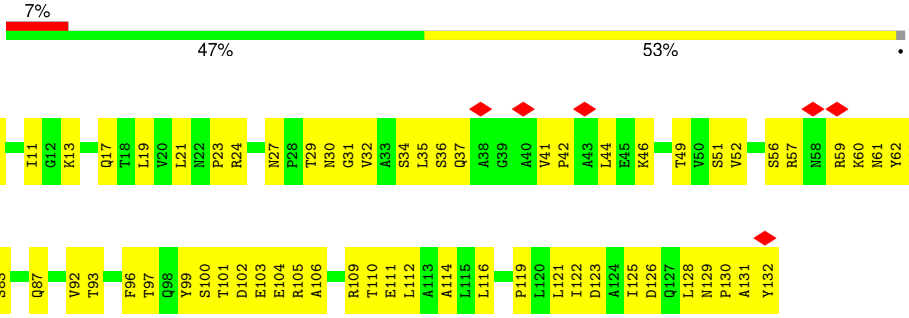
• Molecule 3: Capsid protein

Chain ND:



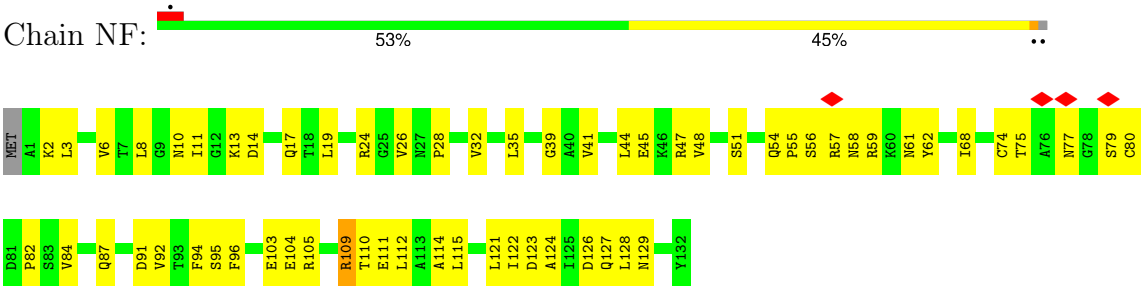
• Molecule 3: Capsid protein

Chain NE:



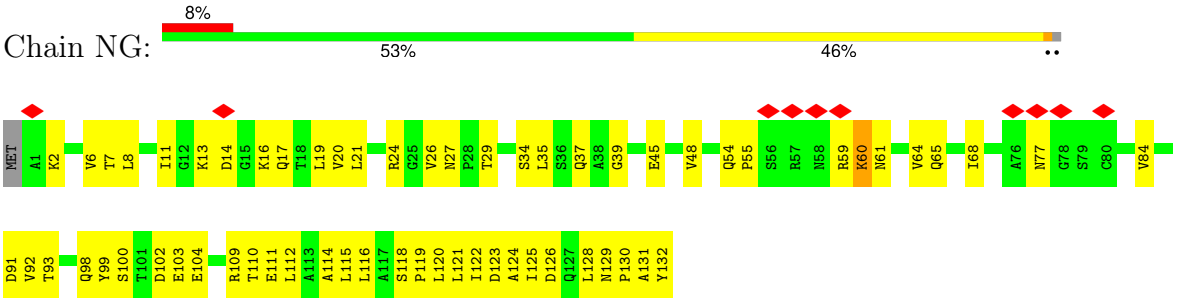
• Molecule 3: Capsid protein

Chain NF:



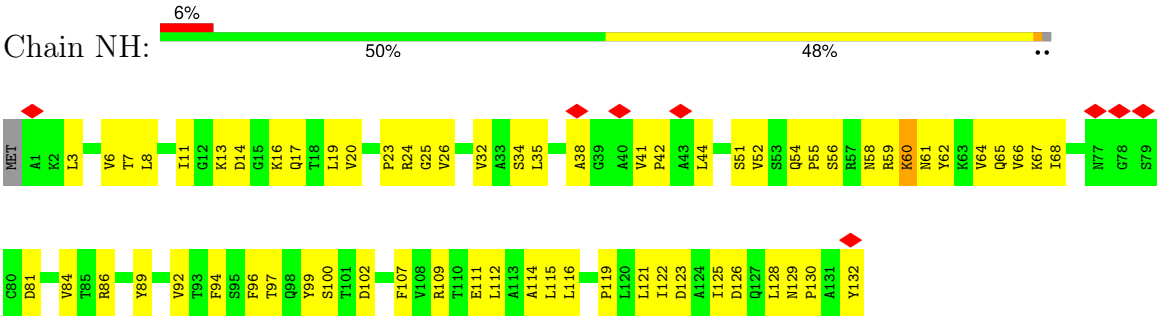
• Molecule 3: Capsid protein

Chain NG:



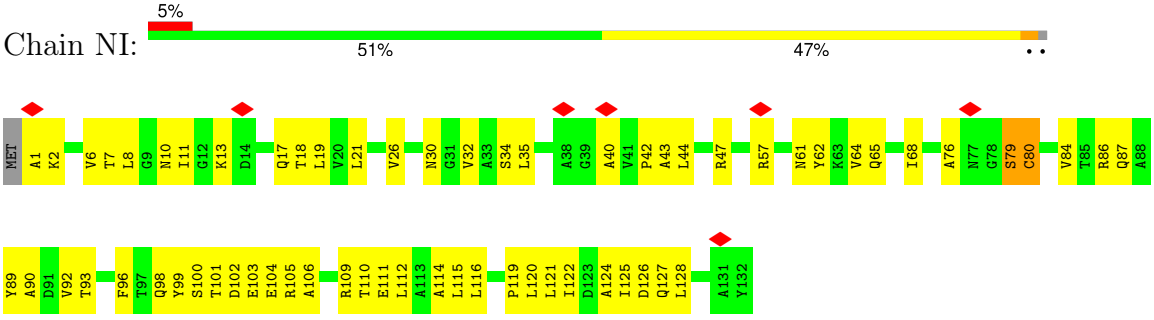
• Molecule 3: Capsid protein

Chain NH:



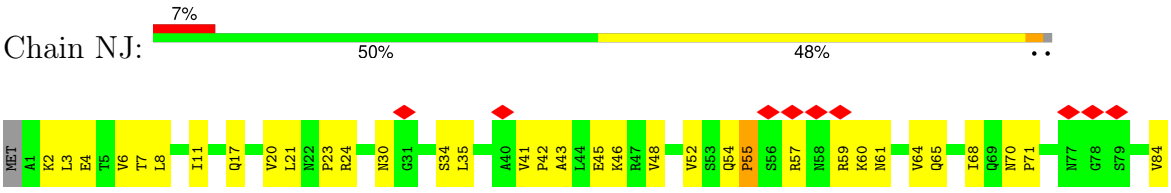
• Molecule 3: Capsid protein

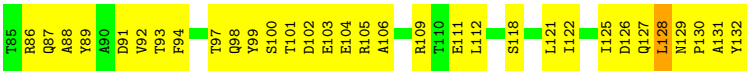
Chain NI:



• Molecule 3: Capsid protein

Chain NJ:




T85
R86
Q87
A88
Y89
A90
D91
V92
T93
F94
T97
Q98
Y99
S100
T101
D102
E103
E104
R105
A106
R109
T110
E111
L112
S118
L121
I122
I125
D126
Q127
L128
N129
P130
A131
Y132

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	86081	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	JEOL 3200FSC, FEI TECNAI F20	Depositor
Voltage (kV)	300, 200	Depositor
Electron dose ($e^-/Å^2$)	30, 30	Depositor
Minimum defocus (nm)	Not provided, Not provided	Depositor
Maximum defocus (nm)	Not provided, Not provided	Depositor
Magnification	Not provided, Not provided	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k), GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.079	Depositor
Minimum map value	-0.041	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.006	Depositor
Recommended contour level	0.018	Depositor
Map size (Å)	400.0, 400.0, 400.0	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.25, 1.25, 1.25	Depositor

5 Model quality

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	A	0.39	0/99732	0.91	51/155312 (0.0%)
2	M	0.32	0/3532	0.47	0/4790
3	B	0.31	0/1007	0.49	0/1371
3	BA	0.43	0/1007	0.59	0/1371
3	BB	0.52	0/1007	0.70	2/1371 (0.1%)
3	BC	0.46	0/1007	0.52	0/1371
3	BD	0.46	0/1007	0.63	0/1371
3	BE	0.42	0/1007	0.55	0/1371
3	BF	0.46	0/1007	0.63	1/1371 (0.1%)
3	BG	0.44	0/1007	0.60	0/1371
3	BH	0.46	0/1007	0.64	1/1371 (0.1%)
3	BI	0.45	0/1007	0.57	0/1371
3	BJ	0.48	1/1007 (0.1%)	0.65	1/1371 (0.1%)
3	BK	0.46	0/1007	0.57	0/1371
3	BL	0.42	0/1007	0.57	0/1371
3	BM	0.41	0/1007	0.58	0/1371
3	BN	0.42	0/1007	0.58	1/1371 (0.1%)
3	CA	0.44	0/1007	0.57	0/1371
3	CB	0.44	0/1007	0.64	1/1371 (0.1%)
3	CC	0.51	0/1007	0.69	3/1371 (0.2%)
3	CD	0.40	0/1007	0.60	1/1371 (0.1%)
3	CE	0.46	0/1007	0.64	0/1371
3	CF	0.45	0/1007	0.60	1/1371 (0.1%)
3	CG	0.50	0/1007	0.65	1/1371 (0.1%)
3	CH	0.44	0/1007	0.61	0/1371
3	CI	0.45	0/1007	0.56	0/1371
3	CJ	0.46	0/1007	0.67	2/1371 (0.1%)
3	CK	0.42	0/1007	0.56	0/1371
3	CL	0.47	0/1007	0.59	0/1371
3	CM	0.42	0/1007	0.61	0/1371
3	CN	0.46	0/1007	0.58	0/1371
3	D	0.31	0/1007	0.54	2/1371 (0.1%)
3	DA	0.48	0/1007	0.60	0/1371
3	DB	0.49	0/1007	0.61	0/1371

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	DC	0.41	0/1007	0.59	0/1371
3	DD	0.48	0/1007	0.60	0/1371
3	DE	0.46	0/1007	0.61	0/1371
3	DF	0.47	0/1007	0.62	0/1371
3	DG	0.48	0/1007	0.65	2/1371 (0.1%)
3	DH	0.52	1/1007 (0.1%)	0.66	3/1371 (0.2%)
3	DI	0.43	0/1007	0.57	0/1371
3	DJ	0.45	0/1007	0.57	0/1371
3	DK	0.44	0/1007	0.59	0/1371
3	DL	0.44	0/1007	0.60	0/1371
3	DM	0.45	0/1007	0.68	2/1371 (0.1%)
3	DN	0.42	0/1007	0.56	0/1371
3	EA	0.41	0/1007	0.64	0/1371
3	EB	0.46	0/1007	0.63	1/1371 (0.1%)
3	EC	0.44	0/1007	0.57	0/1371
3	ED	0.38	0/1007	0.62	0/1371
3	EE	0.43	0/1007	0.59	0/1371
3	EF	0.41	0/1007	0.58	0/1371
3	EG	0.38	0/1007	0.56	0/1371
3	EH	0.43	1/1007 (0.1%)	0.62	2/1371 (0.1%)
3	EI	0.46	0/1007	0.56	0/1371
3	EJ	0.52	0/1007	0.68	0/1371
3	EK	0.43	0/1007	0.58	1/1371 (0.1%)
3	EL	0.46	0/1007	0.59	0/1371
3	EM	0.44	0/1007	0.59	0/1371
3	EN	0.47	0/1007	0.55	0/1371
3	FA	0.44	0/1007	0.59	0/1371
3	FB	0.41	1/1007 (0.1%)	0.60	0/1371
3	FC	0.36	0/1007	0.58	1/1371 (0.1%)
3	FD	0.33	0/942	0.53	0/1280
3	FE	0.40	0/1007	0.62	0/1371
3	FF	0.40	0/1007	0.58	1/1371 (0.1%)
3	FG	0.39	0/1007	0.55	0/1371
3	FH	0.43	0/1007	0.64	0/1371
3	FI	0.45	0/1007	0.58	0/1371
3	FJ	0.48	0/1007	0.64	0/1371
3	FK	0.48	0/1007	0.67	1/1371 (0.1%)
3	FL	0.42	0/1007	0.57	0/1371
3	FM	0.42	0/1007	0.60	0/1371
3	FN	0.46	0/1007	0.67	2/1371 (0.1%)
3	GA	0.42	0/1007	0.57	0/1371
3	GB	0.30	0/954	0.54	0/1296
3	GC	0.43	0/1007	0.62	1/1371 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	GD	0.40	0/1007	0.61	1/1371 (0.1%)
3	GE	0.42	0/1007	0.56	0/1371
3	GF	0.42	0/1007	0.57	1/1371 (0.1%)
3	GG	0.48	0/1007	0.65	0/1371
3	GH	0.47	0/1007	0.63	1/1371 (0.1%)
3	GI	0.44	0/1007	0.57	0/1371
3	GJ	0.46	0/1007	0.64	1/1371 (0.1%)
3	GK	0.50	0/1007	0.61	0/1371
3	GL	0.45	0/1007	0.58	0/1371
3	GM	0.48	0/1007	0.68	1/1371 (0.1%)
3	GN	0.49	0/1007	0.63	1/1371 (0.1%)
3	HA	0.43	0/1007	0.57	0/1371
3	HB	0.42	0/1007	0.58	0/1371
3	HC	0.45	0/1007	0.57	0/1371
3	HD	0.47	1/1007 (0.1%)	0.65	2/1371 (0.1%)
3	HE	0.42	0/1007	0.60	0/1371
3	HF	0.44	0/1007	0.57	0/1371
3	HG	0.44	0/1007	0.57	0/1371
3	HH	0.44	0/1007	0.58	0/1371
3	HI	0.47	0/1007	0.61	1/1371 (0.1%)
3	HJ	0.47	0/1007	0.60	0/1371
3	HK	0.47	1/1007 (0.1%)	0.60	0/1371
3	HL	0.45	0/1007	0.59	0/1371
3	HM	0.48	0/1007	0.58	0/1371
3	HN	0.46	0/1007	0.58	0/1371
3	IA	0.47	0/1007	0.59	0/1371
3	IB	0.46	0/1007	0.57	0/1371
3	IC	0.50	1/1007 (0.1%)	0.61	0/1371
3	ID	0.48	0/1007	0.58	0/1371
3	IE	0.55	1/1007 (0.1%)	0.58	0/1371
3	IF	0.45	0/1007	0.59	0/1371
3	IG	0.49	0/1007	0.60	1/1371 (0.1%)
3	IH	0.46	0/1007	0.59	1/1371 (0.1%)
3	II	0.49	0/1007	0.63	1/1371 (0.1%)
3	IJ	0.49	0/1007	0.64	2/1371 (0.1%)
3	IK	0.44	0/1007	0.57	0/1371
3	IL	0.46	0/1007	0.62	0/1371
3	IM	0.45	0/1007	0.58	1/1371 (0.1%)
3	IN	0.42	0/1007	0.54	0/1371
3	JA	0.49	0/1007	0.74	4/1371 (0.3%)
3	JB	0.47	0/1007	0.66	3/1371 (0.2%)
3	JC	0.44	0/1007	0.57	0/1371
3	JD	0.46	0/1007	0.60	0/1371

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	JE	0.48	0/1007	0.67	2/1371 (0.1%)
3	JF	0.45	0/1007	0.58	0/1371
3	JG	0.44	0/1007	0.64	1/1371 (0.1%)
3	JH	0.43	0/1007	0.58	0/1371
3	JI	0.44	0/1007	0.59	0/1371
3	JJ	0.52	1/1007 (0.1%)	0.66	1/1371 (0.1%)
3	JK	0.45	0/1007	0.56	0/1371
3	JL	0.43	0/1007	0.55	0/1371
3	JM	0.44	0/1007	0.60	0/1371
3	JN	0.50	0/1007	0.59	1/1371 (0.1%)
3	KA	0.47	1/1007 (0.1%)	0.57	0/1371
3	KB	0.44	0/1007	0.63	0/1371
3	KC	0.42	0/1007	0.57	0/1371
3	KD	0.44	0/1007	0.56	0/1371
3	KE	0.38	0/1007	0.60	0/1371
3	KF	0.54	1/1007 (0.1%)	0.67	2/1371 (0.1%)
3	KG	0.36	0/1007	0.53	0/1371
3	KH	0.45	0/1007	0.66	0/1371
3	KI	0.45	0/1007	0.63	2/1371 (0.1%)
3	KJ	0.41	0/1007	0.55	0/1371
3	KK	0.44	0/1007	0.60	0/1371
3	KL	0.44	0/1007	0.56	0/1371
3	KM	0.41	0/1007	0.57	1/1371 (0.1%)
3	KN	0.47	0/1007	0.61	0/1371
3	LA	0.50	1/1007 (0.1%)	0.67	3/1371 (0.2%)
3	LB	0.45	0/1007	0.63	1/1371 (0.1%)
3	LC	0.56	1/1007 (0.1%)	0.73	3/1371 (0.2%)
3	LD	0.50	0/1007	0.64	1/1371 (0.1%)
3	LE	0.41	0/1007	0.57	0/1371
3	LF	0.36	0/1007	0.59	0/1371
3	LG	0.46	0/1007	0.67	2/1371 (0.1%)
3	LH	0.34	0/1007	0.58	0/1371
3	LI	0.42	0/1007	0.59	0/1371
3	LJ	0.34	0/1007	0.55	0/1371
3	LK	0.41	0/1007	0.66	1/1371 (0.1%)
3	LL	0.41	0/1007	0.62	0/1371
3	LM	0.42	0/1007	0.57	1/1371 (0.1%)
3	LN	0.40	0/1007	0.58	0/1371
3	MA	0.49	0/1007	0.65	1/1371 (0.1%)
3	MB	0.45	0/1007	0.60	0/1371
3	MC	0.45	0/1007	0.62	1/1371 (0.1%)
3	MD	0.45	0/1007	0.59	0/1371
3	ME	0.46	0/1007	0.56	1/1371 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	MF	0.55	2/1007 (0.2%)	0.77	6/1371 (0.4%)
3	MG	0.48	0/1007	0.62	0/1371
3	MH	0.40	0/1007	0.55	0/1371
3	MI	0.46	0/1007	0.60	0/1371
3	MJ	0.41	0/1007	0.62	0/1371
3	MK	0.44	0/1007	0.57	1/1371 (0.1%)
3	ML	0.41	0/1007	0.57	0/1371
3	MM	0.45	0/1007	0.64	1/1371 (0.1%)
3	MN	0.43	0/1007	0.55	0/1371
3	NA	0.44	0/1007	0.57	0/1371
3	NB	0.48	0/1007	0.62	0/1371
3	NC	0.45	0/1007	0.64	2/1371 (0.1%)
3	ND	0.43	0/1007	0.54	0/1371
3	NE	0.48	0/1007	0.67	0/1371
3	NF	0.45	0/1007	0.60	0/1371
3	NG	0.45	0/1007	0.56	0/1371
3	NH	0.45	0/1007	0.58	0/1371
3	NI	0.43	0/1007	0.56	0/1371
3	NJ	0.59	2/1007 (0.2%)	0.82	6/1371 (0.4%)
All	All	0.43	17/284406 (0.0%)	0.73	148/406716 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
3	BB	0	1
3	BD	0	1
3	BG	0	1
3	BH	0	1
3	BM	0	1
3	BN	0	1
3	CC	0	1
3	CH	0	1
3	CI	0	1
3	CJ	0	1
3	CK	0	1
3	CN	0	1
3	DC	0	1
3	DF	0	1
3	DI	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	DL	0	1
3	EB	0	1
3	EF	0	1
3	EI	0	1
3	EM	0	1
3	FC	0	1
3	FE	0	1
3	FG	0	1
3	FJ	0	1
3	FK	0	2
3	GD	0	1
3	GG	0	3
3	HA	0	1
3	HB	0	1
3	HE	0	1
3	HH	0	1
3	HK	0	1
3	HL	0	1
3	HN	0	1
3	IC	0	1
3	IE	0	1
3	IG	0	1
3	II	0	1
3	JA	0	1
3	JC	0	1
3	JF	0	1
3	JG	0	1
3	JK	0	1
3	JL	0	1
3	JM	0	1
3	JN	0	1
3	KB	0	1
3	KE	0	1
3	KH	0	2
3	KI	0	1
3	LI	0	1
3	LJ	0	1
3	LK	0	1
3	LL	0	1
3	MA	0	1
3	MB	0	1
3	ME	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	MF	0	1
3	MI	0	1
3	MK	0	1
3	ML	0	1
3	MM	0	1
3	NB	0	1
3	ND	0	1
3	NG	0	1
3	NH	0	1
3	NI	0	1
All	All	0	71

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	NJ	55	PRO	CG-CD	-10.72	1.15	1.50
3	LC	130	PRO	CG-CD	-9.12	1.20	1.50
3	IE	74	CYS	CB-SG	-9.02	1.67	1.82
3	DH	55	PRO	CG-CD	-7.64	1.25	1.50
3	MF	21	LEU	C-N	-7.22	1.17	1.34
3	HD	42	PRO	CG-CD	-6.24	1.30	1.50
3	HK	111	GLU	CG-CD	-6.12	1.42	1.51
3	EH	130	PRO	CG-CD	-5.53	1.32	1.50
3	BJ	21	LEU	C-N	-5.53	1.21	1.34
3	FB	21	LEU	C-N	-5.50	1.21	1.34
3	JJ	80	CYS	CB-SG	-5.33	1.73	1.81
3	LA	86	ARG	CG-CD	-5.32	1.38	1.51
3	NJ	55	PRO	N-CD	5.28	1.55	1.47
3	KA	80	CYS	CB-SG	-5.22	1.73	1.81
3	MF	86	ARG	CB-CG	-5.17	1.38	1.52
3	IC	21	LEU	C-N	-5.09	1.22	1.34
3	KF	99	TYR	CD1-CE1	-5.07	1.31	1.39

All (148) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	LC	130	PRO	N-CD-CG	-12.04	85.14	103.20
3	NJ	55	PRO	N-CD-CG	-11.92	85.32	103.20
3	DH	55	PRO	N-CD-CG	-10.86	86.91	103.20
3	NJ	128	LEU	CA-CB-CG	10.80	140.14	115.30
3	HD	42	PRO	CA-N-CD	-10.64	96.60	111.50
3	NJ	55	PRO	CA-N-CD	-10.34	97.02	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	DM	86	ARG	NE-CZ-NH2	-10.11	115.24	120.30
3	LK	128	LEU	CA-CB-CG	10.10	138.54	115.30
3	MF	86	ARG	NE-CZ-NH2	-9.88	115.36	120.30
3	MF	86	ARG	CG-CD-NE	-8.70	93.53	111.80
3	CC	86	ARG	NE-CZ-NH2	-8.56	116.02	120.30
3	EH	130	PRO	N-CD-CG	-8.54	90.39	103.20
3	CC	86	ARG	CG-CD-NE	-8.49	93.96	111.80
3	FC	80	CYS	CA-CB-SG	8.32	128.97	114.00
3	IJ	86	ARG	NE-CZ-NH2	-8.06	116.27	120.30
1	A	3723	C	N1-C2-O2	7.98	123.69	118.90
1	A	1649	C	N3-C2-O2	-7.84	116.41	121.90
1	A	1649	C	N1-C2-O2	7.80	123.58	118.90
3	LB	130	PRO	CA-N-CD	-7.79	100.59	111.50
3	BB	74	CYS	CA-CB-SG	7.76	127.97	114.00
1	A	223	C	N1-C2-O2	7.64	123.48	118.90
3	CD	42	PRO	CA-N-CD	-7.58	100.89	111.50
3	BH	13	LYS	CA-CB-CG	7.36	129.60	113.40
1	A	2266	U	C2-N1-C1'	7.31	126.47	117.70
3	JA	109	ARG	NE-CZ-NH1	-7.28	116.66	120.30
3	CJ	8	LEU	CB-CG-CD1	-7.18	98.80	111.00
1	A	864	C	C2-N1-C1'	7.06	126.57	118.80
3	LD	109	ARG	NE-CZ-NH1	-7.05	116.77	120.30
3	LA	86	ARG	NE-CZ-NH1	-6.93	116.83	120.30
3	KF	109	ARG	CG-CD-NE	-6.91	97.29	111.80
3	MF	105	ARG	CB-CG-CD	6.88	129.48	111.60
3	JA	109	ARG	NE-CZ-NH2	6.86	123.73	120.30
3	HD	42	PRO	N-CD-CG	-6.82	92.97	103.20
1	A	254	C	C2-N1-C1'	6.79	126.28	118.80
1	A	3206	C	N3-C2-O2	-6.78	117.16	121.90
3	DG	109	ARG	NE-CZ-NH2	-6.75	116.93	120.30
3	GF	42	PRO	CA-N-CD	-6.72	102.09	111.50
3	LM	80	CYS	CA-CB-SG	6.71	126.08	114.00
3	IM	80	CYS	CA-CB-SG	6.67	126.01	114.00
3	CB	13	LYS	CA-CB-CG	6.66	128.05	113.40
3	GN	86	ARG	NE-CZ-NH1	-6.61	117.00	120.30
3	KF	109	ARG	NE-CZ-NH2	-6.59	117.00	120.30
1	A	1301	U	C2-N1-C1'	6.56	125.57	117.70
3	NJ	55	PRO	CA-CB-CG	-6.53	91.60	104.00
1	A	1256	C	N1-C2-O2	6.52	122.81	118.90
1	A	4157	U	O5'-P-OP1	-6.51	99.84	105.70
3	LC	130	PRO	CA-N-CD	-6.49	102.41	111.50
1	A	3206	C	N1-C2-O2	6.42	122.75	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	DH	55	PRO	CA-N-CD	-6.42	102.52	111.50
3	IH	86	ARG	NE-CZ-NH1	-6.41	117.10	120.30
3	NC	24	ARG	CA-CB-CG	6.40	127.48	113.40
3	CC	82	PRO	CA-N-CD	-6.40	102.54	111.50
3	CG	55	PRO	CA-N-CD	-6.36	102.59	111.50
3	HI	74	CYS	CA-CB-SG	6.35	125.43	114.00
3	CF	125	ILE	CG1-CB-CG2	-6.28	97.58	111.40
3	LG	86	ARG	NE-CZ-NH2	-6.28	117.16	120.30
1	A	4135	C	C6-N1-C2	6.28	122.81	120.30
1	A	4141	G	N9-C4-C5	-6.24	102.91	105.40
1	A	4141	G	C6-C5-N7	-6.23	126.66	130.40
1	A	3284	C	N1-C2-O2	6.20	122.62	118.90
3	DM	86	ARG	NE-CZ-NH1	6.17	123.39	120.30
3	EH	130	PRO	CA-N-CD	-6.11	102.95	111.50
3	FK	24	ARG	NE-CZ-NH2	-6.10	117.25	120.30
3	KI	28	PRO	CA-N-CD	-6.10	102.96	111.50
1	A	223	C	N3-C2-O2	-6.09	117.64	121.90
3	LC	130	PRO	CA-CB-CG	-6.07	92.47	104.00
3	LG	82	PRO	CA-N-CD	-6.04	103.05	111.50
3	DG	13	LYS	CD-CE-NZ	-5.95	98.01	111.70
1	A	2452	C	N1-C2-O2	5.93	122.46	118.90
3	JN	109	ARG	NE-CZ-NH2	-5.92	117.34	120.30
1	A	2106	C	N1-C2-O2	5.92	122.45	118.90
1	A	4141	G	N1-C6-O6	5.89	123.43	119.90
3	JG	122	ILE	CG1-CB-CG2	-5.87	98.48	111.40
1	A	3316	C	N3-C2-O2	-5.85	117.80	121.90
3	MK	80	CYS	CA-CB-SG	5.83	124.49	114.00
3	KI	13	LYS	CD-CE-NZ	-5.77	98.43	111.70
3	GH	24	ARG	NE-CZ-NH2	-5.75	117.42	120.30
1	A	2919	C	N1-C2-O2	-5.70	115.48	118.90
1	A	864	C	C6-N1-C2	-5.68	118.03	120.30
3	MF	105	ARG	CG-CD-NE	-5.68	99.88	111.80
1	A	4141	G	C4-C5-N7	5.68	113.07	110.80
3	FF	8	LEU	CB-CG-CD1	-5.66	101.39	111.00
3	BN	80	CYS	CA-CB-SG	5.65	124.18	114.00
1	A	3723	C	C2-N1-C1'	5.65	125.02	118.80
3	KM	55	PRO	CA-N-CD	-5.63	103.62	111.50
3	BF	74	CYS	CA-CB-SG	5.61	124.10	114.00
3	D	119	PRO	N-CD-CG	-5.61	94.79	103.20
3	NJ	128	LEU	CB-CG-CD1	5.60	120.51	111.00
1	A	2106	C	N3-C2-O2	-5.59	117.99	121.90
3	EB	86	ARG	CG-CD-NE	-5.57	100.10	111.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	864	C	N1-C2-O2	5.56	122.24	118.90
3	D	119	PRO	CA-N-CD	-5.55	103.72	111.50
3	MC	130	PRO	CA-N-CD	-5.55	103.72	111.50
1	A	435	G	N7-C8-N9	5.55	115.87	113.10
1	A	1312	G	N3-C4-C5	5.53	131.37	128.60
3	JB	105	ARG	CG-CD-NE	5.51	123.38	111.80
3	CJ	105	ARG	CA-CB-CG	5.47	125.44	113.40
3	JB	86	ARG	CG-CD-NE	-5.47	100.31	111.80
1	A	1256	C	N3-C2-O2	-5.46	118.08	121.90
3	MM	13	LYS	CA-CB-CG	5.46	125.41	113.40
1	A	1010	C	C6-N1-C2	-5.46	118.12	120.30
1	A	1488	G	N3-C4-N9	-5.45	122.73	126.00
1	A	1832	U	C2-N1-C1'	-5.44	111.17	117.70
3	GJ	8	LEU	CB-CG-CD1	-5.44	101.75	111.00
1	A	3713	G	N3-C2-N2	5.44	123.71	119.90
3	IG	105	ARG	CB-CG-CD	-5.42	97.50	111.60
3	GM	109	ARG	NE-CZ-NH2	-5.41	117.59	120.30
3	LA	86	ARG	NH1-CZ-NH2	5.41	125.35	119.40
3	DH	55	PRO	CA-CB-CG	-5.41	93.73	104.00
1	A	2663	U	C2-N1-C1'	5.40	124.19	117.70
1	A	3265	C	C2-N1-C1'	5.37	124.70	118.80
1	A	1312	G	N3-C2-N2	-5.36	116.15	119.90
3	MA	86	ARG	NE-CZ-NH2	-5.35	117.63	120.30
3	ME	80	CYS	CA-CB-SG	5.35	123.62	114.00
3	FN	55	PRO	CA-N-CD	-5.33	104.04	111.50
3	BB	80	CYS	CA-CB-SG	5.32	123.57	114.00
3	GD	13	LYS	CD-CE-NZ	-5.30	99.51	111.70
3	JB	13	LYS	CA-CB-CG	5.29	125.03	113.40
1	A	864	C	N3-C2-O2	-5.28	118.20	121.90
1	A	2524	G	N3-C4-N9	-5.28	122.83	126.00
1	A	191	G	N3-C2-N2	5.26	123.58	119.90
1	A	2266	U	N1-C2-O2	5.25	126.47	122.80
3	IJ	86	ARG	CG-CD-NE	-5.24	100.80	111.80
3	BJ	13	LYS	CA-CB-CG	5.23	124.91	113.40
1	A	3723	C	N3-C2-O2	-5.20	118.26	121.90
1	A	1136	C	N1-C2-O2	5.17	122.00	118.90
3	JE	80	CYS	CA-CB-SG	5.17	123.30	114.00
1	A	2919	C	C6-N1-C1'	5.16	126.99	120.80
3	II	128	LEU	CB-CG-CD2	5.14	119.74	111.00
3	MF	13	LYS	CA-CB-CG	5.14	124.71	113.40
3	GC	96	PHE	CB-CG-CD1	-5.13	117.21	120.80
3	JE	105	ARG	CA-CB-CG	5.12	124.65	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	JJ	128	LEU	CB-CG-CD2	5.12	119.70	111.00
1	A	3930	C	C6-N1-C2	-5.11	118.25	120.30
3	JA	13	LYS	CA-CB-CG	5.10	124.62	113.40
3	EK	74	CYS	CA-CB-SG	5.10	123.18	114.00
3	NJ	128	LEU	CB-CG-CD2	-5.09	102.34	111.00
3	FN	55	PRO	N-CD-CG	-5.09	95.56	103.20
3	NC	74	CYS	CA-CB-SG	5.09	123.16	114.00
1	A	1312	G	N3-C4-N9	-5.09	122.95	126.00
3	JA	109	ARG	N-CA-CB	-5.07	101.48	110.60
1	A	3316	C	N1-C2-O2	5.06	121.94	118.90
1	A	435	G	C8-N9-C4	-5.05	104.38	106.40
1	A	4000	C	N3-C2-O2	-5.05	118.37	121.90
1	A	435	G	C6-C5-N7	-5.02	127.39	130.40
3	MF	105	ARG	CB-CA-C	5.02	120.43	110.40
1	A	2266	U	N3-C2-O2	-5.01	118.69	122.20
3	LA	86	ARG	NE-CZ-NH2	-5.00	117.80	120.30

There are no chirality outliers.

All (71) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	BB	79	SER	Peptide
3	BD	60	LYS	Peptide
3	BG	60	LYS	Peptide
3	BH	79	SER	Peptide
3	BM	60	LYS	Peptide
3	BN	79	SER	Peptide
3	CC	79	SER	Peptide
3	CH	60	LYS	Peptide
3	CI	79	SER	Peptide
3	CJ	60	LYS	Peptide
3	CK	60	LYS	Peptide
3	CN	60	LYS	Peptide
3	DC	60	LYS	Peptide
3	DF	60	LYS	Peptide
3	DI	60	LYS	Peptide
3	DL	60	LYS	Peptide
3	EB	79	SER	Peptide
3	EF	60	LYS	Peptide
3	EI	60	LYS	Peptide
3	EM	60	LYS	Peptide
3	FC	79	SER	Peptide

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Mol	Chain	Res	Type	Group
3	FE	60	LYS	Peptide
3	FG	60	LYS	Peptide
3	FJ	61	ASN	Peptide
3	FK	105	ARG	Peptide
3	FK	79	SER	Peptide
3	GD	60	LYS	Peptide
3	GG	58	ASN	Peptide
3	GG	59	ARG	Peptide
3	GG	60	LYS	Peptide
3	HA	60	LYS	Peptide
3	HB	60	LYS	Peptide
3	HE	60	LYS	Peptide
3	HH	60	LYS	Peptide
3	HK	60	LYS	Peptide
3	HL	79	SER	Peptide
3	HN	60	LYS	Peptide
3	IC	60	LYS	Peptide
3	IE	60	LYS	Peptide
3	IG	79	SER	Peptide
3	II	60	LYS	Peptide
3	JA	60	LYS	Peptide
3	JC	60	LYS	Peptide
3	JF	60	LYS	Peptide
3	JG	60	LYS	Peptide
3	JK	79	SER	Peptide
3	JL	60	LYS	Peptide
3	JM	60	LYS	Peptide
3	JN	79	SER	Peptide
3	KB	60	LYS	Peptide
3	KE	60	LYS	Peptide
3	KH	59	ARG	Peptide
3	KH	60	LYS	Peptide
3	KI	79	SER	Peptide
3	LI	60	LYS	Peptide
3	LJ	79	SER	Peptide
3	LK	60	LYS	Peptide
3	LL	60	LYS	Peptide
3	MA	60	LYS	Peptide
3	MB	97	THR	Peptide
3	ME	79	SER	Peptide
3	MF	60	LYS	Peptide
3	MI	60	LYS	Peptide

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Mol	Chain	Res	Type	Group
3	MK	79	SER	Peptide
3	ML	60	LYS	Peptide
3	MM	60	LYS	Peptide
3	NB	60	LYS	Peptide
3	ND	60	LYS	Peptide
3	NG	60	LYS	Peptide
3	NH	60	LYS	Peptide
3	NI	79	SER	Peptide

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	A	89319	0	45162	3454	0
2	M	3438	0	3381	140	0
3	B	993	0	1008	41	0
3	BA	993	0	1006	110	0
3	BB	993	0	1006	126	0
3	BC	993	0	1006	111	0
3	BD	993	0	1006	120	0
3	BE	993	0	1006	98	0
3	BF	993	0	1006	95	0
3	BG	993	0	1006	98	0
3	BH	993	0	1006	101	0
3	BI	993	0	1006	121	0
3	BJ	993	0	1006	101	0
3	BK	993	0	1006	116	0
3	BL	993	0	1006	97	0
3	BM	993	0	1006	87	0
3	BN	993	0	1006	102	0
3	CA	993	0	1006	101	0
3	CB	993	0	1006	134	0
3	CC	993	0	1006	118	0
3	CD	993	0	1006	97	0
3	CE	993	0	1006	105	0
3	CF	993	0	1006	112	0
3	CG	993	0	1006	100	0
3	CH	993	0	1006	112	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	CI	993	0	1006	112	0
3	CJ	993	0	1006	108	0
3	CK	993	0	1006	104	0
3	CL	993	0	1006	94	0
3	CM	993	0	1006	114	0
3	CN	993	0	1006	113	0
3	D	993	0	1008	38	0
3	DA	993	0	1006	104	0
3	DB	993	0	1006	122	0
3	DC	993	0	1006	106	0
3	DD	993	0	1006	114	0
3	DE	993	0	1006	131	0
3	DF	993	0	1006	128	0
3	DG	993	0	1006	132	0
3	DH	993	0	1006	100	0
3	DI	993	0	1006	101	0
3	DJ	993	0	1006	98	0
3	DK	993	0	1006	113	0
3	DL	993	0	1006	115	0
3	DM	993	0	1006	102	0
3	DN	993	0	1006	82	0
3	EA	993	0	1006	98	0
3	EB	993	0	1006	123	0
3	EC	993	0	1006	111	0
3	ED	993	0	1006	113	0
3	EE	993	0	1006	120	0
3	EF	993	0	1006	93	0
3	EG	993	0	1007	106	0
3	EH	993	0	1006	95	0
3	EI	993	0	1006	135	0
3	EJ	993	0	1006	158	0
3	EK	993	0	1006	104	0
3	EL	993	0	1006	128	0
3	EM	993	0	1006	95	0
3	EN	993	0	1006	98	0
3	FA	993	0	1006	105	0
3	FB	993	0	1006	101	0
3	FC	993	0	1006	81	0
3	FD	930	0	955	63	0
3	FE	993	0	1006	109	0
3	FF	993	0	1006	94	0
3	FG	993	0	1006	78	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	FH	993	0	1007	118	0
3	FI	993	0	1006	122	0
3	FJ	993	0	1006	132	0
3	FK	993	0	1006	128	0
3	FL	993	0	1006	88	0
3	FM	993	0	1006	110	0
3	FN	993	0	1006	116	0
3	GA	993	0	1006	117	0
3	GB	942	0	965	67	0
3	GC	993	0	1006	106	0
3	GD	993	0	1006	134	0
3	GE	993	0	1006	96	0
3	GF	993	0	1006	105	0
3	GG	993	0	1006	129	0
3	GH	993	0	1006	127	0
3	GI	993	0	1006	95	0
3	GJ	993	0	1006	134	0
3	GK	993	0	1006	120	0
3	GL	993	0	1006	115	0
3	GM	993	0	1006	129	0
3	GN	993	0	1006	118	0
3	HA	993	0	1006	91	0
3	HB	993	0	1006	116	0
3	HC	993	0	1006	123	0
3	HD	993	0	1006	98	0
3	HE	993	0	1006	109	0
3	HF	993	0	1006	107	0
3	HG	993	0	1006	101	0
3	HH	993	0	1006	109	0
3	HI	993	0	1006	119	0
3	HJ	993	0	1006	129	0
3	HK	993	0	1006	106	0
3	HL	993	0	1006	111	0
3	HM	993	0	1006	106	0
3	HN	993	0	1006	100	0
3	IA	993	0	1006	107	0
3	IB	993	0	1006	97	0
3	IC	993	0	1006	106	0
3	ID	993	0	1006	124	0
3	IE	993	0	1006	122	0
3	IF	993	0	1006	94	0
3	IG	993	0	1006	107	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	IH	993	0	1006	108	0
3	II	993	0	1006	132	0
3	IJ	993	0	1006	113	0
3	IK	993	0	1006	95	0
3	IL	993	0	1006	121	0
3	IM	993	0	1006	78	0
3	IN	993	0	1006	86	0
3	JA	993	0	1006	130	0
3	JB	993	0	1006	115	0
3	JC	993	0	1006	100	0
3	JD	993	0	1006	99	0
3	JE	993	0	1006	139	0
3	JF	993	0	1006	90	0
3	JG	993	0	1006	108	0
3	JH	993	0	1006	89	0
3	JI	993	0	1006	100	0
3	JJ	993	0	1006	117	0
3	JK	993	0	1006	113	0
3	JL	993	0	1006	90	0
3	JM	993	0	1006	100	0
3	JN	993	0	1006	98	0
3	KA	993	0	1006	92	0
3	KB	993	0	1006	114	0
3	KC	993	0	1006	117	0
3	KD	993	0	1006	75	0
3	KE	993	0	1007	115	0
3	KF	993	0	1006	120	0
3	KG	993	0	1006	87	0
3	KH	993	0	1006	130	0
3	KI	993	0	1006	106	0
3	KJ	993	0	1006	119	0
3	KK	993	0	1006	133	0
3	KL	993	0	1006	103	0
3	KM	993	0	1006	114	0
3	KN	993	0	1006	128	0
3	LA	993	0	1006	109	0
3	LB	993	0	1006	97	0
3	LC	993	0	1006	97	0
3	LD	993	0	1006	112	0
3	LE	993	0	1006	116	0
3	LF	993	0	1007	83	0
3	LG	993	0	1006	130	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	LH	993	0	1006	91	0
3	LI	993	0	1006	83	0
3	LJ	993	0	1006	93	0
3	LK	993	0	1006	107	0
3	LL	993	0	1006	112	0
3	LM	993	0	1006	102	0
3	LN	993	0	1006	115	0
3	MA	993	0	1006	143	0
3	MB	993	0	1006	116	0
3	MC	993	0	1006	117	0
3	MD	993	0	1006	110	0
3	ME	993	0	1006	103	0
3	MF	993	0	1005	121	0
3	MG	993	0	1006	125	0
3	MH	993	0	1006	114	0
3	MI	993	0	1005	136	0
3	MJ	993	0	1006	112	0
3	MK	993	0	1006	105	0
3	ML	993	0	1006	100	0
3	MM	993	0	1006	128	0
3	MN	993	0	1006	116	0
3	NA	993	0	1006	109	0
3	NB	993	0	1006	109	0
3	NC	993	0	1006	105	0
3	ND	993	0	1006	111	0
3	NE	993	0	1006	112	0
3	NF	993	0	1006	97	0
3	NG	993	0	1006	97	0
3	NH	993	0	1006	112	0
3	NI	993	0	1006	99	0
3	NJ	993	0	1006	136	0
All	All	271383	0	229537	16817	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 34.

All (16817) 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)
3:BF:8:LEU:HD11	3:IN:114:ALA:HB1	1.24	1.14
3:DM:103:GLU:OE2	3:EM:13:LYS:NZ	1.82	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:8:LEU:HD12	3:HM:114:ALA:HB1	1.25	1.11
3:GG:86:ARG:NH2	3:JE:99:TYR:O	1.83	1.11
3:JM:82:PRO:O	3:KA:99:TYR:OH	1.66	1.11
3:HE:101:THR:OG1	3:HE:104:GLU:OE1	1.68	1.11
3:BK:8:LEU:HD12	3:HK:114:ALA:HB1	1.24	1.10
3:NE:101:THR:OG1	3:NE:104:GLU:OE1	1.67	1.10
3:DJ:101:THR:OG1	3:DJ:104:GLU:OE1	1.69	1.10
3:MC:114:ALA:HB1	3:NJ:8:LEU:HD12	1.22	1.10
3:FF:51:SER:OG	3:FF:65:GLN:NE2	1.84	1.10
3:BG:86:ARG:NH2	3:IA:104:GLU:OE2	1.84	1.10
3:CB:103:GLU:OE1	3:HC:13:LYS:NZ	1.83	1.10
3:GJ:125:ILE:O	3:GN:105:ARG:NH1	1.85	1.09
3:MC:105:ARG:NH1	3:NJ:125:ILE:O	1.86	1.09
3:FB:101:THR:OG1	3:FB:104:GLU:OE1	1.68	1.09
1:A:983:C:N3	1:A:1026:U:O4	1.86	1.08
3:BC:13:LYS:HZ2	3:ND:106:ALA:HB3	1.10	1.08
3:LG:122:ILE:O	3:MG:109:ARG:NH2	1.87	1.08
3:JN:37:GLN:N	3:JN:45:GLU:OE2	1.86	1.08
1:A:2288:G:OP1	3:GJ:63:LYS:NZ	1.88	1.07
3:DN:103:GLU:OE1	3:ML:13:LYS:NZ	1.85	1.07
3:GN:37:GLN:N	3:GN:45:GLU:OE2	1.87	1.07
3:FN:109:ARG:NH1	3:HB:116:LEU:O	1.88	1.07
1:A:2350:G:N2	1:A:2365:C:O2	1.86	1.06
3:BD:125:ILE:HG23	3:JB:105:ARG:HE	0.96	1.06
3:JF:114:ALA:HB1	3:KA:8:LEU:HD22	1.34	1.06
3:IE:114:ALA:HB1	3:JL:8:LEU:HD12	1.16	1.06
1:A:1262:U:O2	1:A:1264:A:N6	1.89	1.06
1:A:3774:U:OP2	3:LH:29:THR:OG1	1.74	1.06
3:DM:14:ASP:OD2	3:DM:16:LYS:NZ	1.87	1.06
3:GL:113:ALA:HB2	3:HG:116:LEU:HD22	1.35	1.05
3:EA:91:ASP:OD1	3:LM:93:THR:OG1	1.73	1.05
3:ED:105:ARG:NH2	3:EH:126:ASP:O	1.90	1.05
3:KK:101:THR:OG1	3:KK:104:GLU:OE1	1.75	1.05
3:GD:125:ILE:O	3:KF:105:ARG:NH1	1.89	1.04
3:MN:101:THR:OG1	3:MN:104:GLU:OE1	1.72	1.04
1:A:3030:G:O6	1:A:3052:U:O2	1.76	1.03
3:CF:37:GLN:N	3:CF:45:GLU:OE2	1.89	1.03
3:BI:13:LYS:NZ	3:HM:103:GLU:O	1.91	1.03
3:GG:103:GLU:O	3:JE:13:LYS:NZ	1.92	1.03
3:JJ:101:THR:OG1	3:JJ:104:GLU:OE1	1.77	1.03
3:IJ:8:LEU:HD22	3:NE:114:ALA:HB1	1.35	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:101:THR:OG1	3:CB:104:GLU:OE1	1.73	1.03
3:DB:114:ALA:HB1	3:DK:8:LEU:HD12	1.36	1.03
3:EB:101:THR:OG1	3:EB:104:GLU:OE1	1.75	1.03
3:EI:52:VAL:HG12	3:EI:64:VAL:HG22	1.37	1.02
3:GK:92:VAL:HG22	3:JA:92:VAL:HG22	1.39	1.02
3:LL:13:LYS:NZ	3:MB:103:GLU:OE1	1.90	1.02
3:ED:113:ALA:HB2	3:EH:116:LEU:HD22	1.37	1.02
1:A:2379:U:OP2	1:A:2380:C:O2'	1.77	1.02
3:DC:101:THR:OG1	3:DC:104:GLU:OE1	1.76	1.02
3:GM:101:THR:OG1	3:GM:104:GLU:OE1	1.76	1.02
1:A:3541:G:N2	1:A:3549:C:O2	1.92	1.02
3:BC:91:ASP:OD1	3:ND:93:THR:OG1	1.76	1.02
1:A:1311:C:OP1	3:GM:59:ARG:NH2	1.91	1.01
1:A:2245:C:O2'	1:A:2247:A:N7	1.92	1.01
1:A:3310:U:OP1	3:LD:47:ARG:NH1	1.92	1.01
1:A:3609:G:O6	1:A:3645:U:C4	2.13	1.01
3:GI:13:LYS:NZ	3:JC:102:ASP:O	1.92	1.01
3:KC:129:ASN:OD1	3:LD:24:ARG:NH2	1.93	1.01
3:CC:87:GLN:OE1	3:CC:89:TYR:OH	1.78	1.01
3:CD:91:ASP:OD2	3:HA:93:THR:OG1	1.77	1.01
3:KM:92:VAL:HG22	3:MF:92:VAL:HG22	1.37	1.01
3:CH:101:THR:OG1	3:CH:104:GLU:OE1	1.78	1.00
3:GG:126:ASP:O	3:JE:105:ARG:NH1	1.94	1.00
3:BM:92:VAL:HG22	3:DJ:92:VAL:HG22	1.40	1.00
3:GF:93:THR:OG1	3:KD:91:ASP:OD2	1.78	1.00
3:JG:91:ASP:OD1	3:LD:93:THR:OG1	1.78	1.00
3:KE:101:THR:OG1	3:KE:104:GLU:OE1	1.77	1.00
3:CB:91:ASP:OD1	3:HC:93:THR:OG1	1.77	1.00
3:CE:8:LEU:HD21	3:CE:11:ILE:HD11	1.42	1.00
1:A:2417:A:O2'	1:A:4084:U:O2	1.80	0.99
1:A:2766:A:O2'	1:A:2767:U:O4'	1.79	0.99
3:BE:109:ARG:HH12	3:CE:122:ILE:HD13	1.25	0.99
3:EK:86:ARG:NH1	3:FM:99:TYR:O	1.94	0.99
3:CH:86:ARG:NH2	3:HL:99:TYR:O	1.94	0.99
3:DL:110:THR:HG21	3:MN:12:GLY:H	1.26	0.99
3:MF:79:SER:OG	3:MF:81:ASP:OD1	1.80	0.99
3:DL:104:GLU:OE2	3:MN:86:ARG:NH2	1.95	0.99
3:FC:77:ASN:ND2	3:GC:77:ASN:O	1.95	0.99
3:FB:111:GLU:HA	3:LJ:11:ILE:HD11	1.42	0.99
3:DG:92:VAL:HG22	3:EJ:92:VAL:HG22	1.41	0.99
3:GJ:99:TYR:O	3:GN:86:ARG:NH1	1.96	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2727:U:O2	1:A:2742:G:O6	1.80	0.99
3:KM:114:ALA:CB	3:MF:8:LEU:HD11	1.93	0.98
1:A:3792:U:O2	1:A:3809:G:O6	1.79	0.98
3:BK:37:GLN:N	3:BK:45:GLU:OE2	1.96	0.98
1:A:2470:C:O2'	1:A:2471:C:O5'	1.80	0.98
3:BM:86:ARG:NH1	3:DJ:99:TYR:O	1.95	0.98
3:LN:114:ALA:HB1	3:MI:8:LEU:HD12	1.44	0.98
3:CF:104:GLU:OE1	3:GM:86:ARG:NH2	1.97	0.98
3:HL:37:GLN:N	3:HL:45:GLU:OE2	1.97	0.98
3:KF:101:THR:OG1	3:KF:104:GLU:OE1	1.79	0.98
1:A:997:U:O2'	1:A:3198:U:OP1	1.82	0.98
3:JG:13:LYS:NZ	3:LD:103:GLU:OE1	1.97	0.98
1:A:761:G:O2'	1:A:762:C:OP1	1.82	0.98
3:GG:62:TYR:CD1	3:JE:128:LEU:HD23	1.99	0.98
3:KH:86:ARG:NH1	3:KL:99:TYR:O	1.95	0.98
1:A:3316:C:O2'	1:A:3317:U:O4'	1.81	0.98
1:A:1833:A:O2'	1:A:1834:A:O4'	1.82	0.97
3:DA:127:GLN:O	3:MN:24:ARG:NH2	1.98	0.97
3:FL:91:ASP:OD1	3:HD:93:THR:OG1	1.82	0.97
3:GL:52:VAL:HG12	3:GL:64:VAL:HG22	1.44	0.97
3:EG:102:ASP:OD2	3:GC:127:GLN:NE2	1.98	0.97
3:IG:103:GLU:O	3:JJ:13:LYS:NZ	1.97	0.97
3:IL:101:THR:OG1	3:IL:104:GLU:OE1	1.79	0.97
3:MC:105:ARG:NH1	3:NJ:128:LEU:HD12	1.80	0.97
1:A:3754:G:N2	1:A:3755:U:O4	1.96	0.97
3:EA:101:THR:OG1	3:EA:104:GLU:OE1	1.82	0.97
3:GK:103:GLU:OE1	3:JA:13:LYS:NZ	1.97	0.97
3:GJ:24:ARG:NH2	3:HG:127:GLN:O	1.98	0.97
3:MM:82:PRO:O	3:NA:99:TYR:OH	1.82	0.97
1:A:2633:G:O2'	3:GC:67:LYS:NZ	1.98	0.97
3:BE:101:THR:OG1	3:BE:104:GLU:OE1	1.79	0.97
3:CN:116:LEU:O	3:DD:109:ARG:NH2	1.97	0.97
3:KM:114:ALA:HB1	3:MF:8:LEU:HD11	1.47	0.97
3:BD:97:THR:O	3:BD:100:SER:OG	1.82	0.97
1:A:2488:U:O2'	1:A:2489:U:O4'	1.81	0.96
3:CJ:8:LEU:HD11	3:HJ:114:ALA:HB1	1.44	0.96
3:FB:113:ALA:HB2	3:LJ:116:LEU:HD22	1.43	0.96
1:A:191:G:O5'	3:NB:57:ARG:NH2	1.98	0.96
3:EK:60:LYS:NZ	3:EK:98:GLN:OE1	1.96	0.96
3:HI:56:SER:OG	3:HI:58:ASN:OD1	1.82	0.96
3:HI:63:LYS:NZ	3:HI:95:SER:OG	1.98	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1270:U:O2	1:A:1277:A:N6	1.96	0.96
3:CJ:91:ASP:OD1	3:HJ:93:THR:OG1	1.83	0.96
3:GK:77:ASN:O	3:GN:77:ASN:ND2	1.97	0.96
3:ME:56:SER:OG	3:ME:58:ASN:OD1	1.82	0.96
3:BD:125:ILE:HG23	3:JB:105:ARG:NE	1.78	0.96
1:A:1030:U:O2'	1:A:1032:G:N7	1.98	0.96
1:A:1064:A:N7	1:A:1216:C:N3	2.13	0.96
3:BL:91:ASP:OD1	3:CG:93:THR:OG1	1.82	0.96
3:BC:13:LYS:NZ	3:ND:102:ASP:O	1.99	0.96
3:CI:101:THR:OG1	3:CI:104:GLU:OE1	1.83	0.96
3:IG:105:ARG:NH1	3:JJ:126:ASP:O	1.98	0.96
1:A:1838:U:O2	3:GJ:57:ARG:NH2	1.98	0.96
1:A:3012:U:O4	1:A:3073:G:N2	1.98	0.95
1:A:3609:G:C6	1:A:3645:U:C4	2.53	0.95
3:GL:109:ARG:NH1	3:HG:126:ASP:OD2	1.99	0.95
3:FH:100:SER:OG	3:FH:105:ARG:NH1	1.99	0.95
3:GK:101:THR:HG23	3:JA:86:ARG:HH22	1.30	0.95
3:JI:56:SER:OG	3:JI:61:ASN:OD1	1.84	0.95
1:A:1064:A:N6	1:A:1216:C:O2	1.98	0.95
3:GD:82:PRO:O	3:GF:99:TYR:OH	1.82	0.95
3:GL:92:VAL:HG22	3:HG:92:VAL:HG22	1.49	0.95
3:JD:126:ASP:OD2	3:JH:109:ARG:NH2	1.99	0.95
3:IL:101:THR:HG22	3:IM:41:VAL:HG22	1.49	0.95
3:DM:65:GLN:NE2	3:DM:91:ASP:OD1	1.99	0.95
1:A:3572:U:O2	1:A:3915:A:N6	2.00	0.95
1:A:3592:A:N6	1:A:3659:C:N3	2.15	0.95
3:CJ:104:GLU:OE2	3:HJ:86:ARG:NH2	2.00	0.95
3:DM:24:ARG:NH2	3:MN:127:GLN:O	2.00	0.95
3:FM:46:LYS:NZ	3:FM:70:ASN:OD1	1.99	0.95
3:IH:114:ALA:HB1	3:NG:8:LEU:HD12	1.46	0.95
3:NE:57:ARG:O	3:NE:60:LYS:NZ	1.98	0.95
1:A:1285:G:O6	3:CG:57:ARG:NH2	2.00	0.95
1:A:2490:A:N7	1:A:2585:G:N2	2.14	0.95
1:A:2634:A:O2'	1:A:2635:A:O5'	1.84	0.95
3:KA:17:GLN:NE2	3:KA:18:THR:O	1.99	0.95
3:KH:85:THR:HG23	3:KH:86:ARG:HG3	1.49	0.95
1:A:1334:C:O2'	1:A:1335:A:OP1	1.83	0.95
3:CM:92:VAL:HG22	3:NA:92:VAL:HG22	1.48	0.95
3:CF:125:ILE:HG22	3:GM:109:ARG:NH2	1.81	0.95
3:GH:24:ARG:NH1	3:JE:129:ASN:OD1	1.99	0.95
3:EL:79:SER:OG	3:EL:81:ASP:OD1	1.82	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GH:99:TYR:O	3:KB:86:ARG:NH1	2.00	0.94
1:A:3758:U:OP2	3:FD:60:LYS:NZ	1.99	0.94
3:CC:101:THR:HG23	3:DF:86:ARG:HH22	1.32	0.94
3:FI:103:GLU:OE1	3:KE:13:LYS:NZ	1.99	0.94
3:GD:46:LYS:NZ	3:GD:70:ASN:OD1	2.00	0.94
1:A:2513:A:O3'	3:LI:89:TYR:OH	1.84	0.94
3:GJ:13:LYS:NZ	3:GN:102:ASP:OD2	1.99	0.94
3:KJ:13:LYS:NZ	3:LE:103:GLU:O	2.00	0.94
3:JD:102:ASP:O	3:JH:13:LYS:NZ	2.01	0.94
1:A:1691:G:N2	1:A:1740:U:O4	2.00	0.94
1:A:622:C:O2	1:A:644:G:N2	2.00	0.94
3:B:8:LEU:HD21	3:B:11:ILE:HD11	1.49	0.94
3:IG:56:SER:OG	3:IG:58:ASN:OD1	1.86	0.94
1:A:2040:U:O4	1:A:2119:A:N6	2.01	0.94
1:A:2393:A:O2'	3:FK:67:LYS:NZ	1.99	0.94
3:BF:92:VAL:HG22	3:IN:92:VAL:HG22	1.49	0.94
3:BK:13:LYS:NZ	3:HK:102:ASP:OD1	2.01	0.94
3:CJ:24:ARG:NE	3:CJ:36:SER:OG	1.98	0.94
3:GM:126:ASP:OD2	3:GM:127:GLN:NE2	2.01	0.94
3:KC:99:TYR:O	3:LC:86:ARG:NH1	2.00	0.94
3:KI:101:THR:OG1	3:KI:104:GLU:OE1	1.85	0.94
3:LL:106:ALA:N	3:MB:126:ASP:OD1	2.00	0.94
1:A:1339:U:O2	1:A:1350:A:N6	2.01	0.94
3:FN:119:PRO:HA	3:FN:122:ILE:HD12	1.47	0.94
3:IF:97:THR:OG1	3:NI:86:ARG:NH2	2.01	0.94
3:LL:109:ARG:NH1	3:MB:126:ASP:OD2	2.01	0.94
1:A:3684:U:O2	1:A:3756:G:N2	2.01	0.93
3:NB:132:TYR:O	3:NF:2:LYS:NZ	2.01	0.93
3:EC:52:VAL:HG12	3:EC:64:VAL:HG22	1.46	0.93
3:FB:101:THR:HG22	3:FC:41:VAL:HG22	1.50	0.93
3:FG:128:LEU:HD22	3:KG:62:TYR:CE2	2.04	0.93
3:DG:97:THR:HG23	3:EJ:86:ARG:CZ	1.99	0.93
3:JI:52:VAL:HG12	3:JI:64:VAL:HG22	1.51	0.93
1:A:1709:G:OP2	3:JM:59:ARG:NH2	2.00	0.93
3:CB:97:THR:OG1	3:HC:86:ARG:NH2	2.01	0.93
1:A:1312:G:OP2	3:GM:63:LYS:NZ	2.02	0.93
3:LE:14:ASP:OD2	3:LE:16:LYS:NZ	2.01	0.93
1:A:52:A:O2'	1:A:286:U:O2'	1.85	0.93
1:A:619:A:N6	1:A:647:A:N3	2.17	0.93
3:CL:24:ARG:NH1	3:NC:129:ASN:OD1	2.02	0.93
3:GJ:52:VAL:HG12	3:GJ:64:VAL:HG22	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2703:G:O2'	1:A:2704:A:O4'	1.87	0.93
1:A:3857:G:N7	1:A:3901:G:N2	2.15	0.93
3:BI:126:ASP:OD1	3:HM:109:ARG:NH1	2.01	0.93
1:A:497:A:O2'	1:A:500:A:N6	2.02	0.93
1:A:963:U:O2	1:A:1048:G:O6	1.87	0.93
1:A:2707:U:OP2	3:DD:89:TYR:OH	1.86	0.93
1:A:3833:U:O2'	3:LF:58:ASN:O	1.85	0.93
3:BJ:97:THR:OG1	3:BN:86:ARG:NH2	2.02	0.93
1:A:2639:C:OP1	3:EG:61:ASN:ND2	2.02	0.93
1:A:1217:A:OP1	3:HN:58:ASN:ND2	2.01	0.92
1:A:1371:G:O2'	3:GN:57:ARG:NH2	2.02	0.92
1:A:2616:G:O2'	1:A:2650:A:N6	2.02	0.92
1:A:2686:G:O6	1:A:2764:U:O2	1.87	0.92
3:HI:106:ALA:HB3	3:II:13:LYS:HZ2	1.34	0.92
3:LL:25:GLY:N	3:MI:129:ASN:OD1	2.02	0.92
1:A:68:A:O2'	1:A:320:A:N7	2.03	0.92
1:A:2238:G:N2	1:A:2253:G:N7	2.17	0.92
1:A:4130:G:OP1	3:FI:59:ARG:NH2	2.01	0.92
3:FH:125:ILE:O	3:FK:105:ARG:NH1	2.03	0.92
3:IB:93:THR:OG1	3:IK:91:ASP:OD1	1.86	0.92
3:LA:11:ILE:HD12	3:MD:110:THR:OG1	1.70	0.92
1:A:2292:A:O2'	1:A:2293:A:O4'	1.88	0.92
3:FF:86:ARG:NH2	3:LF:97:THR:OG1	2.03	0.92
3:GJ:68:ILE:HD11	3:GN:111:GLU:OE1	1.69	0.92
3:LN:45:GLU:O	3:LN:47:ARG:NH1	2.03	0.92
3:GD:126:ASP:OD1	3:KF:109:ARG:NH2	2.02	0.92
1:A:1128:A:O2'	1:A:1129:U:O4'	1.87	0.92
1:A:1341:A:N3	1:A:1755:A:N6	2.17	0.92
1:A:1887:A:O2'	1:A:1888:C:O4'	1.87	0.92
3:EC:62:TYR:CE1	3:LK:128:LEU:HD21	2.04	0.92
3:KH:114:ALA:HB3	3:KL:8:LEU:HD23	1.50	0.92
3:CN:46:LYS:NZ	3:CN:70:ASN:OD1	2.03	0.92
1:A:2320:U:O2'	1:A:2344:U:OP2	1.88	0.91
3:BI:92:VAL:HG22	3:HM:92:VAL:HG22	1.51	0.91
3:EE:125:ILE:O	3:LI:105:ARG:NH1	2.03	0.91
1:A:2438:C:O2'	1:A:2439:G:OP2	1.86	0.91
3:BB:24:ARG:NH2	3:MK:128:LEU:O	2.03	0.91
3:JG:46:LYS:NZ	3:JG:70:ASN:OD1	2.01	0.91
3:MF:24:ARG:NH2	3:MF:45:GLU:OE2	2.04	0.91
1:A:317:A:OP1	1:A:360:C:O2'	1.85	0.91
3:GL:111:GLU:OE2	3:HG:46:LYS:NZ	2.04	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2050:U:O2	1:A:2111:G:O6	1.89	0.91
3:EA:132:TYR:O	3:LM:2:LYS:NZ	2.03	0.91
3:EC:105:ARG:NE	3:LK:125:ILE:O	2.03	0.91
3:FI:126:ASP:OD2	3:FI:127:GLN:NE2	2.04	0.91
3:FJ:103:GLU:O	3:HF:13:LYS:NZ	2.03	0.91
3:HJ:14:ASP:OD2	3:HJ:16:LYS:NZ	2.03	0.91
3:KM:126:ASP:OD2	3:MF:109:ARG:NH1	2.03	0.91
3:DC:114:ALA:HB3	3:EN:8:LEU:HD11	1.53	0.91
3:DE:102:ASP:O	3:EL:13:LYS:NZ	2.04	0.91
3:IA:56:SER:OG	3:IA:58:ASN:OD1	1.89	0.91
3:IH:13:LYS:NZ	3:NG:103:GLU:OE1	2.04	0.91
3:JF:126:ASP:OD2	3:KA:109:ARG:NH1	2.02	0.91
3:HN:46:LYS:NZ	3:HN:70:ASN:OD1	2.04	0.91
3:JH:77:ASN:O	3:LD:77:ASN:ND2	2.04	0.91
1:A:903:C:OP2	3:II:60:LYS:NZ	2.03	0.91
1:A:3300:U:O2	1:A:3320:G:O6	1.87	0.91
3:EC:92:VAL:HG22	3:LK:92:VAL:HG22	1.51	0.91
1:A:4191:G:O2'	1:A:4193:A:N6	2.04	0.91
3:DG:97:THR:O	3:DG:100:SER:OG	1.87	0.91
3:EA:92:VAL:HG22	3:LM:92:VAL:HG22	1.53	0.91
3:BE:2:LYS:NZ	3:CE:132:TYR:OXT	2.02	0.91
3:CD:92:VAL:HG22	3:HA:92:VAL:HG22	1.52	0.91
3:DE:106:ALA:HB3	3:EL:13:LYS:HZ2	1.33	0.91
3:KE:101:THR:HG22	3:KF:41:VAL:HG22	1.51	0.91
3:KL:74:CYS:SG	3:KL:85:THR:OG1	2.29	0.91
1:A:2492:C:O2'	1:A:2493:U:O5'	1.89	0.90
3:EG:13:LYS:NZ	3:GC:102:ASP:OD1	2.03	0.90
1:A:1225:A:O2'	1:A:1226:A:O4'	1.88	0.90
1:A:2051:U:O2	1:A:2053:A:N6	2.04	0.90
3:DC:1:ALA:N	3:EN:123:ASP:OD2	2.05	0.90
3:BM:132:TYR:OXT	3:DJ:2:LYS:NZ	2.03	0.90
3:GI:13:LYS:HZ2	3:JC:106:ALA:HB3	1.32	0.90
3:KK:122:ILE:O	3:MH:109:ARG:NH2	2.03	0.90
1:A:3303:G:O2'	1:A:3304:A:O4'	1.89	0.90
1:A:4135:C:O2'	3:KE:59:ARG:NH2	2.05	0.90
3:HI:103:GLU:O	3:II:13:LYS:NZ	2.04	0.90
3:JK:77:ASN:ND2	3:LA:77:ASN:O	2.05	0.90
3:MC:126:ASP:OD2	3:NJ:109:ARG:NH2	2.04	0.90
3:GH:86:ARG:NH2	3:KB:99:TYR:O	2.03	0.90
1:A:1328:U:O4	1:A:1594:C:N3	2.04	0.90
3:BA:44:LEU:HD11	3:BC:98:GLN:O	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:106:ALA:HB3	3:ND:13:LYS:HZ2	1.34	0.90
3:BF:8:LEU:HD11	3:IN:114:ALA:CB	2.02	0.90
3:CA:116:LEU:HD22	3:DH:113:ALA:HB2	1.53	0.90
3:EI:125:ILE:HG22	3:GA:64:VAL:HG21	1.53	0.90
1:A:2633:G:O6	1:A:2637:U:O2	1.89	0.90
3:D:47:ARG:HD3	3:D:49:THR:HG23	1.53	0.90
3:BB:92:VAL:HG22	3:MA:92:VAL:HG22	1.52	0.90
3:BG:91:ASP:OD1	3:IA:93:THR:OG1	1.89	0.90
3:DA:92:VAL:HG22	3:MM:92:VAL:HG22	1.50	0.90
3:IC:122:ILE:HG22	3:JN:109:ARG:HH22	1.36	0.90
3:IK:37:GLN:OE1	3:IK:46:LYS:NZ	2.04	0.90
1:A:1416:C:OP2	3:GA:57:ARG:NH2	2.04	0.90
3:GH:121:LEU:O	3:GH:125:ILE:HG22	1.72	0.90
3:HN:13:LYS:NZ	3:ID:103:GLU:O	2.05	0.90
3:GD:126:ASP:O	3:KF:105:ARG:NH2	2.05	0.90
3:MA:98:GLN:OE1	3:MB:43:ALA:HB2	1.72	0.90
3:BB:99:TYR:O	3:MA:86:ARG:NH2	2.04	0.89
3:EK:121:LEU:O	3:FM:109:ARG:NH2	2.05	0.89
3:JJ:30:ASN:OD1	3:JJ:32:VAL:HG23	1.72	0.89
3:JK:86:ARG:NH1	3:KN:99:TYR:O	2.05	0.89
3:KM:104:GLU:OE2	3:MF:86:ARG:NH1	2.05	0.89
1:A:2641:U:OP1	3:EG:67:LYS:NZ	2.05	0.89
3:FL:46:LYS:NZ	3:FL:70:ASN:OD1	2.04	0.89
3:GF:37:GLN:NE2	3:GF:38:ALA:O	2.05	0.89
3:IJ:77:ASN:ND2	3:NF:77:ASN:O	2.04	0.89
3:MB:37:GLN:NE2	3:MB:38:ALA:O	2.06	0.89
1:A:3534:G:OP2	1:A:3535:A:N6	2.05	0.89
3:CC:119:PRO:HA	3:CC:122:ILE:HD12	1.54	0.89
3:EI:24:ARG:NH1	3:EI:36:SER:OG	2.05	0.89
3:GL:86:ARG:NH1	3:HG:99:TYR:O	2.06	0.89
3:NG:14:ASP:OD2	3:NG:16:LYS:NZ	2.04	0.89
1:A:100:A:N7	1:A:114:U:O2'	2.06	0.89
1:A:343:U:O2	1:A:424:G:N2	2.06	0.89
1:A:2280:U:O4	1:A:2306:A:N6	2.05	0.89
3:BM:126:ASP:OD1	3:DJ:109:ARG:NH2	2.06	0.89
3:CC:97:THR:O	3:CC:100:SER:OG	1.88	0.89
1:A:2248:G:OP1	3:HF:67:LYS:NZ	2.05	0.89
3:BG:122:ILE:HG22	3:IA:109:ARG:HH12	1.35	0.89
3:BJ:86:ARG:NH2	3:BN:97:THR:OG1	2.04	0.89
3:CH:12:GLY:H	3:HL:110:THR:HG21	1.35	0.89
3:DM:77:ASN:O	3:MN:77:ASN:ND2	2.04	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FD:109:ARG:HE	3:FD:110:THR:HG23	1.36	0.89
3:JD:102:ASP:OD1	3:JD:103:GLU:N	2.05	0.89
3:JK:114:ALA:HB3	3:KN:8:LEU:HD11	1.52	0.89
1:A:563:U:O2	1:A:604:G:O6	1.90	0.89
1:A:1967:G:OP2	3:IE:61:ASN:ND2	2.06	0.89
3:GD:116:LEU:HD22	3:KF:113:ALA:HB2	1.55	0.89
3:IC:46:LYS:NZ	3:IC:70:ASN:OD1	2.05	0.89
1:A:2380:C:N4	1:A:2404:C:O2	2.06	0.89
1:A:3934:G:O2'	1:A:3935:G:O5'	1.89	0.89
2:M:366:ARG:NH1	2:M:368:VAL:O	2.04	0.89
1:A:1133:U:O2	3:LN:59:ARG:NH1	2.06	0.89
3:MC:79:SER:OG	3:MC:81:ASP:OD1	1.91	0.89
1:A:3536:G:N2	1:A:3556:A:N6	2.21	0.89
1:A:4158:A:O2'	3:FG:30:ASN:OD1	1.90	0.89
3:BM:91:ASP:OD2	3:DJ:93:THR:OG1	1.91	0.89
1:A:1064:A:OP2	1:A:1216:C:N4	2.05	0.89
3:ME:92:VAL:HG22	3:NH:92:VAL:HG22	1.53	0.89
3:ND:79:SER:OG	3:ND:81:ASP:OD1	1.90	0.88
3:CJ:37:GLN:OE1	3:CJ:46:LYS:NZ	2.06	0.88
3:FI:86:ARG:NH1	3:KE:99:TYR:O	2.05	0.88
3:FL:87:GLN:OE1	3:FL:89:TYR:OH	1.90	0.88
3:JJ:65:GLN:OE1	3:JJ:93:THR:OG1	1.90	0.88
3:LN:37:GLN:N	3:LN:45:GLU:OE2	2.04	0.88
1:A:376:G:O2'	1:A:377:G:OP2	1.92	0.88
1:A:3341:G:O2'	1:A:3342:C:O4'	1.91	0.88
3:BE:126:ASP:OD2	3:CE:109:ARG:NH1	2.07	0.88
3:BH:132:TYR:OXT	3:IN:2:LYS:NZ	2.07	0.88
3:CG:6:VAL:HG12	3:CG:8:LEU:HD11	1.53	0.88
3:FB:5:THR:OG1	3:FB:22:ASN:OD1	1.91	0.88
3:GJ:128:LEU:HD12	3:GN:105:ARG:HH12	1.35	0.88
1:A:327:A:O2'	1:A:328:G:O5'	1.92	0.88
3:EJ:56:SER:N	3:EJ:59:ARG:O	2.05	0.88
3:FE:103:GLU:OE2	3:KI:13:LYS:NZ	2.06	0.88
3:FG:70:ASN:HD22	3:KG:108:VAL:HG22	1.35	0.88
3:CJ:92:VAL:HG22	3:HJ:92:VAL:HG22	1.54	0.88
3:JG:86:ARG:NH2	3:LD:104:GLU:OE2	2.05	0.88
3:JK:93:THR:OG1	3:KN:91:ASP:OD1	1.90	0.88
3:KN:82:PRO:O	3:LB:99:TYR:OH	1.90	0.88
3:BD:122:ILE:O	3:JB:105:ARG:NH2	2.07	0.88
3:ED:24:ARG:NH2	3:FA:127:GLN:O	2.07	0.88
3:FD:5:THR:OG1	3:FD:22:ASN:OD1	1.89	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LL:56:SER:OG	3:LL:58:ASN:OD1	1.90	0.88
3:CM:87:GLN:OE1	3:CM:89:TYR:OH	1.90	0.88
3:DA:93:THR:OG1	3:MM:91:ASP:OD2	1.90	0.88
3:KC:103:GLU:O	3:LC:13:LYS:NZ	2.07	0.88
3:KH:91:ASP:OD1	3:KL:93:THR:OG1	1.91	0.88
1:A:2879:G:OP2	1:A:2881:A:N6	2.06	0.88
3:DG:103:GLU:OE2	3:EJ:13:LYS:NZ	2.05	0.88
3:EI:8:LEU:HD12	3:GA:114:ALA:HB1	1.53	0.88
3:IF:102:ASP:OD2	3:NI:13:LYS:NZ	2.05	0.88
1:A:2245:C:OP2	3:HF:89:TYR:OH	1.92	0.88
3:GD:13:LYS:HE3	3:KF:106:ALA:HB3	1.54	0.88
3:HD:101:THR:OG1	3:HD:104:GLU:OE1	1.90	0.88
3:IF:12:GLY:H	3:NI:110:THR:HG21	1.38	0.88
3:JG:110:THR:OG1	3:LD:11:ILE:HD12	1.73	0.88
1:A:8:C:O2'	3:CH:58:ASN:OD1	1.92	0.88
3:LH:24:ARG:NH2	3:MG:128:LEU:O	2.06	0.88
3:CF:110:THR:HG21	3:GM:12:GLY:H	1.38	0.87
3:DC:46:LYS:NZ	3:DC:70:ASN:OD1	2.08	0.87
3:EF:8:LEU:HD11	3:FA:114:ALA:HB3	1.54	0.87
3:LE:37:GLN:NE2	3:LE:38:ALA:O	2.08	0.87
3:EA:13:LYS:NZ	3:LM:103:GLU:OE1	2.07	0.87
3:ME:105:ARG:NH2	3:MF:40:ALA:O	2.06	0.87
1:A:1784:C:O2'	1:A:1811:U:OP2	1.91	0.87
1:A:2160:A:O2'	1:A:2162:G:OP2	1.91	0.87
1:A:2515:U:OP1	3:EE:63:LYS:NZ	2.07	0.87
3:KK:19:LEU:HD21	3:KK:21:LEU:HD21	1.56	0.87
1:A:2325:C:O2	1:A:2345:G:N2	2.08	0.87
1:A:3350:G:OP2	3:MD:59:ARG:NH2	2.08	0.87
3:EK:125:ILE:HG22	3:FM:64:VAL:HG21	1.55	0.87
1:A:1345:U:O2'	1:A:1346:G:O4'	1.90	0.87
1:A:2421:G:OP2	1:A:2965:C:O2'	1.91	0.87
3:DL:110:THR:HG23	3:MN:11:ILE:HD12	1.54	0.87
1:A:1308:A:OP1	3:CF:59:ARG:NH2	2.07	0.87
1:A:2492:C:N4	1:A:2526:U:O2	2.07	0.87
1:A:4041:U:O2'	1:A:4042:A:O4'	1.93	0.87
3:BK:8:LEU:HD12	3:HK:114:ALA:CB	2.04	0.87
3:DB:126:ASP:O	3:DK:105:ARG:NH2	2.08	0.87
3:JF:102:ASP:OD1	3:KA:13:LYS:NZ	2.08	0.87
1:A:2706:U:O2	3:DC:57:ARG:NH1	2.08	0.87
1:A:3662:C:O2	3:FD:87:GLN:NE2	2.07	0.87
3:BI:121:LEU:O	3:HM:109:ARG:NH2	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:56:SER:OG	3:CL:58:ASN:OD1	1.93	0.87
3:DE:101:THR:OG1	3:DE:103:GLU:OE1	1.91	0.87
3:HH:27:ASN:OD1	3:HH:29:THR:OG1	1.93	0.87
1:A:3655:U:OP2	3:FC:57:ARG:NH1	2.08	0.87
3:GK:109:ARG:NH2	3:JA:126:ASP:OD2	2.08	0.87
3:GL:114:ALA:HB1	3:HG:8:LEU:HD12	1.57	0.87
3:LA:2:LYS:NZ	3:MD:132:TYR:O	2.08	0.87
3:LJ:48:VAL:HG22	3:LJ:68:ILE:HD13	1.55	0.87
1:A:996:U:O2'	1:A:3199:C:OP1	1.93	0.86
1:A:1010:C:O2'	3:IH:57:ARG:NE	2.08	0.86
1:A:2633:G:O6	1:A:2637:U:C2	2.28	0.86
3:EE:99:TYR:OH	3:EF:82:PRO:O	1.91	0.86
3:DG:13:LYS:HZ3	3:EJ:103:GLU:HA	1.38	0.86
3:EM:46:LYS:NZ	3:EM:70:ASN:OD1	2.07	0.86
3:FI:127:GLN:O	3:KF:24:ARG:NH2	2.08	0.86
3:HD:46:LYS:NZ	3:HD:70:ASN:OD1	2.06	0.86
1:A:1456:A:OP1	3:EL:27:ASN:ND2	2.09	0.86
3:FN:104:GLU:OE1	3:HB:70:ASN:ND2	2.07	0.86
1:A:984:G:O6	1:A:1025:U:O2	1.93	0.86
1:A:3540:U:OP2	3:GD:57:ARG:NE	2.08	0.86
1:A:3575:U:O2	1:A:3912:A:N6	2.09	0.86
3:MN:67:LYS:NZ	3:MN:91:ASP:OD2	2.06	0.86
1:A:1499:G:N3	3:BM:57:ARG:NH2	2.23	0.86
3:DE:8:LEU:HD11	3:EL:114:ALA:HB3	1.55	0.86
3:HE:46:LYS:NZ	3:HE:70:ASN:OD1	2.09	0.86
3:LJ:21:LEU:HD11	3:LJ:48:VAL:HG21	1.58	0.86
3:BK:24:ARG:NH1	3:BN:129:ASN:OD1	2.07	0.86
3:IA:32:VAL:HG22	3:IA:51:SER:HB3	1.58	0.86
3:LG:12:GLY:N	3:MG:110:THR:HG21	1.91	0.86
3:BI:105:ARG:NE	3:HM:128:LEU:HD11	1.90	0.86
3:CF:12:GLY:N	3:GM:110:THR:HG21	1.91	0.86
3:GK:24:ARG:NH2	3:GN:127:GLN:O	2.08	0.86
3:KM:100:SER:OG	3:KM:105:ARG:NH1	2.08	0.86
1:A:1781:A:OP2	3:BD:67:LYS:NZ	2.08	0.86
3:IH:103:GLU:OE1	3:NG:13:LYS:NZ	2.09	0.86
3:JJ:125:ILE:O	3:JJ:128:LEU:HD12	1.74	0.86
3:MC:105:ARG:CZ	3:NJ:128:LEU:HD12	2.05	0.86
1:A:3781:U:O2	1:A:3835:C:N4	2.09	0.86
3:B:102:ASP:OD1	3:B:105:ARG:NH2	2.07	0.86
3:BB:101:THR:HG23	3:MA:86:ARG:HH22	1.40	0.86
3:BG:111:GLU:OE1	3:IA:68:ILE:HG21	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:102:ASP:OD2	3:BM:103:GLU:N	2.09	0.86
1:A:3536:G:O2'	1:A:3537:U:O4'	1.94	0.85
3:CD:70:ASN:ND2	3:HA:104:GLU:OE2	2.09	0.85
3:FF:77:ASN:ND2	3:LG:77:ASN:O	2.08	0.85
3:IF:44:LEU:HD13	3:IH:98:GLN:OE1	1.76	0.85
3:JF:126:ASP:O	3:KA:105:ARG:NH1	2.08	0.85
3:LN:105:ARG:NE	3:MI:128:LEU:HD11	1.91	0.85
3:MH:11:ILE:HG22	3:MH:17:GLN:O	1.76	0.85
1:A:1021:G:OP2	3:NG:59:ARG:NH2	2.09	0.85
3:BK:115:LEU:HD11	3:HK:48:VAL:HG11	1.55	0.85
3:GE:109:ARG:NH2	3:HE:122:ILE:O	2.08	0.85
1:A:2990:U:OP2	1:A:3948:U:O2'	1.95	0.85
1:A:4202:G:OP2	2:M:383:ARG:NH1	2.07	0.85
3:CL:81:ASP:OD1	3:NC:86:ARG:NH1	2.09	0.85
3:EH:109:ARG:HE	3:EH:110:THR:HG23	1.39	0.85
3:MB:74:CYS:SG	3:MB:85:THR:OG1	2.32	0.85
3:IB:129:ASN:OD1	3:II:25:GLY:N	2.09	0.85
3:IJ:86:ARG:NH2	3:NE:97:THR:OG1	2.10	0.85
1:A:1294:U:OP1	3:BL:67:LYS:NZ	2.10	0.85
3:BD:132:TYR:CE2	3:JB:26:VAL:HG11	2.12	0.85
3:FH:126:ASP:O	3:FK:105:ARG:NH1	2.10	0.85
1:A:2434:A:N6	1:A:2792:U:O2	2.09	0.85
3:CJ:8:LEU:HD11	3:HJ:114:ALA:CB	2.05	0.85
3:DL:24:ARG:NH1	3:ML:129:ASN:OD1	2.09	0.85
3:FF:8:LEU:HD11	3:LF:114:ALA:CB	2.06	0.85
3:GI:92:VAL:HG22	3:JC:92:VAL:HG22	1.57	0.85
3:LA:56:SER:OG	3:LA:58:ASN:OD1	1.94	0.85
3:LN:127:GLN:O	3:MG:24:ARG:NH1	2.08	0.85
1:A:3478:A:N6	1:A:3503:U:O4	2.10	0.85
1:A:3536:G:C2	1:A:3556:A:N6	2.44	0.85
3:FB:24:ARG:NH2	3:LH:127:GLN:O	2.08	0.85
3:FD:92:VAL:HG22	3:LH:92:VAL:HG22	1.57	0.85
3:NB:128:LEU:HD21	3:NF:62:TYR:CD2	2.12	0.85
1:A:946:U:O2'	1:A:1236:C:O3'	1.93	0.85
1:A:3605:U:O4	3:FB:57:ARG:NH2	2.09	0.85
1:A:3634:A:OP1	3:ED:59:ARG:NH2	2.10	0.85
3:CK:92:VAL:HG22	3:NC:92:VAL:HG22	1.58	0.85
3:FG:65:GLN:OE1	3:FG:93:THR:OG1	1.93	0.85
3:FN:87:GLN:OE1	3:FN:89:TYR:OH	1.95	0.85
1:A:4130:G:O2'	1:A:4147:U:O4	1.93	0.85
1:A:4191:G:N2	1:A:4193:A:C8	2.44	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:8:LEU:HD11	3:MK:114:ALA:HB3	1.59	0.85
3:DK:121:LEU:O	3:DK:125:ILE:HG22	1.77	0.85
3:FG:24:ARG:NH2	3:FG:45:GLU:OE2	2.10	0.85
3:GG:17:GLN:N	3:GG:17:GLN:OE1	2.10	0.85
1:A:2184:C:O2'	1:A:2189:C:OP2	1.94	0.85
1:A:3723:C:O4'	3:ML:63:LYS:NZ	2.10	0.85
3:IH:105:ARG:NE	3:NG:128:LEU:HD11	1.92	0.85
3:JI:103:GLU:OE1	3:LB:13:LYS:NZ	2.10	0.85
3:KM:102:ASP:OD1	3:KM:105:ARG:NH2	2.09	0.85
3:FK:11:ILE:HD11	3:FK:19:LEU:HD23	1.58	0.84
3:GE:91:ASP:OD2	3:HE:93:THR:OG1	1.93	0.84
3:GJ:114:ALA:HB3	3:GN:8:LEU:HD11	1.58	0.84
3:NB:72:THR:OG1	3:NF:104:GLU:OE1	1.95	0.84
1:A:870:C:OP2	1:A:956:A:O2'	1.95	0.84
1:A:902:G:OP1	3:II:60:LYS:NZ	2.10	0.84
1:A:2923:G:O2'	1:A:2924:A:OP1	1.94	0.84
3:DA:110:THR:OG1	3:MM:11:ILE:HD12	1.77	0.84
3:DG:103:GLU:HA	3:EJ:13:LYS:HZ1	1.41	0.84
3:BL:86:ARG:NH1	3:CG:99:TYR:O	2.10	0.84
3:CC:14:ASP:OD2	3:CC:16:LYS:NZ	2.10	0.84
3:DA:123:ASP:OD1	3:MM:1:ALA:N	2.09	0.84
3:EF:114:ALA:CB	3:FA:8:LEU:HD11	2.06	0.84
1:A:2996:C:O2	1:A:3393:G:N2	2.09	0.84
3:CF:86:ARG:NH1	3:GN:81:ASP:OD2	2.10	0.84
3:ED:86:ARG:NH1	3:EH:97:THR:OG1	2.09	0.84
3:EI:131:ALA:HB1	3:GA:3:LEU:HD21	1.59	0.84
1:A:8:C:OP2	3:CH:63:LYS:NZ	2.10	0.84
3:BH:81:ASP:OD1	3:IA:86:ARG:NH1	2.09	0.84
3:JC:52:VAL:HG12	3:JC:64:VAL:HG22	1.60	0.84
3:JJ:3:LEU:HD21	3:JJ:33:ALA:HB1	1.57	0.84
3:LG:103:GLU:O	3:MG:13:LYS:NZ	2.10	0.84
3:CB:126:ASP:OD2	3:HC:109:ARG:NH2	2.11	0.84
3:EB:2:LYS:NZ	3:MJ:132:TYR:O	2.10	0.84
3:EE:17:GLN:NE2	3:EE:18:THR:O	2.10	0.84
3:FE:8:LEU:HD11	3:KI:114:ALA:HB3	1.59	0.84
3:GG:86:ARG:NH1	3:JE:104:GLU:OE2	2.09	0.84
3:MI:57:ARG:O	3:MI:59:ARG:NH1	2.10	0.84
1:A:1172:U:O4	3:NJ:57:ARG:NH1	2.11	0.84
1:A:1827:A:O2'	3:GK:59:ARG:NH2	2.11	0.84
1:A:1968:G:OP2	3:IE:59:ARG:NH2	2.10	0.84
3:BE:103:GLU:OE2	3:CE:13:LYS:NZ	2.09	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:47:ARG:NH1	3:BM:69:GLN:OE1	2.11	0.84
3:CF:100:SER:OG	3:CF:105:ARG:NH1	2.10	0.84
3:DL:116:LEU:HD22	3:MN:113:ALA:HB2	1.59	0.84
3:EE:60:LYS:O	3:EE:61:ASN:ND2	2.10	0.84
3:FH:15:GLY:O	3:FH:16:LYS:NZ	2.09	0.84
3:NF:56:SER:OG	3:NF:58:ASN:OD1	1.94	0.84
3:EE:105:ARG:NH2	3:LI:126:ASP:O	2.09	0.84
3:FF:70:ASN:OD1	3:FF:88:ALA:HB3	1.77	0.84
3:GG:132:TYR:CE1	3:JE:26:VAL:HG11	2.13	0.84
3:MB:2:LYS:NZ	3:MC:4:GLU:OE1	2.10	0.84
3:CD:93:THR:OG1	3:HA:91:ASP:OD1	1.95	0.84
3:FD:24:ARG:NH1	3:GB:129:ASN:OD1	2.10	0.84
3:FF:26:VAL:O	3:KG:132:TYR:OH	1.95	0.84
3:FL:125:ILE:HD11	3:HD:64:VAL:HG11	1.59	0.84
3:IF:103:GLU:OE2	3:NI:13:LYS:NZ	2.10	0.84
3:JJ:99:TYR:OH	3:JK:84:VAL:HG22	1.77	0.84
1:A:96:C:O2	1:A:153:A:N6	2.11	0.84
1:A:3418:U:O2'	1:A:3419:U:O5'	1.95	0.84
3:CF:101:THR:HG23	3:GM:86:ARG:HH22	1.43	0.84
3:FG:92:VAL:HG22	3:KG:92:VAL:HG22	1.60	0.84
3:HI:2:LYS:NZ	3:II:132:TYR:O	2.10	0.84
3:IH:102:ASP:OD1	3:IH:103:GLU:N	2.11	0.84
3:LN:103:GLU:O	3:MI:13:LYS:NZ	2.11	0.84
1:A:3924:U:O2'	3:KG:63:LYS:NZ	2.11	0.83
2:M:81:THR:OG1	2:M:383:ARG:NH2	2.11	0.83
3:BH:34:SER:O	3:BH:35:LEU:HD23	1.78	0.83
3:DM:109:ARG:NH1	3:EM:122:ILE:HG22	1.93	0.83
3:EG:115:LEU:HD23	3:GC:8:LEU:HD21	1.58	0.83
3:KI:51:SER:OG	3:KI:65:GLN:NE2	2.11	0.83
1:A:3544:G:OP2	3:KF:89:TYR:OH	1.95	0.83
3:BE:103:GLU:O	3:CE:13:LYS:NZ	2.12	0.83
3:FB:99:TYR:OH	3:FC:82:PRO:O	1.94	0.83
1:A:1961:U:OP2	3:JK:57:ARG:NH2	2.11	0.83
3:BJ:48:VAL:HG22	3:BJ:68:ILE:CD1	2.09	0.83
3:DB:52:VAL:HG12	3:DB:64:VAL:HG22	1.60	0.83
3:ED:116:LEU:HD22	3:EH:113:ALA:HB2	1.58	0.83
3:JD:110:THR:OG1	3:JH:11:ILE:HD12	1.77	0.83
1:A:2377:A:O2'	1:A:2378:C:OP2	1.95	0.83
1:A:2390:A:OP2	3:FH:59:ARG:NH2	2.11	0.83
1:A:2871:G:O6	1:A:2886:U:O2	1.95	0.83
3:DH:79:SER:OG	3:DH:81:ASP:OD1	1.96	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FB:105:ARG:NH2	3:LJ:126:ASP:O	2.11	0.83
3:IJ:2:LYS:NZ	3:NE:132:TYR:O	2.10	0.83
3:LA:122:ILE:O	3:MD:109:ARG:NH2	2.11	0.83
3:MG:4:GLU:N	3:MG:4:GLU:OE1	2.11	0.83
1:A:2290:C:N4	1:A:2294:A:OP2	2.12	0.83
1:A:3881:C:O2'	1:A:3882:U:O4'	1.95	0.83
3:BK:116:LEU:HD21	3:HK:112:LEU:HD22	1.59	0.83
3:ED:23:PRO:O	3:ED:24:ARG:NH1	2.12	0.83
3:EI:101:THR:OG1	3:EI:103:GLU:OE1	1.95	0.83
3:FI:105:ARG:NH1	3:KE:125:ILE:O	2.11	0.83
3:IJ:92:VAL:HG22	3:NE:92:VAL:HG22	1.61	0.83
3:KD:3:LEU:HD12	3:KD:35:LEU:HD21	1.59	0.83
3:BL:92:VAL:HG22	3:CG:92:VAL:HG22	1.61	0.83
3:EN:27:ASN:OD1	3:EN:29:THR:OG1	1.96	0.83
3:GH:116:LEU:HD21	3:KB:112:LEU:HD22	1.60	0.83
1:A:2051:U:O2'	1:A:2053:A:N1	2.11	0.83
1:A:2680:U:OP1	3:DE:59:ARG:NH2	2.11	0.83
3:GD:13:LYS:CE	3:KF:106:ALA:HB3	2.08	0.83
3:GE:127:GLN:O	3:HF:24:ARG:NH2	2.11	0.83
3:JD:13:LYS:NZ	3:JH:102:ASP:OD2	2.11	0.83
3:JD:56:SER:OG	3:JD:58:ASN:OD1	1.97	0.83
1:A:65:C:N4	1:A:364:G:OP1	2.12	0.83
1:A:409:C:N4	1:A:411:G:O6	2.11	0.83
1:A:2016:U:O2'	1:A:2017:U:O4'	1.96	0.83
1:A:2558:U:O2	3:DN:60:LYS:NZ	2.12	0.83
3:NC:68:ILE:CG2	3:NC:90:ALA:HB3	2.07	0.83
2:M:67:ARG:NH2	2:M:82:THR:O	2.10	0.83
3:CE:8:LEU:CD2	3:CE:11:ILE:HD11	2.09	0.83
3:DM:97:THR:HG23	3:EM:86:ARG:CZ	2.09	0.83
1:A:1493:C:OP2	3:BJ:63:LYS:NZ	2.11	0.83
3:BD:111:GLU:OE2	3:JB:68:ILE:HG21	1.79	0.83
3:BI:125:ILE:HG22	3:HM:64:VAL:HG21	1.60	0.83
3:EF:114:ALA:HB3	3:FA:8:LEU:HD11	1.61	0.83
3:GH:56:SER:OG	3:GH:58:ASN:OD1	1.97	0.83
3:ID:11:ILE:HG22	3:ID:17:GLN:O	1.78	0.83
1:A:291:C:O2'	1:A:292:C:OP1	1.97	0.82
1:A:366:U:O2'	1:A:816:U:O2'	1.97	0.82
1:A:933:C:O3'	3:BI:59:ARG:NH1	2.11	0.82
3:BH:62:TYR:HD1	3:IL:128:LEU:HD22	1.41	0.82
3:GL:62:TYR:OH	3:GL:98:GLN:NE2	2.12	0.82
3:JG:82:PRO:O	3:JI:99:TYR:OH	1.97	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LA:115:LEU:HD22	3:MD:8:LEU:HD11	1.60	0.82
1:A:1779:A:OP1	3:BF:60:LYS:NZ	2.12	0.82
3:CC:86:ARG:NH2	3:DF:99:TYR:HB2	1.94	0.82
3:FI:92:VAL:HG22	3:KE:92:VAL:HG22	1.59	0.82
3:IE:102:ASP:OD1	3:JL:13:LYS:NZ	2.12	0.82
3:CD:99:TYR:O	3:HA:86:ARG:NH1	2.13	0.82
3:FN:100:SER:OG	3:FN:105:ARG:NH1	2.12	0.82
3:GJ:54:GLN:N	3:GJ:54:GLN:OE1	2.12	0.82
3:JG:60:LYS:HB3	3:JG:61:ASN:ND2	1.94	0.82
3:MC:111:GLU:OE1	3:NJ:68:ILE:HD13	1.78	0.82
3:MH:97:THR:OG1	3:MH:98:GLN:OE1	1.95	0.82
3:BH:26:VAL:O	3:HM:132:TYR:OH	1.96	0.82
3:EE:8:LEU:CD1	3:LI:114:ALA:HB3	2.09	0.82
3:ID:81:ASP:OD2	3:JN:86:ARG:NH1	2.13	0.82
3:NE:102:ASP:OD1	3:NE:103:GLU:N	2.12	0.82
1:A:3580:U:O2	1:A:3843:A:N6	2.13	0.82
3:BI:120:LEU:HD11	3:HM:6:VAL:HG21	1.62	0.82
3:FE:82:PRO:O	3:FG:99:TYR:OH	1.95	0.82
1:A:3412:U:O4	1:A:3456:C:N3	2.12	0.82
3:GM:102:ASP:OD1	3:GM:103:GLU:N	2.12	0.82
3:II:101:THR:OG1	3:II:104:GLU:OE1	1.97	0.82
1:A:3244:U:O5’	3:KK:57:ARG:NE	2.13	0.82
1:A:4058:C:O2’	1:A:4059:C:O5’	1.98	0.82
3:BF:56:SER:OG	3:BF:59:ARG:NE	2.12	0.82
3:EI:23:PRO:HA	3:EI:35:LEU:HD23	1.62	0.82
1:A:1740:U:O2	3:BF:57:ARG:NH2	2.12	0.82
3:BE:8:LEU:HD12	3:CE:114:ALA:HB3	1.62	0.82
3:EI:127:GLN:O	3:FM:24:ARG:NH2	2.13	0.82
3:GK:11:ILE:HD12	3:JA:110:THR:OG1	1.80	0.82
3:IE:8:LEU:CD2	3:JL:115:LEU:HD22	2.09	0.82
1:A:1435:A:O4’	3:FM:89:TYR:OH	1.98	0.82
1:A:1479:G:N2	1:A:1516:G:O6	2.13	0.82
3:BH:65:GLN:NE2	3:BH:91:ASP:OD1	2.13	0.82
3:DL:122:ILE:HD12	3:MN:109:ARG:CZ	2.09	0.82
3:EE:126:ASP:O	3:LI:105:ARG:NH2	2.11	0.82
3:HN:86:ARG:NH1	3:IE:81:ASP:OD1	2.13	0.82
3:KF:126:ASP:OD2	3:KF:127:GLN:NE2	2.13	0.82
3:MC:68:ILE:CG2	3:MC:90:ALA:HB3	2.09	0.82
1:A:1313:U:O2’	1:A:1316:A:N1	2.12	0.82
1:A:2656:A:O2’	1:A:2657:A:O5’	1.98	0.82
3:DL:24:ARG:NH1	3:ML:127:GLN:O	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FI:100:SER:OG	3:FI:104:GLU:OE1	1.97	0.82
3:LA:11:ILE:HG22	3:LA:17:GLN:O	1.80	0.82
1:A:498:G:O2'	3:HK:69:GLN:NE2	2.13	0.81
3:BM:93:THR:OG1	3:DJ:91:ASP:OD1	1.97	0.81
3:CN:132:TYR:HE1	3:DD:26:VAL:HG21	1.43	0.81
3:EB:116:LEU:HD12	3:MJ:112:LEU:HD22	1.60	0.81
3:EE:11:ILE:HG23	3:LI:110:THR:OG1	1.81	0.81
3:JK:26:VAL:HG11	3:KN:132:TYR:CE1	2.14	0.81
3:LF:98:GLN:N	3:LF:98:GLN:OE1	2.11	0.81
1:A:2289:A:OP1	3:GJ:59:ARG:NH2	2.13	0.81
1:A:3412:U:O4	1:A:3456:C:C4	2.32	0.81
3:BH:99:TYR:O	3:IL:86:ARG:NH1	2.12	0.81
3:FM:27:ASN:OD1	3:FM:29:THR:OG1	1.98	0.81
1:A:1259:C:O2	1:A:1287:U:N3	2.14	0.81
1:A:2351:C:O2'	1:A:2353:U:OP2	1.99	0.81
3:EC:132:TYR:OH	3:LJ:26:VAL:O	1.97	0.81
3:EF:11:ILE:HD12	3:FA:110:THR:HB	1.61	0.81
3:GG:13:LYS:HZ2	3:JE:106:ALA:HB3	1.45	0.81
3:GH:86:ARG:HH12	3:KB:101:THR:HG23	1.44	0.81
3:HI:106:ALA:HB2	3:II:126:ASP:OD1	1.80	0.81
3:IE:102:ASP:OD1	3:IE:103:GLU:N	2.12	0.81
3:BL:125:ILE:CD1	3:CG:64:VAL:HG11	2.11	0.81
3:LN:106:ALA:HB3	3:MI:13:LYS:HZ2	1.44	0.81
3:ME:128:LEU:O	3:ME:128:LEU:HD23	1.80	0.81
3:EI:37:GLN:NE2	3:EI:38:ALA:O	2.13	0.81
3:EI:45:GLU:OE2	3:EI:47:ARG:NH1	2.14	0.81
3:EL:17:GLN:N	3:EL:17:GLN:OE1	2.14	0.81
3:DG:115:LEU:O	3:DG:121:LEU:HD12	1.81	0.81
3:DL:110:THR:HG21	3:MN:12:GLY:N	1.94	0.81
1:A:234:C:O2'	3:NI:57:ARG:NH2	2.14	0.81
1:A:594:C:O2'	1:A:2855:U:OP1	1.97	0.81
3:BC:3:LEU:HD13	3:BC:23:PRO:HB3	1.61	0.81
3:FG:24:ARG:NH1	3:LF:128:LEU:O	2.14	0.81
3:KH:11:ILE:HD12	3:KL:110:THR:OG1	1.78	0.81
3:MG:11:ILE:HG22	3:MG:17:GLN:O	1.80	0.81
1:A:1909:U:HO2'	1:A:2006:U:H3	1.28	0.81
1:A:3468:G:H22	3:KI:57:ARG:CZ	1.92	0.81
1:A:4197:G:O6	2:M:69:THR:OG1	1.98	0.81
3:BC:13:LYS:HZ2	3:ND:106:ALA:CB	1.93	0.81
3:CH:13:LYS:NZ	3:HL:102:ASP:OD2	2.14	0.81
1:A:868:C:N4	1:A:958:G:O6	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LI:102:ASP:OD1	3:LI:103:GLU:N	2.14	0.81
3:ME:109:ARG:NH1	3:NH:122:ILE:HD12	1.96	0.81
1:A:95:C:N4	1:A:154:U:O4	2.14	0.81
1:A:262:C:OP1	1:A:312:U:O2'	1.97	0.81
1:A:1416:C:O2	1:A:1435:A:N6	2.13	0.81
1:A:3991:G:O2'	1:A:3992:G:O5'	1.99	0.81
3:CL:126:ASP:O	3:HH:105:ARG:NH1	2.12	0.81
3:DE:3:LEU:HD21	3:EL:131:ALA:HB1	1.62	0.81
3:EK:26:VAL:HG11	3:FM:132:TYR:CE2	2.14	0.81
3:KN:65:GLN:OE1	3:KN:93:THR:OG1	1.99	0.81
3:LG:128:LEU:HD21	3:MG:62:TYR:CD2	2.14	0.81
1:A:632:A:OP1	3:CJ:61:ASN:ND2	2.13	0.80
1:A:1063:C:N4	1:A:1216:C:OP2	2.12	0.80
1:A:2555:A:O2'	1:A:2556:A:O4'	1.98	0.80
1:A:2606:U:OP2	3:EI:63:LYS:NZ	2.13	0.80
3:DL:101:THR:HG23	3:MN:86:ARG:HH22	1.46	0.80
3:DM:65:GLN:NE2	3:DM:92:VAL:O	2.14	0.80
3:EB:32:VAL:HG22	3:EB:51:SER:HB3	1.61	0.80
3:FL:3:LEU:HD21	3:FL:33:ALA:HB1	1.63	0.80
3:HD:100:SER:OG	3:HD:105:ARG:NH1	2.14	0.80
3:NA:11:ILE:HG22	3:NA:17:GLN:O	1.80	0.80
1:A:369:C:O2'	1:A:818:U:O2'	2.00	0.80
3:CI:26:VAL:HG12	3:HL:132:TYR:CE2	2.15	0.80
3:DB:102:ASP:OD2	3:DB:105:ARG:NH2	2.14	0.80
3:FN:56:SER:OG	3:FN:59:ARG:NH1	2.15	0.80
3:JH:24:ARG:NH2	3:LD:127:GLN:O	2.14	0.80
3:KG:3:LEU:CD1	3:KG:35:LEU:HD11	2.11	0.80
1:A:369:C:HO2'	1:A:818:U:HO2'	1.28	0.80
3:BC:109:ARG:NH2	3:ND:126:ASP:OD2	2.15	0.80
3:JK:114:ALA:CB	3:KN:8:LEU:HD11	2.11	0.80
3:NB:132:TYR:HE1	3:NF:26:VAL:HG11	1.46	0.80
1:A:534:A:O4'	3:CI:89:TYR:OH	1.98	0.80
3:CF:123:ASP:OD2	3:GM:1:ALA:N	2.13	0.80
3:EC:3:LEU:HD21	3:LK:131:ALA:HB1	1.61	0.80
3:FE:122:ILE:HG22	3:KI:109:ARG:NH1	1.96	0.80
3:GE:111:GLU:OE1	3:HE:68:ILE:HD11	1.80	0.80
3:JL:45:GLU:N	3:JL:45:GLU:OE1	2.15	0.80
3:KC:106:ALA:HB3	3:LC:13:LYS:HZ2	1.45	0.80
3:LK:121:LEU:O	3:LK:125:ILE:HG22	1.81	0.80
1:A:1301:U:O2	3:CG:89:TYR:OH	1.97	0.80
1:A:1311:C:OP1	3:GM:63:LYS:NZ	2.13	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2325:C:N3	1:A:2345:G:N1	2.29	0.80
1:A:2544:G:OP2	1:A:2566:A:N6	2.11	0.80
1:A:3542:C:O2	1:A:3548:G:N2	2.14	0.80
1:A:3609:G:C6	1:A:3645:U:N3	2.50	0.80
3:BM:86:ARG:HH12	3:DJ:101:THR:HG23	1.47	0.80
3:ED:122:ILE:HG22	3:EH:109:ARG:NH1	1.97	0.80
3:GD:125:ILE:CG2	3:KF:64:VAL:HG11	2.12	0.80
3:GE:110:THR:OG1	3:HE:11:ILE:HD12	1.81	0.80
3:GH:92:VAL:HG22	3:KB:92:VAL:HG22	1.62	0.80
1:A:3669:G:OP1	1:A:3844:C:O2'	1.99	0.80
3:BA:132:TYR:O	3:MK:2:LYS:NZ	2.15	0.80
3:CC:26:VAL:HG12	3:HC:132:TYR:CE2	2.17	0.80
3:EI:109:ARG:HH21	3:GA:125:ILE:HG23	1.45	0.80
1:A:205:C:O2'	1:A:248:G:N2	2.15	0.80
1:A:1619:C:N4	1:A:1620:G:O6	2.15	0.80
1:A:2635:A:OP2	3:GB:98:GLN:NE2	2.14	0.80
1:A:3628:U:O2'	1:A:3630:A:N7	2.12	0.80
3:CN:132:TYR:CE1	3:DD:26:VAL:HG21	2.16	0.80
3:EJ:24:ARG:NH2	3:EJ:43:ALA:O	2.15	0.80
3:FF:92:VAL:HG22	3:LF:92:VAL:HG22	1.64	0.80
3:FG:116:LEU:O	3:KG:109:ARG:NH1	2.14	0.80
3:KF:27:ASN:OD1	3:KF:29:THR:OG1	2.00	0.80
3:DL:110:THR:HG23	3:MN:11:ILE:CD1	2.11	0.80
3:FI:119:PRO:HA	3:FI:122:ILE:HD12	1.62	0.80
1:A:1323:A:OP2	1:A:1325:A:N6	2.15	0.80
3:BI:8:LEU:CD1	3:HM:114:ALA:HB1	2.11	0.80
3:CL:62:TYR:CD2	3:HH:128:LEU:HD23	2.17	0.80
3:EC:105:ARG:NH1	3:LK:128:LEU:HD12	1.97	0.80
3:GG:26:VAL:HG12	3:GG:33:ALA:HA	1.64	0.80
3:JD:128:LEU:O	3:JI:24:ARG:NH2	2.14	0.80
3:MC:37:GLN:NE2	3:MC:38:ALA:O	2.14	0.80
1:A:1684:C:OP1	3:BF:89:TYR:OH	2.00	0.80
1:A:3108:G:O3'	3:MG:67:LYS:NZ	2.15	0.80
1:A:4204:C:OP2	2:M:236:ARG:NH2	2.14	0.80
2:M:287:ASP:OD2	2:M:290:SER:OG	1.99	0.80
3:BA:92:VAL:HG22	3:MK:92:VAL:HG22	1.64	0.80
3:DC:113:ALA:HB2	3:EN:116:LEU:HD22	1.64	0.80
3:GM:97:THR:HG1	3:GM:100:SER:HG	1.21	0.80
3:KC:97:THR:O	3:KC:100:SER:OG	2.00	0.80
1:A:15:G:N3	3:HK:57:ARG:NH2	2.30	0.79
1:A:536:A:OP1	3:CI:67:LYS:NZ	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EA:114:ALA:HB3	3:LM:8:LEU:HD12	1.63	0.79
3:IM:111:GLU:OE1	3:JM:68:ILE:HD11	1.82	0.79
3:NI:100:SER:OG	3:NI:105:ARG:NH1	2.14	0.79
1:A:2335:A:O2'	1:A:2336:A:OP1	2.00	0.79
3:DB:114:ALA:CB	3:DK:8:LEU:HD12	2.12	0.79
3:DM:56:SER:OG	3:DM:58:ASN:OD1	1.99	0.79
3:FI:8:LEU:HD23	3:KE:114:ALA:HB3	1.65	0.79
3:IF:112:LEU:HD11	3:NI:92:VAL:HG21	1.62	0.79
3:MJ:97:THR:O	3:MJ:100:SER:OG	2.00	0.79
1:A:1913:U:O2'	3:GH:57:ARG:NH1	2.14	0.79
3:DK:68:ILE:HB	3:DK:90:ALA:HB3	1.64	0.79
3:FG:86:ARG:NH2	3:KG:99:TYR:O	2.15	0.79
3:KK:111:GLU:OE2	3:MH:68:ILE:HD13	1.82	0.79
3:MM:24:ARG:NH1	3:MM:36:SER:OG	2.15	0.79
1:A:1328:U:N3	1:A:1594:C:C2	2.49	0.79
1:A:3772:G:O2'	3:LG:55:PRO:O	1.99	0.79
3:BH:8:LEU:HD12	3:IL:114:ALA:HB3	1.61	0.79
3:EK:122:ILE:O	3:FM:109:ARG:NH2	2.16	0.79
3:HN:11:ILE:HG23	3:ID:110:THR:HG23	1.64	0.79
3:IM:127:GLN:O	3:JN:24:ARG:NH2	2.15	0.79
3:JG:114:ALA:HB3	3:LD:8:LEU:HD12	1.63	0.79
3:NB:1:ALA:N	3:NF:123:ASP:OD2	2.11	0.79
1:A:3536:G:N2	1:A:3556:A:C6	2.51	0.79
1:A:3795:G:O2'	1:A:3796:C:O4'	2.00	0.79
3:CM:86:ARG:NH1	3:NA:99:TYR:O	2.15	0.79
3:FN:77:ASN:ND2	3:HC:77:ASN:O	2.15	0.79
3:GD:104:GLU:OE2	3:KF:86:ARG:NH2	2.16	0.79
3:GD:125:ILE:HD11	3:KF:109:ARG:HD3	1.64	0.79
3:IJ:111:GLU:CD	3:NE:68:ILE:HD11	2.03	0.79
1:A:2243:A:N6	1:A:2250:G:O6	2.16	0.79
1:A:2285:U:N3	1:A:2302:U:O2	2.16	0.79
1:A:3412:U:C4	1:A:3456:C:N3	2.51	0.79
3:B:8:LEU:CD2	3:B:11:ILE:HD11	2.12	0.79
3:BB:11:ILE:HG22	3:BB:17:GLN:O	1.82	0.79
3:BC:64:VAL:HG11	3:ND:125:ILE:HD11	1.64	0.79
3:BC:106:ALA:HB3	3:ND:13:LYS:NZ	1.96	0.79
3:BI:24:ARG:NH1	3:BI:36:SER:OG	2.15	0.79
3:FB:24:ARG:NH2	3:LH:129:ASN:OD1	2.16	0.79
3:GG:13:LYS:NZ	3:JE:103:GLU:O	2.15	0.79
1:A:1423:U:O2'	1:A:2603:A:N6	2.14	0.79
1:A:3541:G:N1	1:A:3549:C:N3	2.31	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DG:103:GLU:HA	3:EJ:13:LYS:NZ	1.97	0.79
3:FH:105:ARG:NE	3:FK:128:LEU:HD11	1.97	0.79
3:JJ:32:VAL:HG22	3:JJ:51:SER:OG	1.82	0.79
3:NA:102:ASP:OD1	3:NA:103:GLU:N	2.15	0.79
1:A:1314:A:N3	3:CF:47:ARG:NH2	2.31	0.79
3:CG:24:ARG:NH2	3:GM:128:LEU:O	2.16	0.79
3:FI:11:ILE:HG22	3:FI:17:GLN:O	1.82	0.79
3:GD:125:ILE:HG22	3:KF:64:VAL:HG21	1.62	0.79
3:LH:44:LEU:HD23	3:LH:44:LEU:O	1.82	0.79
3:LJ:123:ASP:OD1	3:LJ:127:GLN:NE2	2.16	0.79
1:A:110:U:O2	1:A:115:G:O6	2.01	0.79
1:A:2437:U:O2'	1:A:2438:C:OP1	1.98	0.79
3:CH:107:PHE:CZ	3:HL:19:LEU:HD11	2.17	0.79
3:DC:92:VAL:HG22	3:EN:92:VAL:HG22	1.63	0.79
3:FB:128:LEU:HD21	3:LJ:62:TYR:CD1	2.17	0.79
3:FJ:24:ARG:NH1	3:HD:127:GLN:O	2.15	0.79
3:GF:74:CYS:SG	3:GF:85:THR:HG21	2.23	0.79
3:LC:102:ASP:OD2	3:LC:103:GLU:N	2.15	0.79
1:A:22:A:O2'	3:CJ:57:ARG:NH2	2.16	0.79
1:A:2291:U:O4'	3:GM:57:ARG:NH2	2.16	0.79
3:CB:132:TYR:O	3:HC:2:LYS:NZ	2.16	0.79
3:LA:114:ALA:HB3	3:MD:8:LEU:HD12	1.65	0.79
3:LD:11:ILE:HG22	3:LD:17:GLN:O	1.83	0.79
1:A:1035:C:O3'	3:IK:30:ASN:ND2	2.16	0.78
1:A:1422:G:N2	1:A:1427:U:O4	2.16	0.78
3:CA:37:GLN:NE2	3:CA:38:ALA:O	2.16	0.78
3:EG:65:GLN:OE1	3:EG:93:THR:HG23	1.82	0.78
3:EG:85:THR:O	3:GC:99:TYR:OH	2.00	0.78
3:GD:5:THR:OG1	3:GD:22:ASN:OD1	2.00	0.78
3:GD:41:VAL:HG13	3:GD:44:LEU:HD11	1.65	0.78
3:GJ:8:LEU:HD11	3:GN:114:ALA:CB	2.12	0.78
3:IG:111:GLU:OE1	3:JJ:19:LEU:HD23	1.83	0.78
3:LA:95:SER:OG	3:MD:89:TYR:O	2.01	0.78
3:MI:97:THR:OG1	3:MI:98:GLN:OE1	1.99	0.78
3:BA:8:LEU:CD1	3:MK:114:ALA:HB3	2.13	0.78
3:CN:126:ASP:O	3:DD:105:ARG:NH2	2.16	0.78
1:A:88:U:O4	1:A:162:C:N4	2.16	0.78
1:A:3991:G:O2'	3:KN:59:ARG:NH2	2.15	0.78
1:A:4111:A:OP1	3:D:47:ARG:NH2	2.16	0.78
3:CK:37:GLN:OE1	3:CK:39:GLY:N	2.16	0.78
3:EL:27:ASN:OD1	3:EL:29:THR:N	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JF:27:ASN:ND2	3:JF:30:ASN:OD1	2.16	0.78
3:NA:11:ILE:HG23	3:NA:17:GLN:HG2	1.64	0.78
1:A:1936:G:O2'	3:JF:59:ARG:NH1	2.16	0.78
1:A:3792:U:C2	1:A:3809:G:O6	2.35	0.78
3:DL:24:ARG:NH2	3:ML:128:LEU:O	2.16	0.78
3:EF:102:ASP:OD1	3:EF:103:GLU:N	2.17	0.78
3:GF:131:ALA:HB1	3:KD:3:LEU:HD21	1.66	0.78
3:HI:30:ASN:OD1	3:HI:32:VAL:HG23	1.82	0.78
3:IG:8:LEU:HD12	3:JJ:114:ALA:HB3	1.65	0.78
3:JG:122:ILE:HA	3:LD:109:ARG:HH12	1.46	0.78
3:JI:94:PHE:CD2	3:LB:125:ILE:HD12	2.18	0.78
3:JL:24:ARG:NH1	3:KN:128:LEU:O	2.16	0.78
3:KJ:8:LEU:HD11	3:LE:114:ALA:HB3	1.65	0.78
1:A:1328:U:C4	1:A:1594:C:N3	2.51	0.78
1:A:1495:U:OP2	3:BN:89:TYR:OH	2.01	0.78
1:A:2173:C:O2	1:A:3439:U:O2'	2.01	0.78
3:BG:93:THR:OG1	3:IA:91:ASP:OD1	2.01	0.78
3:BJ:48:VAL:HG22	3:BJ:68:ILE:HD12	1.65	0.78
3:CC:8:LEU:HD12	3:DF:114:ALA:HB3	1.64	0.78
3:DG:111:GLU:O	3:DG:115:LEU:HD23	1.84	0.78
3:ED:11:ILE:HD12	3:EH:110:THR:OG1	1.83	0.78
3:HM:102:ASP:OD1	3:HM:103:GLU:N	2.16	0.78
3:JH:11:ILE:HG22	3:JH:17:GLN:O	1.83	0.78
3:NC:37:GLN:OE1	3:NC:46:LYS:NZ	2.16	0.78
3:BJ:128:LEU:O	3:CA:24:ARG:NH1	2.16	0.78
3:CB:65:GLN:OE1	3:CB:93:THR:OG1	2.00	0.78
3:DB:45:GLU:N	3:DB:45:GLU:OE1	2.16	0.78
3:DB:99:TYR:O	3:DK:86:ARG:NH2	2.17	0.78
3:DC:25:GLY:N	3:EL:129:ASN:OD1	2.16	0.78
3:EC:8:LEU:CD1	3:LK:115:LEU:HD22	2.13	0.78
3:HD:101:THR:N	3:HD:104:GLU:OE2	2.15	0.78
1:A:532:A:OP1	3:DI:59:ARG:NH1	2.17	0.78
1:A:1953:C:N4	1:A:1954:U:O2	2.17	0.78
3:BH:19:LEU:HD11	3:BH:46:LYS:NZ	1.98	0.78
3:CF:12:GLY:H	3:GM:110:THR:HG21	1.48	0.78
3:DB:37:GLN:NE2	3:DB:38:ALA:O	2.16	0.78
3:EK:74:CYS:SG	3:EK:85:THR:OG1	2.40	0.78
3:IC:22:ASN:ND2	3:JL:127:GLN:OE1	2.16	0.78
3:IJ:62:TYR:CD1	3:NE:128:LEU:HD21	2.19	0.78
3:IN:56:SER:O	3:IN:60:LYS:NZ	2.16	0.78
3:ND:68:ILE:HG22	3:ND:90:ALA:HB3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BB:109:ARG:HE	3:MA:122:ILE:HG22	1.48	0.78
3:BC:3:LEU:HD11	3:MA:132:TYR:HB3	1.65	0.78
3:BN:97:THR:O	3:BN:100:SER:OG	2.00	0.78
3:CC:102:ASP:OD2	3:CC:103:GLU:N	2.17	0.78
3:EC:62:TYR:CE2	3:EC:98:GLN:HA	2.19	0.78
3:LG:11:ILE:HG22	3:LG:17:GLN:C	2.04	0.78
1:A:201:C:OP2	3:ND:60:LYS:NZ	2.17	0.78
1:A:2568:G:OP2	1:A:2569:C:N4	2.17	0.78
1:A:3664:U:O4	1:A:3665:A:N6	2.17	0.78
3:BI:109:ARG:NH2	3:HM:116:LEU:O	2.16	0.78
3:DL:128:LEU:O	3:NA:24:ARG:NH1	2.17	0.78
3:HN:114:ALA:HB3	3:ID:8:LEU:HD12	1.65	0.78
3:IF:25:GLY:N	3:NG:129:ASN:OD1	2.17	0.78
1:A:2350:G:N1	1:A:2365:C:N3	2.31	0.78
3:BA:101:THR:HG23	3:MK:86:ARG:NH2	1.98	0.78
3:EB:30:ASN:OD1	3:EB:32:VAL:HG23	1.84	0.78
3:EE:56:SER:OG	3:EE:58:ASN:OD1	2.01	0.78
3:FE:92:VAL:HG22	3:KI:92:VAL:HG22	1.65	0.78
3:HJ:119:PRO:HA	3:HJ:122:ILE:HD12	1.64	0.78
3:IG:2:LYS:NZ	3:JJ:132:TYR:O	2.16	0.78
3:JG:128:LEU:O	3:LE:24:ARG:NH1	2.16	0.78
1:A:98:A:N6	1:A:150:C:O2'	2.16	0.77
3:BE:109:ARG:HG2	3:CE:116:LEU:HD11	1.66	0.77
3:CF:2:LYS:NZ	3:GM:132:TYR:O	2.18	0.77
3:CF:27:ASN:OD1	3:CF:29:THR:OG1	2.02	0.77
3:CN:132:TYR:O	3:DD:2:LYS:NZ	2.15	0.77
3:GL:102:ASP:O	3:HG:13:LYS:NZ	2.17	0.77
3:IA:30:ASN:OD1	3:IA:32:VAL:HG23	1.83	0.77
3:ID:24:ARG:NH2	3:JN:127:GLN:O	2.17	0.77
3:IF:128:LEU:HD21	3:NI:62:TYR:CD1	2.18	0.77
3:ME:125:ILE:HD13	3:NH:64:VAL:HG11	1.66	0.77
3:MI:87:GLN:OE1	3:MI:89:TYR:OH	2.02	0.77
1:A:1231:C:O4'	3:BI:60:LYS:NZ	2.16	0.77
1:A:3175:U:O4	1:A:3215:G:N1	2.17	0.77
1:A:3243:G:O2'	1:A:3801:A:N6	2.15	0.77
3:BC:24:ARG:NE	3:BC:36:SER:OG	2.18	0.77
3:CB:132:TYR:CE1	3:HC:26:VAL:HG21	2.19	0.77
3:DM:127:GLN:O	3:EN:24:ARG:NH2	2.18	0.77
3:HE:26:VAL:HG12	3:HE:33:ALA:HA	1.66	0.77
1:A:88:U:O4	1:A:163:A:N6	2.17	0.77
1:A:1754:C:O2'	1:A:1755:A:OP1	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2198:G:N2	1:A:2199:G:O6	2.17	0.77
3:CC:64:VAL:HG11	3:DF:125:ILE:HD11	1.66	0.77
3:KK:114:ALA:CB	3:MH:8:LEU:HD12	2.14	0.77
1:A:2359:A:N7	3:HD:49:THR:HG21	2.00	0.77
3:BA:86:ARG:NH1	3:MK:99:TYR:O	2.17	0.77
3:BE:3:LEU:HD13	3:BE:23:PRO:HB2	1.66	0.77
3:FN:19:LEU:HD13	3:FN:46:LYS:HZ2	1.47	0.77
3:HI:8:LEU:HD23	3:HI:19:LEU:HB3	1.66	0.77
3:JG:53:SER:OG	3:JG:59:ARG:NH1	2.17	0.77
3:NJ:52:VAL:HG12	3:NJ:64:VAL:HG22	1.66	0.77
1:A:376:G:HO2'	1:A:377:G:P	2.06	0.77
1:A:649:C:H1'	1:A:651:G:H21	1.47	0.77
3:BJ:109:ARG:NH1	3:BN:122:ILE:HD13	1.99	0.77
3:CA:109:ARG:NH1	3:DH:122:ILE:HD13	2.00	0.77
3:KF:102:ASP:OD2	3:KF:103:GLU:N	2.18	0.77
3:ND:52:VAL:HG12	3:ND:64:VAL:HG22	1.66	0.77
1:A:2158:U:O4	1:A:2164:C:N3	2.18	0.77
3:BE:8:LEU:HD11	3:CE:115:LEU:HD22	1.66	0.77
3:BG:8:LEU:HD12	3:IA:114:ALA:HB3	1.67	0.77
3:BM:13:LYS:NZ	3:DJ:102:ASP:OD2	2.18	0.77
3:CK:25:GLY:N	3:NA:129:ASN:OD1	2.17	0.77
3:FJ:114:ALA:HB3	3:HF:8:LEU:HD12	1.66	0.77
3:KD:24:ARG:NE	3:KD:36:SER:OG	2.16	0.77
3:KJ:37:GLN:NE2	3:KJ:38:ALA:O	2.18	0.77
3:MH:61:ASN:O	3:MH:63:LYS:NZ	2.16	0.77
3:MI:52:VAL:HG23	3:MI:64:VAL:HG22	1.64	0.77
3:NF:54:GLN:N	3:NF:54:GLN:OE1	2.17	0.77
3:NH:111:GLU:O	3:NH:115:LEU:HD23	1.83	0.77
1:A:1488:G:O4'	3:BN:59:ARG:NH1	2.18	0.77
1:A:1680:C:O2'	1:A:1681:U:OP1	2.03	0.77
2:M:221:MET:HE2	2:M:301:ALA:HB2	1.66	0.77
3:BE:109:ARG:NH1	3:CE:122:ILE:HD13	1.99	0.77
3:GJ:48:VAL:HG22	3:GJ:68:ILE:CD1	2.13	0.77
3:KK:105:ARG:NE	3:MH:128:LEU:HD11	2.00	0.77
1:A:4105:C:O2'	3:B:59:ARG:NH2	2.18	0.77
3:CN:108:VAL:HG12	3:DD:70:ASN:HD22	1.49	0.77
3:DL:62:TYR:CD2	3:MN:128:LEU:HD23	2.20	0.77
3:EG:2:LYS:NZ	3:EG:4:GLU:OE1	2.16	0.77
3:EI:13:LYS:NZ	3:GA:102:ASP:O	2.18	0.77
3:FB:13:LYS:NZ	3:LJ:102:ASP:OD2	2.16	0.77
3:HI:8:LEU:CD1	3:II:114:ALA:HB3	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IN:45:GLU:N	3:IN:45:GLU:OE1	2.17	0.77
3:JE:24:ARG:NH2	3:JH:127:GLN:O	2.17	0.77
3:KL:132:TYR:OH	3:LE:132:TYR:O	2.01	0.77
3:LB:3:LEU:HD12	3:LB:35:LEU:HD21	1.64	0.77
3:LD:37:GLN:HB3	3:LD:45:GLU:OE2	1.85	0.77
3:LG:12:GLY:H	3:MG:110:THR:HG21	1.48	0.77
3:BG:14:ASP:OD2	3:BG:16:LYS:N	2.18	0.77
3:BI:55:PRO:HG3	3:BI:62:TYR:CE1	2.20	0.77
3:CC:43:ALA:O	3:CC:44:LEU:HD23	1.85	0.77
3:DC:110:THR:OG1	3:EN:11:ILE:HD12	1.84	0.77
3:DN:112:LEU:HD23	3:ML:116:LEU:HD21	1.67	0.77
3:ED:114:ALA:CB	3:EH:8:LEU:HD11	2.15	0.77
3:FF:123:ASP:OD2	3:LF:1:ALA:N	2.17	0.77
3:FG:105:ARG:NH2	3:KG:126:ASP:O	2.18	0.77
3:LN:116:LEU:HD13	3:MI:109:ARG:NH1	1.99	0.77
3:NG:39:GLY:N	3:NG:45:GLU:OE1	2.18	0.77
1:A:869:G:OP1	3:BI:57:ARG:NH2	2.18	0.77
3:CL:54:GLN:O	3:CL:59:ARG:NH2	2.17	0.77
3:FH:17:GLN:NE2	3:FH:18:THR:O	2.17	0.77
3:FJ:8:LEU:HD12	3:HF:114:ALA:CB	2.15	0.77
3:GH:26:VAL:HG11	3:KB:132:TYR:CE2	2.20	0.77
3:HI:55:PRO:HD3	3:HI:62:TYR:CE1	2.20	0.77
1:A:1010:C:O2	3:IH:57:ARG:NH2	2.18	0.76
1:A:1077:U:O2'	1:A:1078:C:O5'	2.03	0.76
1:A:2161:A:O2'	3:GE:67:LYS:NZ	2.18	0.76
1:A:3609:G:N1	1:A:3645:U:N3	2.33	0.76
2:M:221:MET:CE	2:M:301:ALA:HB2	2.15	0.76
3:BA:93:THR:OG1	3:MK:91:ASP:OD1	2.03	0.76
3:BC:11:ILE:HG22	3:BC:17:GLN:O	1.85	0.76
3:BE:105:ARG:NH2	3:CE:126:ASP:O	2.18	0.76
3:BG:86:ARG:HH22	3:IA:101:THR:HG23	1.49	0.76
3:DE:115:LEU:HD22	3:EL:8:LEU:CD1	2.15	0.76
3:EG:86:ARG:NH2	3:GC:104:GLU:OE1	2.17	0.76
3:IC:44:LEU:HD13	3:IE:98:GLN:OE1	1.85	0.76
1:A:1910:C:O2	1:A:1912:A:N6	2.17	0.76
1:A:2870:U:O2	1:A:2887:G:O6	2.02	0.76
3:CN:115:LEU:O	3:CN:118:SER:OG	2.02	0.76
3:DE:102:ASP:OD1	3:DE:103:GLU:N	2.17	0.76
3:EB:8:LEU:HD12	3:MJ:114:ALA:HB3	1.67	0.76
3:EI:2:LYS:NZ	3:GA:132:TYR:OXT	2.17	0.76
3:FM:54:GLN:N	3:FM:54:GLN:OE1	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:54:GLN:N	3:LD:54:GLN:OE1	2.17	0.76
3:LG:99:TYR:O	3:MG:86:ARG:NH1	2.18	0.76
3:ME:8:LEU:HD12	3:NH:114:ALA:HB3	1.67	0.76
3:MG:27:ASN:OD1	3:MG:29:THR:OG1	2.03	0.76
1:A:2247:A:O2'	1:A:2248:G:O5'	2.03	0.76
3:BB:109:ARG:NH2	3:MA:116:LEU:O	2.18	0.76
3:CI:8:LEU:HD12	3:DI:114:ALA:HB3	1.66	0.76
3:DD:26:VAL:HG13	3:EL:132:TYR:OH	1.85	0.76
3:GA:48:VAL:HG22	3:GA:68:ILE:CD1	2.14	0.76
3:JI:114:ALA:HB3	3:LB:8:LEU:HD12	1.67	0.76
3:KK:128:LEU:O	3:MI:24:ARG:NH2	2.19	0.76
1:A:732:C:O2'	1:A:733:U:O5'	2.03	0.76
3:BN:24:ARG:NH2	3:DJ:127:GLN:O	2.17	0.76
3:FF:11:ILE:HG22	3:FF:17:GLN:O	1.83	0.76
3:GC:46:LYS:NZ	3:GC:71:PRO:O	2.17	0.76
3:GG:59:ARG:HG2	3:GG:61:ASN:HB2	1.68	0.76
3:KC:102:ASP:O	3:LC:13:LYS:NZ	2.18	0.76
3:LA:127:GLN:O	3:ME:24:ARG:NH2	2.17	0.76
3:MC:114:ALA:HB1	3:NJ:8:LEU:CD1	2.10	0.76
1:A:2320:U:N3	1:A:2344:U:O4	2.18	0.76
2:M:159:TYR:CE2	2:M:163:LEU:HD11	2.20	0.76
3:DE:24:ARG:NH2	3:DE:36:SER:OG	2.18	0.76
3:DN:92:VAL:HG22	3:ML:92:VAL:HG22	1.68	0.76
3:FI:96:PHE:CE1	3:KE:88:ALA:HB1	2.20	0.76
3:GJ:86:ARG:NH1	3:GN:99:TYR:O	2.18	0.76
3:GL:3:LEU:CD1	3:GL:35:LEU:HD11	2.16	0.76
3:JD:8:LEU:HD11	3:JH:114:ALA:CB	2.15	0.76
3:EF:116:LEU:CD2	3:FA:113:ALA:HB2	2.15	0.76
3:GG:13:LYS:NZ	3:JE:102:ASP:O	2.19	0.76
3:GI:13:LYS:HZ2	3:JC:106:ALA:CB	1.99	0.76
3:IC:114:ALA:HB3	3:JN:8:LEU:HD12	1.67	0.76
3:IG:102:ASP:HA	3:IG:105:ARG:NH1	2.01	0.76
3:KC:119:PRO:HA	3:KC:122:ILE:HD12	1.65	0.76
3:LK:24:ARG:NE	3:LK:36:SER:OG	2.18	0.76
1:A:4212:C:O2'	1:A:4213:U:O4'	2.03	0.76
3:BC:3:LEU:HD13	3:BC:23:PRO:CB	2.15	0.76
3:BH:86:ARG:NH1	3:IL:99:TYR:O	2.19	0.76
3:JG:128:LEU:HD21	3:LD:62:TYR:CD2	2.20	0.76
1:A:3759:G:O6	3:FD:58:ASN:ND2	2.19	0.76
3:CD:115:LEU:HD22	3:HA:8:LEU:CD2	2.16	0.76
3:CD:125:ILE:HD11	3:HA:64:VAL:HG11	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:109:ARG:NH1	3:HH:116:LEU:O	2.19	0.76
3:EI:125:ILE:O	3:GA:105:ARG:NH1	2.19	0.76
3:GC:24:ARG:NH1	3:GC:36:SER:OG	2.17	0.76
3:HB:54:GLN:N	3:HB:54:GLN:OE1	2.19	0.76
3:HI:13:LYS:NZ	3:II:103:GLU:OE1	2.18	0.76
3:IJ:8:LEU:HD22	3:NE:114:ALA:CB	2.16	0.76
3:KA:11:ILE:HG22	3:KA:17:GLN:O	1.84	0.76
3:MB:11:ILE:HG22	3:MB:17:GLN:O	1.86	0.76
3:MG:60:LYS:H	3:MG:61:ASN:HB3	1.49	0.76
3:NI:84:VAL:HG12	3:NI:87:GLN:HE21	1.51	0.76
1:A:3516:U:O2	3:KI:57:ARG:NH2	2.17	0.76
3:CK:109:ARG:NH1	3:NC:116:LEU:O	2.18	0.76
3:GJ:125:ILE:HG22	3:GN:105:ARG:HD3	1.68	0.76
3:KJ:101:THR:HG22	3:KJ:104:GLU:OE2	1.85	0.76
3:DH:37:GLN:NE2	3:DH:38:ALA:O	2.19	0.76
3:EF:116:LEU:HD22	3:FA:113:ALA:HB2	1.68	0.76
3:GA:68:ILE:CG2	3:GA:90:ALA:HB3	2.16	0.76
3:KH:60:LYS:N	3:KH:61:ASN:HB3	2.00	0.76
3:KH:92:VAL:HG22	3:KL:92:VAL:HG22	1.66	0.76
3:KN:27:ASN:CG	3:KN:29:THR:HG1	1.90	0.76
3:LB:102:ASP:OD2	3:LB:103:GLU:N	2.19	0.76
3:BI:102:ASP:OD1	3:BI:103:GLU:N	2.20	0.75
3:BJ:110:THR:OG1	3:BN:11:ILE:HD12	1.86	0.75
3:FJ:58:ASN:OD1	3:FJ:59:ARG:N	2.19	0.75
3:FL:92:VAL:HG22	3:HD:92:VAL:HG22	1.68	0.75
3:IN:6:VAL:HG12	3:IN:8:LEU:HD11	1.69	0.75
3:ND:68:ILE:CG2	3:ND:90:ALA:HB3	2.15	0.75
1:A:2711:U:O2'	1:A:2712:U:O5'	2.02	0.75
1:A:3231:G:N3	1:A:3267:A:N6	2.33	0.75
3:BA:132:TYR:CE1	3:MK:26:VAL:HG11	2.21	0.75
3:BB:8:LEU:HD11	3:MA:114:ALA:HB3	1.68	0.75
3:BC:32:VAL:HG12	3:BC:51:SER:HB2	1.68	0.75
3:BM:97:THR:O	3:BM:100:SER:OG	2.04	0.75
3:DA:99:TYR:O	3:MM:86:ARG:NH2	2.19	0.75
3:EM:97:THR:O	3:EM:100:SER:OG	2.04	0.75
3:FB:114:ALA:HB3	3:LJ:8:LEU:HD13	1.67	0.75
3:FG:99:TYR:O	3:KG:86:ARG:NH2	2.18	0.75
3:IA:74:CYS:SG	3:IA:85:THR:OG1	2.41	0.75
3:II:20:VAL:HG13	3:II:38:ALA:HB2	1.68	0.75
3:IM:8:LEU:HD12	3:JM:114:ALA:CB	2.16	0.75
1:A:2491:A:O2'	1:A:2585:G:O6	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3665:A:O2'	1:A:3767:C:O3'	2.03	0.75
3:D:24:ARG:NH2	3:D:37:GLN:O	2.20	0.75
3:BE:114:ALA:HB3	3:CE:8:LEU:HD11	1.69	0.75
3:DG:123:ASP:OD2	3:EJ:1:ALA:N	2.19	0.75
3:EC:45:GLU:N	3:EC:45:GLU:OE1	2.20	0.75
3:IJ:26:VAL:HG11	3:NE:132:TYR:CE1	2.21	0.75
3:JG:119:PRO:O	3:JG:122:ILE:HG22	1.87	0.75
3:JK:86:ARG:NH2	3:KN:104:GLU:OE2	2.19	0.75
3:BC:13:LYS:NZ	3:ND:106:ALA:HB3	1.97	0.75
3:BL:109:ARG:NH1	3:CG:122:ILE:HD13	2.01	0.75
3:CB:86:ARG:NH2	3:HC:104:GLU:OE2	2.19	0.75
3:EN:11:ILE:HG22	3:EN:17:GLN:O	1.86	0.75
3:FJ:100:SER:OG	3:HF:86:ARG:NH1	2.20	0.75
3:GK:46:LYS:NZ	3:GK:70:ASN:OD1	2.12	0.75
3:HE:23:PRO:HA	3:HE:35:LEU:HD23	1.68	0.75
3:KJ:97:THR:OG1	3:LE:86:ARG:NH2	2.16	0.75
3:MC:105:ARG:NH2	3:NJ:126:ASP:O	2.19	0.75
1:A:2249:C:O2'	3:HE:57:ARG:NH1	2.19	0.75
3:CK:58:ASN:O	3:CK:59:ARG:NH2	2.20	0.75
3:EH:119:PRO:HA	3:EH:122:ILE:HD12	1.67	0.75
3:GA:102:ASP:OD1	3:GA:103:GLU:N	2.19	0.75
3:HK:60:LYS:HB2	3:HK:61:ASN:HB2	1.68	0.75
3:JH:56:SER:OG	3:JH:59:ARG:NE	2.19	0.75
3:LG:104:GLU:OE2	3:MG:72:THR:OG1	2.05	0.75
3:MI:6:VAL:HG12	3:MI:8:LEU:CD2	2.17	0.75
3:MM:22:ASN:O	3:MM:24:ARG:NH1	2.20	0.75
2:M:160:LEU:CD2	2:M:220:VAL:HG12	2.17	0.75
3:CA:126:ASP:OD2	3:DH:109:ARG:NH2	2.19	0.75
3:CL:26:VAL:HG11	3:HH:132:TYR:CE2	2.22	0.75
3:EC:37:GLN:NE2	3:EC:38:ALA:O	2.20	0.75
3:ED:92:VAL:HG22	3:EH:92:VAL:HG22	1.69	0.75
3:FJ:123:ASP:OD2	3:HF:1:ALA:N	2.18	0.75
3:GH:110:THR:OG1	3:KB:11:ILE:HD12	1.87	0.75
3:II:128:LEU:HD12	3:II:128:LEU:N	2.02	0.75
3:JA:118:SER:O	3:JA:122:ILE:HG23	1.85	0.75
3:LG:106:ALA:HB3	3:MG:13:LYS:HZ2	1.52	0.75
1:A:1171:G:O2'	1:A:1172:U:O5'	2.04	0.75
1:A:2909:U:O4	1:A:2934:C:N4	2.19	0.75
3:BD:37:GLN:OE1	3:BD:39:GLY:N	2.20	0.75
3:EB:11:ILE:HG22	3:EB:17:GLN:O	1.87	0.75
3:GD:48:VAL:HG22	3:GD:68:ILE:CD1	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GG:99:TYR:O	3:JE:86:ARG:NH2	2.20	0.75
3:KE:14:ASP:OD1	3:KE:16:LYS:NZ	2.19	0.75
3:MF:37:GLN:NE2	3:MF:38:ALA:O	2.19	0.75
1:A:257:C:OP1	3:NB:58:ASN:ND2	2.20	0.75
3:CH:114:ALA:CB	3:HL:8:LEU:HD12	2.16	0.75
3:CJ:116:LEU:O	3:HJ:109:ARG:NH1	2.19	0.75
3:EK:2:LYS:NZ	3:FM:132:TYR:O	2.19	0.75
3:FB:92:VAL:HG22	3:LJ:92:VAL:HG22	1.69	0.75
3:HN:132:TYR:CE1	3:ID:26:VAL:HG11	2.22	0.75
3:IF:132:TYR:HE1	3:NI:26:VAL:HG11	1.50	0.75
3:LK:103:GLU:N	3:LK:103:GLU:OE1	2.20	0.75
3:NJ:100:SER:OG	3:NJ:105:ARG:NH1	2.19	0.75
1:A:552:A:C2	1:A:653:C:N4	2.55	0.75
1:A:999:G:H22	3:IH:57:ARG:HH22	1.35	0.75
1:A:2244:U:O2	1:A:2248:G:N1	2.19	0.75
1:A:2380:C:N4	1:A:2381:U:O4	2.20	0.75
2:M:309:GLU:OE2	2:M:311:ALA:HB3	1.86	0.75
3:BB:125:ILE:HD11	3:MA:109:ARG:HD3	1.67	0.75
3:CB:65:GLN:NE2	3:CB:92:VAL:O	2.19	0.75
3:CC:126:ASP:OD1	3:CC:127:GLN:NE2	2.20	0.75
3:EC:69:GLN:NE2	3:EC:87:GLN:OE1	2.19	0.75
3:EE:8:LEU:HD23	3:EE:19:LEU:HD12	1.68	0.75
3:FJ:8:LEU:HD12	3:HF:114:ALA:HB1	1.68	0.75
3:GE:14:ASP:OD2	3:GE:16:LYS:NZ	2.14	0.75
3:GL:32:VAL:HG12	3:GL:51:SER:HB2	1.69	0.75
3:HI:125:ILE:HD11	3:II:109:ARG:HD3	1.69	0.75
3:JE:97:THR:N	3:JE:100:SER:HG	1.85	0.75
1:A:2438:C:HO2'	1:A:2439:G:P	2.09	0.74
3:BD:132:TYR:CZ	3:JB:26:VAL:HG11	2.22	0.74
3:BI:22:ASN:O	3:BI:24:ARG:NH1	2.19	0.74
3:FI:85:THR:HG23	3:FI:86:ARG:HG3	1.68	0.74
3:JA:54:GLN:N	3:JA:54:GLN:OE1	2.20	0.74
3:LG:125:ILE:HG23	3:MG:109:ARG:HE	1.51	0.74
1:A:1369:U:OP2	3:HA:89:TYR:OH	2.05	0.74
3:BI:131:ALA:HB1	3:HM:3:LEU:HD21	1.68	0.74
3:CJ:114:ALA:HB1	3:HJ:8:LEU:HD11	1.69	0.74
3:DD:102:ASP:OD1	3:DD:103:GLU:N	2.20	0.74
3:DL:122:ILE:HG23	3:MN:109:ARG:NH1	2.02	0.74
3:FF:8:LEU:HD11	3:LF:114:ALA:HB1	1.69	0.74
3:HG:65:GLN:NE2	3:HG:93:THR:OG1	2.18	0.74
3:HG:102:ASP:OD1	3:HG:103:GLU:N	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KE:11:ILE:HG22	3:KE:17:GLN:O	1.87	0.74
3:KJ:105:ARG:CD	3:LE:128:LEU:HD11	2.17	0.74
3:MM:85:THR:HG23	3:MM:86:ARG:HG3	1.67	0.74
3:NB:20:VAL:HG23	3:NB:38:ALA:HB2	1.69	0.74
1:A:2924:A:O2'	3:FM:57:ARG:NH1	2.19	0.74
3:BE:103:GLU:HA	3:CE:13:LYS:CE	2.18	0.74
3:HE:60:LYS:H	3:HE:61:ASN:HB3	1.51	0.74
3:IC:111:GLU:O	3:IC:115:LEU:HD23	1.87	0.74
3:IM:11:ILE:HG22	3:IM:17:GLN:O	1.88	0.74
3:LM:2:LYS:NZ	3:LN:4:GLU:OE1	2.16	0.74
1:A:3306:A:O2'	1:A:3307:A:O5'	2.05	0.74
3:CN:54:GLN:O	3:CN:59:ARG:NE	2.20	0.74
3:FI:11:ILE:HD12	3:KE:110:THR:OG1	1.87	0.74
3:FJ:114:ALA:CB	3:HF:8:LEU:HD12	2.18	0.74
3:GD:13:LYS:NZ	3:KF:103:GLU:O	2.21	0.74
3:HD:102:ASP:OD1	3:HD:103:GLU:N	2.20	0.74
3:JK:11:ILE:HG22	3:JK:17:GLN:O	1.87	0.74
1:A:3309:A:N6	1:A:3312:U:O2	2.20	0.74
3:BB:86:ARG:NH1	3:MA:99:TYR:O	2.20	0.74
3:CJ:52:VAL:HG23	3:CJ:64:VAL:HG22	1.69	0.74
3:EA:102:ASP:OD1	3:EA:103:GLU:N	2.21	0.74
3:ED:125:ILE:O	3:ED:128:LEU:HD12	1.87	0.74
3:GD:13:LYS:N	3:GD:13:LYS:HD2	2.02	0.74
3:GK:48:VAL:HG22	3:GK:68:ILE:HD12	1.69	0.74
3:HN:64:VAL:HG11	3:ID:125:ILE:CD1	2.17	0.74
3:KK:100:SER:OG	3:KK:105:ARG:NH1	2.20	0.74
3:LL:11:ILE:HG23	3:MB:110:THR:OG1	1.87	0.74
3:LM:11:ILE:HG22	3:LM:17:GLN:O	1.86	0.74
1:A:2986:U:O4	1:A:2987:A:N6	2.20	0.74
1:A:3436:U:O3'	3:HE:87:GLN:NE2	2.19	0.74
1:A:4201:U:OP2	2:M:353:ARG:NH2	2.20	0.74
3:CA:131:ALA:HB1	3:DH:3:LEU:HD21	1.69	0.74
3:DE:106:ALA:HB3	3:EL:13:LYS:NZ	2.03	0.74
3:DF:26:VAL:HG12	3:DF:33:ALA:HA	1.68	0.74
3:DF:60:LYS:H	3:DF:61:ASN:HB3	1.52	0.74
3:DL:113:ALA:HB2	3:MN:116:LEU:HD22	1.68	0.74
3:FB:84:VAL:HG12	3:FB:87:GLN:OE1	1.88	0.74
3:FE:97:THR:HG23	3:KI:86:ARG:NH2	2.02	0.74
3:IJ:115:LEU:HD22	3:NE:8:LEU:HD21	1.70	0.74
3:JL:11:ILE:HG22	3:JL:17:GLN:O	1.88	0.74
3:DB:111:GLU:OE2	3:DK:68:ILE:HG21	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IA:48:VAL:HG22	3:IA:68:ILE:HD12	1.69	0.74
3:IF:132:TYR:OXT	3:NI:2:LYS:NZ	2.16	0.74
3:LD:58:ASN:OD1	3:LD:59:ARG:NH1	2.21	0.74
3:LN:106:ALA:HB3	3:MI:13:LYS:NZ	2.02	0.74
3:NE:6:VAL:HG12	3:NE:8:LEU:HD11	1.70	0.74
1:A:3477:A:N6	1:A:3505:A:H61	1.86	0.74
3:BF:24:ARG:NH1	3:CE:128:LEU:O	2.20	0.74
3:CB:100:SER:OG	3:CB:105:ARG:NH1	2.20	0.74
3:CN:85:THR:HG23	3:CN:86:ARG:HG3	1.68	0.74
3:GL:131:ALA:HB1	3:HG:3:LEU:HD21	1.70	0.74
3:LK:45:GLU:N	3:LK:45:GLU:OE1	2.21	0.74
1:A:1388:U:O2	1:A:1553:G:N2	2.21	0.74
1:A:3149:U:O4	1:A:3150:A:N6	2.21	0.74
3:BG:44:LEU:HD11	3:BI:98:GLN:O	1.88	0.74
3:CN:115:LEU:HD22	3:DD:8:LEU:CD1	2.18	0.74
3:GF:68:ILE:HB	3:GF:90:ALA:HB3	1.69	0.74
3:GK:116:LEU:O	3:JA:109:ARG:CZ	2.36	0.74
3:GN:102:ASP:HA	3:GN:105:ARG:HE	1.53	0.74
3:KJ:92:VAL:HG22	3:LE:92:VAL:HG22	1.68	0.74
3:KM:52:VAL:HG21	3:MF:130:PRO:HA	1.70	0.74
1:A:893:A:N1	3:II:57:ARG:NH2	2.35	0.74
1:A:2156:U:O2'	3:HE:58:ASN:ND2	2.21	0.74
1:A:2484:C:O2'	3:EF:58:ASN:OD1	2.05	0.74
3:DC:62:TYR:CD2	3:EN:128:LEU:HD23	2.22	0.74
3:EB:86:ARG:NH2	3:MJ:100:SER:HA	2.03	0.74
3:EG:114:ALA:CB	3:GC:8:LEU:HD22	2.18	0.74
3:FJ:60:LYS:H	3:FJ:61:ASN:HB3	1.53	0.74
3:IL:53:SER:OG	3:IL:59:ARG:NE	2.21	0.74
3:KH:120:LEU:HG	3:KH:121:LEU:HD12	1.68	0.74
3:MK:102:ASP:OD2	3:MK:103:GLU:N	2.21	0.74
1:A:1910:C:N3	1:A:2005:G:N2	2.34	0.73
3:CF:64:VAL:HG11	3:GM:125:ILE:CD1	2.18	0.73
3:DE:91:ASP:OD2	3:EL:93:THR:OG1	2.04	0.73
3:FA:107:PHE:O	3:FA:111:GLU:OE1	2.06	0.73
3:IB:109:ARG:NH1	3:IK:126:ASP:OD2	2.21	0.73
3:IG:65:GLN:OE1	3:IG:93:THR:OG1	2.01	0.73
3:KI:79:SER:O	3:KI:80:CYS:SG	2.45	0.73
3:KJ:27:ASN:OD1	3:KJ:29:THR:N	2.21	0.73
3:LG:62:TYR:CE2	3:MG:128:LEU:HD22	2.23	0.73
3:LL:105:ARG:NH2	3:MB:126:ASP:O	2.19	0.73
3:ND:27:ASN:OD1	3:ND:29:THR:N	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1014:C:O2'	1:A:3197:A:N3	2.21	0.73
1:A:2157:C:P	3:HE:59:ARG:HE	2.11	0.73
2:M:324:PHE:CD2	2:M:417:VAL:HG11	2.23	0.73
3:BI:11:ILE:HD12	3:HM:110:THR:OG1	1.88	0.73
3:CC:11:ILE:HG22	3:CC:17:GLN:O	1.88	0.73
3:LL:116:LEU:HD22	3:MB:113:ALA:HB2	1.71	0.73
1:A:3723:C:O2'	3:ML:54:GLN:O	2.06	0.73
2:M:279:ASN:OD1	2:M:280:ARG:N	2.21	0.73
3:CG:11:ILE:HG22	3:CG:17:GLN:O	1.88	0.73
3:HI:114:ALA:HB3	3:II:8:LEU:HD12	1.68	0.73
3:HJ:45:GLU:N	3:HJ:45:GLU:OE1	2.22	0.73
3:IC:60:LYS:H	3:IC:61:ASN:HB3	1.53	0.73
3:IJ:103:GLU:OE2	3:NE:13:LYS:NZ	2.21	0.73
3:JK:85:THR:HG23	3:JK:86:ARG:HG3	1.70	0.73
3:KC:48:VAL:HG22	3:KC:68:ILE:HD12	1.69	0.73
3:MC:27:ASN:OD1	3:MC:30:ASN:N	2.21	0.73
1:A:2243:A:N6	1:A:2248:G:O6	2.21	0.73
1:A:3771:G:O2'	3:LH:47:ARG:NH2	2.21	0.73
3:FJ:20:VAL:HG23	3:FJ:38:ALA:HB2	1.70	0.73
1:A:283:U:O2'	1:A:341:U:OP2	2.06	0.73
1:A:2337:C:O2'	3:HB:57:ARG:NH1	2.21	0.73
3:EA:94:PHE:CD2	3:LM:125:ILE:HD12	2.23	0.73
3:GE:8:LEU:HD12	3:HE:114:ALA:HB3	1.69	0.73
3:HN:60:LYS:H	3:HN:61:ASN:HB3	1.52	0.73
3:IB:121:LEU:O	3:IB:125:ILE:HG22	1.88	0.73
3:KM:114:ALA:HB3	3:MF:8:LEU:HD11	1.70	0.73
3:LH:45:GLU:N	3:LH:45:GLU:OE1	2.21	0.73
3:LL:128:LEU:O	3:MC:24:ARG:NH1	2.21	0.73
1:A:707:A:N6	1:A:726:G:O6	2.22	0.73
3:BF:13:LYS:HZ2	3:IN:103:GLU:HA	1.54	0.73
3:DK:6:VAL:HG12	3:DK:8:LEU:HD21	1.70	0.73
3:DL:44:LEU:HD22	3:DN:98:GLN:O	1.89	0.73
3:EK:116:LEU:HD21	3:FM:112:LEU:HD23	1.69	0.73
3:FI:79:SER:O	3:FI:80:CYS:HB2	1.88	0.73
3:FN:125:ILE:HD12	3:HB:94:PHE:CD2	2.24	0.73
3:HA:37:GLN:NE2	3:HA:38:ALA:O	2.20	0.73
3:IJ:125:ILE:HG21	3:NE:109:ARG:HD3	1.71	0.73
3:IM:8:LEU:HD12	3:JM:114:ALA:HB3	1.70	0.73
3:KC:114:ALA:HB3	3:LC:8:LEU:HD12	1.71	0.73
1:A:401:A:OP2	3:DI:57:ARG:NH1	2.22	0.73
1:A:942:U:O4	3:HM:59:ARG:NH2	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1113:U:O4'	3:NJ:57:ARG:NH2	2.21	0.73
3:CM:11:ILE:HG22	3:CM:17:GLN:O	1.88	0.73
3:DD:4:GLU:OE2	3:DD:5:THR:OG1	2.04	0.73
3:DG:105:ARG:NH2	3:EJ:126:ASP:O	2.20	0.73
3:ED:48:VAL:HG22	3:ED:68:ILE:CD1	2.19	0.73
3:FD:11:ILE:HG22	3:LH:110:THR:OG1	1.89	0.73
3:FH:97:THR:HG21	3:FK:86:ARG:HG2	1.71	0.73
3:LL:60:LYS:H	3:LL:61:ASN:HB3	1.54	0.73
3:B:8:LEU:HD12	3:B:9:GLY:H	1.52	0.73
3:BH:105:ARG:NH2	3:IL:126:ASP:O	2.22	0.73
3:CK:102:ASP:OD1	3:CK:103:GLU:N	2.21	0.73
3:DG:100:SER:OG	3:EJ:86:ARG:NH1	2.21	0.73
3:FB:113:ALA:HB2	3:LJ:116:LEU:CD2	2.19	0.73
3:GJ:123:ASP:OD1	3:GJ:129:ASN:ND2	2.20	0.73
3:JM:60:LYS:H	3:JM:61:ASN:HB3	1.53	0.73
3:KC:101:THR:HG23	3:LC:86:ARG:HH12	1.53	0.73
3:LM:79:SER:O	3:LM:80:CYS:HB2	1.87	0.73
3:LN:52:VAL:HG23	3:LN:64:VAL:HG22	1.71	0.73
1:A:1067:G:N1	1:A:1214:U:O4	2.21	0.73
1:A:1450:U:C4	1:A:1451:U:O4	2.41	0.73
3:CA:64:VAL:HG11	3:DH:125:ILE:CD1	2.18	0.73
3:EB:116:LEU:HD22	3:MJ:113:ALA:HB2	1.70	0.73
3:EJ:82:PRO:O	3:EL:99:TYR:OH	2.04	0.73
3:FI:109:ARG:NH1	3:KE:122:ILE:HA	2.04	0.73
3:GG:101:THR:HG23	3:JE:86:ARG:HH22	1.52	0.73
3:GL:126:ASP:OD2	3:GL:127:GLN:NE2	2.21	0.73
3:IJ:11:ILE:HG22	3:IJ:17:GLN:O	1.88	0.73
3:ME:11:ILE:HG22	3:ME:17:GLN:O	1.87	0.73
3:ND:37:GLN:NE2	3:ND:38:ALA:O	2.21	0.73
1:A:2369:U:N3	1:A:2411:C:O2	2.22	0.73
1:A:2527:U:OP1	3:FA:63:LYS:NZ	2.19	0.73
1:A:2635:A:N3	1:A:2637:U:N3	2.36	0.73
3:BA:56:SER:OG	3:BA:58:ASN:OD1	2.06	0.73
3:BG:41:VAL:O	3:BG:44:LEU:HD23	1.89	0.73
3:BL:24:ARG:NH1	3:HK:128:LEU:O	2.21	0.73
3:DA:114:ALA:CB	3:MM:8:LEU:HD12	2.19	0.73
3:DD:11:ILE:HG22	3:DD:17:GLN:O	1.89	0.73
3:EB:115:LEU:CD2	3:MJ:8:LEU:HD11	2.19	0.73
3:FM:60:LYS:H	3:FM:61:ASN:HB3	1.53	0.73
3:HL:65:GLN:OE1	3:HL:93:THR:HG22	1.89	0.73
3:IH:100:SER:OG	3:IH:105:ARG:NH1	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:II:54:GLN:N	3:II:54:GLN:OE1	2.22	0.73
3:JD:11:ILE:HG23	3:JH:110:THR:HG23	1.70	0.73
3:LA:132:TYR:OH	3:MF:2:LYS:NZ	2.21	0.73
3:LI:87:GLN:NE2	3:LI:88:ALA:O	2.22	0.73
3:ME:109:ARG:CZ	3:NH:122:ILE:HD12	2.19	0.73
3:MK:48:VAL:HG22	3:MK:68:ILE:HD12	1.69	0.73
1:A:1960:A:N6	3:JK:54:GLN:O	2.22	0.72
1:A:3793:U:O2	3:KH:58:ASN:ND2	2.22	0.72
3:CC:103:GLU:HA	3:DF:13:LYS:CE	2.19	0.72
3:DA:101:THR:HG23	3:MM:86:ARG:HH22	1.51	0.72
3:DN:3:LEU:HD12	3:DN:35:LEU:HD11	1.71	0.72
3:GI:2:LYS:NZ	3:JE:132:TYR:OXT	2.22	0.72
3:LA:86:ARG:HH12	3:MD:99:TYR:C	1.92	0.72
3:LF:102:ASP:OD1	3:LF:103:GLU:N	2.21	0.72
3:LJ:48:VAL:HG22	3:LJ:68:ILE:CD1	2.19	0.72
3:LL:8:LEU:HD21	3:MB:115:LEU:HD22	1.71	0.72
3:LL:109:ARG:NH1	3:MB:122:ILE:O	2.22	0.72
3:MK:74:CYS:SG	3:MK:85:THR:OG1	2.43	0.72
3:MN:11:ILE:HG22	3:MN:17:GLN:C	2.10	0.72
3:NE:32:VAL:HG22	3:NE:51:SER:OG	1.89	0.72
1:A:1856:U:O2'	1:A:2193:A:N1	2.21	0.72
1:A:1897:G:OP2	1:A:1899:C:N4	2.21	0.72
1:A:3581:U:N3	1:A:4168:A:OP1	2.22	0.72
1:A:3760:G:N1	1:A:3761:U:O4	2.23	0.72
3:BG:126:ASP:O	3:IA:105:ARG:NH1	2.22	0.72
3:BI:125:ILE:CG2	3:HM:64:VAL:HG11	2.19	0.72
3:CL:109:ARG:NH2	3:HH:122:ILE:HD13	2.04	0.72
3:DA:114:ALA:HB3	3:MM:8:LEU:HD12	1.71	0.72
3:FH:65:GLN:N	3:FH:65:GLN:OE1	2.22	0.72
3:IK:101:THR:OG1	3:IK:103:GLU:OE1	2.07	0.72
3:JF:129:ASN:OD1	3:JM:25:GLY:N	2.21	0.72
3:KN:65:GLN:NE2	3:KN:92:VAL:O	2.22	0.72
3:LM:42:PRO:O	3:LM:47:ARG:NH2	2.21	0.72
1:A:622:C:N3	1:A:644:G:N1	2.37	0.72
3:BH:114:ALA:HB3	3:IL:8:LEU:HD12	1.70	0.72
3:DJ:11:ILE:HG22	3:DJ:17:GLN:O	1.90	0.72
3:GM:37:GLN:OE1	3:GM:39:GLY:N	2.21	0.72
3:JE:125:ILE:O	3:JE:128:LEU:HD12	1.89	0.72
3:LF:22:ASN:OD1	3:LF:36:SER:OG	2.06	0.72
3:LL:114:ALA:HB3	3:MB:8:LEU:HD22	1.69	0.72
3:ML:6:VAL:HG12	3:ML:8:LEU:CD2	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:70:ASN:ND2	3:HM:104:GLU:OE1	2.21	0.72
3:CN:13:LYS:N	3:CN:13:LYS:HD2	2.04	0.72
3:EI:125:ILE:HD11	3:GA:109:ARG:HG2	1.71	0.72
3:FE:103:GLU:HA	3:KI:13:LYS:NZ	2.04	0.72
3:FF:46:LYS:NZ	3:LF:111:GLU:OE2	2.22	0.72
3:GK:24:ARG:O	3:GN:129:ASN:ND2	2.22	0.72
3:GL:27:ASN:OD1	3:GL:29:THR:N	2.22	0.72
3:HN:111:GLU:O	3:HN:115:LEU:HD23	1.89	0.72
3:IA:24:ARG:NH1	3:ID:129:ASN:OD1	2.22	0.72
3:ID:97:THR:N	3:ID:100:SER:HG	1.88	0.72
3:IF:12:GLY:N	3:NI:110:THR:HG21	2.04	0.72
3:JD:11:ILE:HG23	3:JH:110:THR:CG2	2.19	0.72
3:KE:58:ASN:O	3:KE:59:ARG:NH2	2.22	0.72
3:NB:114:ALA:CB	3:NF:8:LEU:HD12	2.18	0.72
1:A:1920:G:O2'	3:GI:58:ASN:ND2	2.23	0.72
1:A:2104:U:O2'	3:JD:63:LYS:NZ	2.22	0.72
1:A:2491:A:OP2	1:A:2527:U:O2'	2.06	0.72
3:BC:13:LYS:HE2	3:ND:103:GLU:HA	1.70	0.72
3:CH:86:ARG:HH22	3:HL:101:THR:HG23	1.53	0.72
3:EB:114:ALA:CB	3:MJ:8:LEU:HD22	2.19	0.72
3:EC:127:GLN:O	3:LI:24:ARG:NH1	2.22	0.72
3:EE:97:THR:N	3:EE:100:SER:OG	2.23	0.72
3:EF:107:PHE:CZ	3:FA:19:LEU:HD11	2.24	0.72
3:EL:14:ASP:OD1	3:EL:16:LYS:N	2.22	0.72
3:GJ:26:VAL:HG12	3:GJ:33:ALA:HA	1.70	0.72
3:LB:23:PRO:HA	3:LB:35:LEU:HD23	1.71	0.72
3:ME:103:GLU:OE2	3:NH:13:LYS:HE3	1.89	0.72
3:NB:8:LEU:HD22	3:NF:114:ALA:HB1	1.72	0.72
1:A:186:G:H22	1:A:265:G:P	2.11	0.72
1:A:2544:G:N2	1:A:2567:A:H62	1.88	0.72
1:A:2662:C:O2	1:A:2663:U:N3	2.21	0.72
1:A:2686:G:O6	1:A:2764:U:C2	2.42	0.72
3:DD:11:ILE:HG22	3:DD:17:GLN:C	2.10	0.72
3:EI:52:VAL:HG12	3:EI:64:VAL:CG2	2.18	0.72
3:FH:103:GLU:HA	3:FK:13:LYS:CE	2.19	0.72
3:FN:116:LEU:O	3:HB:109:ARG:NH2	2.22	0.72
3:GC:119:PRO:HA	3:GC:122:ILE:HD12	1.72	0.72
1:A:1832:U:OP2	3:JA:59:ARG:NH2	2.22	0.72
3:BH:119:PRO:HA	3:BH:122:ILE:HD12	1.71	0.72
3:GF:45:GLU:N	3:GF:45:GLU:OE1	2.23	0.72
3:GG:60:LYS:HB3	3:GG:61:ASN:OD1	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:127:GLN:OE1	3:HB:129:ASN:ND2	2.22	0.72
3:JD:8:LEU:HD11	3:JH:114:ALA:HB3	1.71	0.72
3:JK:32:VAL:HG22	3:JK:51:SER:OG	1.89	0.72
3:JM:27:ASN:OD1	3:JM:29:THR:OG1	2.06	0.72
3:KJ:132:TYR:O	3:LE:2:LYS:NZ	2.21	0.72
3:MH:11:ILE:HG23	3:MH:17:GLN:HG3	1.70	0.72
1:A:718:G:OP1	3:LC:27:ASN:ND2	2.22	0.72
1:A:1323:A:O2'	1:A:1324:A:OP1	2.05	0.72
1:A:2419:U:OP2	1:A:4069:C:O2'	2.07	0.72
3:BG:92:VAL:HG22	3:IA:92:VAL:HG22	1.72	0.72
3:CN:97:THR:O	3:CN:100:SER:OG	2.04	0.72
3:DA:62:TYR:CD2	3:MM:128:LEU:HD13	2.24	0.72
3:DG:114:ALA:HB3	3:EJ:8:LEU:HD12	1.70	0.72
3:DL:62:TYR:CE2	3:MN:128:LEU:HD23	2.25	0.72
3:DM:104:GLU:OE1	3:EM:72:THR:OG1	2.07	0.72
3:FC:52:VAL:HG13	3:FC:62:TYR:OH	1.88	0.72
3:FL:125:ILE:CD1	3:HD:64:VAL:HG11	2.20	0.72
3:LE:11:ILE:HG22	3:LE:17:GLN:O	1.89	0.72
3:NH:23:PRO:HA	3:NH:35:LEU:HD13	1.72	0.72
1:A:3630:A:O2'	1:A:3631:A:O4'	2.05	0.72
1:A:4191:G:N3	1:A:4193:A:N7	2.38	0.72
3:BA:72:THR:OG1	3:MK:104:GLU:OE2	2.07	0.72
3:BG:114:ALA:HB3	3:IA:8:LEU:HD12	1.72	0.72
3:DL:86:ARG:HH12	3:MN:101:THR:HG23	1.53	0.72
3:FF:109:ARG:NE	3:FF:110:THR:HG23	2.05	0.72
3:GD:110:THR:OG1	3:KF:11:ILE:HG23	1.89	0.72
3:GG:86:ARG:HH12	3:JE:101:THR:HG23	1.55	0.72
3:GH:126:ASP:OD1	3:KB:106:ALA:N	2.23	0.72
3:GJ:94:PHE:CD2	3:GN:125:ILE:HD12	2.24	0.72
3:HA:112:LEU:O	3:HA:116:LEU:HD23	1.90	0.72
3:HI:21:LEU:HD22	3:HI:35:LEU:HB3	1.70	0.72
3:IG:55:PRO:HD3	3:IG:62:TYR:CE1	2.25	0.72
3:LL:1:ALA:N	3:MB:123:ASP:OD2	2.19	0.72
3:NB:116:LEU:O	3:NF:109:ARG:NH1	2.23	0.72
3:NI:102:ASP:OD2	3:NI:103:GLU:N	2.23	0.72
1:A:807:A:N6	1:A:2459:U:O2	2.23	0.72
1:A:3629:G:N1	3:ED:89:TYR:OH	2.22	0.72
2:M:159:TYR:HE2	2:M:163:LEU:HD11	1.54	0.72
3:BC:102:ASP:OD1	3:BC:103:GLU:N	2.23	0.72
3:BG:125:ILE:HD12	3:IA:94:PHE:CD1	2.25	0.72
3:FG:19:LEU:HD11	3:KG:107:PHE:CZ	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FH:125:ILE:CD1	3:FK:64:VAL:HG11	2.20	0.72
3:GG:105:ARG:NE	3:JE:128:LEU:HD11	2.03	0.72
3:GJ:126:ASP:O	3:GN:105:ARG:NH2	2.23	0.72
3:GL:48:VAL:HG12	3:GL:68:ILE:HG13	1.72	0.72
3:HD:4:GLU:OE2	3:HD:5:THR:OG1	2.07	0.72
3:HI:102:ASP:O	3:II:13:LYS:NZ	2.21	0.72
3:IH:103:GLU:HA	3:NG:13:LYS:CE	2.20	0.72
3:KH:109:ARG:CG	3:KL:116:LEU:HD11	2.20	0.72
3:LK:11:ILE:HG22	3:LK:17:GLN:O	1.90	0.72
1:A:1246:G:N2	1:A:1246:G:OP1	2.23	0.71
1:A:2617:A:OP2	1:A:2650:A:N6	2.22	0.71
3:BB:86:ARG:NH2	3:MA:99:TYR:HB3	2.05	0.71
3:CF:101:THR:N	3:CF:104:GLU:OE1	2.23	0.71
3:FL:68:ILE:HG21	3:HD:111:GLU:OE2	1.90	0.71
3:HN:102:ASP:OD1	3:HN:103:GLU:N	2.23	0.71
3:ID:107:PHE:O	3:ID:111:GLU:OE1	2.08	0.71
3:IF:64:VAL:HG11	3:NI:125:ILE:HD13	1.71	0.71
3:IG:86:ARG:NH1	3:JK:81:ASP:OD2	2.23	0.71
3:IG:92:VAL:HG22	3:JJ:92:VAL:HG22	1.71	0.71
3:JD:24:ARG:NH1	3:KA:127:GLN:O	2.22	0.71
3:MC:116:LEU:HD21	3:NJ:112:LEU:HD23	1.72	0.71
3:MM:99:TYR:OH	3:MN:84:VAL:N	2.22	0.71
1:A:1367:U:OP1	3:CD:61:ASN:ND2	2.23	0.71
1:A:3301:A:O3'	3:JG:89:TYR:OH	2.08	0.71
1:A:3609:G:N1	1:A:3645:U:C2	2.57	0.71
3:CH:12:GLY:N	3:HL:110:THR:HG21	2.05	0.71
3:DA:109:ARG:HH12	3:MM:122:ILE:HG22	1.55	0.71
3:FH:104:GLU:HA	3:FH:107:PHE:CE1	2.25	0.71
3:GI:11:ILE:HG22	3:GI:17:GLN:O	1.90	0.71
3:HN:104:GLU:OE2	3:ID:86:ARG:NH2	2.24	0.71
3:KB:11:ILE:HG22	3:KB:17:GLN:O	1.89	0.71
3:NB:125:ILE:HD13	3:NF:94:PHE:HE2	1.54	0.71
1:A:1077:U:O2'	1:A:1078:C:O4'	2.06	0.71
1:A:2686:G:H1	1:A:2764:U:HO2'	1.35	0.71
1:A:3665:A:N7	3:LH:61:ASN:ND2	2.38	0.71
3:BB:105:ARG:NE	3:MA:128:LEU:HD11	2.05	0.71
3:CB:66:VAL:HG21	3:HC:121:LEU:HD21	1.71	0.71
3:GA:4:GLU:N	3:GA:4:GLU:OE1	2.23	0.71
3:GF:11:ILE:HG22	3:GF:17:GLN:O	1.89	0.71
3:IH:62:TYR:CD2	3:NG:128:LEU:HD23	2.25	0.71
3:JE:27:ASN:OD1	3:JE:29:THR:OG1	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JG:54:GLN:N	3:JG:54:GLN:OE1	2.24	0.71
3:KH:132:TYR:HE1	3:KL:26:VAL:HG11	1.55	0.71
3:KN:27:ASN:OD1	3:KN:29:THR:N	2.22	0.71
3:NF:11:ILE:HG22	3:NF:17:GLN:O	1.89	0.71
1:A:238:C:N4	1:A:239:G:O6	2.23	0.71
1:A:1130:C:N4	1:A:1152:A:H61	1.88	0.71
1:A:1857:U:O4	1:A:2018:C:O2'	2.08	0.71
3:BA:30:ASN:OD1	3:BA:32:VAL:HG23	1.91	0.71
3:BA:91:ASP:OD1	3:MK:93:THR:OG1	2.06	0.71
3:BJ:116:LEU:HD12	3:BN:109:ARG:HG3	1.71	0.71
3:CC:94:PHE:HD2	3:DF:125:ILE:HD12	1.54	0.71
3:CH:25:GLY:N	3:HJ:129:ASN:OD1	2.22	0.71
3:DG:102:ASP:OD1	3:DG:103:GLU:N	2.24	0.71
3:EG:27:ASN:CG	3:EG:29:THR:HG1	1.94	0.71
3:GI:3:LEU:HD21	3:JC:131:ALA:HB1	1.72	0.71
3:GK:86:ARG:NH2	3:JA:99:TYR:HB3	2.05	0.71
3:IB:8:LEU:HD22	3:IK:114:ALA:CB	2.20	0.71
3:IH:94:PHE:CD2	3:NG:125:ILE:HD12	2.25	0.71
3:JK:26:VAL:HG11	3:KN:132:TYR:HE1	1.55	0.71
3:LF:44:LEU:HD22	3:LH:62:TYR:OH	1.90	0.71
3:MD:102:ASP:OD1	3:MD:103:GLU:N	2.24	0.71
3:ME:8:LEU:HD12	3:NH:114:ALA:CB	2.20	0.71
1:A:1328:U:O4	1:A:1594:C:C4	2.43	0.71
1:A:3585:A:H62	3:LH:59:ARG:HD3	1.53	0.71
1:A:3825:C:O2'	1:A:3826:C:OP1	2.09	0.71
3:BD:100:SER:HA	3:JB:86:ARG:HH22	1.54	0.71
3:BF:102:ASP:OD1	3:BF:103:GLU:N	2.23	0.71
3:CM:114:ALA:HB1	3:NA:8:LEU:HD11	1.73	0.71
3:DK:3:LEU:HD11	3:DK:35:LEU:HD11	1.70	0.71
3:GL:116:LEU:HD11	3:HG:112:LEU:CD2	2.21	0.71
3:JJ:20:VAL:HG23	3:JJ:38:ALA:HB2	1.73	0.71
3:KK:111:GLU:O	3:KK:115:LEU:HD23	1.90	0.71
3:KM:100:SER:N	3:MF:86:ARG:HH22	1.89	0.71
3:MC:131:ALA:HB1	3:NJ:3:LEU:HD21	1.72	0.71
3:MF:23:PRO:HA	3:MF:35:LEU:HD23	1.72	0.71
3:MM:60:LYS:H	3:MM:61:ASN:HB3	1.55	0.71
3:NA:48:VAL:HG22	3:NA:68:ILE:HD12	1.72	0.71
3:ND:11:ILE:HG22	3:ND:17:GLN:O	1.91	0.71
1:A:2489:U:H2'	1:A:2585:G:H22	1.55	0.71
3:BF:121:LEU:O	3:BF:125:ILE:HG22	1.90	0.71
3:BJ:132:TYR:OH	3:BN:26:VAL:HG21	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:19:LEU:HD12	3:HL:111:GLU:OE1	1.89	0.71
3:DG:11:ILE:HG22	3:DG:17:GLN:O	1.91	0.71
3:EL:37:GLN:NE2	3:EL:38:ALA:O	2.23	0.71
3:GA:56:SER:OG	3:GA:59:ARG:NE	2.20	0.71
3:GD:48:VAL:HG22	3:GD:68:ILE:HD12	1.72	0.71
3:HH:54:GLN:O	3:HH:59:ARG:NE	2.23	0.71
3:IH:24:ARG:NH1	3:JJ:128:LEU:O	2.24	0.71
3:KC:106:ALA:N	3:LC:126:ASP:OD1	2.24	0.71
3:KH:72:THR:OG1	3:KL:104:GLU:OE2	2.06	0.71
3:KM:92:VAL:CG2	3:MF:92:VAL:HG22	2.19	0.71
3:NI:11:ILE:HG22	3:NI:17:GLN:O	1.90	0.71
1:A:2289:A:O2'	1:A:2290:C:O4'	2.08	0.71
3:CE:125:ILE:O	3:CE:128:LEU:HD12	1.90	0.71
3:CH:19:LEU:HD11	3:HL:107:PHE:CZ	2.26	0.71
3:CN:67:LYS:NZ	3:CN:91:ASP:OD2	2.22	0.71
3:DC:122:ILE:HG22	3:EN:109:ARG:CZ	2.20	0.71
3:DG:103:GLU:CA	3:EJ:13:LYS:HZ1	2.02	0.71
3:FI:125:ILE:HD13	3:KE:94:PHE:HE2	1.55	0.71
3:CB:32:VAL:HG22	3:CB:51:SER:OG	1.90	0.71
3:DG:8:LEU:HD12	3:EJ:114:ALA:HB3	1.72	0.71
3:DH:127:GLN:N	3:DH:127:GLN:OE1	2.24	0.71
3:FE:60:LYS:H	3:FE:61:ASN:HB3	1.56	0.71
3:FL:2:LYS:NZ	3:HD:132:TYR:OXT	2.23	0.71
3:GA:56:SER:HG	3:GA:59:ARG:HE	1.38	0.71
3:GA:68:ILE:HG22	3:GA:90:ALA:HB3	1.73	0.71
3:GL:8:LEU:CD1	3:HG:115:LEU:HD22	2.20	0.71
3:JD:60:LYS:H	3:JD:61:ASN:HB3	1.55	0.71
3:ME:11:ILE:HG22	3:ME:17:GLN:C	2.11	0.71
1:A:1080:U:OP2	3:JL:61:ASN:ND2	2.24	0.71
1:A:3348:U:O2'	3:MD:30:ASN:ND2	2.22	0.71
1:A:4135:C:H4'	3:KE:59:ARG:CZ	2.21	0.71
3:BD:93:THR:OG1	3:JB:91:ASP:OD1	2.07	0.71
3:BM:114:ALA:HB3	3:DJ:8:LEU:HD12	1.72	0.71
3:DA:109:ARG:HG2	3:MM:116:LEU:HD11	1.73	0.71
3:EA:127:GLN:NE2	3:LM:102:ASP:OD2	2.23	0.71
3:GE:11:ILE:HG22	3:GE:17:GLN:O	1.90	0.71
3:GG:27:ASN:CG	3:GG:29:THR:HG1	1.94	0.71
3:GH:86:ARG:NH1	3:KB:101:THR:HG23	2.06	0.71
3:GJ:92:VAL:HG22	3:GN:92:VAL:HG22	1.73	0.71
3:HK:123:ASP:OD2	3:HK:129:ASN:ND2	2.24	0.71
3:HL:11:ILE:HG22	3:HL:17:GLN:O	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:II:60:LYS:HB2	3:II:61:ASN:HB2	1.71	0.71
3:JB:48:VAL:HG22	3:JB:68:ILE:HD12	1.73	0.71
3:KH:8:LEU:HD12	3:KL:114:ALA:CB	2.21	0.71
3:KJ:2:LYS:NZ	3:KL:132:TYR:OXT	2.24	0.71
1:A:727:U:O2'	1:A:728:U:O4'	2.09	0.71
1:A:3288:A:N6	1:A:3373:G:OP2	2.24	0.71
1:A:3425:A:N3	3:GF:30:ASN:ND2	2.38	0.71
3:BB:97:THR:O	3:BB:100:SER:OG	2.06	0.71
3:BL:109:ARG:NH2	3:CG:126:ASP:OD2	2.22	0.71
3:CF:11:ILE:HG22	3:CF:17:GLN:C	2.11	0.71
3:DH:11:ILE:HG22	3:DH:17:GLN:O	1.91	0.71
3:DM:97:THR:HG23	3:EM:86:ARG:NH2	2.06	0.71
3:FI:14:ASP:OD2	3:FI:16:LYS:NZ	2.23	0.71
3:HI:11:ILE:HG22	3:HI:17:GLN:O	1.91	0.71
3:JG:102:ASP:OD1	3:JG:103:GLU:N	2.23	0.71
1:A:1710:A:OP2	3:JM:59:ARG:NH2	2.24	0.70
3:BF:8:LEU:HD21	3:IN:114:ALA:HB3	1.72	0.70
3:BF:81:ASP:OD1	3:CE:86:ARG:NH2	2.23	0.70
3:BJ:92:VAL:HG22	3:BN:92:VAL:HG22	1.71	0.70
3:CB:64:VAL:HG11	3:HC:125:ILE:CD1	2.21	0.70
3:CI:26:VAL:HG11	3:DI:132:TYR:CE1	2.26	0.70
3:CL:11:ILE:HG22	3:CL:17:GLN:O	1.91	0.70
3:DB:11:ILE:HG23	3:DB:17:GLN:HB2	1.73	0.70
3:DM:111:GLU:O	3:DM:115:LEU:HD23	1.91	0.70
3:EC:105:ARG:CZ	3:LK:128:LEU:HD12	2.20	0.70
3:EF:111:GLU:O	3:EF:115:LEU:HD23	1.91	0.70
3:EG:27:ASN:OD1	3:EG:29:THR:N	2.24	0.70
3:EH:26:VAL:O	3:GA:132:TYR:OH	2.07	0.70
3:IC:8:LEU:HD12	3:JN:114:ALA:HB3	1.73	0.70
3:IF:102:ASP:OD2	3:IF:103:GLU:N	2.24	0.70
3:IM:26:VAL:HG11	3:JM:132:TYR:HE1	1.56	0.70
3:JK:92:VAL:HG22	3:KN:92:VAL:HG22	1.72	0.70
3:KM:45:GLU:N	3:KM:45:GLU:OE1	2.24	0.70
3:LC:60:LYS:H	3:LC:61:ASN:HB3	1.54	0.70
3:MD:37:GLN:OE1	3:MD:39:GLY:N	2.23	0.70
3:MI:6:VAL:HG12	3:MI:8:LEU:HD21	1.73	0.70
3:NB:132:TYR:CE1	3:NF:26:VAL:HG11	2.24	0.70
1:A:1500:G:O4'	3:BM:57:ARG:NH1	2.22	0.70
1:A:2393:A:N6	3:FJ:55:PRO:O	2.22	0.70
3:BG:122:ILE:HG22	3:IA:109:ARG:NH1	2.06	0.70
3:BG:125:ILE:HD12	3:IA:94:PHE:CE1	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:3:LEU:HD21	3:HJ:131:ALA:HB1	1.74	0.70
3:FC:125:ILE:HG13	3:GB:64:VAL:HG11	1.73	0.70
3:FJ:97:THR:OG1	3:HF:86:ARG:NH2	2.23	0.70
3:GK:116:LEU:O	3:JA:109:ARG:NH1	2.24	0.70
3:IE:86:ARG:NH2	3:JL:99:TYR:O	2.24	0.70
3:IJ:55:PRO:HD3	3:IJ:62:TYR:CD2	2.26	0.70
3:IM:79:SER:O	3:IM:80:CYS:HB2	1.92	0.70
3:JI:119:PRO:HA	3:JI:122:ILE:HD12	1.72	0.70
3:JM:5:THR:HG22	3:JM:22:ASN:ND2	2.06	0.70
3:LG:11:ILE:HG22	3:LG:17:GLN:O	1.89	0.70
3:MC:92:VAL:HG22	3:NJ:92:VAL:HG22	1.73	0.70
3:ME:22:ASN:O	3:ME:35:LEU:HD12	1.90	0.70
1:A:2328:G:H22	1:A:2342:G:H1	1.37	0.70
3:DC:109:ARG:HH12	3:EN:122:ILE:HD13	1.56	0.70
3:FK:11:ILE:CD1	3:FK:19:LEU:HD23	2.21	0.70
3:FN:110:THR:HB	3:HB:11:ILE:HD12	1.71	0.70
3:GD:8:LEU:HD11	3:KF:115:LEU:HD22	1.73	0.70
3:IH:3:LEU:HD21	3:NG:131:ALA:HB1	1.71	0.70
3:JF:99:TYR:O	3:KA:86:ARG:NH2	2.23	0.70
1:A:528:G:N2	1:A:529:A:H62	1.90	0.70
1:A:713:U:O3’	3:KC:59:ARG:NH1	2.24	0.70
1:A:860:C:O2’	1:A:861:A:O5’	2.09	0.70
1:A:3309:A:O2’	1:A:3310:U:O4’	2.08	0.70
3:BE:122:ILE:HD13	3:CE:109:ARG:CZ	2.22	0.70
3:CF:86:ARG:HH22	3:GM:101:THR:HG23	1.57	0.70
3:DA:62:TYR:HD2	3:MM:128:LEU:HD13	1.56	0.70
3:DG:107:PHE:CZ	3:EJ:19:LEU:HD11	2.26	0.70
3:DM:126:ASP:OD2	3:DM:127:GLN:NE2	2.24	0.70
3:FN:129:ASN:OD1	3:HC:24:ARG:NH1	2.24	0.70
3:GE:11:ILE:HD12	3:HE:110:THR:OG1	1.91	0.70
3:GF:109:ARG:NE	3:GF:110:THR:HG23	2.06	0.70
3:GK:65:GLN:OE1	3:GK:67:LYS:NZ	2.21	0.70
3:GL:116:LEU:HD11	3:HG:112:LEU:HD22	1.73	0.70
3:HI:107:PHE:O	3:HI:111:GLU:OE1	2.10	0.70
3:JN:109:ARG:HG3	3:JN:110:THR:N	2.05	0.70
3:KD:11:ILE:HG22	3:KD:17:GLN:O	1.92	0.70
3:KL:11:ILE:HG22	3:KL:17:GLN:C	2.12	0.70
3:MD:60:LYS:HB2	3:MD:61:ASN:HB2	1.73	0.70
1:A:727:U:HO2’	1:A:728:U:H6	1.37	0.70
1:A:2381:U:O3’	3:FK:60:LYS:NZ	2.24	0.70
3:BF:115:LEU:CD2	3:IN:48:VAL:HG11	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BG:8:LEU:HD12	3:IA:114:ALA:CB	2.21	0.70
3:CI:99:TYR:O	3:DI:86:ARG:NH1	2.25	0.70
3:EI:109:ARG:HB2	3:GA:116:LEU:HD11	1.72	0.70
3:FB:86:ARG:NH2	3:LJ:104:GLU:OE2	2.22	0.70
3:FH:112:LEU:CD2	3:FK:116:LEU:HD13	2.22	0.70
3:GL:109:ARG:HG2	3:HG:116:LEU:HD21	1.72	0.70
3:IM:26:VAL:HG11	3:JM:132:TYR:CE1	2.25	0.70
3:JG:25:GLY:HA3	3:LB:130:PRO:HD2	1.72	0.70
3:KH:112:LEU:O	3:KH:116:LEU:HD23	1.91	0.70
3:LL:65:GLN:CD	3:LL:93:THR:HG1	1.95	0.70
1:A:186:G:N1	1:A:264:C:O3'	2.24	0.70
1:A:1945:A:O2'	1:A:1946:U:O5'	2.10	0.70
1:A:2119:A:N3	3:GG:57:ARG:NH2	2.40	0.70
3:EB:113:ALA:HB2	3:MJ:116:LEU:HD22	1.72	0.70
3:FG:60:LYS:HG3	3:FG:98:GLN:HB3	1.72	0.70
3:FL:114:ALA:CB	3:HD:8:LEU:HD12	2.22	0.70
3:FN:115:LEU:HD22	3:HB:8:LEU:HD21	1.74	0.70
3:GJ:85:THR:HG23	3:GJ:86:ARG:HG2	1.73	0.70
3:GK:11:ILE:HG22	3:GK:17:GLN:O	1.90	0.70
3:KF:11:ILE:O	3:KF:17:GLN:NE2	2.24	0.70
3:LL:6:VAL:HG12	3:LL:8:LEU:HD11	1.73	0.70
1:A:491:A:H61	1:A:506:C:H42	1.37	0.70
1:A:2704:A:OP1	3:CN:61:ASN:ND2	2.23	0.70
1:A:3044:U:OP1	3:BA:57:ARG:NH2	2.24	0.70
1:A:3492:A:OP1	3:KM:63:LYS:NZ	2.23	0.70
3:BM:44:LEU:HD13	3:CA:98:GLN:NE2	2.06	0.70
3:CF:121:LEU:O	3:GM:109:ARG:NH2	2.25	0.70
3:CH:11:ILE:CD1	3:HL:110:THR:HG23	2.21	0.70
3:DB:11:ILE:HG22	3:DB:17:GLN:O	1.92	0.70
3:DN:111:GLU:OE1	3:ML:68:ILE:HG21	1.92	0.70
3:EH:54:GLN:N	3:EH:54:GLN:OE1	2.24	0.70
3:FN:79:SER:O	3:FN:80:CYS:HB2	1.91	0.70
3:GJ:132:TYR:CZ	3:GN:26:VAL:HG11	2.26	0.70
3:GK:68:ILE:HG21	3:JA:111:GLU:OE2	1.92	0.70
3:HJ:107:PHE:O	3:HJ:111:GLU:OE1	2.08	0.70
3:ID:102:ASP:OD2	3:ID:103:GLU:N	2.23	0.70
3:MC:64:VAL:HG11	3:NJ:125:ILE:CD1	2.22	0.70
3:MI:96:PHE:CE2	3:MI:105:ARG:HG2	2.27	0.70
1:A:176:A:O2'	1:A:317:A:N1	2.25	0.70
1:A:1010:C:O2	3:IH:57:ARG:NH1	2.24	0.70
1:A:4157:U:H2'	1:A:4159:A:H62	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:60:LYS:H	3:BD:61:ASN:HB3	1.56	0.70
3:CD:3:LEU:HD21	3:HA:131:ALA:HB1	1.74	0.70
3:DM:114:ALA:HB3	3:EM:8:LEU:HD12	1.74	0.70
3:EB:8:LEU:HD12	3:MJ:114:ALA:CB	2.22	0.70
3:ED:60:LYS:H	3:ED:61:ASN:HB3	1.56	0.70
3:FE:107:PHE:O	3:FE:111:GLU:OE1	2.09	0.70
3:GE:125:ILE:O	3:GE:128:LEU:HD12	1.91	0.70
3:IG:114:ALA:HB3	3:JJ:8:LEU:HD12	1.73	0.70
3:KC:8:LEU:HD12	3:LC:114:ALA:HB3	1.73	0.70
3:KM:119:PRO:HA	3:KM:122:ILE:HD12	1.74	0.70
3:LA:86:ARG:NH2	3:MD:100:SER:OG	2.25	0.70
3:MN:4:GLU:OE2	3:MN:5:THR:OG1	2.09	0.70
1:A:2685:A:O2'	1:A:2686:G:OP1	2.10	0.70
3:BD:114:ALA:HB3	3:JB:8:LEU:HD12	1.72	0.70
3:GA:24:ARG:NH1	3:HB:128:LEU:O	2.25	0.70
3:GK:62:TYR:CG	3:JA:128:LEU:HD21	2.27	0.70
3:ID:84:VAL:HG22	3:ID:87:GLN:OE1	1.90	0.70
3:JA:24:ARG:NE	3:JA:36:SER:OG	2.24	0.70
3:JN:11:ILE:HG22	3:JN:17:GLN:O	1.91	0.70
3:KC:8:LEU:HD12	3:LC:114:ALA:CB	2.22	0.70
1:A:693:U:O4	1:A:694:A:N6	2.24	0.70
1:A:3674:U:O4	1:A:3770:C:N4	2.25	0.70
3:CH:62:TYR:CD2	3:HL:128:LEU:HD21	2.26	0.70
3:DN:8:LEU:HD22	3:ML:114:ALA:HB1	1.74	0.70
3:DN:86:ARG:NH1	3:ML:99:TYR:O	2.25	0.70
3:EA:128:LEU:O	3:LN:24:ARG:NH1	2.24	0.70
3:EC:109:ARG:HD3	3:LK:125:ILE:HG21	1.73	0.70
3:GG:13:LYS:NZ	3:JE:106:ALA:HB3	2.05	0.70
3:GL:11:ILE:HG22	3:GL:17:GLN:O	1.92	0.70
3:HF:11:ILE:HG22	3:HF:17:GLN:O	1.90	0.70
3:IF:68:ILE:HD11	3:NI:111:GLU:CD	2.12	0.70
3:IJ:112:LEU:HD21	3:NE:68:ILE:HG21	1.72	0.70
3:LM:11:ILE:HG22	3:LM:17:GLN:C	2.13	0.70
1:A:1127:A:O2'	1:A:1128:A:O4'	2.08	0.69
1:A:2684:U:O4	3:DC:47:ARG:NH2	2.25	0.69
1:A:3557:U:O2'	1:A:3558:U:OP1	2.10	0.69
2:M:281:GLU:OE2	2:M:340:ASN:ND2	2.25	0.69
3:CK:24:ARG:NH2	3:NA:127:GLN:O	2.23	0.69
3:ED:30:ASN:OD1	3:ED:32:VAL:HG23	1.92	0.69
3:FC:13:LYS:NZ	3:GB:102:ASP:OD2	2.21	0.69
3:FC:52:VAL:HG12	3:FC:54:GLN:OE1	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FC:125:ILE:CG1	3:GB:64:VAL:HG11	2.22	0.69
3:GK:101:THR:HG23	3:JA:86:ARG:NH2	2.05	0.69
3:IC:119:PRO:O	3:IC:122:ILE:HG12	1.92	0.69
3:IL:27:ASN:OD1	3:IL:29:THR:OG1	2.05	0.69
3:NA:45:GLU:N	3:NA:45:GLU:OE1	2.25	0.69
3:BB:11:ILE:HG22	3:BB:17:GLN:C	2.12	0.69
3:CI:11:ILE:HG22	3:CI:17:GLN:O	1.92	0.69
3:DA:111:GLU:O	3:DA:115:LEU:HD23	1.92	0.69
3:EL:52:VAL:HG23	3:EL:64:VAL:HG22	1.72	0.69
3:FB:115:LEU:CD2	3:LJ:8:LEU:HD11	2.22	0.69
3:FG:24:ARG:NE	3:FG:36:SER:OG	2.24	0.69
3:FH:60:LYS:H	3:FH:61:ASN:HB3	1.57	0.69
3:GI:13:LYS:NZ	3:JC:106:ALA:HB3	2.07	0.69
3:HK:107:PHE:O	3:HK:111:GLU:OE1	2.09	0.69
3:IB:115:LEU:HD22	3:IK:8:LEU:CD1	2.22	0.69
3:IL:60:LYS:H	3:IL:61:ASN:HB3	1.57	0.69
3:MB:79:SER:O	3:MB:80:CYS:HB2	1.92	0.69
1:A:225:U:N3	1:A:228:U:O4	2.23	0.69
1:A:308:C:O3'	3:CK:59:ARG:NH2	2.24	0.69
1:A:1457:A:N7	3:EK:57:ARG:NH2	2.40	0.69
1:A:3583:A:O2'	1:A:3585:A:OP1	2.10	0.69
3:CK:109:ARG:HD3	3:NC:125:ILE:HD11	1.72	0.69
3:DA:2:LYS:NZ	3:MM:132:TYR:O	2.25	0.69
3:FB:115:LEU:CD1	3:LJ:68:ILE:HD11	2.22	0.69
3:KL:58:ASN:O	3:KL:59:ARG:NH1	2.24	0.69
3:KN:52:VAL:HG12	3:KN:64:VAL:HG22	1.75	0.69
1:A:3714:C:O2'	1:A:3715:C:O4'	2.10	0.69
3:CA:102:ASP:OD1	3:CA:103:GLU:N	2.25	0.69
3:CB:114:ALA:HB3	3:HC:8:LEU:HD12	1.74	0.69
3:CF:109:ARG:NH1	3:GM:122:ILE:HD13	2.07	0.69
3:DL:60:LYS:H	3:DL:61:ASN:HB3	1.57	0.69
3:GH:103:GLU:OE1	3:KB:13:LYS:NZ	2.18	0.69
3:IG:105:ARG:HD3	3:JJ:125:ILE:HG22	1.73	0.69
3:JI:52:VAL:CG1	3:JI:64:VAL:HG22	2.21	0.69
3:JM:58:ASN:OD1	3:JM:59:ARG:NH1	2.24	0.69
3:KK:52:VAL:HG23	3:KK:52:VAL:O	1.93	0.69
3:NJ:11:ILE:HG22	3:NJ:17:GLN:O	1.92	0.69
1:A:2335:A:HO2'	1:A:2336:A:P	2.16	0.69
1:A:2688:C:H42	1:A:2763:C:H42	1.39	0.69
1:A:4079:G:O2'	1:A:4080:G:O5'	2.09	0.69
3:CB:8:LEU:HD12	3:HC:114:ALA:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CI:30:ASN:OD1	3:CI:32:VAL:N	2.25	0.69
3:CM:125:ILE:O	3:CM:128:LEU:HD12	1.92	0.69
3:FI:109:ARG:CZ	3:KE:122:ILE:HA	2.23	0.69
3:FJ:123:ASP:OD1	3:FJ:129:ASN:ND2	2.26	0.69
3:GH:8:LEU:HD22	3:KB:114:ALA:HB1	1.75	0.69
3:GL:102:ASP:OD1	3:GL:103:GLU:N	2.24	0.69
3:IA:48:VAL:HG13	3:IA:68:ILE:CD1	2.23	0.69
3:IE:114:ALA:HB1	3:JL:8:LEU:CD1	2.10	0.69
3:KJ:45:GLU:N	3:KJ:45:GLU:OE1	2.26	0.69
3:LG:11:ILE:CD1	3:MG:110:THR:HG23	2.22	0.69
3:LG:121:LEU:O	3:LG:125:ILE:HG22	1.92	0.69
3:ME:79:SER:O	3:ME:80:CYS:HB2	1.91	0.69
1:A:67:A:N1	1:A:367:U:O2'	2.23	0.69
1:A:2418:A:N3	1:A:4085:C:O2'	2.25	0.69
1:A:2492:C:O5'	1:A:2584:A:O2'	2.11	0.69
3:BB:109:ARG:HH22	3:MA:117:ALA:HA	1.56	0.69
3:BK:32:VAL:HG13	3:BK:51:SER:OG	1.92	0.69
3:CK:60:LYS:HB2	3:CK:61:ASN:HB2	1.74	0.69
3:CL:79:SER:O	3:CL:80:CYS:HB2	1.91	0.69
3:DL:8:LEU:HD22	3:MN:114:ALA:CB	2.23	0.69
3:EL:24:ARG:NH1	3:FM:128:LEU:O	2.24	0.69
3:EM:111:GLU:O	3:EM:115:LEU:HD23	1.93	0.69
3:FE:132:TYR:CZ	3:KI:26:VAL:HG11	2.28	0.69
3:GD:23:PRO:HA	3:GD:35:LEU:HD13	1.75	0.69
3:GH:11:ILE:HG22	3:GH:17:GLN:O	1.92	0.69
3:HM:11:ILE:HG22	3:HM:17:GLN:O	1.93	0.69
3:HN:125:ILE:O	3:HN:128:LEU:HD12	1.93	0.69
3:IA:107:PHE:O	3:IA:111:GLU:OE1	2.11	0.69
3:IN:11:ILE:HG23	3:IN:17:GLN:HB2	1.74	0.69
3:JD:27:ASN:CG	3:JD:29:THR:HG1	1.94	0.69
3:KJ:114:ALA:CB	3:LE:8:LEU:HD12	2.22	0.69
3:MJ:27:ASN:CG	3:MJ:29:THR:HG1	1.95	0.69
3:MN:11:ILE:HG22	3:MN:17:GLN:O	1.92	0.69
1:A:2444:U:HO2'	1:A:2445:U:H6	1.40	0.69
1:A:4027:A:N1	1:A:4028:A:N6	2.41	0.69
3:CE:102:ASP:OD1	3:CE:103:GLU:N	2.26	0.69
3:DA:26:VAL:HG11	3:MM:132:TYR:CZ	2.26	0.69
3:DA:109:ARG:NH1	3:MM:122:ILE:HG22	2.07	0.69
3:DC:114:ALA:HB3	3:EN:8:LEU:CD1	2.22	0.69
3:DD:56:SER:OG	3:DD:58:ASN:OD1	2.10	0.69
3:DK:6:VAL:HG12	3:DK:8:LEU:CD2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:24:ARG:NH2	3:LM:128:LEU:O	2.26	0.69
3:IA:11:ILE:HG22	3:IA:17:GLN:O	1.92	0.69
3:IL:37:GLN:OE1	3:IL:39:GLY:N	2.23	0.69
3:IN:24:ARG:NE	3:IN:36:SER:OG	2.23	0.69
3:KK:66:VAL:HG23	3:KK:92:VAL:HG12	1.74	0.69
3:KK:109:ARG:HG2	3:MH:116:LEU:HD11	1.75	0.69
3:LA:86:ARG:HH22	3:MD:100:SER:N	1.90	0.69
1:A:368:U:O2	1:A:370:G:N1	2.25	0.69
1:A:1226:A:O2'	1:A:1227:U:OP1	2.10	0.69
1:A:2247:A:HO2'	1:A:2248:G:P	2.15	0.69
1:A:2703:G:HO2'	1:A:2704:A:C1'	2.05	0.69
3:B:37:GLN:OE1	3:B:46:LYS:N	2.25	0.69
3:BF:115:LEU:HD21	3:IN:48:VAL:HG11	1.73	0.69
3:BH:116:LEU:HD22	3:IL:109:ARG:HG2	1.75	0.69
3:CI:48:VAL:HG13	3:CI:68:ILE:CD1	2.23	0.69
3:CM:8:LEU:HD22	3:NA:114:ALA:HB1	1.73	0.69
3:CN:92:VAL:HG22	3:DD:92:VAL:HG22	1.75	0.69
3:DC:109:ARG:NH1	3:EN:122:ILE:HD13	2.08	0.69
3:DL:132:TYR:CZ	3:MN:26:VAL:HG21	2.27	0.69
3:DM:86:ARG:HH22	3:EM:99:TYR:C	1.96	0.69
3:EB:109:ARG:CZ	3:MJ:126:ASP:OD1	2.41	0.69
3:EM:58:ASN:OD1	3:EM:59:ARG:N	2.24	0.69
3:FC:42:PRO:O	3:FC:47:ARG:NH2	2.26	0.69
3:FI:110:THR:OG1	3:KE:11:ILE:HD12	1.92	0.69
3:FJ:6:VAL:HG12	3:FJ:8:LEU:CD2	2.23	0.69
3:GJ:48:VAL:HG22	3:GJ:68:ILE:HD12	1.73	0.69
3:IF:30:ASN:OD1	3:IF:32:VAL:HG23	1.92	0.69
3:IF:114:ALA:HB3	3:NI:8:LEU:HD12	1.74	0.69
3:IF:132:TYR:CE1	3:NI:26:VAL:HG11	2.27	0.69
3:IH:92:VAL:HG22	3:NG:92:VAL:HG22	1.75	0.69
3:IH:112:LEU:O	3:IH:116:LEU:HD23	1.93	0.69
3:KF:72:THR:HB	3:KF:86:ARG:HB2	1.74	0.69
3:LA:48:VAL:HG22	3:LA:68:ILE:HD12	1.74	0.69
3:LL:24:ARG:NH2	3:MI:127:GLN:O	2.22	0.69
3:LM:100:SER:OG	3:LM:105:ARG:NH1	2.26	0.69
3:MF:102:ASP:OD1	3:MF:103:GLU:N	2.26	0.69
3:NB:128:LEU:HD21	3:NF:62:TYR:CG	2.27	0.69
3:BH:62:TYR:CD1	3:IL:128:LEU:HD22	2.27	0.69
3:BI:13:LYS:CE	3:HM:106:ALA:HB3	2.23	0.69
3:CJ:27:ASN:OD1	3:CJ:29:THR:N	2.26	0.69
3:CN:60:LYS:H	3:CN:61:ASN:HB3	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:105:ARG:NH1	3:LI:128:LEU:HD11	2.08	0.69
3:HI:26:VAL:HG11	3:II:132:TYR:CE1	2.28	0.69
3:IK:19:LEU:HD11	3:IK:46:LYS:HE3	1.74	0.69
3:JC:11:ILE:HG22	3:JC:17:GLN:O	1.93	0.69
1:A:2308:C:H2'	1:A:2309:C:O4'	1.93	0.69
1:A:3723:C:OP1	3:ML:56:SER:OG	2.10	0.69
3:BD:119:PRO:O	3:BD:122:ILE:HG22	1.93	0.69
3:BF:11:ILE:HG22	3:BF:17:GLN:O	1.93	0.69
3:BH:79:SER:O	3:BH:80:CYS:SG	2.51	0.69
3:CB:128:LEU:HD23	3:HC:62:TYR:HD2	1.58	0.69
3:CE:48:VAL:HG13	3:CE:68:ILE:CD1	2.22	0.69
3:CE:58:ASN:OD1	3:CE:59:ARG:N	2.26	0.69
3:CL:102:ASP:OD1	3:CL:103:GLU:N	2.26	0.69
3:DB:125:ILE:HD12	3:DK:94:PHE:HD1	1.56	0.69
3:DH:112:LEU:O	3:DH:116:LEU:HD23	1.93	0.69
3:DM:26:VAL:HG11	3:EM:132:TYR:HE1	1.56	0.69
3:DN:3:LEU:HD21	3:ML:131:ALA:HB1	1.75	0.69
3:FF:48:VAL:HG22	3:FF:68:ILE:HD12	1.75	0.69
3:FF:109:ARG:HE	3:FF:110:THR:HG23	1.56	0.69
3:FG:92:VAL:HG21	3:KG:112:LEU:HD11	1.75	0.69
3:IA:11:ILE:HG22	3:IA:17:GLN:C	2.13	0.69
3:JC:3:LEU:HD12	3:JC:35:LEU:HD11	1.75	0.69
3:JJ:60:LYS:HB3	3:JJ:61:ASN:HB2	1.75	0.69
3:KF:3:LEU:HD21	3:KF:33:ALA:HB1	1.75	0.69
3:LL:23:PRO:HA	3:LL:35:LEU:HD13	1.75	0.69
3:LN:97:THR:OG1	3:MI:86:ARG:NH2	2.25	0.69
3:ME:97:THR:HG23	3:NH:86:ARG:NH1	2.08	0.69
3:NB:122:ILE:HD12	3:NB:126:ASP:OD2	1.93	0.69
3:NC:11:ILE:HG22	3:NC:17:GLN:C	2.12	0.69
3:ND:3:LEU:CD1	3:ND:35:LEU:HD11	2.23	0.69
1:A:135:U:O4'	3:MB:30:ASN:ND2	2.25	0.68
1:A:1271:U:O2	1:A:1275:A:N6	2.19	0.68
1:A:1309:C:N4	1:A:1310:G:O6	2.25	0.68
1:A:2686:G:N1	1:A:2764:U:O2'	2.25	0.68
3:BL:125:ILE:O	3:BL:128:LEU:HD12	1.93	0.68
3:CB:11:ILE:HG22	3:CB:17:GLN:O	1.93	0.68
3:CH:11:ILE:HG22	3:CH:17:GLN:O	1.93	0.68
3:DA:109:ARG:HE	3:DA:110:THR:HG23	1.56	0.68
3:DG:26:VAL:HG11	3:EJ:132:TYR:HE1	1.58	0.68
3:GD:13:LYS:CE	3:KF:103:GLU:O	2.41	0.68
3:GF:109:ARG:HE	3:GF:110:THR:HG23	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GJ:8:LEU:HD11	3:GN:114:ALA:HB3	1.73	0.68
3:GK:116:LEU:HA	3:JA:109:ARG:HH12	1.58	0.68
3:IB:109:ARG:NH1	3:IK:122:ILE:HD12	2.08	0.68
3:IC:8:LEU:HD12	3:JN:114:ALA:CB	2.23	0.68
3:IF:13:LYS:NZ	3:NI:102:ASP:OD2	2.25	0.68
3:MC:68:ILE:HD11	3:NJ:111:GLU:CD	2.13	0.68
3:ML:11:ILE:HG22	3:ML:17:GLN:O	1.93	0.68
3:MM:11:ILE:HG22	3:MM:17:GLN:O	1.93	0.68
3:NC:68:ILE:HG22	3:NC:90:ALA:HB3	1.74	0.68
1:A:2707:U:O2'	1:A:2709:A:OP2	2.11	0.68
1:A:2972:U:O2'	1:A:2974:A:OP2	2.08	0.68
1:A:3809:G:OP2	3:KH:56:SER:N	2.26	0.68
3:CK:58:ASN:OD1	3:CK:59:ARG:NH1	2.26	0.68
3:CK:111:GLU:CD	3:NC:68:ILE:HD11	2.12	0.68
3:EA:60:LYS:H	3:EA:61:ASN:HB3	1.58	0.68
3:FJ:132:TYR:CZ	3:HF:26:VAL:HG11	2.29	0.68
3:GH:91:ASP:OD1	3:KB:93:THR:OG1	2.11	0.68
3:HI:19:LEU:HD21	3:HI:21:LEU:HG	1.76	0.68
3:HN:12:GLY:H	3:ID:110:THR:HG21	1.59	0.68
3:JF:11:ILE:HG22	3:JF:17:GLN:O	1.92	0.68
3:KD:27:ASN:OD1	3:KD:29:THR:N	2.24	0.68
3:KF:55:PRO:O	3:KF:57:ARG:NH2	2.25	0.68
3:LG:102:ASP:O	3:MG:13:LYS:NZ	2.23	0.68
3:MH:75:THR:HG22	3:MH:82:PRO:CG	2.23	0.68
1:A:1915:A:O2'	1:A:1916:U:O5'	2.11	0.68
1:A:2413:C:N4	1:A:2416:G:OP1	2.24	0.68
3:BB:103:GLU:HA	3:MA:13:LYS:NZ	2.07	0.68
3:CL:48:VAL:HG22	3:CL:68:ILE:HD12	1.73	0.68
3:CM:24:ARG:HH21	3:HH:130:PRO:HD3	1.58	0.68
3:DA:97:THR:O	3:DA:100:SER:OG	2.05	0.68
3:DD:26:VAL:HG23	3:DD:32:VAL:C	2.13	0.68
3:EB:24:ARG:NH1	3:LM:127:GLN:O	2.26	0.68
3:EE:86:ARG:NH1	3:LI:99:TYR:O	2.26	0.68
3:EK:26:VAL:HG11	3:FM:132:TYR:CZ	2.29	0.68
3:FJ:115:LEU:HD22	3:HF:8:LEU:HD11	1.74	0.68
3:GK:86:ARG:NH1	3:JA:99:TYR:O	2.27	0.68
3:GK:116:LEU:O	3:JA:109:ARG:NH2	2.27	0.68
3:GL:27:ASN:OD1	3:GL:30:ASN:N	2.26	0.68
3:HA:11:ILE:HG22	3:HA:17:GLN:O	1.91	0.68
3:KD:52:VAL:O	3:KD:52:VAL:HG23	1.92	0.68
3:KG:100:SER:OG	3:KG:105:ARG:NH1	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KM:92:VAL:HG22	3:MF:92:VAL:CG2	2.20	0.68
3:LB:52:VAL:HG12	3:LB:64:VAL:HG22	1.74	0.68
3:MJ:41:VAL:HG13	3:MJ:44:LEU:HD11	1.76	0.68
1:A:3011:U:O2'	1:A:3012:U:O5'	2.11	0.68
1:A:3038:U:O2	1:A:3039:A:N6	2.26	0.68
3:BB:26:VAL:HG11	3:MA:132:TYR:CE1	2.28	0.68
3:BK:26:VAL:HG11	3:HK:132:TYR:CZ	2.28	0.68
3:CC:105:ARG:NH2	3:DF:126:ASP:O	2.27	0.68
3:CF:26:VAL:HG11	3:GM:132:TYR:CZ	2.29	0.68
3:CF:125:ILE:HD12	3:GM:94:PHE:CD1	2.28	0.68
3:DM:114:ALA:CB	3:EM:8:LEU:HD12	2.22	0.68
3:EK:109:ARG:NH1	3:FM:122:ILE:HG22	2.08	0.68
3:GE:109:ARG:HG3	3:HE:116:LEU:HD11	1.74	0.68
3:HA:11:ILE:HG23	3:HA:17:GLN:HB2	1.75	0.68
3:IE:64:VAL:HG11	3:JL:125:ILE:CD1	2.22	0.68
3:KC:11:ILE:HG22	3:KC:17:GLN:C	2.13	0.68
3:KC:106:ALA:HB2	3:LC:126:ASP:OD2	1.91	0.68
3:KH:128:LEU:O	3:KM:24:ARG:NH1	2.26	0.68
3:LG:122:ILE:HG23	3:MG:109:ARG:HH12	1.57	0.68
3:LN:114:ALA:HB1	3:MI:8:LEU:CD1	2.22	0.68
1:A:770:G:O6	1:A:845:U:O2	2.11	0.68
1:A:3592:A:N7	3:FC:60:LYS:NZ	2.41	0.68
1:A:4191:G:C2	1:A:4193:A:N7	2.62	0.68
3:CM:27:ASN:OD1	3:CM:29:THR:N	2.27	0.68
3:DE:103:GLU:O	3:EL:13:LYS:NZ	2.26	0.68
3:EH:18:THR:C	3:EH:19:LEU:HD22	2.13	0.68
3:GD:101:THR:OG1	3:GD:104:GLU:OE2	2.10	0.68
3:GF:116:LEU:HD11	3:KD:109:ARG:HG3	1.76	0.68
3:GN:11:ILE:HG22	3:GN:17:GLN:O	1.94	0.68
3:IA:24:ARG:NH2	3:ID:127:GLN:O	2.26	0.68
3:LA:26:VAL:HG11	3:MD:132:TYR:CZ	2.28	0.68
3:LN:125:ILE:CD1	3:MI:64:VAL:HG11	2.24	0.68
3:MC:125:ILE:HD11	3:NJ:64:VAL:HG11	1.75	0.68
3:MF:68:ILE:CG2	3:MF:90:ALA:HB3	2.23	0.68
3:NH:3:LEU:HD23	3:NH:3:LEU:H	1.59	0.68
1:A:1418:U:OP1	3:GA:60:LYS:NZ	2.18	0.68
3:DL:110:THR:CG2	3:MN:11:ILE:HD12	2.24	0.68
3:FC:62:TYR:HE1	3:FC:64:VAL:HG23	1.58	0.68
3:FJ:6:VAL:HG12	3:FJ:8:LEU:HD21	1.75	0.68
3:HI:106:ALA:HB3	3:II:13:LYS:NZ	2.08	0.68
3:HN:13:LYS:N	3:HN:13:LYS:HD2	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JE:96:PHE:CD2	3:JE:105:ARG:HD3	2.28	0.68
3:JG:94:PHE:HD2	3:LD:125:ILE:CD1	2.07	0.68
3:MI:11:ILE:HG22	3:MI:17:GLN:O	1.93	0.68
3:MM:27:ASN:ND2	3:MM:30:ASN:OD1	2.27	0.68
1:A:1833:A:HO2'	1:A:1834:A:C1'	2.05	0.68
1:A:3620:A:N6	1:A:3623:G:OP2	2.25	0.68
3:BE:122:ILE:HD13	3:CE:109:ARG:NH1	2.08	0.68
3:BK:6:VAL:HG12	3:BK:8:LEU:CD2	2.23	0.68
3:BK:114:ALA:CB	3:HK:8:LEU:HD22	2.24	0.68
3:CB:55:PRO:HD3	3:CB:62:TYR:CE1	2.28	0.68
3:CI:8:LEU:HD11	3:DI:115:LEU:HD22	1.74	0.68
3:CM:24:ARG:NH2	3:HH:128:LEU:O	2.26	0.68
3:FB:109:ARG:NH2	3:LJ:126:ASP:OD2	2.26	0.68
3:HH:125:ILE:O	3:HH:128:LEU:HD12	1.94	0.68
3:JG:92:VAL:HG22	3:LD:92:VAL:HG22	1.76	0.68
3:KL:11:ILE:HG22	3:KL:17:GLN:O	1.94	0.68
3:LA:122:ILE:HA	3:MD:109:ARG:CZ	2.23	0.68
3:MA:6:VAL:HG12	3:MA:8:LEU:HD21	1.75	0.68
1:A:1683:G:O6	3:BE:98:GLN:NE2	2.26	0.68
1:A:2508:A:N1	3:LI:67:LYS:NZ	2.40	0.68
1:A:3403:C:N4	1:A:3945:G:O6	2.26	0.68
3:BB:110:THR:CB	3:MA:11:ILE:HD12	2.24	0.68
3:BI:6:VAL:HG12	3:BI:8:LEU:CD2	2.24	0.68
3:BK:27:ASN:OD1	3:BK:29:THR:HG22	1.94	0.68
3:BL:127:GLN:HB2	3:BL:129:ASN:OD1	1.93	0.68
3:CA:114:ALA:CB	3:DH:8:LEU:HD12	2.24	0.68
3:EB:109:ARG:NH2	3:MJ:126:ASP:OD1	2.27	0.68
3:EC:3:LEU:HD12	3:EC:35:LEU:HD11	1.76	0.68
3:EG:67:LYS:NZ	3:EG:91:ASP:OD2	2.26	0.68
3:FD:85:THR:O	3:LH:99:TYR:OH	2.11	0.68
3:II:20:VAL:CG1	3:II:38:ALA:HB2	2.24	0.68
3:KK:92:VAL:HB	3:MH:92:VAL:HG12	1.74	0.68
3:KK:132:TYR:CE1	3:MH:26:VAL:HG21	2.29	0.68
3:MA:60:LYS:H	3:MA:61:ASN:HB3	1.58	0.68
3:MK:11:ILE:HG22	3:MK:17:GLN:C	2.14	0.68
1:A:1010:C:O2	3:IH:57:ARG:CZ	2.41	0.68
1:A:3000:A:O2'	1:A:3079:G:O6	2.05	0.68
1:A:3684:U:O2	1:A:3756:G:C2	2.47	0.68
1:A:4191:G:C2'	1:A:4193:A:H62	2.07	0.68
3:CC:110:THR:HB	3:DF:11:ILE:HD12	1.75	0.68
3:IH:72:THR:O	3:IH:86:ARG:HB2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3352:U:OP2	3:MD:57:ARG:NH1	2.27	0.68
3:BL:6:VAL:HG12	3:BL:8:LEU:HD21	1.74	0.68
3:CG:102:ASP:OD1	3:CG:103:GLU:N	2.27	0.68
3:DH:102:ASP:OD1	3:DH:103:GLU:N	2.27	0.68
3:DI:11:ILE:HG22	3:DI:17:GLN:O	1.93	0.68
3:EB:132:TYR:OXT	3:ML:2:LYS:NZ	2.27	0.68
3:FI:109:ARG:NH2	3:KE:122:ILE:O	2.26	0.68
3:GG:97:THR:HG21	3:JE:86:ARG:HG2	1.76	0.68
3:GJ:99:TYR:HB3	3:GN:86:ARG:NH2	2.09	0.68
3:IB:86:ARG:NH2	3:IK:99:TYR:O	2.26	0.68
3:JG:114:ALA:CB	3:LD:8:LEU:HD12	2.24	0.68
3:LN:8:LEU:HD11	3:MI:114:ALA:HB3	1.74	0.68
3:MM:23:PRO:O	3:MM:24:ARG:NH2	2.27	0.68
3:NE:27:ASN:OD1	3:NE:29:THR:OG1	2.07	0.68
3:NG:102:ASP:OD1	3:NG:103:GLU:N	2.26	0.68
1:A:1265:G:O2'	3:CE:67:LYS:NZ	2.27	0.67
1:A:1328:U:N3	1:A:1594:C:O2	2.28	0.67
1:A:1399:C:N3	1:A:1543:U:O4	2.27	0.67
1:A:2211:G:N2	1:A:2213:U:OP2	2.27	0.67
1:A:2677:G:H22	1:A:2774:U:H3	1.42	0.67
1:A:3589:G:N2	3:FD:87:GLN:OE1	2.27	0.67
3:BK:111:GLU:OE1	3:HK:68:ILE:HD11	1.94	0.67
3:CF:86:ARG:NH2	3:GM:101:THR:HG23	2.09	0.67
3:DM:77:ASN:ND2	3:EN:77:ASN:O	2.26	0.67
3:EB:64:VAL:HG21	3:MJ:125:ILE:HG22	1.76	0.67
3:HN:13:LYS:HE2	3:ID:103:GLU:HA	1.75	0.67
3:LE:105:ARG:O	3:LE:108:VAL:HG22	1.94	0.67
3:ME:21:LEU:HB3	3:ME:35:LEU:HG	1.75	0.67
1:A:2496:G:OP2	3:EE:57:ARG:NH1	2.23	0.67
3:BC:92:VAL:HG22	3:ND:92:VAL:HG22	1.77	0.67
3:BG:37:GLN:OE1	3:BG:39:GLY:N	2.25	0.67
3:BK:11:ILE:HD12	3:HK:110:THR:HB	1.74	0.67
3:DB:8:LEU:HD21	3:DK:115:LEU:HD23	1.76	0.67
3:DC:128:LEU:O	3:FA:24:ARG:NH1	2.27	0.67
3:DE:106:ALA:HB2	3:EL:126:ASP:OD1	1.94	0.67
3:DI:131:ALA:O	3:DI:132:TYR:CD1	2.47	0.67
3:ED:68:ILE:HD11	3:EH:111:GLU:OE2	1.93	0.67
3:FA:74:CYS:SG	3:FA:85:THR:HG21	2.34	0.67
3:HN:116:LEU:HD21	3:ID:112:LEU:HD22	1.74	0.67
3:IC:32:VAL:HG13	3:IC:51:SER:OG	1.94	0.67
3:JB:105:ARG:HD3	3:JB:105:ARG:C	2.15	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:11:ILE:HG22	3:MD:17:GLN:C	2.15	0.67
3:MM:52:VAL:O	3:MM:52:VAL:HG23	1.94	0.67
1:A:151:G:O2'	1:A:152:A:O5'	2.11	0.67
1:A:2347:A:HO2'	1:A:2348:A:H8	1.41	0.67
3:CB:55:PRO:HD3	3:CB:62:TYR:CD1	2.30	0.67
3:DA:11:ILE:HG22	3:DA:17:GLN:O	1.94	0.67
3:FJ:103:GLU:HA	3:HF:13:LYS:NZ	2.09	0.67
3:FL:114:ALA:HB3	3:HD:8:LEU:HD12	1.76	0.67
3:FN:111:GLU:O	3:FN:115:LEU:HD23	1.94	0.67
3:GL:56:SER:OG	3:GL:59:ARG:NE	2.18	0.67
3:IC:114:ALA:CB	3:JN:8:LEU:HD12	2.25	0.67
3:JD:68:ILE:HD13	3:JH:111:GLU:OE1	1.94	0.67
3:KH:8:LEU:HD12	3:KL:114:ALA:HB1	1.76	0.67
3:LB:27:ASN:OD1	3:LB:30:ASN:N	2.28	0.67
3:NE:3:LEU:H	3:NE:3:LEU:HD23	1.58	0.67
3:BD:122:ILE:HA	3:JB:105:ARG:NH2	2.10	0.67
3:CE:23:PRO:HA	3:CE:35:LEU:HD23	1.77	0.67
3:CM:112:LEU:HD23	3:NA:116:LEU:HD21	1.76	0.67
3:DE:111:GLU:O	3:DE:115:LEU:HD23	1.93	0.67
3:DI:103:GLU:OE1	3:DI:103:GLU:N	2.26	0.67
3:FH:8:LEU:HD12	3:FK:114:ALA:CB	2.24	0.67
3:GE:100:SER:HA	3:HE:86:ARG:NH2	2.09	0.67
3:HI:65:GLN:OE1	3:HI:93:THR:HG22	1.94	0.67
3:HN:13:LYS:CE	3:ID:103:GLU:HA	2.24	0.67
3:IJ:55:PRO:HD3	3:IJ:62:TYR:CE2	2.29	0.67
1:A:3366:C:OP2	1:A:3368:C:N4	2.28	0.67
3:CC:114:ALA:HB3	3:DF:8:LEU:HD12	1.74	0.67
3:CJ:128:LEU:HD11	3:HJ:105:ARG:CD	2.24	0.67
3:ED:119:PRO:HA	3:ED:122:ILE:HG12	1.77	0.67
3:ED:127:GLN:NE2	3:EH:102:ASP:OD1	2.28	0.67
3:FD:92:VAL:HG21	3:LH:112:LEU:HD11	1.75	0.67
3:FE:103:GLU:HA	3:KI:13:LYS:CE	2.24	0.67
3:FI:11:ILE:HG22	3:FI:17:GLN:C	2.14	0.67
3:FJ:105:ARG:CZ	3:HF:128:LEU:HD11	2.25	0.67
3:FN:8:LEU:HD22	3:HB:114:ALA:CB	2.24	0.67
3:GE:84:VAL:HG13	3:GE:87:GLN:NE2	2.09	0.67
3:GL:37:GLN:NE2	3:GL:38:ALA:O	2.28	0.67
3:IE:132:TYR:OH	3:JK:26:VAL:HG13	1.94	0.67
3:IG:11:ILE:HG22	3:IG:17:GLN:O	1.94	0.67
3:LD:11:ILE:HG22	3:LD:17:GLN:C	2.14	0.67
3:LN:115:LEU:CD2	3:MI:48:VAL:HG21	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MG:48:VAL:HG22	3:MG:68:ILE:CD1	2.24	0.67
3:BC:24:ARG:NH2	3:BC:45:GLU:OE1	2.26	0.67
3:DN:27:ASN:ND2	3:DN:30:ASN:OD1	2.26	0.67
3:EB:17:GLN:N	3:EB:17:GLN:OE1	2.27	0.67
3:EB:92:VAL:HG22	3:MJ:92:VAL:HG22	1.75	0.67
3:FE:128:LEU:O	3:KJ:24:ARG:NH1	2.28	0.67
3:FI:125:ILE:HD13	3:KE:94:PHE:CE2	2.29	0.67
3:GD:114:ALA:HB2	3:KF:11:ILE:HD11	1.77	0.67
3:HD:6:VAL:HG12	3:HD:8:LEU:CD2	2.24	0.67
3:IC:27:ASN:ND2	3:IC:30:ASN:OD1	2.28	0.67
3:IE:8:LEU:HD23	3:JL:114:ALA:HB3	1.77	0.67
3:JD:52:VAL:HG12	3:JD:64:VAL:HG13	1.76	0.67
3:KJ:64:VAL:HG11	3:LE:125:ILE:HG22	1.75	0.67
3:MD:26:VAL:HG23	3:MD:32:VAL:C	2.14	0.67
3:NC:107:PHE:O	3:NC:111:GLU:OE1	2.13	0.67
1:A:1665:U:O4	1:A:1749:C:O2'	2.08	0.67
1:A:2557:A:O5'	3:DL:87:GLN:NE2	2.28	0.67
1:A:4108:U:O2	1:A:4113:G:C2	2.48	0.67
3:B:34:SER:OG	3:B:47:ARG:NH2	2.28	0.67
3:BA:52:VAL:HG12	3:BA:64:VAL:HG22	1.76	0.67
3:BG:110:THR:HB	3:IA:11:ILE:HD12	1.77	0.67
3:BM:44:LEU:HD13	3:CA:98:GLN:HE21	1.60	0.67
3:DG:128:LEU:HD12	3:DG:128:LEU:N	2.08	0.67
3:DI:111:GLU:O	3:DI:115:LEU:HD23	1.93	0.67
3:DM:86:ARG:NH2	3:EM:100:SER:HA	2.10	0.67
3:DM:119:PRO:HA	3:DM:122:ILE:HD12	1.75	0.67
3:FF:126:ASP:O	3:LF:105:ARG:NH2	2.27	0.67
3:GK:11:ILE:HG23	3:GK:17:GLN:HB2	1.77	0.67
3:HD:11:ILE:HG22	3:HD:17:GLN:O	1.94	0.67
3:IE:11:ILE:HG22	3:IE:17:GLN:O	1.93	0.67
3:JA:24:ARG:NH2	3:JA:36:SER:OG	2.26	0.67
3:JE:11:ILE:HG22	3:JE:17:GLN:O	1.94	0.67
3:NE:11:ILE:HG22	3:NE:17:GLN:O	1.95	0.67
1:A:941:C:O3'	1:A:1243:C:N4	2.27	0.67
1:A:2689:C:O2'	1:A:2690:U:O5'	2.09	0.67
3:BC:103:GLU:O	3:ND:13:LYS:NZ	2.27	0.67
3:CA:116:LEU:CD2	3:DH:113:ALA:HB2	2.24	0.67
3:CJ:125:ILE:HD11	3:HJ:64:VAL:HG11	1.77	0.67
3:CK:86:ARG:NH2	3:NC:100:SER:OG	2.27	0.67
3:DE:11:ILE:HG22	3:DE:17:GLN:C	2.15	0.67
3:DG:96:PHE:CE2	3:DG:105:ARG:HG3	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DN:24:ARG:NH2	3:DN:36:SER:OG	2.27	0.67
3:HI:114:ALA:CB	3:II:8:LEU:HD12	2.24	0.67
3:IG:62:TYR:HD2	3:JJ:128:LEU:HD22	1.60	0.67
3:KH:94:PHE:HD2	3:KL:125:ILE:HD12	1.59	0.67
3:MI:11:ILE:HG22	3:MI:17:GLN:C	2.15	0.67
1:A:2934:C:O2'	1:A:2935:A:O5'	2.12	0.67
1:A:3277:U:O2'	1:A:3279:C:OP1	2.13	0.67
3:BG:111:GLU:N	3:IA:11:ILE:HD11	2.10	0.67
3:BI:125:ILE:HG13	3:HM:109:ARG:NH2	2.10	0.67
3:BK:14:ASP:OD1	3:BK:16:LYS:NZ	2.25	0.67
3:BM:103:GLU:HG3	3:DJ:13:LYS:HZ1	1.60	0.67
3:DK:18:THR:C	3:DK:19:LEU:HD22	2.15	0.67
3:EN:55:PRO:HD3	3:EN:62:TYR:CE2	2.30	0.67
3:GI:13:LYS:HZ1	3:JC:102:ASP:C	1.96	0.67
3:GI:46:LYS:NZ	3:GI:71:PRO:O	2.28	0.67
3:JA:6:VAL:HG12	3:JA:8:LEU:CD2	2.25	0.67
3:KK:111:GLU:CD	3:MH:68:ILE:HD13	2.15	0.67
3:LL:37:GLN:OE1	3:LL:39:GLY:N	2.27	0.67
3:MA:11:ILE:HG22	3:MA:17:GLN:O	1.95	0.67
3:ML:6:VAL:HG12	3:ML:8:LEU:HD21	1.77	0.67
1:A:292:C:N3	3:HJ:57:ARG:NH2	2.42	0.67
1:A:1199:U:H2'	1:A:1200:A:C8	2.30	0.67
3:BJ:114:ALA:CB	3:BN:8:LEU:HD11	2.25	0.67
3:CJ:106:ALA:O	3:CJ:109:ARG:HG2	1.95	0.67
3:CN:8:LEU:HD12	3:DD:114:ALA:CB	2.25	0.67
3:FC:37:GLN:NE2	3:FC:38:ALA:O	2.27	0.67
3:FF:62:TYR:CD2	3:LF:128:LEU:HD13	2.30	0.67
3:HD:11:ILE:HG23	3:HD:17:GLN:HB2	1.77	0.67
3:IB:112:LEU:HD23	3:IK:116:LEU:HD11	1.75	0.67
3:KJ:123:ASP:OD2	3:KJ:129:ASN:ND2	2.26	0.67
3:LG:86:ARG:HH22	3:MG:99:TYR:HB2	1.60	0.67
3:MA:25:GLY:N	3:NJ:129:ASN:OD1	2.27	0.67
3:MN:48:VAL:HG22	3:MN:68:ILE:HD12	1.76	0.67
3:BB:55:PRO:HD3	3:BB:62:TYR:CE1	2.29	0.66
3:BL:11:ILE:HD12	3:CG:110:THR:CB	2.25	0.66
3:DN:102:ASP:OD1	3:DN:103:GLU:N	2.28	0.66
3:ED:11:ILE:HG22	3:ED:17:GLN:O	1.95	0.66
3:EM:60:LYS:H	3:EM:61:ASN:HB3	1.58	0.66
3:FI:92:VAL:HG21	3:KE:112:LEU:HD11	1.78	0.66
3:HD:52:VAL:HG23	3:HD:64:VAL:HG22	1.77	0.66
3:JF:114:ALA:CB	3:KA:8:LEU:HD22	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JM:5:THR:HG22	3:JM:22:ASN:HD22	1.60	0.66
3:LG:127:GLN:O	3:MH:24:ARG:NH2	2.27	0.66
1:A:999:G:N2	3:IH:57:ARG:HH22	1.94	0.66
3:BB:114:ALA:HB3	3:MA:8:LEU:HD12	1.76	0.66
3:BL:6:VAL:HG12	3:BL:8:LEU:CD2	2.24	0.66
3:CM:128:LEU:HD23	3:NA:62:TYR:CD2	2.30	0.66
3:DG:114:ALA:CB	3:EJ:8:LEU:HD12	2.25	0.66
3:EF:97:THR:HG21	3:FA:86:ARG:HG3	1.77	0.66
3:EL:125:ILE:O	3:EL:128:LEU:HD12	1.96	0.66
3:GJ:94:PHE:CE2	3:GN:125:ILE:HD12	2.30	0.66
3:IE:114:ALA:CB	3:JL:8:LEU:HD12	2.09	0.66
3:IN:56:SER:OG	3:IN:59:ARG:NE	2.23	0.66
3:JI:130:PRO:HD2	3:KN:25:GLY:HA3	1.77	0.66
3:JM:103:GLU:OE1	3:JM:103:GLU:N	2.26	0.66
3:LA:128:LEU:HG	3:MD:105:ARG:NH2	2.10	0.66
3:MB:84:VAL:HG22	3:MB:87:GLN:HE21	1.59	0.66
3:MD:18:THR:C	3:MD:19:LEU:HD22	2.16	0.66
3:ME:109:ARG:NH1	3:NH:122:ILE:HA	2.09	0.66
1:A:435:G:O5'	3:MM:63:LYS:NZ	2.28	0.66
3:BC:106:ALA:HB2	3:ND:126:ASP:OD1	1.96	0.66
3:CF:26:VAL:HG11	3:GM:132:TYR:CE2	2.30	0.66
3:EK:11:ILE:HG22	3:EK:17:GLN:O	1.94	0.66
3:FI:109:ARG:NH2	3:KE:121:LEU:O	2.28	0.66
3:HA:6:VAL:HG12	3:HA:8:LEU:HD13	1.78	0.66
3:HJ:4:GLU:OE2	3:HJ:5:THR:OG1	2.11	0.66
3:HL:48:VAL:HG13	3:HL:68:ILE:CD1	2.25	0.66
3:IE:128:LEU:HD11	3:JL:105:ARG:CD	2.25	0.66
3:IF:106:ALA:N	3:NI:126:ASP:OD1	2.29	0.66
3:JB:48:VAL:HG13	3:JB:68:ILE:CD1	2.26	0.66
3:JI:52:VAL:HG12	3:JI:64:VAL:CG2	2.23	0.66
3:MA:6:VAL:HG12	3:MA:8:LEU:CD2	2.25	0.66
3:NE:87:GLN:N	3:NE:87:GLN:OE1	2.28	0.66
3:BG:118:SER:O	3:BG:122:ILE:HG23	1.96	0.66
3:CK:11:ILE:HD11	3:NC:111:GLU:N	2.11	0.66
3:EE:105:ARG:HD2	3:LI:125:ILE:HG22	1.78	0.66
3:EK:11:ILE:HD12	3:FM:110:THR:OG1	1.95	0.66
3:FF:86:ARG:HH12	3:LF:99:TYR:HB2	1.61	0.66
3:GA:115:LEU:O	3:GA:118:SER:OG	2.14	0.66
3:GG:13:LYS:CE	3:JE:106:ALA:HB3	2.25	0.66
3:HF:61:ASN:OD1	3:HF:95:SER:OG	2.13	0.66
3:HN:114:ALA:CB	3:ID:8:LEU:HD12	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IG:24:ARG:NH2	3:NI:127:GLN:O	2.27	0.66
3:IL:41:VAL:O	3:IL:44:LEU:HG	1.94	0.66
3:JD:12:GLY:H	3:JH:110:THR:HG21	1.59	0.66
3:JH:55:PRO:HD3	3:JH:62:TYR:CE2	2.30	0.66
3:KG:119:PRO:HA	3:KG:122:ILE:HD12	1.76	0.66
3:LH:80:CYS:SG	3:MG:85:THR:HG21	2.35	0.66
3:MC:13:LYS:NZ	3:NJ:103:GLU:OE2	2.25	0.66
3:NE:131:ALA:O	3:NE:132:TYR:CD1	2.49	0.66
1:A:3583:A:H2'	1:A:3584:C:H4'	1.76	0.66
1:A:3825:C:O3'	3:FE:53:SER:OG	2.13	0.66
3:BF:128:LEU:HD11	3:IN:105:ARG:CD	2.26	0.66
3:BH:24:ARG:NH2	3:IA:129:ASN:OD1	2.29	0.66
3:CL:109:ARG:HG3	3:HH:116:LEU:HD22	1.76	0.66
3:DC:10:ASN:ND2	3:DC:15:GLY:O	2.27	0.66
3:DF:37:GLN:OE1	3:DF:39:GLY:N	2.27	0.66
3:FI:113:ALA:HB2	3:KE:116:LEU:HD23	1.77	0.66
3:HJ:11:ILE:HG22	3:HJ:17:GLN:O	1.95	0.66
3:ID:55:PRO:HD3	3:ID:62:TYR:HD1	1.59	0.66
3:KB:44:LEU:HD22	3:KD:98:GLN:O	1.96	0.66
3:KC:11:ILE:HG22	3:KC:17:GLN:O	1.95	0.66
3:KG:66:VAL:HG12	3:KG:68:ILE:HD11	1.76	0.66
3:KM:105:ARG:CD	3:MF:128:LEU:HD11	2.25	0.66
3:MC:130:PRO:HD2	3:NH:25:GLY:HA3	1.76	0.66
3:ND:127:GLN:HB2	3:ND:129:ASN:OD1	1.96	0.66
3:NH:11:ILE:HG22	3:NH:17:GLN:C	2.16	0.66
3:BC:3:LEU:O	3:BC:3:LEU:HD12	1.95	0.66
3:BN:112:LEU:O	3:BN:116:LEU:HD23	1.95	0.66
3:CC:26:VAL:HG21	3:DF:132:TYR:OH	1.96	0.66
3:CD:125:ILE:CD1	3:HA:64:VAL:HG11	2.25	0.66
3:CI:101:THR:N	3:CI:104:GLU:OE2	2.28	0.66
3:DE:92:VAL:HG22	3:EL:92:VAL:HG22	1.78	0.66
3:DE:129:ASN:OD1	3:EJ:24:ARG:HA	1.95	0.66
3:DM:65:GLN:OE1	3:DM:93:THR:OG1	2.13	0.66
3:EE:67:LYS:HZ3	3:EE:89:TYR:HB3	1.61	0.66
3:EL:80:CYS:SG	3:FM:85:THR:HG21	2.36	0.66
3:FJ:92:VAL:HG22	3:HF:92:VAL:HG22	1.77	0.66
3:GH:34:SER:O	3:GH:35:LEU:HD22	1.95	0.66
3:IC:18:THR:C	3:IC:19:LEU:HD22	2.15	0.66
3:IC:27:ASN:CG	3:IC:29:THR:HG1	1.98	0.66
3:LA:11:ILE:HG22	3:LA:17:GLN:C	2.16	0.66
3:MA:52:VAL:O	3:MA:52:VAL:HG23	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NA:112:LEU:O	3:NA:116:LEU:HD12	1.94	0.66
1:A:8:C:O2'	3:CH:58:ASN:O	2.14	0.66
1:A:582:U:O2'	1:A:583:G:N2	2.29	0.66
1:A:2393:A:O2'	1:A:2394:U:OP1	2.14	0.66
3:CA:11:ILE:HG22	3:CA:17:GLN:O	1.94	0.66
3:FJ:30:ASN:OD1	3:FJ:32:VAL:HG23	1.95	0.66
3:IC:122:ILE:HG22	3:JN:109:ARG:NH2	2.09	0.66
3:IM:125:ILE:HD13	3:JM:94:PHE:HE2	1.61	0.66
3:JA:98:GLN:HG3	3:JB:43:ALA:HB2	1.76	0.66
3:JB:105:ARG:HD3	3:JB:106:ALA:N	2.10	0.66
3:JI:11:ILE:HG22	3:JI:17:GLN:C	2.16	0.66
3:KH:64:VAL:HG11	3:KL:125:ILE:CD1	2.25	0.66
3:KM:116:LEU:O	3:MF:109:ARG:NH2	2.28	0.66
1:A:1184:U:OP1	3:IF:59:ARG:NH1	2.27	0.66
1:A:2356:C:OP2	1:A:2358:A:N6	2.29	0.66
3:BK:6:VAL:HG12	3:BK:8:LEU:HD21	1.78	0.66
3:CF:86:ARG:NH1	3:GM:99:TYR:O	2.29	0.66
3:FE:8:LEU:HD21	3:KI:111:GLU:HA	1.76	0.66
3:FE:41:VAL:O	3:FE:44:LEU:HG	1.95	0.66
3:HH:41:VAL:HG13	3:HH:44:LEU:HD11	1.76	0.66
3:IC:62:TYR:CD1	3:JN:128:LEU:HD23	2.30	0.66
3:IC:86:ARG:O	3:IC:87:GLN:NE2	2.29	0.66
3:IG:109:ARG:CZ	3:JJ:122:ILE:HG22	2.26	0.66
3:IM:13:LYS:NZ	3:JM:102:ASP:OD2	2.23	0.66
3:JI:6:VAL:HG12	3:JI:8:LEU:CD2	2.26	0.66
3:JJ:52:VAL:O	3:JJ:52:VAL:HG23	1.96	0.66
3:KC:27:ASN:OD1	3:KC:29:THR:N	2.28	0.66
3:KI:61:ASN:ND2	3:KI:96:PHE:O	2.29	0.66
3:KJ:13:LYS:HZ2	3:LE:106:ALA:HB3	1.60	0.66
3:LF:60:LYS:H	3:LF:61:ASN:HB3	1.60	0.66
1:A:495:C:O4'	3:BK:59:ARG:NH1	2.28	0.66
1:A:967:A:O2'	1:A:968:C:O5'	2.13	0.66
1:A:1131:U:C2	1:A:1151:G:N1	2.64	0.66
1:A:3418:U:HO2'	1:A:3419:U:P	2.19	0.66
1:A:3495:A:OP1	3:KM:30:ASN:ND2	2.28	0.66
3:BE:8:LEU:HD12	3:CE:114:ALA:CB	2.26	0.66
3:CI:101:THR:HG23	3:DI:86:ARG:HH22	1.61	0.66
3:DI:37:GLN:OE1	3:DI:39:GLY:N	2.29	0.66
3:EC:110:THR:CB	3:LK:11:ILE:HD12	2.26	0.66
3:EI:52:VAL:CG1	3:EI:64:VAL:HG22	2.23	0.66
3:EK:109:ARG:HE	3:EK:110:THR:HG23	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FH:86:ARG:NH2	3:FK:104:GLU:OE2	2.28	0.66
3:FH:115:LEU:CD2	3:FK:8:LEU:HD11	2.26	0.66
3:FJ:60:LYS:N	3:FJ:61:ASN:HB3	2.11	0.66
3:GD:126:ASP:HA	3:KF:109:ARG:HH22	1.61	0.66
3:HI:11:ILE:HG22	3:HI:17:GLN:C	2.16	0.66
3:IG:109:ARG:NH2	3:JJ:126:ASP:OD2	2.29	0.66
3:JF:69:GLN:OE1	3:JF:87:GLN:NE2	2.28	0.66
3:KJ:11:ILE:HG22	3:KJ:17:GLN:O	1.95	0.66
3:KN:60:LYS:H	3:KN:61:ASN:HB3	1.61	0.66
3:MK:11:ILE:HG22	3:MK:17:GLN:O	1.96	0.66
1:A:1275:A:N1	3:BD:57:ARG:NH1	2.43	0.66
1:A:1347:G:O2'	1:A:1757:U:O4	2.14	0.66
1:A:2723:C:O4'	1:A:2807:C:O2'	2.12	0.66
1:A:3773:A:O2'	1:A:3774:U:O4'	2.11	0.66
3:BE:103:GLU:HA	3:CE:13:LYS:HE2	1.78	0.66
3:CA:19:LEU:HD21	3:CA:21:LEU:HD21	1.77	0.66
3:CF:55:PRO:HD3	3:CF:62:TYR:CE1	2.31	0.66
3:EM:22:ASN:OD1	3:EM:23:PRO:HD2	1.96	0.66
3:FC:92:VAL:HG21	3:GB:112:LEU:HD11	1.78	0.66
3:FD:101:THR:HG22	3:LH:86:ARG:HH21	1.61	0.66
3:FI:109:ARG:NH1	3:KE:126:ASP:OD2	2.29	0.66
3:GG:92:VAL:HG22	3:JE:92:VAL:HG22	1.76	0.66
3:IK:24:ARG:NH1	3:NE:129:ASN:OD1	2.29	0.66
3:JH:11:ILE:HG22	3:JH:17:GLN:C	2.17	0.66
3:JK:11:ILE:HG22	3:JK:17:GLN:C	2.16	0.66
3:KC:106:ALA:HB2	3:LC:126:ASP:CG	2.17	0.66
3:KH:125:ILE:HD12	3:KL:94:PHE:HD2	1.60	0.66
3:KI:46:LYS:NZ	3:KI:71:PRO:O	2.29	0.66
3:KI:67:LYS:NZ	3:KI:91:ASP:OD2	2.23	0.66
3:LG:112:LEU:HD22	3:MG:116:LEU:HD22	1.78	0.66
3:NB:105:ARG:NE	3:NF:128:LEU:HD11	2.12	0.66
3:NC:74:CYS:SG	3:NC:85:THR:OG1	2.50	0.66
1:A:3651:A:O3'	3:FC:65:GLN:NE2	2.28	0.65
2:M:244:ASP:OD1	2:M:245:TYR:N	2.29	0.65
3:D:61:ASN:ND2	3:D:96:PHE:O	2.29	0.65
3:BB:104:GLU:OE1	3:MA:72:THR:OG1	2.07	0.65
3:BC:11:ILE:HG23	3:BC:17:GLN:HB3	1.78	0.65
3:BG:30:ASN:OD1	3:BG:32:VAL:HG23	1.95	0.65
3:BI:125:ILE:HG13	3:HM:109:ARG:CZ	2.26	0.65
3:CC:64:VAL:HG11	3:DF:125:ILE:CD1	2.27	0.65
3:CF:110:THR:HG23	3:GM:11:ILE:CD1	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CI:13:LYS:NZ	3:DI:102:ASP:OD2	2.24	0.65
3:CK:11:ILE:HD12	3:NC:110:THR:HB	1.76	0.65
3:DF:58:ASN:OD1	3:DF:59:ARG:NH1	2.29	0.65
3:DK:34:SER:C	3:DK:35:LEU:HD12	2.15	0.65
3:EI:115:LEU:HD23	3:EI:121:LEU:CD1	2.25	0.65
3:EK:110:THR:HB	3:FM:11:ILE:HD12	1.77	0.65
3:FB:56:SER:N	3:FB:59:ARG:O	2.24	0.65
3:GD:126:ASP:CA	3:KF:109:ARG:HH22	2.09	0.65
3:GG:122:ILE:HG22	3:JE:109:ARG:CZ	2.27	0.65
3:GI:11:ILE:HD12	3:JC:110:THR:CB	2.27	0.65
3:HB:23:PRO:HA	3:HB:35:LEU:HD13	1.77	0.65
3:HE:48:VAL:HG22	3:HE:68:ILE:HG13	1.78	0.65
3:IH:11:ILE:HG22	3:IH:17:GLN:O	1.95	0.65
3:IH:56:SER:O	3:IH:60:LYS:HD2	1.96	0.65
3:JJ:100:SER:OG	3:JJ:105:ARG:NH1	2.28	0.65
3:NC:8:LEU:O	3:NC:18:THR:HG23	1.95	0.65
1:A:634:A:OP2	3:HJ:89:TYR:OH	2.06	0.65
1:A:1371:G:OP1	3:HA:30:ASN:ND2	2.29	0.65
3:BA:11:ILE:HG22	3:BA:17:GLN:C	2.16	0.65
3:BH:19:LEU:HD11	3:BH:46:LYS:HZ2	1.61	0.65
3:BI:112:LEU:O	3:BI:116:LEU:HD23	1.97	0.65
3:CF:8:LEU:HD22	3:GM:114:ALA:CB	2.27	0.65
3:DG:112:LEU:O	3:DG:116:LEU:HD23	1.96	0.65
3:DK:7:THR:C	3:DK:8:LEU:HD22	2.16	0.65
3:GF:2:LYS:NZ	3:KD:132:TYR:OXT	2.26	0.65
3:HK:102:ASP:OD1	3:HK:103:GLU:N	2.28	0.65
3:IJ:121:LEU:O	3:IJ:125:ILE:HG22	1.96	0.65
3:JI:11:ILE:HD12	3:LB:110:THR:HB	1.76	0.65
3:LL:109:ARG:HH22	3:MB:122:ILE:HG23	1.61	0.65
3:ME:109:ARG:NH1	3:NH:126:ASP:OD1	2.28	0.65
1:A:2649:G:H21	3:EI:29:THR:HG23	1.60	0.65
1:A:2682:U:H2'	1:A:2683:A:O4'	1.97	0.65
1:A:3698:G:OP2	3:LK:59:ARG:NE	2.29	0.65
3:BD:110:THR:OG1	3:JB:11:ILE:HG23	1.96	0.65
3:BK:105:ARG:CD	3:HK:128:LEU:HD11	2.26	0.65
3:BL:60:LYS:HB3	3:BL:98:GLN:NE2	2.12	0.65
3:BM:37:GLN:OE1	3:BM:39:GLY:N	2.29	0.65
3:CF:110:THR:HG21	3:GM:12:GLY:N	2.10	0.65
3:CI:96:PHE:CE2	3:CI:105:ARG:HG2	2.32	0.65
3:CK:11:ILE:HG22	3:CK:17:GLN:C	2.16	0.65
3:DC:37:GLN:OE1	3:DC:39:GLY:N	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FA:24:ARG:NE	3:FA:36:SER:OG	2.29	0.65
3:FD:126:ASP:O	3:LH:105:ARG:NH2	2.27	0.65
3:FI:11:ILE:HD11	3:KE:111:GLU:N	2.11	0.65
3:FK:61:ASN:OD1	3:FK:95:SER:OG	2.14	0.65
3:GK:8:LEU:HD22	3:JA:114:ALA:HB1	1.79	0.65
3:HE:101:THR:HG22	3:HF:41:VAL:HG12	1.79	0.65
3:HG:3:LEU:HD12	3:HG:35:LEU:HD11	1.77	0.65
3:HH:11:ILE:HG22	3:HH:17:GLN:O	1.96	0.65
3:IJ:26:VAL:HG11	3:NE:132:TYR:HE1	1.61	0.65
3:JI:45:GLU:N	3:JI:45:GLU:OE1	2.29	0.65
3:KF:121:LEU:O	3:KF:125:ILE:HG22	1.94	0.65
3:LG:128:LEU:HD21	3:MG:62:TYR:CE2	2.31	0.65
3:MC:68:ILE:HG23	3:MC:90:ALA:HB3	1.78	0.65
3:NB:114:ALA:HB3	3:NF:8:LEU:HD12	1.77	0.65
1:A:1366:C:OP2	3:CD:63:LYS:NZ	2.27	0.65
1:A:2157:C:OP2	3:HE:59:ARG:NE	2.23	0.65
1:A:2670:A:H61	1:A:2782:C:H42	1.45	0.65
3:BL:8:LEU:HD12	3:CG:114:ALA:HB1	1.79	0.65
3:BL:69:GLN:N	3:BL:69:GLN:OE1	2.29	0.65
3:BL:125:ILE:HD11	3:CG:64:VAL:HG11	1.78	0.65
3:CJ:109:ARG:HG3	3:CJ:110:THR:N	2.11	0.65
3:EA:115:LEU:HD23	3:LM:8:LEU:HD11	1.78	0.65
3:EI:115:LEU:CD2	3:EI:121:LEU:HD11	2.27	0.65
3:FK:108:VAL:O	3:FK:112:LEU:HD23	1.96	0.65
3:HN:11:ILE:HG23	3:ID:110:THR:CG2	2.26	0.65
3:JI:68:ILE:HD11	3:LB:115:LEU:HD12	1.76	0.65
3:JJ:52:VAL:HG12	3:JJ:64:VAL:HG22	1.77	0.65
3:LN:104:GLU:OE2	3:MI:86:ARG:NH1	2.27	0.65
3:MC:111:GLU:N	3:NJ:11:ILE:HD11	2.12	0.65
1:A:53:G:N1	1:A:465:U:O4	2.30	0.65
1:A:942:U:OP2	3:HM:57:ARG:NH2	2.29	0.65
1:A:2557:A:O3'	3:DL:47:ARG:NH2	2.29	0.65
1:A:2689:C:N4	1:A:2761:A:H61	1.94	0.65
1:A:3809:G:O5'	3:KH:58:ASN:N	2.29	0.65
3:BA:99:TYR:O	3:MK:86:ARG:NH1	2.27	0.65
3:BI:120:LEU:HD11	3:HM:6:VAL:CG2	2.25	0.65
3:BK:11:ILE:HD11	3:HK:111:GLU:HA	1.77	0.65
3:CC:11:ILE:HG22	3:CC:17:GLN:C	2.16	0.65
3:CH:125:ILE:CD1	3:HL:64:VAL:HG11	2.27	0.65
3:CJ:13:LYS:NZ	3:HJ:102:ASP:OD2	2.27	0.65
3:DN:110:THR:HB	3:ML:11:ILE:HD12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FB:111:GLU:CA	3:LJ:11:ILE:HD11	2.21	0.65
3:FM:60:LYS:N	3:FM:61:ASN:HB3	2.10	0.65
3:HL:11:ILE:HG22	3:HL:17:GLN:C	2.17	0.65
3:IG:11:ILE:HG22	3:IG:17:GLN:C	2.17	0.65
3:IG:48:VAL:HG22	3:IG:68:ILE:HD12	1.79	0.65
3:KK:8:LEU:HD12	3:MH:114:ALA:CB	2.27	0.65
3:KK:132:TYR:OXT	3:MH:2:LYS:NZ	2.20	0.65
3:KM:127:GLN:HB2	3:KM:129:ASN:OD1	1.97	0.65
3:LN:115:LEU:HD21	3:MI:48:VAL:HG21	1.78	0.65
3:MM:11:ILE:HG22	3:MM:17:GLN:C	2.17	0.65
1:A:3811:G:OP2	3:KH:57:ARG:NH2	2.30	0.65
3:CK:48:VAL:HG11	3:NC:115:LEU:HD11	1.78	0.65
3:DG:100:SER:N	3:EJ:86:ARG:NH1	2.45	0.65
3:DJ:111:GLU:O	3:DJ:115:LEU:HD23	1.96	0.65
3:EB:116:LEU:CD1	3:MJ:112:LEU:HD22	2.27	0.65
3:EI:116:LEU:HA	3:EI:121:LEU:HD12	1.79	0.65
3:FA:109:ARG:HE	3:FA:110:THR:HG23	1.60	0.65
3:FE:68:ILE:HD11	3:KI:111:GLU:CD	2.17	0.65
3:FH:68:ILE:HD12	3:FK:112:LEU:HD13	1.79	0.65
3:FI:8:LEU:HD21	3:KE:115:LEU:CD2	2.27	0.65
3:HB:60:LYS:HB2	3:HB:61:ASN:HB2	1.78	0.65
3:HB:98:GLN:HG3	3:HC:43:ALA:HB2	1.76	0.65
3:HF:79:SER:O	3:HF:80:CYS:HB2	1.96	0.65
3:HM:23:PRO:O	3:HM:24:ARG:NH2	2.29	0.65
3:IB:125:ILE:HD12	3:IK:94:PHE:CD2	2.31	0.65
3:IE:6:VAL:HG12	3:IE:8:LEU:CD1	2.26	0.65
3:JD:105:ARG:CZ	3:JH:128:LEU:HD11	2.26	0.65
3:JH:101:THR:N	3:JH:104:GLU:OE1	2.30	0.65
3:NE:11:ILE:HG22	3:NE:17:GLN:C	2.16	0.65
1:A:992:U:O2	1:A:1016:G:O6	2.14	0.65
1:A:2668:C:N4	1:A:2669:G:O6	2.30	0.65
1:A:2756:A:N6	1:A:2757:G:O6	2.29	0.65
3:BI:3:LEU:HD12	3:BI:35:LEU:HD21	1.79	0.65
3:BL:60:LYS:HB3	3:BL:98:GLN:HE21	1.62	0.65
3:CB:30:ASN:OD1	3:CB:32:VAL:HG23	1.96	0.65
3:CD:3:LEU:HD23	3:HA:132:TYR:N	2.11	0.65
3:CE:13:LYS:HD2	3:CE:13:LYS:N	2.11	0.65
3:CE:32:VAL:HG22	3:CE:51:SER:OG	1.96	0.65
3:CH:114:ALA:HB3	3:HL:8:LEU:HD12	1.78	0.65
3:CJ:132:TYR:OXT	3:HJ:2:LYS:NZ	2.29	0.65
3:DC:132:TYR:O	3:EN:2:LYS:NZ	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:55:PRO:HD3	3:DD:62:TYR:CE1	2.32	0.65
3:DL:112:LEU:HD22	3:MN:116:LEU:CD1	2.26	0.65
3:EB:64:VAL:HG11	3:MJ:125:ILE:CG2	2.26	0.65
3:ED:113:ALA:HB2	3:EH:116:LEU:CD2	2.21	0.65
3:EF:11:ILE:HD12	3:FA:110:THR:CB	2.27	0.65
3:EG:92:VAL:CG2	3:GC:112:LEU:HD21	2.26	0.65
3:EL:11:ILE:HG22	3:EL:17:GLN:O	1.97	0.65
3:FL:39:GLY:N	3:FL:45:GLU:OE1	2.28	0.65
3:GI:126:ASP:OD1	3:JC:106:ALA:HB2	1.97	0.65
3:GJ:37:GLN:OE1	3:GJ:39:GLY:N	2.27	0.65
3:GN:102:ASP:OD2	3:GN:103:GLU:N	2.29	0.65
3:IB:8:LEU:HD22	3:IK:114:ALA:HB1	1.77	0.65
3:IJ:112:LEU:O	3:IJ:116:LEU:HD23	1.97	0.65
3:JA:119:PRO:HA	3:JA:122:ILE:HG12	1.78	0.65
3:JK:79:SER:O	3:JK:80:CYS:SG	2.54	0.65
3:KH:112:LEU:HD22	3:KL:116:LEU:HD22	1.79	0.65
3:KI:109:ARG:HE	3:KI:110:THR:HG23	1.61	0.65
3:NB:11:ILE:HG22	3:NB:17:GLN:O	1.95	0.65
3:NF:11:ILE:HG22	3:NF:17:GLN:C	2.16	0.65
3:NH:119:PRO:O	3:NH:122:ILE:HG22	1.97	0.65
1:A:159:C:N4	1:A:160:G:O6	2.30	0.65
1:A:2065:U:N3	1:A:2100:G:O6	2.29	0.65
1:A:2686:G:C6	1:A:2764:U:O2	2.49	0.65
2:M:160:LEU:HD21	2:M:220:VAL:HG12	1.77	0.65
3:BH:74:CYS:SG	3:BH:85:THR:HG21	2.36	0.65
3:CN:131:ALA:O	3:CN:132:TYR:CD1	2.50	0.65
3:EC:24:ARG:NH1	3:MJ:128:LEU:O	2.30	0.65
3:GF:87:GLN:N	3:GF:87:GLN:OE1	2.30	0.65
3:GK:114:ALA:CB	3:JA:8:LEU:HD12	2.27	0.65
3:IF:60:LYS:HB2	3:IF:61:ASN:HB3	1.78	0.65
3:JI:27:ASN:OD1	3:JI:29:THR:N	2.29	0.65
3:KK:19:LEU:HD23	3:MH:111:GLU:OE1	1.97	0.65
3:KN:30:ASN:OD1	3:KN:32:VAL:HG23	1.97	0.65
3:MA:2:LYS:NZ	3:MA:4:GLU:OE1	2.27	0.65
1:A:1423:U:HO2'	1:A:2603:A:N6	1.93	0.65
1:A:2961:A:H2'	1:A:2962:G:O4'	1.97	0.65
1:A:3480:U:O5'	3:KL:63:LYS:NZ	2.29	0.65
2:M:324:PHE:CE2	2:M:417:VAL:HG11	2.32	0.65
3:CB:122:ILE:HD12	3:HC:109:ARG:NH1	2.12	0.65
3:CD:41:VAL:HG12	3:CD:43:ALA:H	1.62	0.65
3:DB:6:VAL:HG12	3:DB:8:LEU:CD1	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:128:LEU:HD11	3:MN:105:ARG:NE	2.10	0.65
3:FB:31:GLY:O	3:FB:51:SER:OG	2.11	0.65
3:FN:109:ARG:CZ	3:HB:116:LEU:O	2.45	0.65
3:GH:24:ARG:HH22	3:JE:129:ASN:CB	2.10	0.65
3:GL:101:THR:HG23	3:GL:104:GLU:OE1	1.96	0.65
3:GL:111:GLU:O	3:GL:115:LEU:HD23	1.96	0.65
3:HN:110:THR:OG1	3:ID:11:ILE:HD12	1.97	0.65
3:IB:2:LYS:NZ	3:IK:132:TYR:OXT	2.24	0.65
3:IC:128:LEU:O	3:KA:24:ARG:NH2	2.29	0.65
3:IF:114:ALA:CB	3:NI:8:LEU:HD12	2.26	0.65
3:IH:132:TYR:OXT	3:NG:2:LYS:NZ	2.23	0.65
3:JK:102:ASP:OD1	3:JK:103:GLU:N	2.29	0.65
3:LD:48:VAL:HG22	3:LD:68:ILE:HD12	1.78	0.65
3:LG:126:ASP:O	3:MG:105:ARG:NH2	2.30	0.65
1:A:3655:U:O4	3:FC:58:ASN:ND2	2.30	0.65
3:BB:128:LEU:HD22	3:MA:62:TYR:CD2	2.32	0.65
3:BC:64:VAL:HG11	3:ND:125:ILE:CD1	2.26	0.65
3:BH:93:THR:O	3:BH:93:THR:HG23	1.96	0.65
3:CD:52:VAL:HG23	3:CD:64:VAL:HG22	1.78	0.65
3:CG:8:LEU:HD12	3:CG:8:LEU:N	2.12	0.65
3:CI:102:ASP:OD1	3:CI:103:GLU:N	2.29	0.65
3:FB:115:LEU:HD11	3:LJ:68:ILE:HD11	1.79	0.65
3:FC:86:ARG:NH1	3:GC:80:CYS:SG	2.70	0.65
3:FN:112:LEU:HD21	3:HB:68:ILE:HD11	1.80	0.65
3:FN:128:LEU:HD11	3:HB:105:ARG:NE	2.12	0.65
3:GM:54:GLN:O	3:GM:59:ARG:HG3	1.97	0.65
3:ID:107:PHE:O	3:ID:110:THR:HG22	1.97	0.65
3:IG:26:VAL:HG11	3:JJ:132:TYR:CZ	2.32	0.65
3:MH:102:ASP:OD1	3:MH:103:GLU:N	2.30	0.65
3:NB:109:ARG:NH1	3:NF:122:ILE:HA	2.12	0.65
1:A:2044:U:O2	1:A:2120:A:O2'	2.07	0.64
1:A:3432:A:N6	1:A:3440:A:N1	2.45	0.64
3:BC:127:GLN:HB3	3:BC:129:ASN:OD1	1.97	0.64
3:BF:18:THR:C	3:BF:19:LEU:HD22	2.18	0.64
3:BH:75:THR:HG22	3:BH:82:PRO:HG3	1.79	0.64
3:CB:48:VAL:HG13	3:CB:68:ILE:CD1	2.27	0.64
3:CH:60:LYS:H	3:CH:61:ASN:HB3	1.62	0.64
3:CI:26:VAL:HG21	3:DI:132:TYR:CE1	2.32	0.64
3:FC:116:LEU:O	3:GB:109:ARG:NH1	2.30	0.64
3:GD:126:ASP:OD1	3:KF:109:ARG:CZ	2.45	0.64
3:GG:44:LEU:HD13	3:GI:98:GLN:OE1	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GH:107:PHE:O	3:GH:111:GLU:OE1	2.15	0.64
3:GJ:44:LEU:HD13	3:GL:98:GLN:HE21	1.62	0.64
3:GJ:82:PRO:O	3:GL:99:TYR:OH	2.04	0.64
3:HJ:121:LEU:O	3:HJ:125:ILE:HG22	1.96	0.64
3:HL:6:VAL:HG12	3:HL:8:LEU:CD2	2.27	0.64
3:IH:127:GLN:N	3:IH:127:GLN:OE1	2.29	0.64
3:IK:11:ILE:HG22	3:IK:17:GLN:O	1.97	0.64
3:JG:122:ILE:HA	3:LD:109:ARG:NH1	2.12	0.64
3:JM:101:THR:N	3:JM:104:GLU:OE2	2.29	0.64
3:MD:32:VAL:HG13	3:MD:51:SER:OG	1.96	0.64
3:MK:97:THR:O	3:MK:100:SER:OG	2.12	0.64
3:BG:11:ILE:HG23	3:IA:110:THR:OG1	1.97	0.64
3:BM:114:ALA:CB	3:DJ:8:LEU:HD12	2.28	0.64
3:CC:86:ARG:HH12	3:DF:100:SER:HA	1.62	0.64
3:CJ:128:LEU:HD11	3:HJ:105:ARG:NE	2.12	0.64
3:CL:52:VAL:HG12	3:CL:64:VAL:HG22	1.77	0.64
3:DD:98:GLN:HE22	3:DE:43:ALA:HA	1.63	0.64
3:FB:27:ASN:O	3:FB:31:GLY:N	2.30	0.64
3:FB:64:VAL:HG11	3:LJ:125:ILE:HG13	1.78	0.64
3:GD:60:LYS:H	3:GD:61:ASN:HB3	1.61	0.64
3:GE:61:ASN:ND2	3:GE:96:PHE:O	2.30	0.64
3:GK:26:VAL:HG11	3:JA:132:TYR:CZ	2.32	0.64
3:IG:109:ARG:NH1	3:JJ:122:ILE:HG22	2.12	0.64
3:LA:11:ILE:HG23	3:LA:17:GLN:HB2	1.79	0.64
1:A:447:G:O6	3:MM:57:ARG:NH1	2.30	0.64
1:A:4202:G:O6	2:M:81:THR:OG1	2.09	0.64
3:BG:8:LEU:HD11	3:IA:115:LEU:HD22	1.79	0.64
3:BG:119:PRO:HA	3:BG:122:ILE:HG12	1.79	0.64
3:BJ:132:TYR:CE1	3:BN:26:VAL:HG21	2.32	0.64
3:CB:64:VAL:HG11	3:HC:125:ILE:HD13	1.78	0.64
3:CH:107:PHE:CE1	3:HL:19:LEU:HD11	2.33	0.64
3:DA:111:GLU:CD	3:MM:68:ILE:HD11	2.17	0.64
3:EB:48:VAL:HG22	3:EB:68:ILE:HD12	1.77	0.64
3:EI:128:LEU:HD21	3:GA:62:TYR:CD1	2.32	0.64
3:FK:24:ARG:HH22	3:HF:129:ASN:HB3	1.61	0.64
3:GI:62:TYR:CD1	3:JC:128:LEU:HD23	2.33	0.64
3:HM:97:THR:O	3:HM:100:SER:OG	2.16	0.64
3:LL:68:ILE:HD11	3:MB:111:GLU:CD	2.17	0.64
3:ME:92:VAL:HG22	3:NH:92:VAL:CG2	2.25	0.64
3:ME:97:THR:HG23	3:NH:86:ARG:HH12	1.61	0.64
3:NH:11:ILE:HG22	3:NH:17:GLN:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BK:11:ILE:HG22	3:BK:17:GLN:C	2.17	0.64
3:BK:11:ILE:HG22	3:BK:17:GLN:O	1.98	0.64
3:DB:8:LEU:HD23	3:DK:114:ALA:HB3	1.79	0.64
3:EC:48:VAL:HG22	3:EC:68:ILE:HD12	1.80	0.64
3:FM:41:VAL:O	3:FM:44:LEU:HG	1.98	0.64
3:GG:18:THR:C	3:GG:19:LEU:HD22	2.18	0.64
3:GM:97:THR:OG1	3:GM:100:SER:OG	2.03	0.64
3:IB:114:ALA:HB3	3:IK:8:LEU:HD13	1.78	0.64
3:IH:86:ARG:NH2	3:NG:99:TYR:O	2.29	0.64
3:JF:112:LEU:HD22	3:KA:116:LEU:HD22	1.77	0.64
3:JI:11:ILE:HG22	3:JI:17:GLN:O	1.97	0.64
3:KI:119:PRO:HA	3:KI:122:ILE:HD12	1.80	0.64
3:LE:11:ILE:HG23	3:LE:17:GLN:HB2	1.79	0.64
3:LG:92:VAL:HG22	3:MG:92:VAL:HG22	1.80	0.64
3:NE:52:VAL:O	3:NE:52:VAL:HG23	1.98	0.64
1:A:1134:C:O4'	3:LN:59:ARG:NH2	2.30	0.64
3:BL:11:ILE:HD12	3:CG:110:THR:OG1	1.97	0.64
3:CG:27:ASN:OD1	3:CG:29:THR:N	2.30	0.64
3:DL:132:TYR:CE1	3:MN:26:VAL:HG21	2.33	0.64
3:EF:18:THR:C	3:EF:19:LEU:HD22	2.17	0.64
3:EG:114:ALA:HB1	3:GC:8:LEU:HD22	1.79	0.64
3:FB:26:VAL:HG22	3:FB:33:ALA:CB	2.28	0.64
3:FN:26:VAL:HG11	3:HB:132:TYR:HE1	1.63	0.64
3:GK:115:LEU:O	3:GK:118:SER:OG	2.14	0.64
3:GN:11:ILE:HG22	3:GN:17:GLN:C	2.17	0.64
3:IA:112:LEU:O	3:IA:116:LEU:HD23	1.97	0.64
3:JI:114:ALA:CB	3:LB:8:LEU:HD12	2.27	0.64
3:KM:68:ILE:HD13	3:MF:111:GLU:OE1	1.97	0.64
3:LL:122:ILE:HG22	3:MB:109:ARG:CZ	2.27	0.64
3:LN:105:ARG:CZ	3:MI:128:LEU:HD11	2.26	0.64
3:ND:11:ILE:HG23	3:ND:17:GLN:HB2	1.79	0.64
3:NH:44:LEU:HD13	3:NJ:98:GLN:HE21	1.61	0.64
1:A:2703:G:O3'	3:CN:63:LYS:NZ	2.31	0.64
3:BA:8:LEU:HD21	3:MK:111:GLU:HG2	1.80	0.64
3:BC:125:ILE:HD11	3:ND:64:VAL:HG11	1.80	0.64
3:BG:60:LYS:HB2	3:BG:61:ASN:HB2	1.78	0.64
3:BH:68:ILE:HD11	3:IL:115:LEU:HD12	1.78	0.64
3:CH:125:ILE:HD11	3:HL:64:VAL:HG11	1.78	0.64
3:DG:99:TYR:H	3:EJ:86:ARG:NH2	1.96	0.64
3:EC:8:LEU:HD22	3:LK:114:ALA:HB1	1.78	0.64
3:EF:11:ILE:HG22	3:EF:17:GLN:C	2.17	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:55:PRO:HB3	3:EF:60:LYS:HG3	1.79	0.64
3:FC:19:LEU:HD22	3:GB:111:GLU:OE2	1.98	0.64
3:FI:8:LEU:HD21	3:KE:115:LEU:HD23	1.80	0.64
3:GF:116:LEU:HD22	3:KD:112:LEU:HD22	1.78	0.64
3:GL:109:ARG:HH12	3:HG:122:ILE:HG23	1.61	0.64
3:HI:110:THR:HB	3:II:11:ILE:HD12	1.80	0.64
3:JG:6:VAL:HG12	3:JG:8:LEU:CD2	2.27	0.64
3:KH:102:ASP:OD1	3:KH:103:GLU:N	2.31	0.64
3:LF:107:PHE:O	3:LF:111:GLU:OE1	2.16	0.64
3:ME:115:LEU:HD22	3:NH:8:LEU:CD2	2.26	0.64
3:NH:60:LYS:H	3:NH:61:ASN:HB3	1.62	0.64
1:A:2329:C:O4'	3:HC:59:ARG:NH2	2.30	0.64
1:A:3067:U:O2'	1:A:3070:U:O4	2.14	0.64
1:A:3104:G:H4'	3:LG:59:ARG:CZ	2.28	0.64
1:A:4148:A:N6	1:A:4171:U:O4	2.22	0.64
3:BJ:109:ARG:NH2	3:BN:126:ASP:OD2	2.31	0.64
3:CC:67:LYS:HE2	3:CC:67:LYS:HA	1.79	0.64
3:CD:24:ARG:NH1	3:DF:128:LEU:O	2.30	0.64
3:DH:52:VAL:HG23	3:DH:52:VAL:O	1.96	0.64
3:EC:128:LEU:HD11	3:LK:105:ARG:CZ	2.28	0.64
3:EC:128:LEU:HD11	3:LK:105:ARG:NE	2.13	0.64
3:FJ:116:LEU:HD23	3:HF:113:ALA:HB2	1.78	0.64
3:GH:125:ILE:HG21	3:KB:109:ARG:HD3	1.80	0.64
3:HC:11:ILE:HG22	3:HC:17:GLN:C	2.18	0.64
3:HI:92:VAL:HG22	3:II:92:VAL:HG22	1.80	0.64
3:HN:101:THR:HG23	3:ID:86:ARG:HH22	1.61	0.64
3:IG:116:LEU:O	3:JJ:109:ARG:NH2	2.30	0.64
3:IK:24:ARG:NH1	3:NE:128:LEU:O	2.31	0.64
3:KC:109:ARG:HG3	3:LC:116:LEU:HD11	1.80	0.64
3:KM:11:ILE:HG23	3:MF:110:THR:HG23	1.79	0.64
3:LB:27:ASN:OD1	3:LB:29:THR:N	2.30	0.64
3:MC:127:GLN:HB2	3:MC:129:ASN:HD21	1.63	0.64
3:NB:109:ARG:NH2	3:NF:126:ASP:OD2	2.29	0.64
3:NC:11:ILE:HG22	3:NC:17:GLN:O	1.96	0.64
3:NJ:46:LYS:HD2	3:NJ:71:PRO:HD2	1.78	0.64
1:A:38:C:H42	1:A:653:C:H42	1.43	0.64
1:A:439:G:O6	3:MM:57:ARG:NH1	2.31	0.64
1:A:1286:A:N7	3:CG:58:ASN:ND2	2.45	0.64
1:A:3108:G:OP2	1:A:3108:G:N2	2.30	0.64
3:CF:125:ILE:CG2	3:GM:109:ARG:NH2	2.59	0.64
3:DD:55:PRO:HD3	3:DD:62:TYR:CD1	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DN:110:THR:CB	3:ML:11:ILE:HD12	2.28	0.64
3:EH:11:ILE:HD11	3:EH:19:LEU:HD23	1.80	0.64
3:FC:41:VAL:HB	3:FC:44:LEU:HD13	1.80	0.64
3:IB:132:TYR:OH	3:IJ:26:VAL:HG12	1.98	0.64
3:II:27:ASN:CG	3:II:29:THR:HG1	2.01	0.64
3:IJ:79:SER:O	3:IJ:80:CYS:HB2	1.97	0.64
3:JC:52:VAL:HG23	3:JC:52:VAL:O	1.98	0.64
3:JI:92:VAL:HG22	3:LB:92:VAL:HG22	1.78	0.64
3:JK:100:SER:HA	3:KN:86:ARG:NH2	2.13	0.64
3:LB:11:ILE:HG22	3:LB:17:GLN:O	1.98	0.64
3:LC:27:ASN:CG	3:LC:29:THR:HG1	2.01	0.64
3:LL:116:LEU:HD21	3:MB:109:ARG:HG2	1.80	0.64
3:NF:6:VAL:HG12	3:NF:8:LEU:CD2	2.28	0.64
3:BB:114:ALA:CB	3:MA:8:LEU:HD12	2.28	0.64
3:BG:132:TYR:CZ	3:IA:26:VAL:HG11	2.33	0.64
3:CA:55:PRO:HG3	3:CA:62:TYR:CE1	2.33	0.64
3:CD:8:LEU:HD12	3:HA:114:ALA:HB3	1.79	0.64
3:CF:11:ILE:HG22	3:CF:17:GLN:O	1.98	0.64
3:EB:11:ILE:HG22	3:EB:17:GLN:C	2.18	0.64
3:EK:11:ILE:HG22	3:EK:17:GLN:C	2.18	0.64
3:HH:60:LYS:H	3:HH:61:ASN:HB2	1.63	0.64
3:HJ:102:ASP:OD1	3:HJ:103:GLU:N	2.30	0.64
3:IA:6:VAL:HG12	3:IA:8:LEU:CD2	2.27	0.64
3:IJ:111:GLU:O	3:IJ:115:LEU:HD23	1.98	0.64
3:JG:8:LEU:HD12	3:LD:114:ALA:HB3	1.79	0.64
3:JH:48:VAL:HG13	3:JH:68:ILE:CD1	2.27	0.64
3:KF:99:TYR:OH	3:KG:82:PRO:C	2.35	0.64
3:KJ:122:ILE:HG23	3:KJ:126:ASP:OD2	1.98	0.64
3:MD:11:ILE:HG22	3:MD:17:GLN:O	1.98	0.64
3:MK:117:ALA:O	3:MK:122:ILE:HD11	1.98	0.64
3:NA:127:GLN:N	3:NA:127:GLN:OE1	2.31	0.64
3:NB:111:GLU:N	3:NF:11:ILE:HD11	2.13	0.64
3:BI:122:ILE:O	3:HM:109:ARG:NH2	2.30	0.64
3:BM:65:GLN:OE1	3:BM:67:LYS:NZ	2.22	0.64
3:BM:68:ILE:HD11	3:DJ:111:GLU:CD	2.19	0.64
3:BN:48:VAL:HG22	3:BN:68:ILE:HD12	1.79	0.64
3:CI:101:THR:HG23	3:DI:86:ARG:NH2	2.12	0.64
3:CI:114:ALA:HB1	3:DI:8:LEU:HD22	1.80	0.64
3:DL:52:VAL:O	3:DL:54:GLN:NE2	2.27	0.64
3:EH:109:ARG:NE	3:EH:110:THR:HG23	2.12	0.64
3:FJ:48:VAL:HG22	3:FJ:68:ILE:HD12	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FN:128:LEU:O	3:HC:24:ARG:NH2	2.31	0.64
3:GD:6:VAL:HG12	3:GD:8:LEU:CD2	2.28	0.64
3:GJ:24:ARG:NH2	3:HG:129:ASN:OD1	2.31	0.64
3:HJ:111:GLU:OE1	3:HJ:111:GLU:N	2.29	0.64
3:IM:1:ALA:N	3:JM:123:ASP:OD1	2.27	0.64
3:IM:11:ILE:HG22	3:IM:17:GLN:C	2.19	0.64
3:JM:18:THR:C	3:JM:19:LEU:HD22	2.18	0.64
3:KK:8:LEU:HD12	3:MH:114:ALA:HB3	1.79	0.64
3:LC:60:LYS:N	3:LC:61:ASN:HB3	2.12	0.64
3:ME:52:VAL:O	3:ME:52:VAL:HG13	1.97	0.64
3:MJ:81:ASP:OD2	3:ML:99:TYR:CD1	2.51	0.64
3:BD:64:VAL:HG11	3:JB:125:ILE:HD13	1.80	0.63
3:CB:112:LEU:O	3:CB:116:LEU:HD23	1.98	0.63
3:CF:122:ILE:HA	3:GM:109:ARG:CZ	2.28	0.63
3:CH:97:THR:O	3:CH:100:SER:OG	2.16	0.63
3:CH:100:SER:HA	3:HL:86:ARG:NH2	2.13	0.63
3:CK:11:ILE:HG22	3:CK:17:GLN:O	1.99	0.63
3:DD:98:GLN:OE1	3:DE:43:ALA:HB2	1.98	0.63
3:DN:114:ALA:CB	3:ML:8:LEU:HD12	2.28	0.63
3:EB:116:LEU:HD23	3:EB:116:LEU:O	1.98	0.63
3:EC:99:TYR:HB3	3:LK:86:ARG:HH22	1.63	0.63
3:FN:26:VAL:HG11	3:HB:132:TYR:CE1	2.32	0.63
3:GK:115:LEU:HD12	3:GK:118:SER:OG	1.97	0.63
3:GL:112:LEU:HD11	3:HG:92:VAL:CG2	2.28	0.63
3:IF:122:ILE:HG22	3:NI:109:ARG:CZ	2.29	0.63
3:IK:55:PRO:HG3	3:IK:62:TYR:HE1	1.62	0.63
3:IL:103:GLU:OE1	3:IL:103:GLU:N	2.27	0.63
3:KK:111:GLU:N	3:MH:11:ILE:HD11	2.14	0.63
3:KM:8:LEU:HD22	3:MF:114:ALA:HB1	1.81	0.63
3:LK:21:LEU:HB3	3:LK:35:LEU:HB3	1.80	0.63
3:MG:60:LYS:N	3:MG:61:ASN:HB3	2.13	0.63
3:MJ:2:LYS:NZ	3:MJ:3:LEU:O	2.30	0.63
1:A:401:A:O2'	1:A:402:U:O5'	2.16	0.63
1:A:902:G:P	3:II:60:LYS:HZ1	2.19	0.63
1:A:1312:G:N2	1:A:1317:G:N2	2.46	0.63
1:A:3168:G:H2'	1:A:3169:U:O4'	1.99	0.63
3:BD:100:SER:HA	3:JB:86:ARG:NH2	2.13	0.63
3:BK:116:LEU:CD2	3:HK:112:LEU:HD22	2.27	0.63
3:CK:64:VAL:HG11	3:NC:125:ILE:HG22	1.80	0.63
3:CM:11:ILE:HG22	3:CM:17:GLN:C	2.18	0.63
3:DH:37:GLN:HB3	3:DH:45:GLU:OE2	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DI:52:VAL:HG23	3:DI:52:VAL:O	1.97	0.63
3:EB:48:VAL:HG13	3:EB:68:ILE:CD1	2.29	0.63
3:EB:115:LEU:HD21	3:MJ:8:LEU:HD11	1.80	0.63
3:EE:97:THR:N	3:EE:100:SER:HG	1.96	0.63
3:EJ:23:PRO:HA	3:EJ:35:LEU:HD13	1.79	0.63
3:FC:41:VAL:CG1	3:FC:44:LEU:HD13	2.27	0.63
3:FJ:64:VAL:HG11	3:HF:125:ILE:CG2	2.28	0.63
3:GE:104:GLU:OE1	3:HE:88:ALA:HB3	1.97	0.63
3:GH:129:ASN:OD1	3:KC:24:ARG:NH2	2.32	0.63
3:GN:56:SER:OG	3:GN:58:ASN:OD1	2.14	0.63
3:IF:128:LEU:HD21	3:NI:62:TYR:CG	2.33	0.63
3:IN:7:THR:C	3:IN:8:LEU:HD12	2.17	0.63
3:JI:6:VAL:HG12	3:JI:8:LEU:HD21	1.79	0.63
3:KE:82:PRO:O	3:KG:99:TYR:OH	2.09	0.63
3:KH:109:ARG:HG2	3:KL:116:LEU:HD11	1.80	0.63
3:KL:6:VAL:HG12	3:KL:8:LEU:HD12	1.80	0.63
3:LG:55:PRO:HD3	3:LG:62:TYR:CE1	2.34	0.63
3:LN:8:LEU:HD11	3:MI:114:ALA:CB	2.29	0.63
3:MN:65:GLN:OE1	3:MN:93:THR:OG1	2.15	0.63
3:NC:61:ASN:ND2	3:NC:96:PHE:O	2.32	0.63
1:A:921:C:O2'	1:A:1046:G:O2'	2.17	0.63
1:A:1054:C:O2'	1:A:1055:U:O5'	2.15	0.63
1:A:1130:C:H42	1:A:1152:A:H61	1.43	0.63
1:A:3599:A:N6	1:A:3653:A:H61	1.96	0.63
1:A:3803:C:N3	3:KK:57:ARG:NH2	2.46	0.63
3:BC:125:ILE:CD1	3:ND:64:VAL:HG11	2.28	0.63
3:BH:75:THR:HG22	3:BH:82:PRO:CG	2.28	0.63
3:CJ:65:GLN:OE1	3:CJ:93:THR:OG1	2.10	0.63
3:DC:23:PRO:HA	3:DC:35:LEU:HD13	1.81	0.63
3:DH:11:ILE:HG23	3:DH:17:GLN:HB2	1.80	0.63
3:DL:132:TYR:HE1	3:MN:26:VAL:HG11	1.63	0.63
3:EI:111:GLU:OE2	3:GA:68:ILE:HD11	1.98	0.63
3:EK:32:VAL:HG13	3:EK:51:SER:OG	1.98	0.63
3:FD:127:GLN:OE1	3:FD:129:ASN:ND2	2.31	0.63
3:GL:114:ALA:HB1	3:HG:8:LEU:CD1	2.27	0.63
3:HD:27:ASN:OD1	3:HD:29:THR:N	2.31	0.63
3:HI:11:ILE:HD12	3:II:110:THR:CB	2.28	0.63
3:HK:30:ASN:OD1	3:HK:32:VAL:HG23	1.97	0.63
3:HK:65:GLN:OE1	3:HK:93:THR:OG1	2.07	0.63
3:II:131:ALA:O	3:II:132:TYR:CD1	2.51	0.63
3:JD:114:ALA:HB1	3:JH:8:LEU:HD22	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KF:99:TYR:OH	3:KG:82:PRO:O	2.15	0.63
3:MD:41:VAL:CG2	3:MD:44:LEU:HD11	2.29	0.63
1:A:1248:U:OP2	1:A:1249:C:N4	2.32	0.63
3:BA:125:ILE:HD13	3:MK:94:PHE:CE2	2.33	0.63
3:BB:11:ILE:HD12	3:MA:110:THR:OG1	1.98	0.63
3:BG:62:TYR:CD2	3:IA:128:LEU:HD23	2.34	0.63
3:BI:39:GLY:N	3:BI:45:GLU:OE2	2.31	0.63
3:CC:112:LEU:O	3:CC:112:LEU:HD23	1.98	0.63
3:CH:19:LEU:HD11	3:HL:107:PHE:HZ	1.61	0.63
3:DI:11:ILE:HG22	3:DI:17:GLN:C	2.19	0.63
3:DM:11:ILE:HG22	3:DM:17:GLN:O	1.97	0.63
3:EI:119:PRO:HA	3:EI:122:ILE:HD12	1.79	0.63
3:FC:79:SER:O	3:FC:80:CYS:HB3	1.98	0.63
3:IB:11:ILE:HG22	3:IB:17:GLN:O	1.98	0.63
3:JK:100:SER:HA	3:KN:86:ARG:CZ	2.29	0.63
3:KF:111:GLU:O	3:KF:115:LEU:HD23	1.98	0.63
3:KG:48:VAL:HG13	3:KG:68:ILE:HG13	1.80	0.63
3:KJ:11:ILE:HD12	3:LE:110:THR:CB	2.27	0.63
3:NB:11:ILE:HD12	3:NF:110:THR:HB	1.80	0.63
3:NE:30:ASN:OD1	3:NE:32:VAL:HG23	1.99	0.63
1:A:552:A:N1	1:A:653:C:N3	2.46	0.63
3:BD:125:ILE:CG2	3:JB:105:ARG:HE	1.91	0.63
3:BE:26:VAL:HG11	3:CE:132:TYR:CZ	2.34	0.63
3:BM:116:LEU:HD22	3:DJ:113:ALA:HB2	1.81	0.63
3:CF:86:ARG:NH2	3:GM:99:TYR:O	2.32	0.63
3:CI:8:LEU:HD12	3:DI:114:ALA:CB	2.28	0.63
3:CM:11:ILE:HD12	3:NA:110:THR:CB	2.28	0.63
3:DH:6:VAL:HG12	3:DH:8:LEU:CD2	2.29	0.63
3:HI:128:LEU:HD23	3:II:62:TYR:CD2	2.34	0.63
3:KG:34:SER:C	3:KG:35:LEU:HD12	2.19	0.63
3:KJ:114:ALA:HB3	3:LE:8:LEU:HD12	1.79	0.63
3:MD:23:PRO:HA	3:MD:35:LEU:HD13	1.81	0.63
1:A:2105:U:OP1	3:JD:59:ARG:NH1	2.31	0.63
2:M:338:TYR:HD1	2:M:403:PHE:HB2	1.64	0.63
3:BM:92:VAL:CG2	3:DJ:92:VAL:HG22	2.24	0.63
3:EM:26:VAL:O	3:EM:28:PRO:HD3	1.98	0.63
3:FG:44:LEU:HD11	3:FG:82:PRO:CG	2.28	0.63
3:FH:19:LEU:HD11	3:FH:37:GLN:HG2	1.80	0.63
3:GB:52:VAL:HG22	3:GB:64:VAL:HG13	1.81	0.63
3:GI:105:ARG:O	3:GI:108:VAL:HG12	1.99	0.63
3:HA:48:VAL:HG23	3:HA:68:ILE:CD1	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HH:32:VAL:HG13	3:HH:51:SER:OG	1.98	0.63
3:IJ:97:THR:O	3:IJ:100:SER:OG	2.16	0.63
3:KC:84:VAL:HG22	3:KC:87:GLN:OE1	1.98	0.63
3:LH:102:ASP:OD1	3:LH:103:GLU:N	2.31	0.63
3:LN:125:ILE:HD11	3:MI:64:VAL:HG11	1.80	0.63
1:A:564:G:N1	1:A:604:G:N7	2.47	0.63
1:A:2650:A:OP1	3:EH:57:ARG:NE	2.31	0.63
1:A:3797:G:O2'	3:KK:55:PRO:O	2.15	0.63
3:BM:103:GLU:HA	3:DJ:13:LYS:NZ	2.13	0.63
3:DF:11:ILE:HG22	3:DF:17:GLN:C	2.19	0.63
3:EA:109:ARG:NH1	3:LM:122:ILE:HA	2.14	0.63
3:EF:118:SER:O	3:EF:122:ILE:HD12	1.99	0.63
3:EN:102:ASP:OD1	3:EN:103:GLU:N	2.30	0.63
3:FE:107:PHE:O	3:FE:110:THR:OG1	2.16	0.63
3:FG:112:LEU:HD11	3:KG:92:VAL:HG21	1.79	0.63
3:GD:8:LEU:HD12	3:KF:114:ALA:HB3	1.80	0.63
3:GE:100:SER:OG	3:HE:86:ARG:NH2	2.31	0.63
3:JN:101:THR:HB	3:JN:103:GLU:OE1	1.99	0.63
3:KK:50:VAL:HG22	3:KK:66:VAL:HG12	1.81	0.63
3:MC:86:ARG:HH21	3:NJ:97:THR:HG22	1.63	0.63
3:ML:27:ASN:ND2	3:ML:30:ASN:OD1	2.32	0.63
1:A:491:A:N6	1:A:506:C:H42	1.96	0.63
1:A:2947:G:N1	1:A:2954:U:O4	2.32	0.63
3:BB:128:LEU:HD11	3:MA:105:ARG:NE	2.13	0.63
3:BE:8:LEU:CD1	3:CE:115:LEU:HD22	2.28	0.63
3:BJ:60:LYS:H	3:BJ:61:ASN:HB3	1.62	0.63
3:BK:11:ILE:HD11	3:HK:111:GLU:CA	2.29	0.63
3:BK:92:VAL:HG22	3:HK:92:VAL:HG22	1.81	0.63
3:CA:27:ASN:ND2	3:CA:30:ASN:OD1	2.32	0.63
3:CE:37:GLN:OE1	3:CE:39:GLY:N	2.27	0.63
3:EA:94:PHE:HB3	3:EA:96:PHE:CE1	2.34	0.63
3:ED:11:ILE:HD12	3:EH:110:THR:CB	2.29	0.63
3:EE:24:ARG:NE	3:EE:36:SER:OG	2.32	0.63
3:EJ:60:LYS:H	3:EJ:61:ASN:HB3	1.64	0.63
3:FI:3:LEU:HD11	3:FI:26:VAL:CG2	2.29	0.63
3:GA:121:LEU:O	3:GA:125:ILE:HG22	1.98	0.63
3:GH:26:VAL:HG11	3:KB:132:TYR:CZ	2.33	0.63
3:HC:54:GLN:HB3	3:HC:55:PRO:HD2	1.81	0.63
3:IA:48:VAL:HG13	3:IA:68:ILE:HD13	1.81	0.63
3:ID:11:ILE:HG22	3:ID:17:GLN:C	2.19	0.63
3:IE:92:VAL:HG21	3:JL:112:LEU:HD11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:8:LEU:HD13	3:NG:114:ALA:HB3	1.81	0.63
3:JK:52:VAL:O	3:JK:54:GLN:NE2	2.31	0.63
3:JN:61:ASN:OD1	3:JN:95:SER:OG	2.15	0.63
3:KH:13:LYS:HE3	3:KL:102:ASP:OD2	1.99	0.63
3:KI:93:THR:O	3:KI:93:THR:HG23	1.98	0.63
3:MM:118:SER:O	3:MM:122:ILE:HG23	1.99	0.63
3:NH:8:LEU:HD12	3:NH:8:LEU:N	2.14	0.63
1:A:2325:C:N4	1:A:2345:G:O6	2.31	0.63
1:A:3922:G:O2'	1:A:3923:G:OP1	2.16	0.63
1:A:4108:U:N3	1:A:4113:G:N1	2.47	0.63
1:A:4196:U:O4	3:EG:129:ASN:ND2	2.27	0.63
3:BL:110:THR:OG1	3:CG:11:ILE:HD12	1.99	0.63
3:CC:26:VAL:HG11	3:DF:132:TYR:HE2	1.63	0.63
3:DG:106:ALA:HA	3:DG:109:ARG:NE	2.14	0.63
3:FB:26:VAL:HG22	3:FB:33:ALA:HB2	1.80	0.63
3:FE:114:ALA:CB	3:KI:8:LEU:HD22	2.29	0.63
3:FK:79:SER:O	3:FK:80:CYS:SG	2.57	0.63
3:FN:92:VAL:HG22	3:HB:92:VAL:HG22	1.79	0.63
3:GL:24:ARG:NH1	3:JA:128:LEU:O	2.32	0.63
3:HM:6:VAL:HG12	3:HM:8:LEU:CD2	2.29	0.63
3:IG:105:ARG:NH1	3:JJ:126:ASP:HA	2.14	0.63
3:IH:115:LEU:HD11	3:IH:121:LEU:HD23	1.80	0.63
3:IJ:129:ASN:OD1	3:NF:24:ARG:NH2	2.32	0.63
3:IM:92:VAL:HG21	3:JM:112:LEU:HD11	1.80	0.63
3:JH:55:PRO:HD3	3:JH:62:TYR:CD2	2.34	0.63
3:LL:8:LEU:CD2	3:MB:115:LEU:HD22	2.27	0.63
3:ME:111:GLU:O	3:ME:115:LEU:HD23	1.98	0.63
1:A:968:C:H42	1:A:1045:G:H1'	1.63	0.62
1:A:2521:C:H2'	1:A:2522:G:O4'	1.99	0.62
1:A:3409:A:O2'	1:A:3526:C:O5'	2.17	0.62
3:BA:103:GLU:HA	3:MK:13:LYS:NZ	2.14	0.62
3:BE:99:TYR:HB2	3:CE:86:ARG:HH12	1.64	0.62
3:BK:128:LEU:HD11	3:HK:105:ARG:NE	2.13	0.62
3:CB:11:ILE:HD12	3:HC:110:THR:OG1	1.99	0.62
3:CI:6:VAL:HG12	3:CI:8:LEU:CD2	2.29	0.62
3:DG:11:ILE:HG22	3:DG:17:GLN:C	2.18	0.62
3:DG:128:LEU:CD2	3:EJ:62:TYR:CD2	2.81	0.62
3:EB:3:LEU:HD22	3:EB:35:LEU:HD21	1.81	0.62
3:EC:62:TYR:CD1	3:LK:128:LEU:HD21	2.33	0.62
3:EF:92:VAL:HG22	3:FA:92:VAL:HG22	1.80	0.62
3:FE:8:LEU:HD11	3:KI:114:ALA:CB	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FE:119:PRO:HA	3:FE:122:ILE:HG12	1.81	0.62
3:HK:97:THR:O	3:HK:100:SER:OG	2.15	0.62
3:ME:48:VAL:HG22	3:ME:68:ILE:HD12	1.81	0.62
3:MI:4:GLU:O	3:MI:6:VAL:HG23	1.98	0.62
3:MK:48:VAL:HG13	3:MK:68:ILE:CD1	2.29	0.62
1:A:1552:A:OP1	3:CC:58:ASN:ND2	2.32	0.62
1:A:1774:G:O3'	3:JB:59:ARG:NH1	2.32	0.62
1:A:2711:U:O4'	3:DC:57:ARG:NH2	2.32	0.62
1:A:3585:A:H62	3:LH:59:ARG:CD	2.11	0.62
3:BI:23:PRO:O	3:BI:24:ARG:NH2	2.32	0.62
3:BL:11:ILE:HG22	3:BL:17:GLN:O	1.99	0.62
3:CA:109:ARG:HE	3:CA:110:THR:HG23	1.63	0.62
3:DA:8:LEU:HD22	3:MM:114:ALA:HB1	1.81	0.62
3:DF:6:VAL:HG12	3:DF:8:LEU:CD2	2.29	0.62
3:DK:11:ILE:HG22	3:DK:17:GLN:O	1.99	0.62
3:DM:6:VAL:HG12	3:DM:8:LEU:CD2	2.28	0.62
3:EC:3:LEU:CD1	3:EC:35:LEU:HD11	2.29	0.62
3:EF:103:GLU:HG2	3:FA:13:LYS:HZ3	1.63	0.62
3:EK:128:LEU:HD11	3:FM:105:ARG:NE	2.14	0.62
3:FJ:122:ILE:HD13	3:HF:109:ARG:NH1	2.14	0.62
3:IF:44:LEU:HD22	3:IH:98:GLN:O	1.99	0.62
3:JC:56:SER:O	3:JC:60:LYS:HD2	1.99	0.62
3:JD:21:LEU:HB3	3:JD:35:LEU:HD22	1.80	0.62
1:A:761:G:HO2'	1:A:762:C:P	2.18	0.62
1:A:1002:G:O3'	3:IF:89:TYR:OH	2.12	0.62
1:A:2661:G:N2	1:A:2663:U:O4	2.33	0.62
1:A:3933:A:O3'	3:KG:30:ASN:ND2	2.32	0.62
1:A:3993:A:H61	1:A:3999:C:H42	1.47	0.62
3:BB:110:THR:HB	3:MA:11:ILE:HD12	1.81	0.62
3:BJ:122:ILE:HG22	3:BN:109:ARG:CZ	2.29	0.62
3:CC:43:ALA:C	3:CC:44:LEU:HD23	2.20	0.62
3:CC:114:ALA:CB	3:DF:8:LEU:HD12	2.29	0.62
3:CF:122:ILE:HA	3:GM:109:ARG:NH2	2.15	0.62
3:CG:54:GLN:HB3	3:CG:55:PRO:HD3	1.79	0.62
3:CM:11:ILE:HD12	3:NA:110:THR:HB	1.79	0.62
3:CN:13:LYS:CE	3:DD:103:GLU:HA	2.29	0.62
3:DA:128:LEU:HD11	3:MM:105:ARG:NE	2.14	0.62
3:DD:26:VAL:HG12	3:EN:132:TYR:CE2	2.34	0.62
3:DE:11:ILE:HG22	3:DE:17:GLN:O	1.99	0.62
3:DE:105:ARG:CD	3:EL:128:LEU:HD11	2.29	0.62
3:DF:119:PRO:O	3:DF:122:ILE:HG22	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DK:3:LEU:CD1	3:DK:35:LEU:HD11	2.29	0.62
3:DM:3:LEU:HD12	3:DM:35:LEU:HD11	1.81	0.62
3:DM:11:ILE:HD12	3:EM:110:THR:HB	1.80	0.62
3:FJ:98:GLN:HG3	3:FK:43:ALA:HB2	1.82	0.62
3:GK:23:PRO:HA	3:GK:35:LEU:HD13	1.82	0.62
3:HK:11:ILE:HG23	3:HK:17:GLN:HB2	1.81	0.62
3:IB:11:ILE:HG22	3:IB:17:GLN:C	2.20	0.62
3:ID:97:THR:N	3:ID:100:SER:OG	2.32	0.62
3:IM:102:ASP:OD1	3:IM:103:GLU:N	2.32	0.62
3:LC:27:ASN:ND2	3:LC:30:ASN:OD1	2.32	0.62
3:LN:92:VAL:HG22	3:MI:92:VAL:HG22	1.82	0.62
3:NE:112:LEU:O	3:NE:116:LEU:HD23	1.99	0.62
1:A:732:C:HO2'	1:A:733:U:C5'	2.11	0.62
1:A:2238:G:O3'	1:A:2240:U:H5	1.82	0.62
3:BJ:109:ARG:CZ	3:BN:122:ILE:HD13	2.29	0.62
3:CI:11:ILE:HD12	3:DI:110:THR:HB	1.81	0.62
3:DF:20:VAL:HG13	3:DF:38:ALA:HB2	1.81	0.62
3:DF:52:VAL:HG23	3:DF:64:VAL:HG22	1.81	0.62
3:DK:67:LYS:HE2	3:DK:67:LYS:HA	1.81	0.62
3:DL:116:LEU:CD2	3:MN:113:ALA:HB2	2.30	0.62
3:EE:8:LEU:HD11	3:EE:11:ILE:HD11	1.80	0.62
3:EI:52:VAL:HG21	3:GA:130:PRO:HA	1.79	0.62
3:FK:13:LYS:HD3	3:FK:13:LYS:H	1.64	0.62
3:FM:119:PRO:HA	3:FM:122:ILE:HG12	1.81	0.62
3:HD:42:PRO:HD2	3:HD:43:ALA:N	2.13	0.62
3:IH:48:VAL:HG13	3:IH:68:ILE:CD1	2.28	0.62
3:IM:114:ALA:HB1	3:JM:8:LEU:HD22	1.82	0.62
3:JD:122:ILE:HB	3:JH:109:ARG:NH2	2.14	0.62
3:JF:65:GLN:OE1	3:JF:66:VAL:N	2.33	0.62
3:JK:102:ASP:OD1	3:KN:13:LYS:NZ	2.33	0.62
3:JL:79:SER:OG	3:JL:81:ASP:OD1	2.16	0.62
3:JN:79:SER:O	3:JN:80:CYS:HB2	1.96	0.62
3:KA:125:ILE:O	3:KA:128:LEU:HD12	1.98	0.62
3:MN:97:THR:O	3:MN:100:SER:OG	2.12	0.62
1:A:717:A:O2'	3:LC:27:ASN:ND2	2.30	0.62
1:A:1795:U:O4	3:JB:57:ARG:NH1	2.32	0.62
1:A:2978:A:O2'	1:A:4094:G:N3	2.32	0.62
1:A:3258:A:N6	1:A:3259:G:N3	2.47	0.62
1:A:3310:U:H2'	1:A:3311:U:H2'	1.80	0.62
2:M:8:ARG:NH1	2:M:18:ASP:OD1	2.32	0.62
3:B:34:SER:C	3:B:35:LEU:HD12	2.20	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CG:6:VAL:HG12	3:CG:8:LEU:CD1	2.28	0.62
3:DB:52:VAL:O	3:DB:52:VAL:HG23	1.99	0.62
3:EF:115:LEU:CD2	3:FA:8:LEU:HD22	2.30	0.62
3:EK:8:LEU:HD11	3:FM:114:ALA:CB	2.30	0.62
3:FH:8:LEU:HD12	3:FK:114:ALA:HB3	1.80	0.62
3:FH:125:ILE:O	3:FH:128:LEU:HD22	1.98	0.62
3:FJ:111:GLU:O	3:FJ:115:LEU:HD23	1.99	0.62
3:GG:62:TYR:HD1	3:JE:128:LEU:HD23	1.64	0.62
3:GG:126:ASP:OD1	3:JE:106:ALA:HB2	1.99	0.62
3:HB:60:LYS:H	3:HB:61:ASN:HB3	1.65	0.62
3:II:41:VAL:O	3:II:44:LEU:HG	2.00	0.62
3:IN:8:LEU:HD12	3:IN:8:LEU:N	2.14	0.62
3:JA:3:LEU:HD23	3:JA:3:LEU:H	1.63	0.62
3:JC:11:ILE:HG22	3:JC:17:GLN:C	2.20	0.62
3:JD:26:VAL:HG23	3:JD:32:VAL:C	2.20	0.62
3:JD:32:VAL:HG13	3:JD:51:SER:OG	1.99	0.62
3:JG:122:ILE:HD12	3:LD:109:ARG:CZ	2.29	0.62
3:KA:111:GLU:O	3:KA:115:LEU:HD23	1.99	0.62
3:KH:109:ARG:HG3	3:KL:116:LEU:HD11	1.80	0.62
3:KM:100:SER:HA	3:MF:86:ARG:HH12	1.65	0.62
3:LA:111:GLU:O	3:LA:115:LEU:HD23	1.98	0.62
3:LN:64:VAL:HG11	3:MI:125:ILE:CD1	2.30	0.62
3:NH:119:PRO:HA	3:NH:122:ILE:HG22	1.81	0.62
1:A:1318:C:N4	1:A:1319:G:O6	2.32	0.62
1:A:1537:U:H1'	3:EJ:58:ASN:HA	1.82	0.62
3:BA:102:ASP:OD1	3:MK:126:ASP:OD1	2.18	0.62
3:CH:111:GLU:OE1	3:HL:19:LEU:HD22	1.99	0.62
3:DL:106:ALA:O	3:DL:110:THR:HG22	1.99	0.62
3:DL:122:ILE:HD12	3:MN:109:ARG:NH1	2.14	0.62
3:EC:114:ALA:HB1	3:LK:8:LEU:HD12	1.81	0.62
3:EC:125:ILE:HD13	3:LK:94:PHE:CE2	2.34	0.62
3:FH:62:TYR:CD1	3:FK:128:LEU:HD23	2.35	0.62
3:GG:99:TYR:HH	3:GH:84:VAL:H	1.45	0.62
3:HJ:41:VAL:O	3:HJ:41:VAL:HG13	1.97	0.62
3:HJ:80:CYS:SG	3:II:85:THR:HG21	2.40	0.62
3:HL:85:THR:HG23	3:HL:86:ARG:HG2	1.80	0.62
3:IA:111:GLU:O	3:IA:115:LEU:HD23	2.00	0.62
3:JF:132:TYR:OH	3:JN:26:VAL:O	2.17	0.62
3:KB:11:ILE:HG22	3:KB:17:GLN:C	2.20	0.62
3:KJ:13:LYS:NZ	3:LE:102:ASP:O	2.33	0.62
3:KL:43:ALA:O	3:KL:44:LEU:HD22	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NB:11:ILE:HG22	3:NB:17:GLN:C	2.20	0.62
3:NF:32:VAL:HG13	3:NF:51:SER:OG	2.00	0.62
3:NG:19:LEU:HD21	3:NG:21:LEU:HD21	1.81	0.62
1:A:491:A:H61	1:A:506:C:N4	1.96	0.62
1:A:2210:C:O3'	3:HG:59:ARG:NH1	2.33	0.62
1:A:2600:C:H2'	1:A:2601:C:O4'	1.99	0.62
1:A:4212:C:HO2'	1:A:4213:U:H6	1.47	0.62
3:BB:72:THR:HB	3:BB:86:ARG:HB2	1.81	0.62
3:BI:13:LYS:NZ	3:HM:106:ALA:HB3	2.14	0.62
3:BN:11:ILE:HG22	3:BN:17:GLN:O	1.98	0.62
3:CA:72:THR:OG1	3:DH:104:GLU:OE2	2.17	0.62
3:CL:11:ILE:HG22	3:CL:17:GLN:C	2.19	0.62
3:DC:41:VAL:O	3:DC:44:LEU:HG	1.99	0.62
3:DI:60:LYS:H	3:DI:61:ASN:HB3	1.63	0.62
3:DN:18:THR:C	3:DN:19:LEU:HD22	2.19	0.62
3:EJ:11:ILE:HG22	3:EJ:17:GLN:O	1.99	0.62
3:EM:32:VAL:HG13	3:EM:51:SER:OG	2.00	0.62
3:FA:101:THR:HG22	3:FA:104:GLU:OE2	2.00	0.62
3:FC:126:ASP:O	3:GB:105:ARG:NH2	2.29	0.62
3:FD:47:ARG:NH1	3:FD:49:THR:OG1	2.30	0.62
3:FH:125:ILE:HD11	3:FK:64:VAL:HG11	1.81	0.62
3:GK:62:TYR:CD1	3:JA:128:LEU:HD21	2.34	0.62
3:GL:8:LEU:HD22	3:HG:114:ALA:HB1	1.81	0.62
3:HB:68:ILE:HD11	3:HB:90:ALA:HB3	1.80	0.62
3:JG:13:LYS:NZ	3:LD:103:GLU:HA	2.14	0.62
3:KB:101:THR:OG1	3:KB:103:GLU:OE2	2.15	0.62
3:LN:3:LEU:N	3:MI:132:TYR:OXT	2.33	0.62
3:MB:121:LEU:HA	3:MB:124:ALA:HB3	1.81	0.62
3:ML:102:ASP:OD1	3:ML:103:GLU:N	2.32	0.62
3:NE:60:LYS:HB2	3:NE:61:ASN:CB	2.30	0.62
1:A:1061:A:H2	1:A:1062:A:H62	1.46	0.62
1:A:4108:U:N3	1:A:4113:G:C6	2.67	0.62
3:CD:8:LEU:HD12	3:HA:114:ALA:CB	2.28	0.62
3:CF:109:ARG:HH12	3:GM:122:ILE:HD13	1.64	0.62
3:DB:52:VAL:CG1	3:DB:64:VAL:HG22	2.30	0.62
3:EI:55:PRO:HB3	3:EI:60:LYS:CG	2.30	0.62
3:FB:97:THR:OG1	3:FB:100:SER:N	2.33	0.62
3:FH:112:LEU:HD22	3:FK:116:LEU:HD13	1.81	0.62
3:GD:57:ARG:HD2	3:GD:58:ASN:N	2.14	0.62
3:GH:64:VAL:HG11	3:KB:125:ILE:CD1	2.30	0.62
3:GH:110:THR:CB	3:KB:11:ILE:HD12	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:52:VAL:HG23	3:IF:52:VAL:O	2.00	0.62
3:IN:11:ILE:HG22	3:IN:17:GLN:O	2.00	0.62
3:IN:112:LEU:O	3:IN:116:LEU:HD23	1.99	0.62
3:KH:125:ILE:CD1	3:KL:64:VAL:HG11	2.30	0.62
3:KH:128:LEU:HD11	3:KL:105:ARG:NE	2.15	0.62
3:KK:58:ASN:OD1	3:KK:59:ARG:NE	2.30	0.62
3:KK:114:ALA:HB3	3:MH:8:LEU:HD12	1.80	0.62
3:LC:52:VAL:O	3:LC:52:VAL:HG23	1.97	0.62
3:LG:86:ARG:NH1	3:MG:100:SER:OG	2.32	0.62
3:MF:52:VAL:HG12	3:MF:64:VAL:HG13	1.81	0.62
3:NC:87:GLN:N	3:NC:87:GLN:OE1	2.32	0.62
1:A:984:G:C6	1:A:1025:U:O2	2.53	0.62
1:A:2389:C:OP1	3:FH:63:LYS:NZ	2.29	0.62
1:A:4110:C:O2'	3:D:47:ARG:NH1	2.33	0.62
3:BC:129:ASN:HD22	3:NB:24:ARG:HA	1.65	0.62
3:CA:129:ASN:OD1	3:DF:25:GLY:N	2.32	0.62
3:CJ:109:ARG:HH22	3:HJ:122:ILE:HG13	1.63	0.62
3:CJ:114:ALA:CB	3:HJ:8:LEU:HD11	2.30	0.62
3:CN:122:ILE:HA	3:DD:109:ARG:NH1	2.15	0.62
3:DB:11:ILE:HD12	3:DK:110:THR:HB	1.81	0.62
3:DC:111:GLU:O	3:DC:115:LEU:HD13	1.99	0.62
3:EA:60:LYS:N	3:EA:61:ASN:HB3	2.13	0.62
3:EG:19:LEU:HD22	3:GC:111:GLU:OE2	2.00	0.62
3:FH:105:ARG:CZ	3:FK:128:LEU:HD11	2.30	0.62
3:FN:63:LYS:NZ	3:FN:95:SER:OG	2.30	0.62
3:HC:61:ASN:ND2	3:HC:96:PHE:O	2.33	0.62
3:HN:64:VAL:HG11	3:ID:125:ILE:HD13	1.80	0.62
3:HN:122:ILE:HG22	3:ID:109:ARG:CZ	2.30	0.62
3:JF:102:ASP:OD1	3:JF:103:GLU:N	2.32	0.62
3:JF:104:GLU:N	3:JF:104:GLU:OE1	2.32	0.62
3:KN:11:ILE:HG22	3:KN:17:GLN:O	1.99	0.62
1:A:531:U:OP1	3:DI:63:LYS:NZ	2.23	0.62
1:A:1629:U:OP2	1:A:1630:C:N4	2.33	0.62
1:A:3928:C:O2'	3:FG:59:ARG:NH1	2.33	0.62
3:BC:11:ILE:HD12	3:ND:110:THR:CB	2.30	0.62
3:BF:66:VAL:HG12	3:BF:68:ILE:HD11	1.81	0.62
3:BG:77:ASN:ND2	3:IB:77:ASN:OD1	2.31	0.62
3:BL:115:LEU:HD22	3:CG:8:LEU:HD21	1.81	0.62
3:CL:8:LEU:HD22	3:HH:114:ALA:HB1	1.81	0.62
3:CN:56:SER:N	3:CN:59:ARG:O	2.22	0.62
3:EB:109:ARG:HH11	3:MJ:122:ILE:HA	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FB:128:LEU:HD21	3:LJ:62:TYR:CE1	2.35	0.62
3:FC:52:VAL:HG21	3:GB:130:PRO:HA	1.82	0.62
3:GG:106:ALA:HB3	3:JE:13:LYS:CE	2.29	0.62
3:HJ:11:ILE:HG22	3:HJ:17:GLN:C	2.20	0.62
3:JD:106:ALA:HB2	3:JH:13:LYS:HZ2	1.65	0.62
3:JK:97:THR:OG1	3:JK:98:GLN:OE1	2.17	0.62
3:KD:11:ILE:HG23	3:KD:17:GLN:HB2	1.81	0.62
3:MG:23:PRO:HA	3:MG:35:LEU:HD13	1.81	0.62
3:NF:96:PHE:CE1	3:NF:105:ARG:HG2	2.35	0.62
3:NI:11:ILE:HG22	3:NI:17:GLN:C	2.20	0.62
1:A:358:G:O2'	1:A:359:A:O4'	2.18	0.61
1:A:2870:U:C2	1:A:2887:G:O6	2.53	0.61
1:A:3426:G:O6	1:A:3427:A:N6	2.32	0.61
3:BA:125:ILE:HD13	3:MK:94:PHE:HE2	1.64	0.61
3:BB:115:LEU:HD23	3:MA:8:LEU:HD11	1.82	0.61
3:BC:105:ARG:NE	3:ND:128:LEU:HD11	2.14	0.61
3:BK:61:ASN:OD1	3:BK:95:SER:OG	2.17	0.61
3:CD:114:ALA:HB1	3:HA:8:LEU:HG	1.82	0.61
3:DC:60:LYS:H	3:DC:61:ASN:HB3	1.64	0.61
3:FI:52:VAL:HG22	3:FI:64:VAL:HG22	1.81	0.61
3:FM:11:ILE:HG22	3:FM:17:GLN:O	2.00	0.61
3:GG:132:TYR:HE1	3:JE:26:VAL:HG11	1.62	0.61
3:GL:37:GLN:O	3:GL:45:GLU:HG3	2.00	0.61
3:GM:32:VAL:HG22	3:GM:51:SER:OG	1.99	0.61
3:IE:92:VAL:HG22	3:JL:92:VAL:HG22	1.81	0.61
3:JA:47:ARG:NH1	3:JA:69:GLN:OE1	2.33	0.61
3:JM:97:THR:O	3:JM:100:SER:OG	2.16	0.61
3:KM:52:VAL:HG12	3:KM:64:VAL:HG22	1.82	0.61
3:KN:44:LEU:HD13	3:LB:98:GLN:HE21	1.66	0.61
3:MA:11:ILE:HG22	3:MA:17:GLN:C	2.20	0.61
3:MF:112:LEU:O	3:MF:116:LEU:HD23	2.00	0.61
3:MJ:111:GLU:OE2	3:MJ:115:LEU:HD11	2.00	0.61
1:A:1681:U:O2'	1:A:1682:U:O4'	2.16	0.61
1:A:3246:C:OP1	3:KK:60:LYS:NZ	2.32	0.61
3:BB:62:TYR:CD2	3:MA:128:LEU:HD22	2.36	0.61
3:BD:126:ASP:OD2	3:BD:127:GLN:NE2	2.33	0.61
3:BL:8:LEU:HD12	3:CG:114:ALA:CB	2.30	0.61
3:BM:60:LYS:H	3:BM:61:ASN:HB3	1.64	0.61
3:CN:70:ASN:ND2	3:DD:111:GLU:OE2	2.31	0.61
3:DL:92:VAL:HG22	3:MN:92:VAL:HG22	1.82	0.61
3:EE:114:ALA:CB	3:LI:8:LEU:HD22	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FC:62:TYR:CE1	3:GB:128:LEU:HD22	2.36	0.61
3:FN:125:ILE:HG23	3:FN:126:ASP:N	2.15	0.61
3:GE:8:LEU:HD12	3:HE:114:ALA:CB	2.31	0.61
3:GH:11:ILE:HG22	3:GH:17:GLN:C	2.20	0.61
3:GN:79:SER:O	3:GN:80:CYS:HB2	1.99	0.61
3:HE:102:ASP:OD1	3:HE:103:GLU:N	2.34	0.61
3:MC:52:VAL:O	3:MC:52:VAL:HG13	2.00	0.61
3:MC:132:TYR:OXT	3:NJ:2:LYS:NZ	2.30	0.61
3:ML:101:THR:HG23	3:ML:104:GLU:H	1.64	0.61
3:NH:112:LEU:O	3:NH:116:LEU:HD23	2.00	0.61
3:NJ:52:VAL:O	3:NJ:52:VAL:HG23	2.01	0.61
1:A:11:U:N3	1:A:13:U:OP1	2.34	0.61
1:A:2350:G:N2	1:A:2365:C:C2	2.62	0.61
1:A:3928:C:O3'	3:FG:61:ASN:ND2	2.33	0.61
1:A:4202:G:P	2:M:381:TYR:HH	2.23	0.61
3:BC:3:LEU:HD11	3:MA:132:TYR:CB	2.30	0.61
3:BG:119:PRO:O	3:BG:122:ILE:HG12	2.00	0.61
3:BJ:125:ILE:CD1	3:BN:64:VAL:HG11	2.30	0.61
3:CD:21:LEU:HG	3:CD:35:LEU:HB3	1.82	0.61
3:CI:48:VAL:HG13	3:CI:68:ILE:HD13	1.82	0.61
3:CK:125:ILE:HD13	3:NC:94:PHE:HD2	1.63	0.61
3:CL:112:LEU:HD22	3:HH:116:LEU:CD1	2.30	0.61
3:DI:102:ASP:OD2	3:DI:103:GLU:N	2.32	0.61
3:EF:11:ILE:HG22	3:EF:17:GLN:O	2.00	0.61
3:FN:19:LEU:HD13	3:FN:46:LYS:NZ	2.15	0.61
3:GC:52:VAL:HG13	3:GC:62:TYR:OH	2.01	0.61
3:GH:64:VAL:HG11	3:KB:125:ILE:HD13	1.82	0.61
3:IC:102:ASP:OD1	3:IC:103:GLU:N	2.32	0.61
3:IJ:126:ASP:OD1	3:NE:106:ALA:HB2	1.99	0.61
3:KC:8:LEU:HD11	3:LC:115:LEU:HD23	1.81	0.61
3:KD:119:PRO:HA	3:KD:122:ILE:HD12	1.83	0.61
3:KE:60:LYS:H	3:KE:61:ASN:HB3	1.63	0.61
3:KG:101:THR:HG23	3:KG:104:GLU:H	1.65	0.61
3:KI:111:GLU:O	3:KI:115:LEU:HD23	2.00	0.61
3:LF:37:GLN:OE1	3:LF:46:LYS:NZ	2.22	0.61
3:LG:110:THR:CB	3:MG:11:ILE:HD12	2.31	0.61
3:LL:8:LEU:HD12	3:LL:8:LEU:N	2.15	0.61
3:MI:32:VAL:HG12	3:MI:51:SER:HB2	1.81	0.61
3:NA:125:ILE:O	3:NA:128:LEU:HD12	2.00	0.61
3:BD:121:LEU:O	3:BD:125:ILE:HG22	2.00	0.61
3:BJ:8:LEU:HD11	3:BN:114:ALA:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:92:VAL:HG22	3:DJ:92:VAL:CG2	2.23	0.61
3:CB:18:THR:C	3:CB:19:LEU:HD22	2.20	0.61
3:CH:3:LEU:HD23	3:CH:3:LEU:H	1.64	0.61
3:CK:30:ASN:OD1	3:CK:32:VAL:HG23	2.00	0.61
3:DE:62:TYR:CD2	3:EL:128:LEU:CD2	2.84	0.61
3:DE:105:ARG:HD2	3:EL:128:LEU:HD11	1.81	0.61
3:DE:110:THR:CB	3:EL:11:ILE:HD12	2.30	0.61
3:EB:109:ARG:CZ	3:MJ:125:ILE:HG13	2.30	0.61
3:FJ:106:ALA:HB3	3:HF:13:LYS:CE	2.30	0.61
3:GD:3:LEU:HD23	3:GD:3:LEU:H	1.63	0.61
3:HA:3:LEU:HD12	3:HA:23:PRO:CB	2.30	0.61
3:IC:54:GLN:O	3:IC:59:ARG:HD2	2.00	0.61
3:IM:11:ILE:HD11	3:JM:111:GLU:N	2.16	0.61
3:KN:97:THR:O	3:KN:100:SER:OG	2.15	0.61
3:LD:100:SER:OG	3:LD:105:ARG:NH1	2.33	0.61
3:LL:41:VAL:O	3:LL:44:LEU:HG	2.01	0.61
3:ME:92:VAL:HG21	3:NH:112:LEU:HD11	1.83	0.61
3:NB:60:LYS:H	3:NB:61:ASN:HB3	1.65	0.61
3:BD:92:VAL:HG22	3:JB:92:VAL:HG22	1.82	0.61
3:BD:103:GLU:OE1	3:BD:103:GLU:N	2.31	0.61
3:BH:11:ILE:HG22	3:BH:17:GLN:O	1.99	0.61
3:CA:8:LEU:CD1	3:DH:115:LEU:HD22	2.31	0.61
3:CH:122:ILE:HG22	3:HL:109:ARG:CZ	2.30	0.61
3:CM:23:PRO:HA	3:CM:35:LEU:HD13	1.81	0.61
3:EC:105:ARG:CZ	3:LK:125:ILE:O	2.48	0.61
3:EG:92:VAL:HG21	3:GC:112:LEU:HD11	1.83	0.61
3:EI:116:LEU:HD23	3:GA:113:ALA:HB2	1.83	0.61
3:FC:68:ILE:HD12	3:GB:112:LEU:HD13	1.81	0.61
3:FG:11:ILE:HG23	3:FG:17:GLN:HB2	1.82	0.61
3:FJ:24:ARG:NH2	3:HD:128:LEU:O	2.33	0.61
3:HA:127:GLN:N	3:HA:127:GLN:OE1	2.34	0.61
3:JB:18:THR:C	3:JB:19:LEU:HD22	2.21	0.61
3:KJ:24:ARG:NE	3:KJ:36:SER:OG	2.33	0.61
3:KK:132:TYR:HE1	3:MH:26:VAL:HG21	1.65	0.61
3:LJ:24:ARG:HA	3:LJ:24:ARG:NE	2.16	0.61
3:NC:102:ASP:OD1	3:NC:103:GLU:N	2.33	0.61
3:NE:6:VAL:HG12	3:NE:8:LEU:CD1	2.29	0.61
3:NH:52:VAL:O	3:NH:52:VAL:HG23	1.99	0.61
1:A:1334:C:HO2'	1:A:1335:A:P	2.20	0.61
1:A:3604:G:N7	3:FB:57:ARG:NH1	2.47	0.61
1:A:4110:C:O3'	3:D:47:ARG:NH1	2.23	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:90:ALA:HB2	3:MK:94:PHE:CD1	2.36	0.61
3:BC:128:LEU:HD11	3:ND:105:ARG:NE	2.15	0.61
3:BD:132:TYR:HD2	3:GK:132:TYR:HH	1.48	0.61
3:BL:27:ASN:OD1	3:BL:29:THR:N	2.34	0.61
3:CC:67:LYS:HE3	3:CC:91:ASP:OD1	2.01	0.61
3:CJ:111:GLU:N	3:HJ:11:ILE:HD11	2.16	0.61
3:DB:11:ILE:HD12	3:DK:110:THR:CB	2.30	0.61
3:DC:18:THR:C	3:DC:19:LEU:HD22	2.21	0.61
3:DC:125:ILE:HD12	3:EN:94:PHE:CD2	2.35	0.61
3:FD:24:ARG:NE	3:FD:36:SER:OG	2.32	0.61
3:GF:11:ILE:HD11	3:KD:111:GLU:HG3	1.80	0.61
3:HF:126:ASP:OD2	3:HF:127:GLN:NE2	2.33	0.61
3:HI:111:GLU:O	3:HI:115:LEU:HD23	2.00	0.61
3:IG:115:LEU:HD11	3:JJ:48:VAL:HG11	1.82	0.61
3:JF:86:ARG:NH2	3:KA:104:GLU:OE1	2.33	0.61
3:JG:122:ILE:HA	3:LD:109:ARG:HH22	1.66	0.61
3:JG:125:ILE:HD12	3:LD:94:PHE:HD1	1.65	0.61
3:KK:6:VAL:HG12	3:KK:8:LEU:CD2	2.30	0.61
3:LI:27:ASN:O	3:LI:31:GLY:N	2.33	0.61
3:LN:111:GLU:N	3:MI:11:ILE:HD11	2.16	0.61
3:MA:27:ASN:CG	3:MA:29:THR:HG1	2.02	0.61
3:MC:118:SER:O	3:MC:122:ILE:HG12	2.01	0.61
1:A:1133:U:O2'	3:LN:59:ARG:NH2	2.33	0.61
1:A:1425:A:O2'	1:A:1426:A:O4'	2.16	0.61
1:A:3926:G:O2'	1:A:4158:A:N6	2.34	0.61
2:M:308:HIS:CE1	3:B:36:SER:OG	2.53	0.61
3:D:72:THR:HG21	3:D:86:ARG:NH2	2.15	0.61
3:CB:24:ARG:NE	3:HA:129:ASN:OD1	2.32	0.61
3:CD:109:ARG:NH2	3:HA:126:ASP:OD2	2.32	0.61
3:CE:52:VAL:O	3:CE:52:VAL:HG23	1.99	0.61
3:DC:99:TYR:OH	3:DD:84:VAL:HG22	2.00	0.61
3:DE:106:ALA:HB3	3:EL:13:LYS:CE	2.30	0.61
3:EI:109:ARG:NH2	3:GA:126:ASP:CG	2.54	0.61
3:FF:132:TYR:HD1	3:LF:26:VAL:HG21	1.65	0.61
3:FG:19:LEU:HD21	3:KG:107:PHE:HZ	1.66	0.61
3:FG:70:ASN:ND2	3:KG:108:VAL:HG22	2.14	0.61
3:FH:122:ILE:HA	3:FK:109:ARG:CZ	2.30	0.61
3:FH:125:ILE:HB	3:FK:109:ARG:NH2	2.15	0.61
3:FJ:18:THR:C	3:FJ:19:LEU:HD22	2.21	0.61
3:GC:22:ASN:N	3:GC:36:SER:O	2.31	0.61
3:HI:127:GLN:O	3:IJ:24:ARG:NH2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IJ:86:ARG:HH22	3:NE:100:SER:N	1.98	0.61
3:IM:48:VAL:HG13	3:IM:68:ILE:CD1	2.31	0.61
3:JG:99:TYR:OH	3:JH:84:VAL:N	2.32	0.61
3:JI:8:LEU:HD12	3:LB:114:ALA:CB	2.30	0.61
3:LG:86:ARG:NH1	3:MG:100:SER:HA	2.15	0.61
3:LG:110:THR:HB	3:MG:11:ILE:HD12	1.82	0.61
3:LK:15:GLY:O	3:LK:16:LYS:HE2	2.01	0.61
1:A:151:G:O2'	1:A:153:A:OP1	2.16	0.61
1:A:1400:U:H3	1:A:1542:G:H22	1.49	0.61
1:A:3086:U:H3	1:A:3128:C:H42	1.49	0.61
1:A:3238:U:HO2'	1:A:3239:U:C5'	2.13	0.61
3:BC:32:VAL:HG12	3:BC:51:SER:CB	2.29	0.61
3:BJ:60:LYS:N	3:BJ:61:ASN:HB3	2.16	0.61
3:DA:101:THR:HG23	3:MM:86:ARG:NH2	2.15	0.61
3:DB:68:ILE:CG2	3:DB:90:ALA:HB3	2.31	0.61
3:DC:113:ALA:HB2	3:EN:116:LEU:CD2	2.31	0.61
3:DM:98:GLN:HG3	3:DN:43:ALA:HB2	1.82	0.61
3:EF:65:GLN:OE1	3:EF:67:LYS:NZ	2.19	0.61
3:FM:21:LEU:HB3	3:FM:35:LEU:HG	1.82	0.61
3:GF:48:VAL:HG13	3:GF:68:ILE:CD1	2.30	0.61
3:GJ:128:LEU:HD12	3:GN:105:ARG:NH1	2.13	0.61
3:IG:48:VAL:HG13	3:IG:68:ILE:CD1	2.30	0.61
3:JI:110:THR:CB	3:LB:11:ILE:HD12	2.31	0.61
3:JL:102:ASP:OD1	3:JL:103:GLU:N	2.33	0.61
3:JN:11:ILE:HG22	3:JN:17:GLN:C	2.20	0.61
3:JN:106:ALA:O	3:JN:109:ARG:HG2	1.99	0.61
3:KI:24:ARG:NH2	3:KL:127:GLN:O	2.32	0.61
3:LN:128:LEU:HD11	3:MI:105:ARG:CD	2.30	0.61
3:NI:61:ASN:ND2	3:NI:96:PHE:O	2.34	0.61
1:A:12:U:O2	3:HL:69:GLN:NE2	2.34	0.61
1:A:191:G:H8	3:NB:57:ARG:NH2	1.99	0.61
1:A:2763:C:H2'	1:A:2764:U:O4'	2.00	0.61
1:A:3303:G:N2	1:A:3317:U:O2	2.33	0.61
1:A:4063:U:O2	1:A:4090:G:N2	2.34	0.61
3:BA:11:ILE:HG22	3:BA:17:GLN:O	2.01	0.61
3:BB:132:TYR:CE2	3:MB:26:VAL:HG12	2.35	0.61
3:BG:26:VAL:HG13	3:BG:32:VAL:C	2.21	0.61
3:BI:64:VAL:HG11	3:HM:125:ILE:HD11	1.81	0.61
3:CD:13:LYS:HE2	3:HA:103:GLU:OE1	2.01	0.61
3:CF:109:ARG:HH12	3:GM:122:ILE:HA	1.66	0.61
3:CN:13:LYS:HE2	3:DD:103:GLU:HA	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:109:ARG:HD3	3:DK:125:ILE:HG21	1.82	0.61
3:DC:125:ILE:O	3:DC:128:LEU:HD12	2.01	0.61
3:DN:34:SER:C	3:DN:35:LEU:HD12	2.21	0.61
3:ED:116:LEU:CD2	3:EH:113:ALA:HB2	2.29	0.61
3:EI:86:ARG:NH1	3:GA:99:TYR:O	2.26	0.61
3:GC:122:ILE:O	3:GC:126:ASP:CB	2.49	0.61
3:GE:6:VAL:HG12	3:GE:8:LEU:CD2	2.30	0.61
3:GE:79:SER:O	3:GE:80:CYS:HB2	2.01	0.61
3:GI:129:ASN:OD1	3:JA:25:GLY:N	2.34	0.61
3:GN:15:GLY:O	3:GN:16:LYS:HE2	2.01	0.61
3:IH:52:VAL:O	3:IH:52:VAL:HG13	2.01	0.61
3:IM:114:ALA:CB	3:JM:8:LEU:HD22	2.31	0.61
3:JE:104:GLU:O	3:JE:108:VAL:HG23	2.00	0.61
3:KJ:13:LYS:CE	3:LE:106:ALA:HB3	2.31	0.61
3:LA:8:LEU:HD12	3:MD:114:ALA:HB3	1.83	0.61
3:LG:117:ALA:O	3:LG:122:ILE:HD11	2.00	0.61
3:MC:105:ARG:HH12	3:NJ:128:LEU:N	1.99	0.61
3:MC:125:ILE:CD1	3:NJ:64:VAL:HG11	2.30	0.61
3:ME:111:GLU:CD	3:NH:68:ILE:HD12	2.21	0.61
3:MK:13:LYS:HD3	3:MK:13:LYS:N	2.14	0.61
1:A:1419:G:O6	1:A:1431:A:N6	2.33	0.61
1:A:2876:U:H3	1:A:2881:A:H61	1.49	0.61
1:A:3347:G:H2'	1:A:3348:U:O4'	2.01	0.61
1:A:3506:A:H2'	1:A:3507:A:O4'	2.01	0.61
1:A:3862:C:O2'	1:A:3863:U:O5'	2.19	0.61
3:BA:4:GLU:N	3:BA:4:GLU:OE1	2.33	0.61
3:BB:117:ALA:O	3:BB:122:ILE:HD11	2.01	0.61
3:BF:92:VAL:HG22	3:IN:92:VAL:CG2	2.27	0.61
3:BG:86:ARG:NH2	3:IA:101:THR:HG23	2.16	0.61
3:CB:52:VAL:O	3:CB:52:VAL:HG23	2.01	0.61
3:CF:11:ILE:HG13	3:GM:110:THR:HG23	1.82	0.61
3:DC:109:ARG:HE	3:DC:110:THR:HG23	1.66	0.61
3:DM:52:VAL:HG12	3:DM:64:VAL:HG22	1.83	0.61
3:FK:13:LYS:CD	3:FK:13:LYS:N	2.63	0.61
3:FN:54:GLN:O	3:FN:59:ARG:NH2	2.34	0.61
3:GA:56:SER:HG	3:GA:59:ARG:NE	1.97	0.61
3:GL:52:VAL:HG12	3:GL:64:VAL:CG2	2.27	0.61
3:HI:11:ILE:HD11	3:II:111:GLU:N	2.15	0.61
3:HI:55:PRO:HD3	3:HI:62:TYR:CD1	2.36	0.61
3:IF:52:VAL:HG12	3:IF:64:VAL:HG13	1.83	0.61
3:JB:111:GLU:O	3:JB:115:LEU:HD23	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JM:54:GLN:N	3:JM:54:GLN:OE1	2.34	0.61
3:KH:94:PHE:CD2	3:KL:125:ILE:HD12	2.35	0.61
3:KH:99:TYR:OH	3:KI:84:VAL:N	2.29	0.61
3:LA:115:LEU:HD22	3:MD:8:LEU:CD1	2.29	0.61
3:LJ:52:VAL:HG12	3:LJ:64:VAL:HG22	1.81	0.61
3:MB:43:ALA:C	3:MB:44:LEU:HD22	2.21	0.61
3:MB:100:SER:OG	3:MB:105:ARG:NH1	2.30	0.61
3:MK:48:VAL:HG22	3:MK:68:ILE:CD1	2.31	0.61
3:NE:119:PRO:O	3:NE:122:ILE:HG22	2.01	0.61
1:A:3250:U:OP2	3:MH:67:LYS:NZ	2.19	0.60
1:A:3709:U:O4	3:ML:57:ARG:NH1	2.34	0.60
3:BB:91:ASP:OD1	3:MA:93:THR:HB	2.01	0.60
3:BK:62:TYR:CD2	3:HK:128:LEU:HD23	2.36	0.60
3:CC:8:LEU:HD12	3:DF:114:ALA:CB	2.31	0.60
3:DB:22:ASN:OD1	3:DB:23:PRO:HD2	2.00	0.60
3:DI:97:THR:N	3:DI:100:SER:HG	1.98	0.60
3:EE:19:LEU:HD21	3:LI:107:PHE:HZ	1.66	0.60
3:EI:99:TYR:HB2	3:GA:86:ARG:HE	1.66	0.60
3:EJ:55:PRO:HG3	3:EJ:62:TYR:CE1	2.36	0.60
3:FF:100:SER:OG	3:FF:105:ARG:NH1	2.33	0.60
3:GF:111:GLU:OE1	3:KD:68:ILE:HD13	2.00	0.60
3:GG:112:LEU:O	3:GG:112:LEU:HD23	2.00	0.60
3:GK:54:GLN:NE2	3:GL:24:ARG:O	2.34	0.60
3:IC:115:LEU:HD22	3:JN:8:LEU:HD11	1.82	0.60
3:IG:6:VAL:HG12	3:IG:8:LEU:HD22	1.83	0.60
3:IK:19:LEU:HD11	3:IK:46:LYS:CE	2.30	0.60
3:JK:109:ARG:NH1	3:KN:126:ASP:OD2	2.34	0.60
3:KJ:13:LYS:NZ	3:LE:106:ALA:HB3	2.15	0.60
3:NB:3:LEU:HD23	3:NB:3:LEU:H	1.66	0.60
1:A:1328:U:C4	1:A:1594:C:C2	2.89	0.60
1:A:2394:U:OP1	3:FK:67:LYS:NZ	2.34	0.60
1:A:4135:C:O3'	3:KE:59:ARG:NH2	2.35	0.60
3:BE:11:ILE:HG22	3:BE:17:GLN:O	1.99	0.60
3:BH:112:LEU:HD11	3:IL:92:VAL:HG21	1.83	0.60
3:CE:13:LYS:N	3:CE:13:LYS:CD	2.64	0.60
3:CH:85:THR:HG23	3:CH:86:ARG:HG3	1.83	0.60
3:DC:128:LEU:HD22	3:EN:62:TYR:CD1	2.36	0.60
3:EK:11:ILE:HD12	3:FM:110:THR:CB	2.31	0.60
3:FB:52:VAL:HG22	3:FB:64:VAL:HG13	1.83	0.60
3:FJ:105:ARG:NE	3:HF:128:LEU:HD11	2.17	0.60
3:FL:127:GLN:HB2	3:FL:129:ASN:OD1	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GI:115:LEU:HD23	3:JC:8:LEU:CD1	2.31	0.60
3:HH:3:LEU:HD21	3:HJ:2:LYS:HD3	1.83	0.60
3:IB:86:ARG:HH12	3:IK:100:SER:N	2.00	0.60
3:IC:116:LEU:O	3:JN:109:ARG:NH2	2.34	0.60
3:JG:122:ILE:HD12	3:LD:109:ARG:NH2	2.16	0.60
3:JI:11:ILE:HD12	3:LB:110:THR:CB	2.31	0.60
3:LA:110:THR:CB	3:MD:11:ILE:HD12	2.31	0.60
3:LE:11:ILE:HG22	3:LE:17:GLN:C	2.21	0.60
3:NA:48:VAL:HG22	3:NA:68:ILE:CD1	2.31	0.60
1:A:1999:G:O2'	3:GI:59:ARG:NH2	2.30	0.60
1:A:3708:U:O4	3:ML:57:ARG:NH2	2.31	0.60
3:BD:62:TYR:CD2	3:JB:128:LEU:HD23	2.36	0.60
3:BL:24:ARG:NE	3:BL:36:SER:OG	2.34	0.60
3:BM:116:LEU:HD21	3:DJ:109:ARG:HG3	1.83	0.60
3:CC:26:VAL:HG11	3:DF:132:TYR:CE2	2.36	0.60
3:CJ:125:ILE:CD1	3:HJ:64:VAL:HG11	2.30	0.60
3:CL:11:ILE:HD11	3:HH:111:GLU:N	2.16	0.60
3:CM:112:LEU:O	3:CM:116:LEU:HD23	2.01	0.60
3:DG:109:ARG:HH22	3:EJ:126:ASP:CA	2.13	0.60
3:DL:101:THR:HG23	3:MN:86:ARG:NH2	2.16	0.60
3:EG:11:ILE:HG22	3:EG:17:GLN:C	2.21	0.60
3:EK:14:ASP:OD1	3:EK:16:LYS:N	2.34	0.60
3:FB:98:GLN:OE1	3:FC:43:ALA:HB2	2.01	0.60
3:FI:11:ILE:HG23	3:FI:17:GLN:HB2	1.82	0.60
3:GD:126:ASP:OD1	3:KF:109:ARG:NH1	2.34	0.60
3:HG:34:SER:C	3:HG:35:LEU:HD12	2.21	0.60
3:IJ:11:ILE:HG22	3:IJ:17:GLN:C	2.21	0.60
3:JD:118:SER:O	3:JD:122:ILE:HG23	2.00	0.60
3:JL:7:THR:C	3:JL:8:LEU:HD22	2.22	0.60
3:KI:67:LYS:O	3:KI:68:ILE:HD13	2.00	0.60
3:KM:103:GLU:HA	3:MF:13:LYS:HZ3	1.67	0.60
3:LA:125:ILE:HG13	3:MD:109:ARG:HH21	1.67	0.60
3:LH:55:PRO:HA	3:LH:60:LYS:O	2.01	0.60
3:LJ:21:LEU:CD1	3:LJ:48:VAL:HG21	2.30	0.60
3:LN:52:VAL:O	3:LN:52:VAL:HG13	2.01	0.60
3:MC:52:VAL:HG23	3:MC:64:VAL:HG22	1.83	0.60
3:ND:11:ILE:HG22	3:ND:17:GLN:C	2.21	0.60
1:A:1833:A:O5'	3:JA:60:LYS:NZ	2.33	0.60
1:A:2357:U:O2'	1:A:2358:A:OP1	2.17	0.60
3:BF:13:LYS:HZ2	3:IN:103:GLU:CA	2.13	0.60
3:BG:112:LEU:O	3:BG:116:LEU:HD23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CA:11:ILE:HG22	3:CA:17:GLN:C	2.21	0.60
3:CB:126:ASP:OD1	3:HC:106:ALA:N	2.35	0.60
3:CM:114:ALA:HB1	3:NA:8:LEU:CD1	2.30	0.60
3:DC:128:LEU:HD22	3:EN:62:TYR:HD1	1.65	0.60
3:DG:99:TYR:N	3:EJ:86:ARG:NH2	2.49	0.60
3:EB:80:CYS:HB3	3:LM:74:CYS:HA	1.82	0.60
3:ED:11:ILE:HG22	3:ED:17:GLN:C	2.22	0.60
3:EF:64:VAL:HG11	3:FA:125:ILE:CD1	2.31	0.60
3:FA:119:PRO:HA	3:FA:122:ILE:HD12	1.82	0.60
3:FM:18:THR:C	3:FM:19:LEU:HD22	2.22	0.60
3:GN:32:VAL:HG22	3:GN:51:SER:OG	2.01	0.60
3:HN:37:GLN:OE1	3:HN:39:GLY:N	2.33	0.60
3:IE:120:LEU:HD22	3:IE:121:LEU:HD12	1.83	0.60
3:IG:106:ALA:HB3	3:JJ:13:LYS:CE	2.31	0.60
3:JE:30:ASN:OD1	3:JE:32:VAL:HG23	2.02	0.60
3:KJ:11:ILE:HD12	3:LE:110:THR:OG1	2.01	0.60
3:NC:24:ARG:NH2	3:NF:128:LEU:O	2.34	0.60
1:A:1131:U:C2	1:A:1151:G:C2	2.89	0.60
1:A:2505:U:H2'	1:A:2506:G:O4'	2.01	0.60
1:A:2543:U:O3'	1:A:2544:G:N2	2.35	0.60
1:A:2688:C:H42	1:A:2763:C:N4	1.98	0.60
3:BA:85:THR:HG21	3:ML:80:CYS:SG	2.40	0.60
3:BL:11:ILE:HD11	3:CG:111:GLU:N	2.16	0.60
3:CI:79:SER:O	3:CI:80:CYS:SG	2.59	0.60
3:CM:110:THR:CB	3:NA:11:ILE:HD12	2.31	0.60
3:DC:125:ILE:HD12	3:EN:94:PHE:HD2	1.67	0.60
3:DG:125:ILE:HG21	3:EJ:109:ARG:HD3	1.81	0.60
3:FE:52:VAL:HG12	3:FE:64:VAL:HG22	1.83	0.60
3:FI:11:ILE:HD11	3:KE:111:GLU:HG3	1.84	0.60
3:FI:110:THR:CB	3:KE:11:ILE:HD12	2.30	0.60
3:GF:127:GLN:N	3:GF:127:GLN:OE1	2.35	0.60
3:GG:11:ILE:HG22	3:GG:17:GLN:O	2.02	0.60
3:GH:109:ARG:CZ	3:KB:122:ILE:HG22	2.32	0.60
3:GK:127:GLN:O	3:JB:24:ARG:NH2	2.26	0.60
3:GM:56:SER:N	3:GM:59:ARG:HB2	2.17	0.60
3:HL:112:LEU:O	3:HL:116:LEU:HD23	2.01	0.60
3:KH:111:GLU:N	3:KL:11:ILE:HD11	2.16	0.60
3:NG:6:VAL:HG12	3:NG:8:LEU:CD2	2.32	0.60
1:A:1271:U:N3	1:A:1276:C:O2	2.34	0.60
1:A:2000:G:O4'	3:GI:59:ARG:NH2	2.35	0.60
1:A:2284:A:N1	1:A:2302:U:H2'	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:13:LYS:N	3:BC:13:LYS:HD3	2.17	0.60
3:BL:109:ARG:HH12	3:CG:122:ILE:HD13	1.63	0.60
3:CL:8:LEU:HD22	3:HH:114:ALA:CB	2.32	0.60
3:DB:13:LYS:HZ2	3:DK:103:GLU:HA	1.66	0.60
3:DG:26:VAL:HG11	3:EJ:132:TYR:CE1	2.36	0.60
3:DG:115:LEU:HD22	3:EJ:8:LEU:HD11	1.83	0.60
3:EA:6:VAL:HG12	3:EA:8:LEU:CD2	2.31	0.60
3:EE:8:LEU:HD11	3:EE:11:ILE:CD1	2.30	0.60
3:EL:24:ARG:NH1	3:FM:129:ASN:OD1	2.34	0.60
3:FC:67:LYS:NZ	3:FC:91:ASP:OD2	2.32	0.60
3:FM:118:SER:O	3:FM:122:ILE:HG23	2.02	0.60
3:GG:44:LEU:O	3:GG:44:LEU:HD12	2.01	0.60
3:HB:11:ILE:HG22	3:HB:17:GLN:C	2.21	0.60
3:HE:11:ILE:HG22	3:HE:17:GLN:C	2.22	0.60
3:HI:119:PRO:HA	3:HI:122:ILE:HD12	1.82	0.60
3:HK:108:VAL:HA	3:HK:111:GLU:OE2	2.01	0.60
3:HM:11:ILE:HG22	3:HM:17:GLN:C	2.22	0.60
3:IC:41:VAL:O	3:IC:44:LEU:HG	2.02	0.60
3:IE:99:TYR:O	3:JL:86:ARG:NH2	2.34	0.60
3:JG:11:ILE:HG22	3:JG:17:GLN:O	2.01	0.60
3:KC:48:VAL:HG22	3:KC:68:ILE:CD1	2.31	0.60
3:KH:60:LYS:H	3:KH:61:ASN:HB3	1.65	0.60
3:KI:24:ARG:NH1	3:KL:127:GLN:O	2.35	0.60
3:KK:114:ALA:HB1	3:MH:8:LEU:HD12	1.82	0.60
3:LG:125:ILE:HG23	3:MG:109:ARG:NE	2.16	0.60
3:ME:128:LEU:HD11	3:NH:62:TYR:CG	2.37	0.60
3:NG:11:ILE:HG22	3:NG:17:GLN:O	2.01	0.60
2:M:292:ARG:NH2	2:M:296:ASP:OD2	2.29	0.60
3:BF:127:GLN:N	3:BF:127:GLN:OE1	2.35	0.60
3:CK:105:ARG:NE	3:NC:128:LEU:HD11	2.17	0.60
3:CN:27:ASN:ND2	3:CN:30:ASN:OD1	2.35	0.60
3:DC:125:ILE:HD11	3:EN:64:VAL:HG11	1.84	0.60
3:EG:32:VAL:HG22	3:EG:51:SER:HB2	1.83	0.60
3:GI:19:LEU:CD1	3:JC:111:GLU:OE1	2.49	0.60
3:GM:11:ILE:HG22	3:GM:17:GLN:C	2.22	0.60
3:HC:6:VAL:HG12	3:HC:8:LEU:CD2	2.32	0.60
3:IA:109:ARG:HD2	3:IA:110:THR:N	2.16	0.60
3:IE:8:LEU:HD22	3:JL:115:LEU:HD22	1.82	0.60
3:IN:24:ARG:NH1	3:JM:128:LEU:O	2.35	0.60
3:LE:6:VAL:HG12	3:LE:8:LEU:CD2	2.31	0.60
3:LG:79:SER:O	3:LG:80:CYS:HB3	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MA:128:LEU:HD12	3:MA:128:LEU:N	2.16	0.60
3:MC:111:GLU:O	3:MC:115:LEU:HD23	2.02	0.60
3:MF:52:VAL:HG23	3:MF:52:VAL:O	2.01	0.60
3:NE:23:PRO:HA	3:NE:35:LEU:HD23	1.82	0.60
1:A:3665:A:H3'	3:LH:59:ARG:HH12	1.65	0.60
3:B:8:LEU:CD1	3:D:114:ALA:HB3	2.31	0.60
3:BC:128:LEU:HD11	3:ND:105:ARG:CD	2.32	0.60
3:BD:119:PRO:HA	3:BD:122:ILE:HG22	1.82	0.60
3:BD:122:ILE:HD12	3:JB:105:ARG:HH22	1.67	0.60
3:CN:105:ARG:O	3:CN:108:VAL:HG22	2.01	0.60
3:EA:132:TYR:CZ	3:LM:26:VAL:HG11	2.37	0.60
3:EB:11:ILE:HD12	3:MJ:110:THR:OG1	2.02	0.60
3:EC:52:VAL:HG12	3:EC:64:VAL:CG2	2.27	0.60
3:EE:96:PHE:CZ	3:EE:105:ARG:HG2	2.37	0.60
3:EF:8:LEU:HD11	3:FA:114:ALA:CB	2.29	0.60
3:EK:32:VAL:HG22	3:EK:51:SER:OG	2.02	0.60
3:EM:5:THR:OG1	3:EM:22:ASN:OD1	2.19	0.60
3:FE:132:TYR:CE2	3:KI:26:VAL:HG11	2.36	0.60
3:FI:109:ARG:HE	3:KE:125:ILE:HG23	1.67	0.60
3:FN:61:ASN:ND2	3:FN:96:PHE:O	2.34	0.60
3:GH:111:GLU:O	3:GH:115:LEU:HD23	2.00	0.60
3:GI:121:LEU:O	3:GI:125:ILE:HG22	2.02	0.60
3:HJ:52:VAL:O	3:HJ:52:VAL:HG13	2.02	0.60
3:IC:119:PRO:HA	3:IC:122:ILE:HG12	1.84	0.60
3:IJ:86:ARG:NH1	3:NE:99:TYR:O	2.34	0.60
3:JE:54:GLN:HB3	3:JE:55:PRO:HD2	1.84	0.60
3:JK:15:GLY:O	3:JK:16:LYS:HE2	2.01	0.60
3:JK:52:VAL:O	3:JK:52:VAL:HG23	2.02	0.60
3:LK:11:ILE:HG22	3:LK:17:GLN:C	2.21	0.60
3:NC:67:LYS:NZ	3:NC:91:ASP:OD2	2.34	0.60
3:NH:32:VAL:HG13	3:NH:51:SER:OG	2.02	0.60
1:A:2097:U:O4	1:A:2098:A:N6	2.35	0.60
3:CD:64:VAL:HG11	3:HA:125:ILE:HD11	1.83	0.60
3:CK:52:VAL:O	3:CK:52:VAL:HG23	2.02	0.60
3:CM:132:TYR:OH	3:MN:26:VAL:HG13	2.02	0.60
3:DA:103:GLU:HA	3:MM:13:LYS:NZ	2.17	0.60
3:DC:110:THR:CB	3:EN:11:ILE:HD12	2.32	0.60
3:DL:41:VAL:O	3:DL:44:LEU:HG	2.01	0.60
3:FG:11:ILE:HG22	3:FG:17:GLN:O	2.01	0.60
3:FI:103:GLU:HA	3:KE:13:LYS:HZ2	1.67	0.60
3:FJ:3:LEU:HD13	3:FJ:23:PRO:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FN:8:LEU:HD22	3:HB:114:ALA:HB3	1.82	0.60
3:FN:123:ASP:OD2	3:HB:1:ALA:N	2.32	0.60
3:GD:126:ASP:HB2	3:GD:127:GLN:OE1	2.02	0.60
3:GF:127:GLN:O	3:KB:24:ARG:NH1	2.32	0.60
3:GJ:128:LEU:CD1	3:GN:105:ARG:HH12	2.12	0.60
3:GJ:128:LEU:O	3:HA:24:ARG:NH1	2.34	0.60
3:HK:11:ILE:HG22	3:HK:17:GLN:O	2.02	0.60
3:JB:6:VAL:HG12	3:JB:8:LEU:CD2	2.32	0.60
3:JG:125:ILE:CD1	3:LD:94:PHE:HD1	2.15	0.60
3:KK:125:ILE:CD1	3:MH:64:VAL:HG11	2.32	0.60
3:LA:86:ARG:NH2	3:MD:97:THR:OG1	2.34	0.60
3:MC:55:PRO:HG3	3:MC:62:TYR:CZ	2.36	0.60
1:A:190:C:O3'	3:NB:57:ARG:NH1	2.35	0.60
1:A:2444:U:O2'	1:A:2445:U:O5'	2.20	0.60
3:BF:115:LEU:HD12	3:IN:8:LEU:CD2	2.32	0.60
3:DB:68:ILE:HG23	3:DB:90:ALA:HB3	1.84	0.60
3:DB:90:ALA:HB1	3:DK:94:PHE:CE2	2.37	0.60
3:DC:44:LEU:HD22	3:DE:98:GLN:O	2.02	0.60
3:ED:41:VAL:O	3:ED:44:LEU:HG	2.01	0.60
3:GB:52:VAL:HG13	3:GB:64:VAL:HG22	1.84	0.60
3:GF:127:GLN:O	3:KB:24:ARG:NH2	2.33	0.60
3:IG:55:PRO:HD3	3:IG:62:TYR:CD1	2.37	0.60
3:JE:79:SER:HA	3:JH:75:THR:O	2.01	0.60
3:JK:110:THR:OG1	3:KN:11:ILE:HD12	2.02	0.60
3:KE:59:ARG:HA	3:KE:59:ARG:NE	2.16	0.60
3:KG:27:ASN:OD1	3:KG:29:THR:N	2.33	0.60
3:KG:49:THR:HB	3:KG:67:LYS:HG2	1.83	0.60
3:KG:52:VAL:HG13	3:KG:62:TYR:OH	2.01	0.60
3:NJ:11:ILE:HG22	3:NJ:17:GLN:C	2.22	0.60
1:A:1410:A:OP1	3:EK:59:ARG:NE	2.35	0.59
1:A:1680:C:HO2'	1:A:1681:U:P	2.22	0.59
1:A:1780:A:H61	3:BF:55:PRO:HD2	1.67	0.59
1:A:2489:U:C2'	1:A:2585:G:H22	2.14	0.59
2:M:152:GLU:O	2:M:156:THR:HG23	2.02	0.59
3:BA:131:ALA:O	3:BA:132:TYR:CD1	2.55	0.59
3:BC:114:ALA:HB3	3:ND:8:LEU:HD12	1.84	0.59
3:BI:11:ILE:HG22	3:BI:17:GLN:O	2.02	0.59
3:CA:66:VAL:HG21	3:DH:121:LEU:HD11	1.84	0.59
3:CD:111:GLU:O	3:CD:115:LEU:HD23	2.02	0.59
3:CK:5:THR:HG22	3:CK:22:ASN:OD1	2.01	0.59
3:CK:125:ILE:HD11	3:NC:96:PHE:CE2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:111:GLU:N	3:DK:11:ILE:HD11	2.17	0.59
3:DC:125:ILE:CD1	3:EN:64:VAL:HG11	2.31	0.59
3:EA:114:ALA:CB	3:LM:8:LEU:HD12	2.30	0.59
3:EB:111:GLU:N	3:MJ:11:ILE:HD11	2.16	0.59
3:ED:110:THR:OG1	3:EH:11:ILE:HB	2.02	0.59
3:EI:121:LEU:O	3:GA:109:ARG:NH1	2.32	0.59
3:EL:52:VAL:O	3:EL:52:VAL:HG13	2.02	0.59
3:FL:110:THR:OG1	3:HD:11:ILE:HD12	2.01	0.59
3:FN:102:ASP:OD1	3:FN:103:GLU:N	2.35	0.59
3:GD:8:LEU:HD12	3:KF:114:ALA:CB	2.31	0.59
3:GK:121:LEU:O	3:GK:125:ILE:HG22	2.02	0.59
3:GM:67:LYS:HG2	3:GM:91:ASP:OD2	2.02	0.59
3:HJ:34:SER:C	3:HJ:35:LEU:HD12	2.22	0.59
3:IF:86:ARG:NH2	3:NI:99:TYR:O	2.33	0.59
3:JE:13:LYS:N	3:JE:13:LYS:HD2	2.17	0.59
3:LA:30:ASN:OD1	3:LA:32:VAL:HG12	2.02	0.59
3:LB:11:ILE:HG22	3:LB:17:GLN:C	2.22	0.59
3:LG:125:ILE:CD1	3:MG:94:PHE:HD1	2.15	0.59
3:LG:126:ASP:H	3:MG:109:ARG:HH21	1.49	0.59
3:LN:102:ASP:O	3:MI:13:LYS:NZ	2.33	0.59
3:MG:48:VAL:HG22	3:MG:68:ILE:HD12	1.83	0.59
3:MM:6:VAL:HG12	3:MM:8:LEU:CD2	2.31	0.59
1:A:491:A:OP1	3:HK:59:ARG:NH2	2.33	0.59
1:A:3455:C:H2'	1:A:3456:C:C6	2.37	0.59
1:A:4085:C:C2	1:A:4086:C:C5	2.90	0.59
3:D:36:SER:OG	3:D:46:LYS:O	2.18	0.59
3:EC:11:ILE:HG22	3:EC:17:GLN:C	2.23	0.59
3:EH:98:GLN:HG3	3:EH:99:TYR:HD1	1.67	0.59
3:GG:41:VAL:O	3:GG:44:LEU:HG	2.02	0.59
3:GL:11:ILE:HG22	3:GL:17:GLN:C	2.22	0.59
3:HC:48:VAL:HG13	3:HC:68:ILE:CD1	2.32	0.59
3:IC:132:TYR:O	3:JN:2:LYS:NZ	2.34	0.59
3:IG:48:VAL:HG13	3:IG:68:ILE:HD13	1.84	0.59
3:JB:105:ARG:O	3:JB:108:VAL:HG12	2.02	0.59
3:JD:60:LYS:N	3:JD:61:ASN:HB3	2.17	0.59
3:JD:86:ARG:HH12	3:JH:101:THR:HG23	1.67	0.59
3:LL:110:THR:OG1	3:MB:11:ILE:HD12	2.02	0.59
3:MC:129:ASN:OD1	3:NH:24:ARG:HA	2.01	0.59
3:MD:18:THR:O	3:MD:19:LEU:HD22	2.01	0.59
1:A:649:C:O2	1:A:651:G:N2	2.35	0.59
1:A:3170:U:O2'	1:A:3212:U:OP1	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:39:THR:HG22	2:M:52:ARG:HG2	1.83	0.59
3:BI:64:VAL:HG11	3:HM:125:ILE:CD1	2.32	0.59
3:CC:131:ALA:HA	3:DF:1:ALA:HB1	1.83	0.59
3:CE:48:VAL:HG13	3:CE:68:ILE:HD13	1.84	0.59
3:CE:60:LYS:H	3:CE:61:ASN:HB3	1.67	0.59
3:CJ:112:LEU:O	3:CJ:116:LEU:HD23	2.02	0.59
3:CM:11:ILE:HD11	3:NA:111:GLU:N	2.17	0.59
3:CN:48:VAL:HG11	3:DD:115:LEU:HD11	1.85	0.59
3:DA:48:VAL:HG22	3:DA:68:ILE:HD12	1.83	0.59
3:DB:3:LEU:HD21	3:DK:131:ALA:HB1	1.82	0.59
3:DE:45:GLU:O	3:DE:47:ARG:NE	2.35	0.59
3:EE:97:THR:O	3:EE:100:SER:OG	2.16	0.59
3:FE:11:ILE:HD11	3:KI:111:GLU:N	2.18	0.59
3:FF:92:VAL:HG21	3:LF:112:LEU:HD11	1.85	0.59
3:FH:6:VAL:HG12	3:FH:8:LEU:CD2	2.32	0.59
3:FJ:55:PRO:HG3	3:FJ:62:TYR:HE1	1.67	0.59
3:FJ:103:GLU:HA	3:HF:13:LYS:CE	2.32	0.59
3:GK:62:TYR:CD2	3:JA:128:LEU:HD21	2.36	0.59
3:GK:116:LEU:CA	3:JA:109:ARG:HH12	2.15	0.59
3:GN:125:ILE:HG23	3:GN:126:ASP:N	2.18	0.59
3:HB:87:GLN:N	3:HB:87:GLN:OE1	2.35	0.59
3:HM:3:LEU:CD1	3:HM:35:LEU:HD11	2.31	0.59
3:IB:114:ALA:CB	3:IK:8:LEU:HD13	2.32	0.59
3:IB:116:LEU:HD11	3:IK:112:LEU:HD22	1.84	0.59
3:IC:23:PRO:HA	3:IC:35:LEU:HD13	1.84	0.59
3:LE:128:LEU:HD12	3:LE:128:LEU:N	2.18	0.59
3:LG:30:ASN:OD1	3:LG:32:VAL:HG12	2.02	0.59
3:LH:19:LEU:HD11	3:LH:21:LEU:HD21	1.82	0.59
3:LN:121:LEU:HB2	3:MI:109:ARG:HH22	1.67	0.59
3:MJ:18:THR:C	3:MJ:19:LEU:HD22	2.23	0.59
3:NG:118:SER:O	3:NG:122:ILE:HG12	2.01	0.59
1:A:97:G:O2'	3:MJ:57:ARG:NE	2.34	0.59
1:A:1094:U:O2	1:A:1189:G:N2	2.35	0.59
1:A:1884:C:H2'	1:A:1885:C:O4'	2.03	0.59
1:A:2225:U:N3	1:A:2226:G:N7	2.51	0.59
1:A:2407:C:OP1	2:M:172:ARG:NE	2.36	0.59
3:BA:41:VAL:O	3:BA:44:LEU:HD23	2.03	0.59
3:BD:122:ILE:HD12	3:JB:105:ARG:NH2	2.17	0.59
3:BM:8:LEU:HD22	3:DJ:114:ALA:CB	2.33	0.59
3:CF:79:SER:O	3:CF:80:CYS:HB2	2.02	0.59
3:DB:131:ALA:HB1	3:DK:3:LEU:HD21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FB:112:LEU:HD11	3:LJ:92:VAL:HG21	1.84	0.59
3:FD:97:THR:OG1	3:FD:100:SER:N	2.35	0.59
3:FJ:41:VAL:O	3:FJ:44:LEU:HG	2.01	0.59
3:GG:128:LEU:HD12	3:GG:128:LEU:N	2.17	0.59
3:GH:24:ARG:HB3	3:GH:34:SER:O	2.02	0.59
3:GH:86:ARG:CZ	3:KB:99:TYR:O	2.50	0.59
3:HC:48:VAL:HG13	3:HC:68:ILE:HD13	1.85	0.59
3:HJ:101:THR:OG1	3:HJ:103:GLU:OE1	2.07	0.59
3:IG:62:TYR:HD2	3:JJ:128:LEU:CD2	2.14	0.59
3:IH:132:TYR:HD1	3:NG:26:VAL:HG21	1.67	0.59
3:II:26:VAL:HG23	3:II:32:VAL:C	2.23	0.59
3:IN:41:VAL:HG13	3:IN:41:VAL:O	2.02	0.59
3:JF:110:THR:OG1	3:KA:11:ILE:HD12	2.01	0.59
3:JH:80:CYS:HB3	3:LD:74:CYS:HA	1.83	0.59
3:JJ:41:VAL:O	3:JJ:44:LEU:HG	2.03	0.59
3:JM:41:VAL:O	3:JM:44:LEU:HG	2.03	0.59
3:LG:126:ASP:N	3:MG:109:ARG:HH21	2.01	0.59
3:LK:6:VAL:HG12	3:LK:8:LEU:HD23	1.85	0.59
3:MI:52:VAL:O	3:MI:52:VAL:HG13	2.02	0.59
3:NE:119:PRO:HA	3:NE:122:ILE:HG22	1.84	0.59
1:A:249:G:O6	3:ND:57:ARG:NH2	2.33	0.59
1:A:1301:U:OP2	1:A:1570:C:N4	2.36	0.59
1:A:1490:U:H2'	1:A:1491:A:O4'	2.02	0.59
1:A:1536:G:H22	3:EJ:57:ARG:HH22	1.51	0.59
1:A:1833:A:P	3:JA:60:LYS:HZ1	2.24	0.59
1:A:2080:C:O2'	1:A:2081:U:OP1	2.16	0.59
3:BB:86:ARG:NH1	3:MA:101:THR:HG23	2.18	0.59
3:BE:102:ASP:OD1	3:BE:103:GLU:N	2.35	0.59
3:BH:103:GLU:OE1	3:IL:13:LYS:HE2	2.01	0.59
3:BM:105:ARG:NE	3:DJ:128:LEU:HD11	2.17	0.59
3:CA:122:ILE:HD13	3:DH:109:ARG:NH1	2.18	0.59
3:CB:11:ILE:HG22	3:CB:17:GLN:C	2.22	0.59
3:DG:13:LYS:NZ	3:EJ:103:GLU:HA	2.15	0.59
3:DG:58:ASN:O	3:DG:59:ARG:NH2	2.35	0.59
3:DG:99:TYR:N	3:EJ:86:ARG:HH22	2.01	0.59
3:EI:106:ALA:O	3:EI:109:ARG:HG2	2.02	0.59
3:EK:102:ASP:OD1	3:EK:103:GLU:N	2.35	0.59
3:FF:52:VAL:HG22	3:FF:64:VAL:HG13	1.85	0.59
3:FF:86:ARG:HH22	3:LF:99:TYR:HB2	1.67	0.59
3:FJ:103:GLU:HA	3:HF:13:LYS:HZ3	1.66	0.59
3:GG:27:ASN:OD1	3:GG:29:THR:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GG:132:TYR:CZ	3:JE:26:VAL:HG11	2.36	0.59
3:HG:27:ASN:OD1	3:HG:29:THR:N	2.28	0.59
3:HJ:101:THR:HG23	3:HJ:104:GLU:OE1	2.02	0.59
3:IE:125:ILE:CD1	3:JL:64:VAL:HG11	2.33	0.59
3:IH:115:LEU:CD1	3:IH:121:LEU:HD23	2.31	0.59
3:JA:60:LYS:HB2	3:JA:61:ASN:HB2	1.84	0.59
3:JD:52:VAL:HG23	3:JD:52:VAL:O	2.01	0.59
3:JG:129:ASN:OD1	3:LE:24:ARG:NH2	2.34	0.59
3:JH:52:VAL:O	3:JH:52:VAL:HG23	2.02	0.59
3:LN:112:LEU:O	3:LN:116:LEU:HD23	2.02	0.59
3:NB:11:ILE:HD12	3:NF:110:THR:CB	2.33	0.59
3:BC:11:ILE:HG22	3:BC:17:GLN:C	2.23	0.59
3:BD:26:VAL:HG23	3:BD:32:VAL:C	2.22	0.59
3:BH:52:VAL:O	3:BH:52:VAL:HG13	2.02	0.59
3:BH:110:THR:CB	3:IL:11:ILE:HD12	2.33	0.59
3:BI:4:GLU:O	3:BI:6:VAL:HG23	2.02	0.59
3:DC:48:VAL:HG11	3:EN:115:LEU:CD1	2.33	0.59
3:DE:116:LEU:HD11	3:EL:109:ARG:HG3	1.84	0.59
3:DJ:21:LEU:HD11	3:DJ:48:VAL:HG21	1.84	0.59
3:EA:82:PRO:O	3:EC:99:TYR:OH	2.05	0.59
3:EB:61:ASN:ND2	3:EB:96:PHE:O	2.35	0.59
3:FH:109:ARG:CZ	3:FK:116:LEU:O	2.51	0.59
3:FL:79:SER:OG	3:FL:81:ASP:OD1	2.21	0.59
3:FL:132:TYR:OH	3:HC:26:VAL:HG13	2.03	0.59
3:GA:106:ALA:HA	3:GA:109:ARG:HD3	1.85	0.59
3:GE:111:GLU:O	3:GE:115:LEU:HD23	2.02	0.59
3:GG:8:LEU:HD22	3:JE:114:ALA:CB	2.33	0.59
3:GL:24:ARG:NE	3:GL:36:SER:OG	2.36	0.59
3:HH:3:LEU:HD23	3:HH:3:LEU:H	1.65	0.59
3:HM:85:THR:HG22	3:HM:85:THR:O	2.01	0.59
3:KC:127:GLN:O	3:LD:24:ARG:NH2	2.32	0.59
1:A:1104:U:N3	3:NH:58:ASN:OD1	2.36	0.59
1:A:2800:G:N2	1:A:2825:U:O2	2.35	0.59
1:A:3346:A:H2'	1:A:3347:G:C8	2.38	0.59
3:BH:109:ARG:CZ	3:IL:122:ILE:HG22	2.32	0.59
3:CA:27:ASN:OD1	3:CA:30:ASN:N	2.31	0.59
3:CD:34:SER:C	3:CD:35:LEU:HD12	2.23	0.59
3:CH:102:ASP:OD1	3:CH:103:GLU:N	2.36	0.59
3:CJ:2:LYS:NZ	3:HL:132:TYR:OXT	2.33	0.59
3:CJ:115:LEU:HD12	3:HJ:8:LEU:CD2	2.33	0.59
3:DA:54:GLN:HB3	3:DA:55:PRO:CD	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:13:LYS:NZ	3:DK:103:GLU:HA	2.17	0.59
3:ED:8:LEU:CD1	3:EH:115:LEU:HD22	2.32	0.59
3:EF:11:ILE:HD11	3:FA:111:GLU:N	2.17	0.59
3:EF:105:ARG:CD	3:FA:128:LEU:HD11	2.32	0.59
3:EG:60:LYS:HB3	3:EG:61:ASN:HB3	1.83	0.59
3:EI:109:ARG:NH2	3:GA:122:ILE:O	2.29	0.59
3:EI:115:LEU:HD23	3:EI:121:LEU:HD11	1.84	0.59
3:FE:121:LEU:O	3:FE:125:ILE:HG22	2.03	0.59
3:IA:119:PRO:HA	3:IA:122:ILE:HD12	1.84	0.59
3:IB:86:ARG:HH12	3:IK:99:TYR:C	2.06	0.59
3:JG:11:ILE:HG22	3:JG:17:GLN:C	2.22	0.59
3:JG:52:VAL:HG12	3:JG:64:VAL:HG13	1.85	0.59
3:JG:77:ASN:ND2	3:LE:77:ASN:OD1	2.35	0.59
3:JJ:60:LYS:H	3:JJ:61:ASN:HB3	1.68	0.59
3:JJ:106:ALA:O	3:JJ:109:ARG:HG2	2.03	0.59
3:JM:3:LEU:HD23	3:JM:3:LEU:H	1.67	0.59
3:KB:125:ILE:O	3:KB:128:LEU:HD12	2.03	0.59
3:KH:41:VAL:O	3:KH:44:LEU:HG	2.02	0.59
3:KH:130:PRO:HB2	3:KH:132:TYR:CE2	2.38	0.59
3:KI:128:LEU:HD12	3:KI:128:LEU:N	2.18	0.59
3:KJ:64:VAL:HG11	3:LE:125:ILE:CG2	2.32	0.59
3:KK:44:LEU:HD13	3:KM:98:GLN:OE1	2.03	0.59
3:LH:117:ALA:O	3:LH:122:ILE:HD11	2.03	0.59
3:LI:11:ILE:HG22	3:LI:17:GLN:C	2.23	0.59
3:MG:17:GLN:OE1	3:MG:17:GLN:N	2.29	0.59
3:MH:99:TYR:OH	3:MI:83:SER:HA	2.03	0.59
3:ND:18:THR:C	3:ND:19:LEU:HD22	2.22	0.59
1:A:2069:U:O4	1:A:2070:A:N6	2.35	0.59
1:A:3030:G:O6	1:A:3052:U:C2	2.54	0.59
3:BB:125:ILE:HG22	3:MA:64:VAL:HG11	1.85	0.59
3:BC:52:VAL:O	3:BC:52:VAL:HG13	2.03	0.59
3:BC:132:TYR:CA	3:ND:3:LEU:HD23	2.33	0.59
3:CC:104:GLU:OE2	3:DF:72:THR:OG1	2.06	0.59
3:CD:52:VAL:O	3:CD:52:VAL:HG13	2.01	0.59
3:CF:128:LEU:HD23	3:GM:62:TYR:CD1	2.37	0.59
3:CJ:132:TYR:CA	3:HJ:3:LEU:HD23	2.33	0.59
3:DD:120:LEU:HD23	3:DD:121:LEU:N	2.17	0.59
3:EC:109:ARG:NH1	3:LK:116:LEU:O	2.34	0.59
3:EI:101:THR:N	3:EI:104:GLU:OE2	2.36	0.59
3:EK:110:THR:CB	3:FM:11:ILE:HD12	2.33	0.59
3:FH:128:LEU:HD23	3:FK:105:ARG:CZ	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FJ:106:ALA:HB3	3:HF:13:LYS:NZ	2.17	0.59
3:FN:127:GLN:O	3:HC:24:ARG:NH1	2.32	0.59
3:GB:60:LYS:H	3:GB:61:ASN:HB3	1.67	0.59
3:GE:109:ARG:CZ	3:HE:122:ILE:HA	2.33	0.59
3:GF:69:GLN:HE22	3:GF:89:TYR:HE1	1.49	0.59
3:HN:130:PRO:HG3	3:ID:52:VAL:HG21	1.85	0.59
3:IA:52:VAL:O	3:IA:52:VAL:HG13	2.01	0.59
3:JD:105:ARG:NH2	3:JH:126:ASP:O	2.35	0.59
3:KJ:11:ILE:HG22	3:KJ:17:GLN:C	2.23	0.59
3:LA:119:PRO:HA	3:LA:122:ILE:HD12	1.85	0.59
3:LE:27:ASN:OD1	3:LE:29:THR:N	2.34	0.59
3:LG:49:THR:OG1	3:LG:67:LYS:HB2	2.03	0.59
3:LK:111:GLU:O	3:LK:115:LEU:HD23	2.02	0.59
3:ME:6:VAL:HG12	3:ME:8:LEU:CD2	2.32	0.59
3:NA:111:GLU:O	3:NA:115:LEU:HD23	2.02	0.59
3:NB:5:THR:HG22	3:NB:22:ASN:OD1	2.02	0.59
3:ND:27:ASN:OD1	3:ND:30:ASN:N	2.35	0.59
3:NG:11:ILE:HG22	3:NG:17:GLN:C	2.23	0.59
3:NJ:46:LYS:CE	3:NJ:70:ASN:HD22	2.16	0.59
1:A:983:C:C4	1:A:1026:U:O4	2.56	0.59
1:A:2046:G:O6	3:GG:58:ASN:N	2.32	0.59
1:A:2331:U:O4	1:A:2332:A:N6	2.35	0.59
1:A:2493:U:O4	1:A:2494:C:N4	2.35	0.59
1:A:2848:A:H2'	1:A:2849:C:O4'	2.03	0.59
1:A:3807:G:C5	3:KH:60:LYS:NZ	2.70	0.59
1:A:4108:U:C2	1:A:4113:G:C2	2.90	0.59
3:BC:20:VAL:N	3:BC:37:GLN:OE1	2.36	0.59
3:BG:109:ARG:HE	3:BG:110:THR:HG23	1.68	0.59
3:BH:8:LEU:HD12	3:IL:114:ALA:CB	2.31	0.59
3:BN:102:ASP:OD1	3:BN:103:GLU:N	2.34	0.59
3:CG:42:PRO:HA	3:CG:45:GLU:OE1	2.03	0.59
3:DA:11:ILE:HD12	3:MM:110:THR:CB	2.32	0.59
3:DK:11:ILE:HG22	3:DK:17:GLN:C	2.23	0.59
3:DL:8:LEU:HD22	3:MN:114:ALA:HB3	1.84	0.59
3:EB:114:ALA:HB1	3:MJ:8:LEU:HD22	1.84	0.59
3:EK:86:ARG:HH12	3:FM:101:THR:HG23	1.67	0.59
3:FI:105:ARG:HA	3:FI:108:VAL:HG22	1.84	0.59
3:FJ:20:VAL:CG2	3:FJ:38:ALA:HB2	2.32	0.59
3:HB:55:PRO:HD3	3:HB:62:TYR:CD1	2.37	0.59
3:HI:86:ARG:NH2	3:II:99:TYR:O	2.35	0.59
3:HL:48:VAL:HG13	3:HL:68:ILE:HD13	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HL:52:VAL:O	3:HL:52:VAL:HG13	2.03	0.59
3:HL:61:ASN:ND2	3:HL:96:PHE:O	2.35	0.59
3:IC:44:LEU:HD22	3:IE:98:GLN:O	2.01	0.59
3:IE:128:LEU:HD11	3:JL:105:ARG:NE	2.17	0.59
3:IL:4:GLU:OE1	3:IL:5:THR:N	2.35	0.59
3:IL:114:ALA:O	3:IL:118:SER:OG	2.16	0.59
3:JD:3:LEU:HD13	3:JH:132:TYR:HA	1.84	0.59
3:JG:132:TYR:O	3:LD:2:LYS:NZ	2.35	0.59
3:KB:56:SER:N	3:KB:59:ARG:HB2	2.18	0.59
3:KD:24:ARG:NH1	3:LC:128:LEU:O	2.36	0.59
3:KN:41:VAL:O	3:KN:44:LEU:HG	2.02	0.59
3:LI:23:PRO:HA	3:LI:35:LEU:HD23	1.84	0.59
3:MI:59:ARG:HG3	3:MI:61:ASN:ND2	2.18	0.59
3:ND:3:LEU:HD12	3:ND:35:LEU:HD11	1.83	0.59
1:A:2708:C:H4'	3:DD:67:LYS:HE3	1.85	0.59
1:A:3809:G:H3'	3:KH:56:SER:HB3	1.84	0.59
3:BN:27:ASN:OD1	3:BN:29:THR:N	2.36	0.59
3:CE:41:VAL:HG13	3:CE:44:LEU:HD11	1.85	0.59
3:CI:105:ARG:NE	3:DI:126:ASP:O	2.31	0.59
3:DE:23:PRO:HA	3:DE:35:LEU:HD23	1.85	0.59
3:DL:132:TYR:OH	3:MN:26:VAL:HG21	2.02	0.59
3:EA:8:LEU:HD12	3:LM:114:ALA:HB3	1.84	0.59
3:FE:52:VAL:O	3:FE:52:VAL:HG23	2.03	0.59
3:FE:85:THR:HG23	3:FE:86:ARG:HD3	1.85	0.59
3:FH:86:ARG:NH1	3:FK:104:GLU:OE2	2.34	0.59
3:FJ:109:ARG:HE	3:HF:125:ILE:CD1	2.16	0.59
3:GB:19:LEU:HD21	3:GB:21:LEU:HD21	1.85	0.59
3:GE:48:VAL:HG22	3:GE:68:ILE:HD12	1.85	0.59
3:GF:102:ASP:OD1	3:GF:103:GLU:N	2.36	0.59
3:GJ:102:ASP:OD1	3:GJ:103:GLU:N	2.36	0.59
3:GJ:125:ILE:HD13	3:GN:94:PHE:HE2	1.68	0.59
3:GL:8:LEU:HD11	3:HG:115:LEU:HD22	1.85	0.59
3:HI:8:LEU:HD13	3:II:114:ALA:HB3	1.85	0.59
3:HN:56:SER:OG	3:HN:57:ARG:N	2.35	0.59
3:IE:7:THR:C	3:IE:8:LEU:HD12	2.23	0.59
3:IG:79:SER:O	3:IG:80:CYS:HB2	2.03	0.59
3:IJ:37:GLN:HB3	3:IJ:45:GLU:OE1	2.03	0.59
3:JH:87:GLN:N	3:JH:87:GLN:OE1	2.35	0.59
3:KJ:111:GLU:O	3:KJ:115:LEU:HD23	2.02	0.59
3:LJ:119:PRO:HA	3:LJ:122:ILE:HD12	1.84	0.59
1:A:3104:G:H4'	3:LG:59:ARG:NE	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3590:U:O4	1:A:3661:G:O6	2.21	0.58
3:BD:119:PRO:HA	3:BD:122:ILE:CG2	2.33	0.58
3:BE:18:THR:C	3:BE:19:LEU:HD22	2.23	0.58
3:CF:8:LEU:HD11	3:GM:115:LEU:HD21	1.85	0.58
3:CK:112:LEU:O	3:CK:116:LEU:HD23	2.03	0.58
3:CM:24:ARG:NH2	3:HH:130:PRO:HD3	2.17	0.58
3:CM:42:PRO:HD2	3:CM:43:ALA:H	1.68	0.58
3:DF:100:SER:OG	3:DF:105:ARG:NH1	2.36	0.58
3:DL:56:SER:O	3:DL:59:ARG:O	2.20	0.58
3:EI:55:PRO:HB3	3:EI:60:LYS:HG3	1.84	0.58
3:FC:62:TYR:CE1	3:FC:64:VAL:HG23	2.38	0.58
3:GI:68:ILE:HD11	3:JC:115:LEU:HD12	1.85	0.58
3:GK:26:VAL:HG11	3:JA:132:TYR:OH	2.02	0.58
3:HB:11:ILE:HG22	3:HB:17:GLN:O	2.03	0.58
3:IF:111:GLU:CD	3:NI:68:ILE:HD11	2.23	0.58
3:JA:6:VAL:HG12	3:JA:8:LEU:HD21	1.85	0.58
3:JI:131:ALA:HB1	3:LB:3:LEU:HD21	1.85	0.58
3:KC:114:ALA:CB	3:LC:8:LEU:HD12	2.33	0.58
3:KM:122:ILE:HG12	3:MF:109:ARG:HH12	1.68	0.58
3:LN:20:VAL:O	3:LN:20:VAL:HG13	2.03	0.58
3:MH:119:PRO:HA	3:MH:122:ILE:HD12	1.85	0.58
3:NA:52:VAL:O	3:NA:52:VAL:HG13	2.02	0.58
3:NE:60:LYS:HB2	3:NE:61:ASN:HB2	1.85	0.58
1:A:3308:G:N7	1:A:3309:A:N6	2.51	0.58
1:A:3425:A:H3’	1:A:3426:G:H5”	1.85	0.58
1:A:3809:G:H2’	3:KH:57:ARG:HB2	1.83	0.58
3:BJ:25:GLY:N	3:CG:129:ASN:OD1	2.37	0.58
3:BJ:52:VAL:O	3:BJ:52:VAL:HG23	2.03	0.58
3:BK:79:SER:O	3:BK:80:CYS:HB2	2.03	0.58
3:BL:109:ARG:CZ	3:CG:122:ILE:HD13	2.33	0.58
3:CM:19:LEU:CD1	3:NA:111:GLU:OE2	2.51	0.58
3:DA:11:ILE:HD12	3:MM:110:THR:OG1	2.02	0.58
3:DB:52:VAL:HG12	3:DB:64:VAL:HG13	1.85	0.58
3:DF:52:VAL:O	3:DF:52:VAL:HG13	2.03	0.58
3:DI:41:VAL:O	3:DI:44:LEU:HG	2.03	0.58
3:ED:99:TYR:OH	3:EE:84:VAL:N	2.35	0.58
3:EJ:11:ILE:HG22	3:EJ:17:GLN:C	2.23	0.58
3:FH:103:GLU:HA	3:FK:13:LYS:HE3	1.84	0.58
3:GG:99:TYR:OH	3:GH:84:VAL:N	2.33	0.58
3:GG:103:GLU:HA	3:JE:13:LYS:HE2	1.84	0.58
3:HL:48:VAL:HG22	3:HL:68:ILE:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HN:132:TYR:OH	3:ID:26:VAL:HG21	2.03	0.58
3:IA:102:ASP:OD1	3:IA:103:GLU:N	2.35	0.58
3:IE:112:LEU:HD13	3:JL:68:ILE:HD12	1.83	0.58
3:IH:8:LEU:HD11	3:NG:115:LEU:CD2	2.33	0.58
3:IJ:122:ILE:HA	3:NE:109:ARG:NH1	2.17	0.58
3:IM:74:CYS:SG	3:IM:85:THR:HG21	2.43	0.58
3:KM:125:ILE:HD11	3:MF:64:VAL:HG11	1.84	0.58
3:LH:119:PRO:HA	3:LH:122:ILE:HB	1.84	0.58
3:MH:43:ALA:C	3:MH:44:LEU:HD22	2.23	0.58
1:A:1063:C:H41	1:A:1216:C:P	2.25	0.58
1:A:1547:G:N2	1:A:1549:U:OP1	2.36	0.58
1:A:2771:A:N6	3:DE:57:ARG:HD2	2.18	0.58
1:A:3543:G:H2'	1:A:3545:C:C5	2.38	0.58
3:BH:67:LYS:NZ	3:BH:91:ASP:OD2	2.36	0.58
3:BK:34:SER:O	3:BK:35:LEU:HD12	2.03	0.58
3:CB:13:LYS:NZ	3:HC:103:GLU:HA	2.18	0.58
3:CC:92:VAL:HG22	3:DF:92:VAL:HG22	1.84	0.58
3:CI:26:VAL:HG21	3:DI:132:TYR:HE1	1.68	0.58
3:CJ:52:VAL:O	3:CJ:52:VAL:HG13	2.03	0.58
3:CL:13:LYS:NZ	3:HH:103:GLU:HA	2.19	0.58
3:DK:39:GLY:HA3	3:DK:45:GLU:OE2	2.02	0.58
3:ED:60:LYS:N	3:ED:61:ASN:HB3	2.19	0.58
3:ED:109:ARG:HE	3:ED:110:THR:HG23	1.66	0.58
3:EJ:55:PRO:HD3	3:EJ:62:TYR:HE1	1.68	0.58
3:GH:79:SER:O	3:JE:74:CYS:SG	2.62	0.58
3:HK:18:THR:O	3:HK:19:LEU:HD22	2.03	0.58
3:IB:11:ILE:HD11	3:IK:111:GLU:N	2.19	0.58
3:IC:11:ILE:HG22	3:IC:17:GLN:C	2.24	0.58
3:IG:114:ALA:CB	3:JJ:8:LEU:HD12	2.34	0.58
3:IL:11:ILE:HG22	3:IL:17:GLN:O	2.04	0.58
3:IM:98:GLN:HG3	3:IN:43:ALA:HB2	1.83	0.58
3:IM:129:ASN:OD1	3:JN:24:ARG:NH2	2.37	0.58
3:JI:128:LEU:HD22	3:LB:62:TYR:CD2	2.38	0.58
3:JM:101:THR:O	3:JM:104:GLU:HG2	2.04	0.58
3:KK:59:ARG:HG3	3:KK:63:LYS:HG2	1.84	0.58
3:LG:86:ARG:CZ	3:MG:100:SER:HA	2.32	0.58
3:NH:7:THR:O	3:NH:7:THR:HG23	2.03	0.58
3:NI:43:ALA:C	3:NI:44:LEU:HD22	2.24	0.58
1:A:110:U:C2	1:A:115:G:O6	2.56	0.58
1:A:3049:A:N6	1:A:3050:A:H62	2.00	0.58
1:A:3798:A:N6	1:A:3801:A:OP2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4110:C:C3'	3:D:47:ARG:HH12	2.15	0.58
2:M:143:ASN:OD1	2:M:144:ALA:N	2.37	0.58
3:BM:41:VAL:O	3:BM:44:LEU:HG	2.03	0.58
3:BM:128:LEU:HD11	3:DJ:105:ARG:NE	2.17	0.58
3:CF:18:THR:C	3:CF:19:LEU:HD22	2.22	0.58
3:CH:41:VAL:O	3:CH:44:LEU:HG	2.02	0.58
3:CJ:131:ALA:HA	3:HJ:1:ALA:HB3	1.86	0.58
3:DA:48:VAL:HG22	3:DA:68:ILE:CD1	2.33	0.58
3:FE:97:THR:HG23	3:KI:86:ARG:HH22	1.66	0.58
3:FF:70:ASN:CG	3:FF:88:ALA:HB3	2.23	0.58
3:GG:59:ARG:HG2	3:GG:60:LYS:H	1.66	0.58
3:GG:110:THR:OG1	3:JE:11:ILE:HD12	2.04	0.58
3:HC:11:ILE:HG22	3:HC:17:GLN:O	2.02	0.58
3:HE:41:VAL:O	3:HE:44:LEU:HG	2.02	0.58
3:IE:55:PRO:HG3	3:IE:62:TYR:HE1	1.67	0.58
3:IE:110:THR:HB	3:JL:11:ILE:HD12	1.85	0.58
3:IG:103:GLU:HA	3:JJ:13:LYS:HE2	1.86	0.58
3:IJ:112:LEU:HD22	3:NE:68:ILE:HD13	1.84	0.58
3:JG:52:VAL:O	3:JG:52:VAL:HG23	2.02	0.58
3:JJ:13:LYS:HD2	3:JJ:13:LYS:N	2.18	0.58
3:KH:125:ILE:HD11	3:KL:64:VAL:HG11	1.84	0.58
3:LB:130:PRO:HD2	3:LB:130:PRO:O	2.03	0.58
3:LC:18:THR:C	3:LC:19:LEU:HD22	2.24	0.58
3:LF:44:LEU:HD22	3:LH:62:TYR:HH	1.67	0.58
3:LG:106:ALA:HB3	3:MG:13:LYS:NZ	2.17	0.58
3:LN:32:VAL:HG12	3:LN:51:SER:HB2	1.86	0.58
3:MC:105:ARG:CZ	3:NJ:125:ILE:O	2.50	0.58
3:MJ:11:ILE:HG22	3:MJ:17:GLN:C	2.24	0.58
3:NB:11:ILE:HG23	3:NB:17:GLN:HB2	1.86	0.58
3:NE:8:LEU:HD12	3:NE:8:LEU:N	2.18	0.58
1:A:401:A:O2'	1:A:402:U:O4'	2.21	0.58
1:A:1046:G:O2'	1:A:1047:U:OP1	2.14	0.58
1:A:2386:G:N1	1:A:2400:C:O2	2.36	0.58
2:M:342:ASP:OD1	2:M:343:ILE:N	2.31	0.58
3:BE:115:LEU:HD22	3:CE:8:LEU:CD1	2.34	0.58
3:BF:11:ILE:HD12	3:IN:110:THR:CB	2.34	0.58
3:BF:92:VAL:CG2	3:IN:92:VAL:HG22	2.29	0.58
3:BJ:19:LEU:HG	3:BJ:21:LEU:HD21	1.84	0.58
3:BM:132:TYR:CZ	3:DJ:26:VAL:HG11	2.38	0.58
3:CB:20:VAL:HG23	3:CB:38:ALA:HB2	1.84	0.58
3:CC:26:VAL:HG21	3:DF:132:TYR:CZ	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:64:VAL:HG11	3:GM:125:ILE:HD11	1.84	0.58
3:CH:109:ARG:CZ	3:HL:122:ILE:HD13	2.32	0.58
3:DB:3:LEU:HD23	3:DK:132:TYR:CA	2.33	0.58
3:DG:11:ILE:HD11	3:EJ:111:GLU:N	2.19	0.58
3:DI:59:ARG:O	3:DI:60:LYS:HD3	2.03	0.58
3:DL:105:ARG:NE	3:MN:128:LEU:HD11	2.18	0.58
3:EH:15:GLY:O	3:EH:16:LYS:HE2	2.04	0.58
3:EJ:52:VAL:O	3:EJ:52:VAL:HG23	2.02	0.58
3:EK:125:ILE:HG12	3:FM:109:ARG:NH1	2.18	0.58
3:FD:126:ASP:OD2	3:LH:109:ARG:NH2	2.36	0.58
3:FH:68:ILE:HD11	3:FK:115:LEU:CD1	2.33	0.58
3:FL:115:LEU:HD23	3:HD:8:LEU:HD11	1.85	0.58
3:GE:11:ILE:HG22	3:GE:17:GLN:C	2.24	0.58
3:GF:11:ILE:HG22	3:GF:17:GLN:C	2.24	0.58
3:GG:106:ALA:HB3	3:JE:13:LYS:NZ	2.19	0.58
3:GH:34:SER:C	3:GH:35:LEU:HD22	2.23	0.58
3:GK:114:ALA:HB3	3:JA:8:LEU:HD12	1.86	0.58
3:GM:60:LYS:H	3:GM:61:ASN:HB3	1.69	0.58
3:HE:26:VAL:HG12	3:HE:33:ALA:CA	2.31	0.58
3:ID:52:VAL:HG23	3:ID:52:VAL:O	2.04	0.58
3:KI:102:ASP:OD1	3:KI:102:ASP:N	2.35	0.58
3:KM:132:TYR:OH	3:ME:26:VAL:O	2.22	0.58
3:LG:123:ASP:OD2	3:MG:1:ALA:N	2.33	0.58
1:A:2685:A:OP2	3:DC:67:LYS:NZ	2.30	0.58
1:A:3026:A:N1	1:A:3057:A:N6	2.50	0.58
1:A:3722:G:N2	1:A:3723:C:H41	2.02	0.58
3:BB:101:THR:HB	3:BB:103:GLU:OE1	2.04	0.58
3:BF:110:THR:CB	3:IN:11:ILE:HD12	2.33	0.58
3:BI:114:ALA:CB	3:HM:8:LEU:HD12	2.34	0.58
3:DL:26:VAL:O	3:DL:28:PRO:HD3	2.03	0.58
3:EA:105:ARG:NE	3:LM:126:ASP:O	2.35	0.58
3:EC:6:VAL:CG2	3:LK:120:LEU:HD11	2.34	0.58
3:EC:24:ARG:NE	3:EC:36:SER:OG	2.37	0.58
3:FJ:106:ALA:HB2	3:FJ:109:ARG:NH1	2.19	0.58
3:GF:128:LEU:O	3:KB:24:ARG:NH2	2.37	0.58
3:GI:62:TYR:HD1	3:JC:128:LEU:HD23	1.68	0.58
3:GJ:34:SER:O	3:GJ:35:LEU:HD12	2.04	0.58
3:GK:48:VAL:HG13	3:GK:68:ILE:CD1	2.33	0.58
3:GL:101:THR:CG2	3:GL:104:GLU:OE1	2.51	0.58
3:HJ:52:VAL:HG23	3:HJ:64:VAL:HG22	1.85	0.58
3:JD:37:GLN:OE1	3:JD:39:GLY:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:123:ASP:OD1	3:JD:129:ASN:ND2	2.29	0.58
3:JI:52:VAL:HG12	3:JI:64:VAL:HG13	1.85	0.58
3:KC:101:THR:HG23	3:LC:86:ARG:NH1	2.16	0.58
3:LE:68:ILE:HG22	3:LE:90:ALA:HB3	1.86	0.58
3:LN:122:ILE:HG23	3:LN:126:ASP:OD2	2.04	0.58
1:A:2634:A:HO2'	1:A:2635:A:P	2.24	0.58
2:M:252:LEU:HD12	2:M:254:PRO:HD3	1.86	0.58
3:BA:132:TYR:CZ	3:MK:26:VAL:HG11	2.38	0.58
3:BD:11:ILE:HG22	3:BD:17:GLN:O	2.04	0.58
3:BD:132:TYR:O	3:JB:2:LYS:NZ	2.35	0.58
3:BJ:109:ARG:HH12	3:BN:122:ILE:HD13	1.68	0.58
3:BK:11:ILE:HD11	3:HK:111:GLU:N	2.18	0.58
3:BM:110:THR:OG1	3:DJ:11:ILE:HD12	2.03	0.58
3:CC:86:ARG:HH22	3:DF:99:TYR:C	2.07	0.58
3:CF:125:ILE:HD12	3:GM:94:PHE:HD1	1.67	0.58
3:DN:15:GLY:O	3:DN:16:LYS:HE2	2.03	0.58
3:EA:86:ARG:NH1	3:LM:100:SER:HA	2.19	0.58
3:EC:110:THR:HB	3:LK:11:ILE:HD12	1.84	0.58
3:EF:116:LEU:HD21	3:FA:109:ARG:HD2	1.84	0.58
3:EK:123:ASP:OD2	3:FM:1:ALA:N	2.28	0.58
3:FI:109:ARG:NH2	3:KE:126:ASP:N	2.52	0.58
3:GF:48:VAL:HG13	3:GF:68:ILE:HD13	1.85	0.58
3:GG:11:ILE:HG22	3:GG:17:GLN:C	2.24	0.58
3:HA:44:LEU:O	3:HA:44:LEU:HD23	2.04	0.58
3:HD:52:VAL:O	3:HD:52:VAL:HG13	2.02	0.58
3:HI:32:VAL:HG22	3:HI:51:SER:HB3	1.86	0.58
3:HI:125:ILE:HG22	3:II:64:VAL:HG11	1.84	0.58
3:IH:48:VAL:HG22	3:IH:68:ILE:HD12	1.86	0.58
3:IK:34:SER:C	3:IK:35:LEU:HD12	2.23	0.58
3:JH:99:TYR:CD1	3:JI:81:ASP:OD2	2.56	0.58
3:KD:23:PRO:HA	3:KD:35:LEU:HD23	1.85	0.58
3:KM:52:VAL:HG21	3:MF:130:PRO:CA	2.33	0.58
3:MG:106:ALA:HA	3:MG:109:ARG:HD2	1.85	0.58
3:ND:48:VAL:HG12	3:ND:68:ILE:HG13	1.86	0.58
1:A:562:C:H42	1:A:605:C:H42	1.52	0.58
1:A:2610:G:H1	3:FN:57:ARG:NH1	2.02	0.58
1:A:3532:G:H2'	1:A:3533:A:O4'	2.04	0.58
1:A:3934:G:H2'	1:A:3935:G:C8	2.38	0.58
3:BA:131:ALA:O	3:BA:132:TYR:HD1	1.87	0.58
3:BD:11:ILE:HG22	3:BD:17:GLN:C	2.23	0.58
3:BD:126:ASP:HA	3:JB:105:ARG:HD2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:121:LEU:HA	3:CB:124:ALA:HB3	1.85	0.58
3:CJ:109:ARG:HH12	3:HJ:122:ILE:HA	1.69	0.58
3:CM:110:THR:HB	3:NA:11:ILE:HD12	1.85	0.58
3:DA:11:ILE:HG22	3:DA:17:GLN:C	2.24	0.58
3:DG:103:GLU:N	3:EJ:13:LYS:HZ1	2.02	0.58
3:EI:109:ARG:NH1	3:GA:122:ILE:HA	2.19	0.58
3:FB:113:ALA:CB	3:LJ:116:LEU:HD22	2.27	0.58
3:FF:74:CYS:SG	3:FF:85:THR:HG21	2.44	0.58
3:FI:46:LYS:NZ	3:FI:71:PRO:O	2.31	0.58
3:GB:37:GLN:OE1	3:GB:46:LYS:NZ	2.25	0.58
3:GM:58:ASN:OD1	3:GM:59:ARG:N	2.36	0.58
3:HG:8:LEU:HB2	3:HG:19:LEU:HD11	1.86	0.58
3:IE:27:ASN:OD1	3:IE:29:THR:N	2.35	0.58
3:JE:101:THR:N	3:JE:104:GLU:OE2	2.36	0.58
3:JK:125:ILE:HD12	3:KN:94:PHE:HD2	1.69	0.58
3:JM:72:THR:HG21	3:JM:86:ARG:NH2	2.19	0.58
3:KL:97:THR:HG23	3:KL:100:SER:N	2.19	0.58
3:KN:60:LYS:N	3:KN:61:ASN:HB3	2.19	0.58
3:LI:41:VAL:O	3:LI:44:LEU:HG	2.03	0.58
3:MD:6:VAL:HG12	3:MD:8:LEU:CD2	2.34	0.58
3:ML:11:ILE:HG22	3:ML:17:GLN:C	2.24	0.58
3:MM:119:PRO:O	3:MM:122:ILE:HG12	2.03	0.58
3:NJ:6:VAL:HG12	3:NJ:8:LEU:HD23	1.85	0.58
1:A:530:C:H2'	1:A:531:U:C6	2.39	0.58
1:A:1226:A:HO2'	1:A:1227:U:P	2.27	0.58
1:A:3667:G:O2'	1:A:3668:G:O5'	2.19	0.58
2:M:311:ALA:O	2:M:316:PRO:HD3	2.04	0.58
3:BB:127:GLN:O	3:MB:24:ARG:NH2	2.33	0.58
3:BJ:96:PHE:HE1	3:BN:125:ILE:HD11	1.69	0.58
3:BL:115:LEU:HD22	3:CG:8:LEU:CD2	2.34	0.58
3:CE:48:VAL:HG22	3:CE:68:ILE:HD12	1.85	0.58
3:CF:121:LEU:HA	3:CF:124:ALA:HB3	1.86	0.58
3:CG:55:PRO:HG3	3:CG:62:TYR:HE1	1.68	0.58
3:CI:11:ILE:HD12	3:DI:110:THR:CB	2.33	0.58
3:DL:14:ASP:HB2	3:DL:16:LYS:NZ	2.18	0.58
3:ED:8:LEU:HD13	3:EH:115:LEU:HD22	1.84	0.58
3:ED:132:TYR:CZ	3:EI:25:GLY:HA2	2.38	0.58
3:EF:114:ALA:HB1	3:FA:8:LEU:HD11	1.86	0.58
3:FF:70:ASN:OD1	3:FF:70:ASN:O	2.19	0.58
3:FH:92:VAL:HG22	3:FK:92:VAL:HG22	1.86	0.58
3:GD:126:ASP:HA	3:KF:109:ARG:NH2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GG:107:PHE:CE1	3:JE:19:LEU:HD21	2.39	0.58
3:GL:3:LEU:HD11	3:GL:35:LEU:HD11	1.86	0.58
3:HE:60:LYS:N	3:HE:61:ASN:HB3	2.18	0.58
3:HK:11:ILE:HG22	3:HK:17:GLN:C	2.24	0.58
3:JG:1:ALA:N	3:LD:123:ASP:OD2	2.29	0.58
3:KB:14:ASP:OD2	3:KB:16:LYS:HE3	2.04	0.58
3:KG:55:PRO:HA	3:KG:60:LYS:O	2.04	0.58
3:LA:48:VAL:HG22	3:LA:68:ILE:CD1	2.33	0.58
3:LA:98:GLN:OE1	3:LB:43:ALA:N	2.37	0.58
3:NF:48:VAL:HG13	3:NF:68:ILE:CD1	2.34	0.58
1:A:867:A:O2'	1:A:1233:G:O6	2.21	0.58
1:A:1312:G:C2'	1:A:1313:U:O5'	2.52	0.58
1:A:1347:G:H2'	1:A:1348:C:O4'	2.04	0.58
1:A:2287:A:H2'	1:A:2288:G:O4'	2.02	0.58
1:A:3622:U:C4	1:A:3638:A:H1'	2.39	0.58
1:A:3698:G:N1	1:A:3742:C:N3	2.52	0.58
1:A:4202:G:P	2:M:381:TYR:OH	2.62	0.58
3:BH:11:ILE:HG22	3:BH:17:GLN:C	2.24	0.58
3:BJ:132:TYR:CZ	3:BN:26:VAL:HG21	2.39	0.58
3:BK:26:VAL:HG11	3:HK:132:TYR:CE2	2.39	0.58
3:CH:115:LEU:HD23	3:HL:8:LEU:HD11	1.84	0.58
3:DB:43:ALA:C	3:DB:44:LEU:HD22	2.24	0.58
3:DE:116:LEU:HA	3:DE:121:LEU:HD12	1.86	0.58
3:DJ:48:VAL:HG22	3:DJ:68:ILE:HD12	1.86	0.58
3:DN:111:GLU:N	3:ML:11:ILE:HD11	2.19	0.58
3:EA:116:LEU:O	3:LM:109:ARG:NH2	2.36	0.58
3:EG:92:VAL:HG22	3:GC:92:VAL:HG22	1.85	0.58
3:FI:23:PRO:HA	3:FI:35:LEU:HD13	1.86	0.58
3:GE:19:LEU:HD23	3:HE:111:GLU:OE1	2.03	0.58
3:GH:55:PRO:HD3	3:GH:62:TYR:CE1	2.39	0.58
3:GK:74:CYS:HA	3:JB:80:CYS:HB3	1.86	0.58
3:HH:18:THR:C	3:HH:19:LEU:HD12	2.23	0.58
3:IH:11:ILE:HD12	3:NG:110:THR:CB	2.34	0.58
3:IJ:122:ILE:HD13	3:NE:109:ARG:HH12	1.69	0.58
3:JA:106:ALA:O	3:JA:109:ARG:HB3	2.03	0.58
3:JF:64:VAL:HG11	3:KA:125:ILE:CD1	2.34	0.58
3:KB:60:LYS:H	3:KB:61:ASN:HB3	1.69	0.58
3:KC:48:VAL:HG13	3:KC:68:ILE:CD1	2.34	0.58
3:KN:23:PRO:HA	3:KN:35:LEU:HD13	1.86	0.58
3:KN:44:LEU:HD12	3:KN:44:LEU:O	2.03	0.58
3:LA:5:THR:O	3:LA:5:THR:HG23	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:60:LYS:N	3:LF:61:ASN:HB3	2.18	0.58
3:MD:91:ASP:OD1	3:MD:92:VAL:N	2.36	0.58
3:NA:52:VAL:HG23	3:NA:64:VAL:HG22	1.86	0.58
3:NI:68:ILE:CG2	3:NI:90:ALA:HB3	2.34	0.58
1:A:3926:G:H1'	1:A:4159:A:N6	2.19	0.57
3:BA:26:VAL:HG23	3:BA:32:VAL:C	2.25	0.57
3:BF:3:LEU:HD23	3:IN:132:TYR:CA	2.34	0.57
3:BI:55:PRO:HG3	3:BI:62:TYR:HE1	1.69	0.57
3:BJ:131:ALA:O	3:BJ:132:TYR:CD1	2.57	0.57
3:BL:11:ILE:HG22	3:BL:17:GLN:C	2.23	0.57
3:CF:114:ALA:HB1	3:GM:8:LEU:HD22	1.85	0.57
3:CJ:110:THR:CB	3:HJ:11:ILE:HD12	2.33	0.57
3:CL:99:TYR:OH	3:CM:83:SER:HA	2.04	0.57
3:CM:128:LEU:HD11	3:NA:105:ARG:CD	2.34	0.57
3:DG:109:ARG:CZ	3:EJ:125:ILE:HG13	2.33	0.57
3:DL:18:THR:C	3:DL:19:LEU:HD22	2.24	0.57
3:DM:11:ILE:HG22	3:DM:17:GLN:C	2.23	0.57
3:DM:79:SER:O	3:DM:80:CYS:SG	2.62	0.57
3:EA:52:VAL:HG13	3:EA:64:VAL:HG22	1.86	0.57
3:ED:18:THR:C	3:ED:19:LEU:HD22	2.24	0.57
3:EJ:131:ALA:O	3:EJ:132:TYR:HD1	1.87	0.57
3:FH:104:GLU:HA	3:FH:107:PHE:CD1	2.38	0.57
3:FH:132:TYR:CZ	3:FK:26:VAL:HG11	2.38	0.57
3:FK:119:PRO:HA	3:FK:122:ILE:HD12	1.86	0.57
3:HI:103:GLU:HA	3:II:13:LYS:HE2	1.85	0.57
3:HK:108:VAL:HA	3:HK:111:GLU:CD	2.25	0.57
3:IA:30:ASN:OD1	3:IA:32:VAL:CG2	2.52	0.57
3:IB:125:ILE:O	3:IB:128:LEU:HD12	2.04	0.57
3:IH:86:ARG:HH12	3:NG:99:TYR:C	2.07	0.57
3:JD:18:THR:C	3:JD:19:LEU:HD22	2.24	0.57
3:JD:119:PRO:O	3:JD:122:ILE:HG12	2.04	0.57
3:KC:102:ASP:OD1	3:KC:103:GLU:N	2.36	0.57
3:KH:85:THR:HG23	3:KH:86:ARG:CG	2.30	0.57
3:KK:100:SER:N	3:MH:86:ARG:NH2	2.52	0.57
3:LA:111:GLU:N	3:MD:11:ILE:HD11	2.20	0.57
3:LE:6:VAL:HG12	3:LE:8:LEU:HD21	1.86	0.57
3:LL:109:ARG:CZ	3:MB:126:ASP:OD2	2.52	0.57
3:MA:11:ILE:HG23	3:MA:17:GLN:HB2	1.86	0.57
1:A:98:A:OP2	3:MJ:57:ARG:N	2.37	0.57
1:A:533:U:P	3:DI:60:LYS:HZ1	2.26	0.57
1:A:964:G:N1	1:A:1048:G:N7	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1450:U:N3	1:A:1451:U:C4	2.71	0.57
3:BC:123:ASP:O	3:BC:129:ASN:OD1	2.22	0.57
3:CA:27:ASN:OD1	3:CA:29:THR:N	2.37	0.57
3:CL:111:GLU:OE1	3:HH:8:LEU:HD13	2.04	0.57
3:DD:99:TYR:CD2	3:DE:81:ASP:OD1	2.57	0.57
3:DE:44:LEU:HD21	3:DE:73:ALA:HB2	1.85	0.57
3:DG:125:ILE:HD13	3:EJ:94:PHE:HD2	1.69	0.57
3:DL:11:ILE:HG23	3:MN:110:THR:OG1	2.03	0.57
3:DN:92:VAL:HG21	3:ML:112:LEU:HD11	1.86	0.57
3:DN:103:GLU:HA	3:ML:13:LYS:NZ	2.19	0.57
3:EA:123:ASP:OD1	3:EA:129:ASN:ND2	2.37	0.57
3:EE:19:LEU:HD11	3:LI:107:PHE:CZ	2.38	0.57
3:EL:3:LEU:HD11	3:EL:35:LEU:HD11	1.85	0.57
3:FK:24:ARG:NH1	3:HF:129:ASN:OD1	2.32	0.57
3:GJ:72:THR:HB	3:GJ:86:ARG:HG3	1.86	0.57
3:HN:26:VAL:O	3:HN:28:PRO:HD3	2.04	0.57
3:IG:106:ALA:HB3	3:JJ:13:LYS:HE3	1.85	0.57
3:IL:18:THR:C	3:IL:19:LEU:HD22	2.24	0.57
3:IL:60:LYS:N	3:IL:61:ASN:HB3	2.18	0.57
3:JI:8:LEU:HD12	3:LB:114:ALA:HB1	1.86	0.57
3:JI:99:TYR:O	3:LB:86:ARG:NH1	2.34	0.57
3:JL:23:PRO:HA	3:JL:35:LEU:HD13	1.86	0.57
3:KC:106:ALA:HB3	3:LC:13:LYS:NZ	2.18	0.57
3:KJ:3:LEU:HD21	3:LE:131:ALA:HB1	1.86	0.57
3:KN:11:ILE:HG22	3:KN:17:GLN:C	2.23	0.57
3:LK:41:VAL:O	3:LK:45:GLU:OE1	2.22	0.57
3:LM:27:ASN:OD1	3:LM:29:THR:HG22	2.04	0.57
3:MA:130:PRO:HB2	3:MA:132:TYR:CE2	2.39	0.57
3:MI:74:CYS:SG	3:MI:85:THR:HG21	2.44	0.57
3:NB:8:LEU:HD22	3:NF:114:ALA:CB	2.35	0.57
1:A:1275:A:O2'	3:BE:67:LYS:NZ	2.35	0.57
1:A:2405:C:N4	1:A:2406:G:N7	2.52	0.57
3:B:66:VAL:HG12	3:B:68:ILE:HD11	1.86	0.57
3:BB:52:VAL:O	3:BB:52:VAL:HG13	2.04	0.57
3:BK:132:TYR:HH	3:CH:132:TYR:HD2	1.51	0.57
3:BM:130:PRO:HB3	3:DJ:52:VAL:HG12	1.86	0.57
3:BN:121:LEU:O	3:BN:125:ILE:HG22	2.04	0.57
3:CA:8:LEU:HD22	3:DH:114:ALA:HB1	1.86	0.57
3:CB:128:LEU:HD11	3:HC:52:VAL:HG13	1.86	0.57
3:CC:11:ILE:HD11	3:DF:111:GLU:N	2.19	0.57
3:DG:8:LEU:HD12	3:EJ:114:ALA:CB	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:86:ARG:NH2	3:EH:99:TYR:HB2	2.19	0.57
3:FI:109:ARG:HE	3:KE:125:ILE:CG2	2.17	0.57
3:GD:8:LEU:CD1	3:KF:115:LEU:HD22	2.33	0.57
3:GJ:57:ARG:O	3:GJ:60:LYS:NZ	2.36	0.57
3:GM:99:TYR:OH	3:GN:84:VAL:HG22	2.04	0.57
3:HA:55:PRO:HA	3:HA:60:LYS:O	2.05	0.57
3:IK:3:LEU:HD22	3:IK:35:LEU:HD11	1.86	0.57
3:JA:27:ASN:OD1	3:JA:29:THR:N	2.37	0.57
3:JI:11:ILE:HD11	3:LB:111:GLU:N	2.18	0.57
3:JK:8:LEU:CD1	3:KN:114:ALA:HB3	2.33	0.57
3:KJ:3:LEU:CD1	3:KJ:35:LEU:HD11	2.34	0.57
3:LB:112:LEU:O	3:LB:116:LEU:HD23	2.04	0.57
3:LG:86:ARG:HH22	3:MG:99:TYR:C	2.07	0.57
3:NB:55:PRO:HD3	3:NB:62:TYR:CE2	2.39	0.57
3:ND:102:ASP:OD1	3:ND:103:GLU:N	2.37	0.57
3:NE:41:VAL:N	3:NE:42:PRO:HD2	2.20	0.57
3:NG:13:LYS:CD	3:NG:13:LYS:N	2.67	0.57
1:A:81:U:N3	1:A:159:C:OP1	2.37	0.57
1:A:622:C:C2	1:A:644:G:N2	2.73	0.57
1:A:1409:C:N4	1:A:1534:A:N1	2.52	0.57
1:A:2765:A:H2'	1:A:2766:A:O4'	2.03	0.57
1:A:4102:C:N4	1:A:4103:G:O6	2.38	0.57
3:D:48:VAL:HG22	3:D:68:ILE:HG12	1.87	0.57
3:BF:3:LEU:HD21	3:IN:131:ALA:HB1	1.85	0.57
3:CN:41:VAL:O	3:CN:44:LEU:HG	2.04	0.57
3:CN:111:GLU:N	3:DD:11:ILE:HD11	2.19	0.57
3:DM:3:LEU:CD1	3:DM:35:LEU:HD11	2.35	0.57
3:DM:48:VAL:HG22	3:DM:68:ILE:HD12	1.87	0.57
3:DM:99:TYR:N	3:EM:86:ARG:HH22	2.01	0.57
3:EJ:27:ASN:CG	3:EJ:29:THR:HG1	2.07	0.57
3:FN:118:SER:O	3:FN:122:ILE:HG13	2.05	0.57
3:GJ:44:LEU:O	3:GJ:44:LEU:HD12	2.05	0.57
3:GJ:111:GLU:N	3:GN:11:ILE:HD11	2.18	0.57
3:GL:3:LEU:HD21	3:HG:131:ALA:HB1	1.86	0.57
3:GM:111:GLU:O	3:GM:115:LEU:HD23	2.04	0.57
3:HB:102:ASP:OD1	3:HB:103:GLU:N	2.38	0.57
3:HK:41:VAL:O	3:HK:44:LEU:HG	2.03	0.57
3:IG:121:LEU:HA	3:IG:124:ALA:HB3	1.85	0.57
3:JI:121:LEU:O	3:JI:125:ILE:HG22	2.05	0.57
3:KC:121:LEU:O	3:KC:125:ILE:HG22	2.04	0.57
3:LG:111:GLU:N	3:MG:11:ILE:HD11	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MA:37:GLN:OE1	3:MA:39:GLY:N	2.32	0.57
3:MH:27:ASN:CG	3:MH:29:THR:HG1	2.08	0.57
3:MJ:11:ILE:HG22	3:MJ:17:GLN:O	2.03	0.57
3:MJ:59:ARG:HA	3:MJ:59:ARG:NE	2.20	0.57
3:NF:96:PHE:CE1	3:NF:105:ARG:CG	2.87	0.57
1:A:1828:C:O4'	3:GK:59:ARG:NH2	2.38	0.57
1:A:2148:U:H2'	1:A:2149:U:O4'	2.04	0.57
1:A:2242:C:H5'	3:FJ:59:ARG:NH2	2.19	0.57
1:A:3298:C:H2'	1:A:3299:C:O4'	2.05	0.57
1:A:4022:C:H3'	1:A:4023:G:O4'	2.03	0.57
3:BB:127:GLN:C	3:BB:128:LEU:HD12	2.25	0.57
3:BF:111:GLU:N	3:IN:11:ILE:HD11	2.20	0.57
3:BH:86:ARG:HH12	3:IL:101:THR:HG23	1.68	0.57
3:CA:65:GLN:N	3:CA:65:GLN:OE1	2.37	0.57
3:CN:3:LEU:HD23	3:CN:3:LEU:H	1.67	0.57
3:EA:86:ARG:NH2	3:LM:100:SER:HA	2.19	0.57
3:EI:101:THR:O	3:EI:104:GLU:HG2	2.04	0.57
3:GD:121:LEU:O	3:GD:125:ILE:HG12	2.04	0.57
3:GG:125:ILE:CD1	3:JE:64:VAL:HG11	2.35	0.57
3:GJ:128:LEU:HD23	3:GN:62:TYR:CD2	2.40	0.57
3:GM:97:THR:N	3:GM:100:SER:OG	2.38	0.57
3:GN:116:LEU:HD23	3:GN:121:LEU:HD23	1.86	0.57
3:HA:56:SER:OG	3:HA:59:ARG:NE	2.28	0.57
3:HH:119:PRO:HA	3:HH:122:ILE:HG22	1.87	0.57
3:IG:54:GLN:HB3	3:IG:55:PRO:HD2	1.85	0.57
3:JD:49:THR:OG1	3:JD:67:LYS:HB2	2.05	0.57
3:JD:64:VAL:HG11	3:JH:125:ILE:HD13	1.85	0.57
3:JG:94:PHE:CE1	3:LD:90:ALA:HB1	2.40	0.57
3:JH:101:THR:OG1	3:JH:104:GLU:HG2	2.03	0.57
3:JI:105:ARG:CD	3:LB:128:LEU:HD11	2.34	0.57
3:KL:120:LEU:HD23	3:KL:121:LEU:N	2.20	0.57
3:LJ:100:SER:OG	3:LJ:105:ARG:NH1	2.37	0.57
3:MB:17:GLN:OE1	3:MB:17:GLN:N	2.37	0.57
1:A:1382:G:N2	1:A:1557:C:O2	2.37	0.57
1:A:2674:C:HO2'	1:A:2675:U:H6	1.52	0.57
1:A:2772:G:O6	3:DE:57:ARG:NH1	2.35	0.57
1:A:2996:C:H2'	1:A:2997:A:C8	2.39	0.57
1:A:3543:G:N1	1:A:3548:G:O6	2.37	0.57
3:BA:60:LYS:H	3:BA:61:ASN:HB3	1.70	0.57
3:BK:110:THR:CB	3:HK:11:ILE:HD12	2.34	0.57
3:BM:60:LYS:HB2	3:BM:61:ASN:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CA:125:ILE:CD1	3:DH:64:VAL:HG11	2.34	0.57
3:CB:11:ILE:HD12	3:HC:110:THR:CB	2.35	0.57
3:CB:102:ASP:OD1	3:CB:103:GLU:N	2.38	0.57
3:CF:11:ILE:CD1	3:GM:110:THR:HG23	2.35	0.57
3:CF:32:VAL:HG13	3:CF:51:SER:OG	2.04	0.57
3:CJ:3:LEU:CD2	3:HJ:131:ALA:HB1	2.34	0.57
3:CM:111:GLU:N	3:NA:11:ILE:HD11	2.20	0.57
3:CN:13:LYS:HD2	3:CN:13:LYS:H	1.67	0.57
3:CN:111:GLU:O	3:CN:115:LEU:HD23	2.04	0.57
3:DG:52:VAL:O	3:DG:52:VAL:HG13	2.05	0.57
3:DM:13:LYS:NZ	3:EM:103:GLU:HA	2.19	0.57
3:EB:11:ILE:HG23	3:EB:17:GLN:HB2	1.87	0.57
3:EE:15:GLY:O	3:EE:16:LYS:HE2	2.04	0.57
3:EG:22:ASN:HD22	3:EG:38:ALA:HA	1.70	0.57
3:EJ:119:PRO:O	3:EJ:122:ILE:HG22	2.04	0.57
3:EN:115:LEU:HD23	3:EN:121:LEU:CD1	2.34	0.57
3:FE:125:ILE:HG23	3:FE:126:ASP:N	2.20	0.57
3:FG:55:PRO:HB3	3:FG:60:LYS:CD	2.35	0.57
3:FH:24:ARG:HG2	3:FH:25:GLY:H	1.68	0.57
3:FK:17:GLN:N	3:FK:17:GLN:OE1	2.38	0.57
3:HA:18:THR:C	3:HA:19:LEU:HD22	2.25	0.57
3:HB:52:VAL:O	3:HB:52:VAL:HG23	2.04	0.57
3:HN:115:LEU:HD22	3:ID:8:LEU:HD11	1.86	0.57
3:IA:18:THR:C	3:IA:19:LEU:HD22	2.25	0.57
3:IC:105:ARG:NE	3:JN:128:LEU:HD11	2.20	0.57
3:IE:8:LEU:HD21	3:JL:115:LEU:HD22	1.86	0.57
3:IG:8:LEU:HD12	3:JJ:114:ALA:CB	2.33	0.57
3:II:44:LEU:HD13	3:IK:98:GLN:HE21	1.70	0.57
3:JF:11:ILE:HD12	3:KA:110:THR:CB	2.35	0.57
3:JN:97:THR:N	3:JN:100:SER:OG	2.37	0.57
3:KC:26:VAL:O	3:KC:26:VAL:HG13	2.04	0.57
3:KE:65:GLN:NE2	3:KE:91:ASP:OD2	2.37	0.57
3:KH:66:VAL:HG21	3:KL:121:LEU:HD21	1.87	0.57
3:KK:41:VAL:O	3:KK:44:LEU:HG	2.04	0.57
3:KM:125:ILE:CD1	3:MF:64:VAL:HG11	2.35	0.57
3:LI:119:PRO:HA	3:LI:122:ILE:HG12	1.86	0.57
3:LK:7:THR:C	3:LK:8:LEU:HD22	2.24	0.57
3:NB:125:ILE:HD13	3:NF:94:PHE:CE2	2.39	0.57
1:A:714:C:N3	1:A:719:A:C2	2.73	0.57
1:A:1537:U:H1'	3:EJ:58:ASN:CA	2.33	0.57
1:A:3880:U:H3'	1:A:3881:C:C5'	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BB:68:ILE:HG21	3:MA:111:GLU:OE2	2.04	0.57
3:BL:76:ALA:O	3:BL:79:SER:OG	2.14	0.57
3:CA:118:SER:O	3:CA:122:ILE:HG12	2.05	0.57
3:CD:102:ASP:OD1	3:CD:103:GLU:N	2.37	0.57
3:CF:8:LEU:HD11	3:GM:115:LEU:CD2	2.35	0.57
3:DE:111:GLU:HG3	3:EL:11:ILE:HD11	1.85	0.57
3:DE:128:LEU:HD11	3:EL:105:ARG:CD	2.34	0.57
3:DI:112:LEU:O	3:DI:116:LEU:HD23	2.05	0.57
3:DL:121:LEU:O	3:DL:125:ILE:HG22	2.05	0.57
3:ED:114:ALA:HB1	3:EH:8:LEU:HD11	1.85	0.57
3:ED:118:SER:O	3:ED:122:ILE:HG23	2.04	0.57
3:EL:11:ILE:HG22	3:EL:17:GLN:C	2.25	0.57
3:FB:30:ASN:OD1	3:FB:32:VAL:HG23	2.03	0.57
3:FJ:109:ARG:HE	3:HF:125:ILE:HD11	1.69	0.57
3:GD:21:LEU:CD1	3:GD:48:VAL:HG21	2.34	0.57
3:GG:64:VAL:HG11	3:JE:125:ILE:HD13	1.86	0.57
3:GI:11:ILE:HD12	3:JC:110:THR:HB	1.86	0.57
3:HE:98:GLN:HE21	3:HF:43:ALA:HB2	1.70	0.57
3:HM:55:PRO:HG3	3:HM:62:TYR:CE1	2.40	0.57
3:IA:80:CYS:HB3	3:ID:74:CYS:HA	1.87	0.57
3:IB:72:THR:O	3:IB:86:ARG:HB3	2.04	0.57
3:IF:111:GLU:N	3:NI:11:ILE:HD11	2.20	0.57
3:IG:128:LEU:HD11	3:JJ:105:ARG:NE	2.20	0.57
3:IH:23:PRO:HA	3:IH:35:LEU:HD23	1.85	0.57
3:II:11:ILE:HG22	3:II:17:GLN:C	2.25	0.57
3:JE:97:THR:N	3:JE:100:SER:OG	2.34	0.57
3:KE:11:ILE:HG22	3:KE:17:GLN:C	2.25	0.57
3:LE:3:LEU:HD12	3:LE:23:PRO:HB3	1.87	0.57
3:MC:91:ASP:OD1	3:NJ:93:THR:HB	2.05	0.57
3:MI:98:GLN:HG2	3:MI:99:TYR:CD1	2.40	0.57
3:NB:68:ILE:HD11	3:NF:111:GLU:CD	2.25	0.57
3:NE:59:ARG:HE	3:NE:63:LYS:HD3	1.69	0.57
3:NG:125:ILE:HG23	3:NG:126:ASP:N	2.20	0.57
1:A:1062:A:O2'	1:A:1063:C:O4'	2.20	0.57
1:A:1094:U:O2	1:A:1189:G:C2	2.58	0.57
1:A:1683:G:HO2'	1:A:1684:C:H5	1.50	0.57
1:A:2649:G:H21	3:EI:29:THR:CG2	2.17	0.57
1:A:3477:A:H2'	1:A:3478:A:O4'	2.05	0.57
1:A:3959:G:O2'	1:A:3960:G:O4'	2.20	0.57
3:BD:17:GLN:N	3:BD:17:GLN:OE1	2.36	0.57
3:BD:23:PRO:HA	3:BD:35:LEU:HD23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:111:GLU:N	3:BN:11:ILE:HD11	2.20	0.57
3:BL:64:VAL:HG11	3:CG:125:ILE:HD11	1.85	0.57
3:BL:103:GLU:HA	3:CG:13:LYS:HZ2	1.69	0.57
3:CF:92:VAL:HG22	3:GM:92:VAL:HG22	1.87	0.57
3:CG:63:LYS:HZ1	3:CG:95:SER:CB	2.17	0.57
3:CI:13:LYS:HZ2	3:DI:103:GLU:HA	1.68	0.57
3:CK:130:PRO:HB2	3:CK:132:TYR:CE2	2.40	0.57
3:CN:47:ARG:NE	3:CN:69:GLN:OE1	2.37	0.57
3:DE:8:LEU:HD11	3:EL:114:ALA:CB	2.30	0.57
3:DE:60:LYS:HB2	3:DE:98:GLN:CG	2.34	0.57
3:DJ:11:ILE:HG22	3:DJ:17:GLN:C	2.24	0.57
3:EG:32:VAL:HG22	3:EG:51:SER:CB	2.34	0.57
3:EI:55:PRO:HG3	3:EI:62:TYR:CZ	2.39	0.57
3:EI:96:PHE:CE1	3:EI:105:ARG:HG2	2.40	0.57
3:EI:107:PHE:HE1	3:GA:19:LEU:HD11	1.70	0.57
3:FH:115:LEU:HG	3:FK:8:LEU:HD11	1.86	0.57
3:FM:11:ILE:HG22	3:FM:17:GLN:C	2.24	0.57
3:GG:64:VAL:HG11	3:JE:125:ILE:CD1	2.34	0.57
3:GI:34:SER:C	3:GI:35:LEU:HD12	2.23	0.57
3:GL:11:ILE:HG23	3:GL:17:GLN:HB2	1.85	0.57
3:HF:18:THR:C	3:HF:19:LEU:HD22	2.25	0.57
3:HM:3:LEU:HD11	3:HM:35:LEU:HD11	1.86	0.57
3:ID:79:SER:HA	3:JN:75:THR:O	2.05	0.57
3:II:3:LEU:H	3:II:3:LEU:HD23	1.70	0.57
3:IN:87:GLN:OE1	3:IN:89:TYR:OH	2.20	0.57
3:JF:107:PHE:CZ	3:KA:19:LEU:HD11	2.40	0.57
3:JJ:105:ARG:O	3:JJ:108:VAL:HG12	2.05	0.57
3:KC:27:ASN:CG	3:KC:29:THR:HG1	2.06	0.57
3:LJ:3:LEU:O	3:LJ:3:LEU:HD12	2.05	0.57
3:LL:128:LEU:HD11	3:MB:105:ARG:CD	2.34	0.57
3:LM:117:ALA:O	3:LM:122:ILE:HD11	2.04	0.57
3:LN:106:ALA:HB3	3:MI:13:LYS:CE	2.34	0.57
3:MC:122:ILE:HG23	3:NJ:109:ARG:HH22	1.69	0.57
3:MI:55:PRO:HG3	3:MI:62:TYR:CE2	2.40	0.57
3:NB:110:THR:HB	3:NF:11:ILE:HD12	1.85	0.57
1:A:1412:U:H2'	1:A:1413:C:C6	2.40	0.57
1:A:2338:U:P	3:HB:57:ARG:HH12	2.28	0.57
1:A:2506:G:H2'	1:A:2507:U:O4'	2.04	0.57
1:A:3598:U:H2'	1:A:3599:A:C4	2.40	0.57
3:BB:46:LYS:CD	3:BB:70:ASN:OD1	2.53	0.57
3:BC:68:ILE:HD11	3:ND:115:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BE:11:ILE:HG22	3:BE:17:GLN:C	2.25	0.57
3:CA:47:ARG:NH2	3:CA:69:GLN:OE1	2.38	0.57
3:EE:108:VAL:O	3:EE:111:GLU:HG3	2.05	0.57
3:EE:115:LEU:HD23	3:LI:8:LEU:HD21	1.87	0.57
3:EM:23:PRO:HA	3:EM:35:LEU:HD13	1.86	0.57
3:FI:101:THR:N	3:FI:104:GLU:OE1	2.35	0.57
3:GE:100:SER:CA	3:HE:86:ARG:NH2	2.68	0.57
3:HD:104:GLU:O	3:HD:108:VAL:HG23	2.04	0.57
3:HJ:107:PHE:CD2	3:HJ:111:GLU:OE2	2.57	0.57
3:HL:4:GLU:OE1	3:HL:5:THR:N	2.38	0.57
3:IC:118:SER:O	3:IC:122:ILE:HG23	2.04	0.57
3:IE:62:TYR:CD2	3:JL:128:LEU:CD2	2.88	0.57
3:IG:55:PRO:HG3	3:IG:62:TYR:HE1	1.70	0.57
3:IJ:8:LEU:CD2	3:NE:114:ALA:HB1	2.24	0.57
3:IM:64:VAL:HG11	3:JM:125:ILE:CD1	2.34	0.57
3:JA:60:LYS:H	3:JA:61:ASN:HB3	1.69	0.57
3:JC:27:ASN:OD1	3:JC:29:THR:N	2.37	0.57
3:JC:45:GLU:OE2	3:JC:45:GLU:N	2.38	0.57
3:JD:114:ALA:CB	3:JH:8:LEU:HD22	2.34	0.57
3:JE:18:THR:C	3:JE:19:LEU:HD22	2.25	0.57
3:JM:11:ILE:HG22	3:JM:17:GLN:C	2.25	0.57
3:KH:44:LEU:O	3:KH:44:LEU:HD12	2.05	0.57
3:KJ:3:LEU:HD23	3:LE:132:TYR:CA	2.34	0.57
3:KL:116:LEU:HD12	3:KL:116:LEU:O	2.04	0.57
3:LI:11:ILE:HG22	3:LI:17:GLN:O	2.04	0.57
3:LM:65:GLN:HG2	3:LM:93:THR:HG22	1.86	0.57
3:MA:101:THR:O	3:MA:104:GLU:HG2	2.05	0.57
3:MC:122:ILE:HG23	3:NJ:109:ARG:NH2	2.18	0.57
3:MM:30:ASN:OD1	3:MM:32:VAL:HG23	2.03	0.57
1:A:186:G:N2	1:A:265:G:OP1	2.35	0.57
1:A:2437:U:O2'	1:A:2438:C:P	2.63	0.57
1:A:2987:A:C6	1:A:4051:G:O6	2.58	0.57
1:A:3504:A:N1	1:A:3505:A:N6	2.53	0.57
1:A:3536:G:H2'	1:A:3537:U:C6	2.40	0.57
1:A:3929:U:H2'	1:A:3930:C:O4'	2.04	0.57
3:BC:11:ILE:HD11	3:ND:111:GLU:N	2.19	0.57
3:BE:77:ASN:O	3:JB:77:ASN:ND2	2.38	0.57
3:CA:126:ASP:O	3:DH:105:ARG:NH2	2.36	0.57
3:CB:23:PRO:HA	3:CB:35:LEU:HD23	1.85	0.57
3:DD:116:LEU:HA	3:DD:121:LEU:HD12	1.87	0.57
3:DL:44:LEU:HD12	3:DL:44:LEU:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EA:103:GLU:HA	3:LM:13:LYS:NZ	2.20	0.57
3:EB:114:ALA:HB3	3:MJ:8:LEU:HD22	1.87	0.57
3:FD:94:PHE:CE1	3:LH:125:ILE:HD11	2.40	0.57
3:FI:43:ALA:O	3:FI:44:LEU:HD22	2.05	0.57
3:FJ:48:VAL:HG13	3:FJ:68:ILE:CD1	2.35	0.57
3:FN:121:LEU:O	3:FN:125:ILE:HG22	2.05	0.57
3:GI:13:LYS:HD2	3:JC:106:ALA:HB3	1.87	0.57
3:IC:110:THR:CB	3:JN:11:ILE:HD12	2.35	0.57
3:IH:11:ILE:HD12	3:NG:110:THR:HB	1.87	0.57
3:JA:112:LEU:O	3:JA:116:LEU:HD23	2.04	0.57
3:JG:48:VAL:HG11	3:LD:115:LEU:CD1	2.34	0.57
3:JL:41:VAL:O	3:JL:45:GLU:OE1	2.23	0.57
3:KB:41:VAL:O	3:KB:44:LEU:HG	2.04	0.57
3:KJ:13:LYS:HE2	3:LE:103:GLU:HA	1.87	0.57
3:LM:6:VAL:HG12	3:LM:8:LEU:CD2	2.35	0.57
1:A:2180:C:H2'	1:A:2181:U:O4'	2.05	0.56
1:A:2490:A:H3'	1:A:2491:A:C5'	2.35	0.56
1:A:2631:G:O2'	3:GC:65:GLN:OE1	2.19	0.56
1:A:2923:G:O2'	1:A:2924:A:O4'	2.22	0.56
3:BB:18:THR:O	3:BB:19:LEU:HD22	2.05	0.56
3:BG:132:TYR:HD2	3:ID:132:TYR:HH	1.51	0.56
3:CB:114:ALA:CB	3:HC:8:LEU:HD12	2.34	0.56
3:CN:119:PRO:HA	3:CN:122:ILE:HG22	1.87	0.56
3:DF:13:LYS:HD2	3:DF:13:LYS:N	2.20	0.56
3:EG:22:ASN:ND2	3:EG:38:ALA:HA	2.20	0.56
3:FF:103:GLU:N	3:FF:103:GLU:OE1	2.38	0.56
3:FI:3:LEU:HD21	3:FI:33:ALA:HB1	1.87	0.56
3:GI:11:ILE:HG22	3:GI:17:GLN:C	2.25	0.56
3:GI:11:ILE:HD12	3:JC:110:THR:OG1	2.05	0.56
3:GI:110:THR:CB	3:JC:11:ILE:HD12	2.35	0.56
3:HD:48:VAL:HG12	3:HD:68:ILE:HD12	1.87	0.56
3:HE:11:ILE:HG23	3:HE:17:GLN:HB2	1.87	0.56
3:HN:126:ASP:OD1	3:ID:106:ALA:HB2	2.04	0.56
3:IC:11:ILE:HG22	3:IC:17:GLN:O	2.05	0.56
3:IC:18:THR:O	3:IC:19:LEU:HD22	2.05	0.56
3:IE:11:ILE:HG23	3:IE:17:GLN:HB2	1.87	0.56
3:IG:105:ARG:NH1	3:JJ:126:ASP:C	2.58	0.56
3:IJ:62:TYR:CD1	3:NE:128:LEU:CD2	2.88	0.56
3:IM:91:ASP:OD1	3:IM:93:THR:HG23	2.05	0.56
3:JF:64:VAL:HG11	3:KA:125:ILE:HD11	1.87	0.56
3:JM:79:SER:OG	3:JM:81:ASP:OD2	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KJ:18:THR:C	3:KJ:19:LEU:HD22	2.25	0.56
3:LI:3:LEU:HD23	3:LI:3:LEU:H	1.70	0.56
3:NA:17:GLN:N	3:NA:17:GLN:OE1	2.38	0.56
3:NA:18:THR:C	3:NA:19:LEU:HD22	2.26	0.56
1:A:634:A:O3'	3:HJ:69:GLN:NE2	2.36	0.56
1:A:725:U:N3	1:A:726:G:N7	2.53	0.56
1:A:963:U:C2	1:A:1048:G:O6	2.58	0.56
1:A:2192:U:H2'	1:A:2193:A:C8	2.40	0.56
1:A:2916:G:H2'	1:A:2917:C:O4'	2.04	0.56
1:A:3537:U:C2	1:A:3538:C:C5	2.94	0.56
1:A:3994:G:O3'	1:A:3997:A:N6	2.38	0.56
3:BB:86:ARG:HH12	3:MA:101:THR:HG23	1.70	0.56
3:BI:11:ILE:HG22	3:BI:17:GLN:C	2.26	0.56
3:CA:39:GLY:N	3:CA:45:GLU:OE2	2.38	0.56
3:CA:114:ALA:HB3	3:DH:8:LEU:HD12	1.87	0.56
3:CC:120:LEU:HD22	3:CC:121:LEU:HD12	1.86	0.56
3:CD:125:ILE:HD12	3:HA:94:PHE:HD2	1.69	0.56
3:CL:110:THR:CB	3:HH:11:ILE:HD12	2.35	0.56
3:DB:125:ILE:HD11	3:DK:96:PHE:CZ	2.41	0.56
3:DG:62:TYR:CD1	3:EJ:128:LEU:HD23	2.41	0.56
3:FC:75:THR:HG22	3:FC:82:PRO:CG	2.35	0.56
3:FE:55:PRO:HD3	3:FE:62:TYR:HE1	1.70	0.56
3:FI:109:ARG:NH2	3:KE:125:ILE:H	2.03	0.56
3:FJ:64:VAL:HG11	3:HF:125:ILE:HG22	1.85	0.56
3:GC:79:SER:O	3:GC:80:CYS:HB2	2.05	0.56
3:HN:132:TYR:CE1	3:ID:26:VAL:HG21	2.39	0.56
3:II:18:THR:C	3:II:19:LEU:HD22	2.25	0.56
3:JI:129:ASN:OD1	3:KN:24:ARG:NE	2.38	0.56
3:KB:60:LYS:HB2	3:KB:61:ASN:CB	2.35	0.56
3:LE:127:GLN:N	3:LE:127:GLN:OE1	2.38	0.56
3:LG:106:ALA:HB3	3:MG:13:LYS:CE	2.35	0.56
3:LJ:69:GLN:OE1	3:LJ:89:TYR:CD2	2.58	0.56
1:A:331:C:H3'	1:A:332:U:H5'	1.87	0.56
1:A:365:A:OP2	1:A:368:U:N3	2.38	0.56
1:A:759:A:HO2'	1:A:760:C:C5'	2.18	0.56
1:A:1271:U:O4	1:A:1276:C:N3	2.38	0.56
1:A:1841:C:H2'	1:A:1842:U:C6	2.41	0.56
1:A:2328:G:H21	3:HC:59:ARG:HH22	1.53	0.56
1:A:3244:U:H4'	3:KK:57:ARG:HE	1.70	0.56
1:A:3923:G:N2	1:A:4162:U:O2'	2.34	0.56
1:A:3926:G:O4'	1:A:4160:A:N6	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3993:A:N6	1:A:3999:C:H42	2.02	0.56
3:BB:8:LEU:CD1	3:MA:114:ALA:HB3	2.35	0.56
3:BB:110:THR:OG1	3:MA:11:ILE:HD12	2.04	0.56
3:BD:60:LYS:HB2	3:BD:61:ASN:CB	2.36	0.56
3:BG:23:PRO:HA	3:BG:35:LEU:HD23	1.87	0.56
3:BH:11:ILE:HD11	3:IL:111:GLU:N	2.19	0.56
3:BH:55:PRO:HD3	3:BH:62:TYR:CE2	2.40	0.56
3:BI:111:GLU:N	3:HM:11:ILE:HD11	2.20	0.56
3:BI:118:SER:O	3:BI:122:ILE:HG12	2.05	0.56
3:BJ:125:ILE:HD13	3:BN:64:VAL:HG11	1.87	0.56
3:CD:20:VAL:O	3:CD:37:GLN:NE2	2.37	0.56
3:CH:114:ALA:HB1	3:HL:8:LEU:HD12	1.86	0.56
3:CJ:107:PHE:CZ	3:HJ:19:LEU:HD21	2.40	0.56
3:DB:3:LEU:CD1	3:DB:35:LEU:HD11	2.35	0.56
3:DD:37:GLN:NE2	3:DD:38:ALA:O	2.39	0.56
3:DF:3:LEU:HD23	3:DF:3:LEU:H	1.71	0.56
3:DF:41:VAL:O	3:DF:44:LEU:HG	2.05	0.56
3:DG:103:GLU:OE2	3:DG:103:GLU:HA	2.05	0.56
3:DH:111:GLU:O	3:DH:115:LEU:HD23	2.05	0.56
3:DJ:52:VAL:O	3:DJ:52:VAL:HG13	2.05	0.56
3:DK:24:ARG:NE	3:DK:36:SER:OG	2.38	0.56
3:DL:118:SER:O	3:DL:122:ILE:HG12	2.05	0.56
3:DM:129:ASN:OD1	3:EN:24:ARG:NH2	2.38	0.56
3:EA:106:ALA:CB	3:LM:13:LYS:HD3	2.34	0.56
3:EC:11:ILE:HG22	3:EC:17:GLN:O	2.06	0.56
3:EE:86:ARG:CZ	3:LI:99:TYR:O	2.54	0.56
3:FB:115:LEU:C	3:FB:121:LEU:HD12	2.25	0.56
3:FH:58:ASN:O	3:FH:59:ARG:NH2	2.37	0.56
3:FH:99:TYR:OH	3:FI:84:VAL:HG12	2.05	0.56
3:FJ:132:TYR:CE1	3:HF:26:VAL:HG11	2.41	0.56
3:FN:115:LEU:CD2	3:HB:8:LEU:HD21	2.35	0.56
3:GB:60:LYS:N	3:GB:61:ASN:HB3	2.19	0.56
3:GC:94:PHE:HB3	3:GC:105:ARG:HH22	1.71	0.56
3:GD:11:ILE:HG22	3:GD:17:GLN:C	2.26	0.56
3:GD:68:ILE:HD11	3:KF:111:GLU:OE2	2.04	0.56
3:GE:19:LEU:HD11	3:GE:37:GLN:HG2	1.86	0.56
3:GL:111:GLU:OE2	3:HG:19:LEU:HD22	2.05	0.56
3:HE:11:ILE:HG22	3:HE:17:GLN:O	2.05	0.56
3:HG:111:GLU:O	3:HG:115:LEU:HD23	2.04	0.56
3:HJ:41:VAL:O	3:HJ:45:GLU:OE1	2.24	0.56
3:HN:131:ALA:O	3:HN:132:TYR:CD1	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IE:8:LEU:HD23	3:JL:114:ALA:CB	2.36	0.56
3:IG:103:GLU:HA	3:JJ:13:LYS:CE	2.35	0.56
3:IJ:11:ILE:HD11	3:NE:111:GLU:N	2.21	0.56
3:IM:125:ILE:HD13	3:JM:94:PHE:CE2	2.39	0.56
3:IN:65:GLN:OE1	3:IN:93:THR:OG1	2.17	0.56
3:JC:34:SER:C	3:JC:35:LEU:HD12	2.25	0.56
3:JF:11:ILE:HG23	3:JF:17:GLN:HB2	1.88	0.56
3:JJ:6:VAL:HG12	3:JJ:8:LEU:CD2	2.35	0.56
3:JL:11:ILE:HG23	3:JL:17:GLN:HB2	1.88	0.56
3:JN:102:ASP:OD1	3:JN:103:GLU:N	2.38	0.56
3:KH:11:ILE:HG22	3:KH:17:GLN:O	2.05	0.56
3:KL:18:THR:O	3:KL:19:LEU:HD22	2.05	0.56
3:KM:52:VAL:HG23	3:KM:52:VAL:O	2.04	0.56
3:KM:97:THR:HG23	3:MF:86:ARG:HH21	1.70	0.56
3:LA:114:ALA:CB	3:MD:8:LEU:HD12	2.33	0.56
3:LC:27:ASN:OD1	3:LC:29:THR:N	2.33	0.56
3:LD:48:VAL:HG22	3:LD:68:ILE:CD1	2.35	0.56
3:LG:87:GLN:OE1	3:LG:89:TYR:OH	2.22	0.56
3:LG:108:VAL:HG12	3:MG:70:ASN:ND2	2.20	0.56
3:LH:41:VAL:O	3:LH:45:GLU:OE1	2.23	0.56
3:MI:118:SER:O	3:MI:122:ILE:HG12	2.05	0.56
3:MM:125:ILE:HG23	3:MM:126:ASP:N	2.18	0.56
3:NB:99:TYR:OH	3:NC:84:VAL:HG22	2.05	0.56
1:A:1231:C:O2'	1:A:1232:C:OP1	2.17	0.56
1:A:1973:U:O4	1:A:1974:A:N6	2.39	0.56
1:A:2428:A:H2'	1:A:2429:A:C8	2.40	0.56
1:A:2454:A:N6	1:A:2468:G:O6	2.38	0.56
1:A:2470:C:HO2'	1:A:2471:C:P	2.22	0.56
1:A:2704:A:O2'	1:A:2705:U:O5'	2.18	0.56
1:A:2831:A:N1	1:A:2832:A:N6	2.53	0.56
1:A:3829:U:O4	3:FE:57:ARG:NH2	2.39	0.56
3:BJ:112:LEU:O	3:BJ:116:LEU:HD23	2.06	0.56
3:CB:13:LYS:HZ1	3:HC:103:GLU:CA	2.18	0.56
3:CF:8:LEU:HD22	3:GM:114:ALA:HB1	1.87	0.56
3:CM:64:VAL:HG11	3:NA:125:ILE:CD1	2.35	0.56
3:DM:11:ILE:HD11	3:EM:111:GLU:N	2.19	0.56
3:DN:60:LYS:HD3	3:DN:98:GLN:HG2	1.86	0.56
3:EG:132:TYR:CE2	3:GC:26:VAL:HG21	2.40	0.56
3:EN:116:LEU:HA	3:EN:121:LEU:HD12	1.87	0.56
3:GG:111:GLU:N	3:JE:11:ILE:HD11	2.21	0.56
3:HD:6:VAL:HG12	3:HD:8:LEU:HD21	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HG:48:VAL:HG22	3:HG:68:ILE:HG23	1.86	0.56
3:HI:100:SER:HA	3:II:86:ARG:NH1	2.19	0.56
3:HN:12:GLY:N	3:ID:110:THR:HG21	2.19	0.56
3:IB:115:LEU:HD22	3:IK:8:LEU:HD11	1.86	0.56
3:IH:52:VAL:HG23	3:IH:64:VAL:HG22	1.86	0.56
3:IJ:115:LEU:HD22	3:NE:8:LEU:CD2	2.36	0.56
3:IL:11:ILE:HG22	3:IL:17:GLN:C	2.25	0.56
3:IN:81:ASP:OD1	3:JM:86:ARG:NH1	2.38	0.56
3:JA:72:THR:HB	3:JA:86:ARG:HB3	1.87	0.56
3:JB:97:THR:N	3:JB:100:SER:OG	2.38	0.56
3:JK:3:LEU:HD23	3:KN:131:ALA:HB1	1.86	0.56
3:KC:74:CYS:HA	3:LD:80:CYS:HB3	1.87	0.56
3:KI:95:SER:C	3:KI:96:PHE:HD1	2.09	0.56
3:KM:123:ASP:OD1	3:KM:129:ASN:OD1	2.22	0.56
3:LC:41:VAL:O	3:LC:44:LEU:HG	2.06	0.56
3:LD:48:VAL:HG13	3:LD:68:ILE:CD1	2.36	0.56
3:LE:47:ARG:O	3:LE:68:ILE:HD12	2.05	0.56
3:LI:56:SER:N	3:LI:59:ARG:O	2.33	0.56
3:MA:97:THR:O	3:MA:100:SER:OG	2.18	0.56
3:ME:52:VAL:HG11	3:NH:130:PRO:HG3	1.88	0.56
3:ML:79:SER:OG	3:ML:81:ASP:OD1	2.22	0.56
3:MM:41:VAL:O	3:MM:44:LEU:HG	2.04	0.56
3:NF:79:SER:O	3:NF:80:CYS:SG	2.63	0.56
3:NH:52:VAL:HG12	3:NH:64:VAL:HG13	1.87	0.56
1:A:435:G:P	3:MM:63:LYS:HZ3	2.27	0.56
1:A:2656:A:C2'	1:A:2657:A:O5'	2.54	0.56
1:A:2870:U:O2	1:A:2887:G:C6	2.57	0.56
2:M:127:PHE:O	2:M:131:LEU:HD23	2.05	0.56
3:BJ:105:ARG:CZ	3:BN:128:LEU:HD11	2.36	0.56
3:BL:128:LEU:CD2	3:CG:62:TYR:CD2	2.89	0.56
3:CB:126:ASP:OD2	3:HC:106:ALA:HB2	2.06	0.56
3:CG:11:ILE:HG23	3:CG:17:GLN:CD	2.26	0.56
3:CM:34:SER:C	3:CM:35:LEU:HD22	2.25	0.56
3:CN:121:LEU:C	3:DD:109:ARG:HH12	2.08	0.56
3:DK:18:THR:O	3:DK:19:LEU:HD22	2.06	0.56
3:DK:125:ILE:HG23	3:DK:126:ASP:N	2.21	0.56
3:EA:41:VAL:HG13	3:EA:44:LEU:HD11	1.87	0.56
3:EI:7:THR:C	3:EI:8:LEU:HD22	2.26	0.56
3:EK:98:GLN:O	3:EL:42:PRO:HD2	2.06	0.56
3:EK:114:ALA:CB	3:FM:8:LEU:HD22	2.35	0.56
3:EL:102:ASP:OD1	3:EL:103:GLU:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FH:114:ALA:HB3	3:FK:8:LEU:HD13	1.87	0.56
3:FJ:115:LEU:HD22	3:HF:8:LEU:CD1	2.36	0.56
3:FL:101:THR:CG2	3:FL:104:GLU:OE1	2.54	0.56
3:GJ:56:SER:O	3:GJ:59:ARG:O	2.23	0.56
3:HA:118:SER:O	3:HA:122:ILE:HG12	2.06	0.56
3:HD:127:GLN:N	3:HD:127:GLN:OE1	2.39	0.56
3:IB:125:ILE:HG23	3:IB:126:ASP:N	2.20	0.56
3:IG:58:ASN:O	3:IG:59:ARG:NH1	2.39	0.56
3:JM:41:VAL:HG13	3:JM:44:LEU:HD11	1.87	0.56
3:KF:125:ILE:HG23	3:KF:126:ASP:N	2.20	0.56
3:KM:122:ILE:HA	3:MF:109:ARG:NH1	2.20	0.56
3:MA:63:LYS:HD2	3:MA:93:THR:CG2	2.35	0.56
3:MA:115:LEU:HG	3:MA:121:LEU:HD11	1.87	0.56
3:MB:84:VAL:HG22	3:MB:87:GLN:NE2	2.20	0.56
3:MJ:99:TYR:OH	3:MK:84:VAL:HG12	2.05	0.56
3:MN:26:VAL:HG13	3:MN:26:VAL:O	2.05	0.56
1:A:2507:U:H2'	1:A:2508:A:H3'	1.87	0.56
1:A:4080:G:H2'	1:A:4081:U:O4'	2.06	0.56
3:BD:126:ASP:HB2	3:JB:105:ARG:CZ	2.35	0.56
3:BF:11:ILE:HG22	3:BF:17:GLN:C	2.26	0.56
3:CK:112:LEU:HD23	3:NC:116:LEU:HD21	1.88	0.56
3:CL:79:SER:HA	3:NC:75:THR:O	2.06	0.56
3:CM:128:LEU:HD23	3:NA:62:TYR:HD2	1.69	0.56
3:DD:115:LEU:HD22	3:DD:121:LEU:HD11	1.87	0.56
3:DL:86:ARG:NH1	3:MN:101:THR:HG23	2.20	0.56
3:EE:47:ARG:HH22	3:EE:49:THR:HG22	1.70	0.56
3:EJ:3:LEU:H	3:EJ:3:LEU:HD23	1.70	0.56
3:EL:18:THR:O	3:EL:19:LEU:HD22	2.05	0.56
3:FE:129:ASN:OD1	3:KJ:24:ARG:NH1	2.38	0.56
3:GE:11:ILE:HG23	3:GE:17:GLN:HB2	1.88	0.56
3:GH:11:ILE:HD12	3:KB:110:THR:CB	2.36	0.56
3:GI:132:TYR:CA	3:JC:3:LEU:HD23	2.35	0.56
3:HD:11:ILE:HG22	3:HD:17:GLN:C	2.25	0.56
3:HF:122:ILE:O	3:HF:126:ASP:CB	2.53	0.56
3:IE:107:PHE:O	3:IE:111:GLU:OE1	2.24	0.56
3:IF:41:VAL:O	3:IF:44:LEU:HG	2.05	0.56
3:IG:10:ASN:OD1	3:IG:15:GLY:CA	2.54	0.56
3:LB:125:ILE:HG23	3:LB:126:ASP:N	2.21	0.56
3:MB:8:LEU:O	3:MB:18:THR:HG23	2.06	0.56
3:MB:70:ASN:HB3	3:MB:88:ALA:HB3	1.86	0.56
1:A:1131:U:O2	1:A:1151:G:C2	2.59	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2350:G:H2'	1:A:2351:C:C6	2.40	0.56
1:A:3240:G:H2'	1:A:3241:A:O4'	2.06	0.56
1:A:3540:U:P	3:GD:57:ARG:HG2	2.46	0.56
1:A:3797:G:C2	3:KK:57:ARG:HB2	2.41	0.56
3:BB:111:GLU:CD	3:MA:68:ILE:HD11	2.26	0.56
3:BK:110:THR:HB	3:HK:11:ILE:HD12	1.87	0.56
3:CB:13:LYS:NZ	3:HC:103:GLU:OE2	2.32	0.56
3:CC:86:ARG:HH22	3:DF:99:TYR:CA	2.19	0.56
3:CM:24:ARG:HH22	3:HH:129:ASN:HA	1.71	0.56
3:CM:125:ILE:CD1	3:NA:64:VAL:HG11	2.36	0.56
3:CM:128:LEU:HD11	3:NA:105:ARG:HD2	1.88	0.56
3:DA:80:CYS:HB3	3:DD:74:CYS:HA	1.87	0.56
3:DA:99:TYR:OH	3:DB:82:PRO:N	2.38	0.56
3:DB:34:SER:C	3:DB:35:LEU:HD12	2.26	0.56
3:DM:3:LEU:HD22	3:EM:131:ALA:HB1	1.88	0.56
3:EB:6:VAL:HG12	3:EB:8:LEU:HD22	1.87	0.56
3:EE:102:ASP:OD2	3:LI:13:LYS:NZ	2.33	0.56
3:EF:5:THR:HG23	3:EF:5:THR:O	2.06	0.56
3:EG:8:LEU:HD22	3:GC:114:ALA:HB1	1.87	0.56
3:EK:56:SER:OG	3:EK:59:ARG:N	2.38	0.56
3:EM:28:PRO:HG3	3:FA:26:VAL:HG11	1.88	0.56
3:FA:46:LYS:HD3	3:FA:71:PRO:HD2	1.88	0.56
3:FJ:54:GLN:O	3:FJ:59:ARG:HG3	2.06	0.56
3:FJ:106:ALA:HA	3:FJ:109:ARG:HG2	1.88	0.56
3:FM:3:LEU:HD23	3:FM:3:LEU:H	1.69	0.56
3:GF:132:TYR:OH	3:KC:26:VAL:HG13	2.06	0.56
3:GH:41:VAL:HG23	3:GH:44:LEU:HB2	1.88	0.56
3:GJ:41:VAL:O	3:GJ:44:LEU:HG	2.06	0.56
3:HG:119:PRO:HA	3:HG:122:ILE:HD12	1.87	0.56
3:HI:62:TYR:HD2	3:II:128:LEU:CD2	2.19	0.56
3:IB:56:SER:OG	3:IB:59:ARG:NE	2.35	0.56
3:JA:14:ASP:OD2	3:JA:16:LYS:N	2.39	0.56
3:JE:11:ILE:HG22	3:JE:17:GLN:C	2.26	0.56
3:JE:96:PHE:CE2	3:JE:105:ARG:HG3	2.41	0.56
3:JE:102:ASP:HA	3:JE:105:ARG:NH1	2.21	0.56
3:JN:128:LEU:HD12	3:JN:128:LEU:N	2.20	0.56
3:KG:11:ILE:HG22	3:KG:17:GLN:O	2.05	0.56
3:LN:116:LEU:HA	3:MI:109:ARG:CZ	2.36	0.56
3:NG:91:ASP:O	3:NG:91:ASP:OD1	2.24	0.56
1:A:366:U:O2'	1:A:816:U:O3'	2.24	0.56
1:A:2802:C:N3	1:A:2824:C:N4	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3039:A:C2	1:A:3044:U:C6	2.94	0.56
1:A:3242:G:OP1	3:KK:30:ASN:ND2	2.39	0.56
1:A:3411:G:H2'	1:A:3412:U:O4'	2.06	0.56
1:A:3758:U:O4	3:FD:57:ARG:NH1	2.34	0.56
3:BD:8:LEU:HD22	3:JB:114:ALA:HB1	1.87	0.56
3:BD:105:ARG:NE	3:JB:128:LEU:HD11	2.20	0.56
3:BH:116:LEU:CD1	3:IL:112:LEU:HD22	2.36	0.56
3:CB:18:THR:O	3:CB:19:LEU:HD22	2.06	0.56
3:CK:60:LYS:H	3:CK:61:ASN:HB3	1.70	0.56
3:CL:26:VAL:HG11	3:HH:132:TYR:CZ	2.41	0.56
3:DC:8:LEU:HD22	3:EN:114:ALA:HB1	1.87	0.56
3:DI:81:ASP:OD2	3:DK:99:TYR:CE2	2.59	0.56
3:DM:48:VAL:HG13	3:DM:68:ILE:CD1	2.36	0.56
3:EB:111:GLU:CD	3:MJ:68:ILE:HD13	2.26	0.56
3:EC:110:THR:OG1	3:LK:11:ILE:HD12	2.05	0.56
3:FB:8:LEU:HD22	3:LJ:114:ALA:CB	2.36	0.56
3:FC:132:TYR:CE2	3:GC:26:VAL:HG22	2.41	0.56
3:FF:126:ASP:O	3:LF:105:ARG:NE	2.38	0.56
3:FI:89:TYR:HB2	3:KE:95:SER:OG	2.06	0.56
3:FJ:109:ARG:NH2	3:HF:125:ILE:HG13	2.21	0.56
3:GC:10:ASN:OD1	3:GC:15:GLY:C	2.44	0.56
3:GC:26:VAL:O	3:GC:26:VAL:HG23	2.06	0.56
3:GJ:128:LEU:CD2	3:GN:62:TYR:CD2	2.89	0.56
3:HA:4:GLU:O	3:HA:6:VAL:HG23	2.06	0.56
3:IB:52:VAL:HG23	3:IB:64:VAL:HG22	1.87	0.56
3:IB:79:SER:OG	3:IB:81:ASP:OD1	2.24	0.56
3:ID:55:PRO:CD	3:ID:62:TYR:HD1	2.18	0.56
3:ID:112:LEU:O	3:ID:116:LEU:HD23	2.06	0.56
3:ID:118:SER:O	3:ID:122:ILE:HG12	2.06	0.56
3:IE:55:PRO:HB3	3:IE:60:LYS:CD	2.36	0.56
3:IK:127:GLN:HB2	3:IK:129:ASN:OD1	2.05	0.56
3:KK:130:PRO:HG3	3:MH:52:VAL:HG11	1.88	0.56
3:LD:21:LEU:HD21	3:LD:48:VAL:HG21	1.87	0.56
3:ME:74:CYS:HA	3:NI:80:CYS:HB3	1.88	0.56
3:NE:125:ILE:HG23	3:NE:126:ASP:N	2.21	0.56
1:A:1312:G:H22	1:A:1317:G:N2	2.03	0.56
1:A:1832:U:P	3:JA:59:ARG:NH2	2.79	0.56
1:A:2039:U:P	3:KB:59:ARG:HH22	2.29	0.56
2:M:228:HIS:O	2:M:232:GLN:OE1	2.22	0.56
3:BB:55:PRO:HD3	3:BB:62:TYR:CD1	2.41	0.56
3:BB:103:GLU:HA	3:MA:13:LYS:HZ3	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:18:THR:C	3:BC:19:LEU:HD12	2.26	0.56
3:BE:48:VAL:HG22	3:BE:68:ILE:HD12	1.87	0.56
3:BF:110:THR:HB	3:IN:11:ILE:HD12	1.87	0.56
3:BG:14:ASP:OD2	3:BG:15:GLY:N	2.38	0.56
3:BH:61:ASN:ND2	3:BH:96:PHE:O	2.39	0.56
3:BK:26:VAL:O	3:CG:132:TYR:OH	2.24	0.56
3:BM:60:LYS:HB2	3:BM:61:ASN:CB	2.35	0.56
3:CB:101:THR:HG22	3:CC:41:VAL:HG22	1.88	0.56
3:DA:75:THR:O	3:MN:79:SER:HA	2.06	0.56
3:DM:8:LEU:HD12	3:EM:114:ALA:CB	2.36	0.56
3:EC:119:PRO:HA	3:EC:122:ILE:HD12	1.88	0.56
3:ED:44:LEU:HD22	3:EF:98:GLN:O	2.06	0.56
3:ED:131:ALA:HB1	3:EH:3:LEU:CD2	2.36	0.56
3:EE:72:THR:CG2	3:EE:86:ARG:HB2	2.36	0.56
3:EI:52:VAL:O	3:EI:52:VAL:HG23	2.06	0.56
3:EL:52:VAL:HG23	3:EL:64:VAL:CG2	2.35	0.56
3:GF:105:ARG:NH2	3:KD:126:ASP:O	2.35	0.56
3:GG:97:THR:HG23	3:GG:100:SER:N	2.21	0.56
3:HF:11:ILE:HG23	3:HF:17:GLN:HB2	1.88	0.56
3:HI:26:VAL:HG11	3:II:132:TYR:HE1	1.71	0.56
3:IM:3:LEU:HD22	3:JM:131:ALA:HB1	1.88	0.56
3:JL:11:ILE:HG22	3:JL:17:GLN:C	2.24	0.56
3:KH:131:ALA:O	3:KH:132:TYR:CD1	2.59	0.56
3:KI:96:PHE:CE2	3:KI:105:ARG:HG2	2.41	0.56
3:LI:60:LYS:H	3:LI:61:ASN:HB2	1.71	0.56
3:MD:41:VAL:O	3:MD:44:LEU:HG	2.06	0.56
3:MD:60:LYS:CB	3:MD:61:ASN:HB2	2.36	0.56
3:MH:20:VAL:O	3:MH:20:VAL:HG13	2.05	0.56
3:ND:52:VAL:O	3:ND:52:VAL:HG23	2.05	0.56
3:NJ:48:VAL:HG23	3:NJ:68:ILE:CG1	2.36	0.56
1:A:903:C:P	3:II:60:LYS:HZ3	2.24	0.56
1:A:2329:C:C4'	3:HC:59:ARG:HE	2.19	0.56
1:A:2835:A:H61	1:A:2850:G:P	2.29	0.56
1:A:3243:G:N2	1:A:3802:A:N1	2.54	0.56
1:A:3537:U:H2'	1:A:3538:C:C6	2.41	0.56
1:A:3930:C:N3	1:A:3931:U:N3	2.54	0.56
2:M:208:TYR:CE2	3:B:27:ASN:ND2	2.73	0.56
3:BC:8:LEU:HD23	3:ND:114:ALA:HB3	1.88	0.56
3:BC:11:ILE:HD12	3:ND:110:THR:HB	1.86	0.56
3:BC:111:GLU:CD	3:ND:68:ILE:HD13	2.27	0.56
3:BI:120:LEU:CD1	3:HM:6:VAL:HG21	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BK:4:GLU:O	3:BK:6:VAL:HG23	2.06	0.56
3:CD:101:THR:HG23	3:CD:104:GLU:H	1.70	0.56
3:CM:103:GLU:OE2	3:NA:13:LYS:HE2	2.06	0.56
3:DC:123:ASP:OD2	3:DC:129:ASN:ND2	2.38	0.56
3:DE:84:VAL:HG22	3:DE:87:GLN:NE2	2.20	0.56
3:DG:56:SER:OG	3:DG:58:ASN:OD1	2.11	0.56
3:EB:37:GLN:HB3	3:EB:45:GLU:OE2	2.06	0.56
3:EC:105:ARG:CD	3:LK:125:ILE:O	2.53	0.56
3:EK:125:ILE:HD13	3:FM:94:PHE:CD1	2.41	0.56
3:FM:20:VAL:C	3:FM:21:LEU:HD22	2.25	0.56
3:GD:13:LYS:HZ3	3:KF:103:GLU:CD	2.09	0.56
3:GM:60:LYS:N	3:GM:61:ASN:HB3	2.21	0.56
3:HI:106:ALA:HB3	3:II:13:LYS:HD2	1.88	0.56
3:IE:11:ILE:HG22	3:IE:17:GLN:C	2.26	0.56
3:IK:118:SER:O	3:IK:122:ILE:HG12	2.05	0.56
3:JB:10:ASN:O	3:JB:11:ILE:HD13	2.06	0.56
3:JK:122:ILE:HD13	3:KN:109:ARG:CZ	2.36	0.56
3:KB:102:ASP:OD1	3:KB:103:GLU:N	2.39	0.56
3:KL:80:CYS:HB3	3:MH:74:CYS:HA	1.87	0.56
3:LA:8:LEU:HD12	3:MD:114:ALA:CB	2.36	0.56
3:LC:99:TYR:OH	3:LD:84:VAL:N	2.36	0.56
3:LL:8:LEU:HB3	3:LL:11:ILE:HD11	1.87	0.56
3:MG:11:ILE:HG22	3:MG:17:GLN:C	2.25	0.56
3:MG:20:VAL:HG23	3:MG:38:ALA:HB2	1.89	0.56
3:MI:102:ASP:OD1	3:MI:103:GLU:N	2.39	0.56
3:MJ:41:VAL:O	3:MJ:44:LEU:HG	2.06	0.56
3:MJ:56:SER:O	3:MJ:59:ARG:O	2.23	0.56
3:ML:5:THR:HG23	3:ML:22:ASN:OD1	2.06	0.56
3:ML:98:GLN:OE1	3:ML:99:TYR:CE2	2.59	0.56
3:NE:41:VAL:O	3:NE:44:LEU:HG	2.06	0.56
1:A:2249:C:O3'	3:HE:57:ARG:NH2	2.39	0.55
1:A:2833:C:H2'	1:A:2834:G:O4'	2.06	0.55
1:A:2922:A:C5	1:A:2923:G:H1'	2.41	0.55
1:A:2923:G:O2'	1:A:2924:A:P	2.64	0.55
1:A:3340:A:H2'	1:A:3341:G:C4	2.41	0.55
1:A:3609:G:O6	1:A:3645:U:C5	2.59	0.55
3:BD:68:ILE:HD12	3:JB:111:GLU:OE1	2.06	0.55
3:BI:3:LEU:HD21	3:HM:131:ALA:HB1	1.88	0.55
3:BL:110:THR:CB	3:CG:11:ILE:HD12	2.36	0.55
3:BM:101:THR:HB	3:BM:103:GLU:OE1	2.06	0.55
3:CA:122:ILE:HD13	3:DH:109:ARG:CZ	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CK:41:VAL:O	3:CK:44:LEU:HG	2.05	0.55
3:DG:64:VAL:HG11	3:EJ:125:ILE:HG22	1.88	0.55
3:ED:22:ASN:C	3:ED:35:LEU:HD13	2.26	0.55
3:EE:17:GLN:HE22	3:EE:19:LEU:HD23	1.70	0.55
3:EF:55:PRO:HG3	3:EF:62:TYR:CE2	2.42	0.55
3:EG:126:ASP:OD1	3:GC:102:ASP:OD2	2.23	0.55
3:EJ:58:ASN:OD1	3:EJ:58:ASN:N	2.30	0.55
3:FE:18:THR:C	3:FE:19:LEU:HD22	2.26	0.55
3:FE:60:LYS:HB2	3:FE:61:ASN:CB	2.37	0.55
3:GL:112:LEU:HD22	3:HG:116:LEU:HD12	1.89	0.55
3:JC:49:THR:HG21	3:JC:67:LYS:HE3	1.87	0.55
3:JI:110:THR:HB	3:LB:11:ILE:HD12	1.88	0.55
3:KJ:70:ASN:HD22	3:LE:108:VAL:HG12	1.71	0.55
3:KM:132:TYR:O	3:MF:3:LEU:HD13	2.05	0.55
3:LG:54:GLN:HB3	3:LG:55:PRO:HD2	1.88	0.55
3:MC:96:PHE:CE2	3:MC:105:ARG:HB2	2.41	0.55
3:MD:6:VAL:HG12	3:MD:8:LEU:HD22	1.88	0.55
3:MH:34:SER:C	3:MH:35:LEU:HD22	2.27	0.55
3:MM:3:LEU:HD12	3:MM:3:LEU:O	2.04	0.55
3:NG:27:ASN:OD1	3:NG:29:THR:N	2.38	0.55
1:A:464:G:N2	1:A:464:G:OP1	2.39	0.55
1:A:886:A:H2'	1:A:887:U:O4'	2.07	0.55
1:A:2688:C:N4	1:A:2763:C:H42	2.04	0.55
1:A:3107:U:O2'	3:MG:69:GLN:NE2	2.38	0.55
1:A:3574:C:O2	1:A:3913:G:N1	2.38	0.55
1:A:4092:A:H2'	1:A:4093:C:O4'	2.06	0.55
1:A:4152:G:O6	1:A:4168:A:N6	2.40	0.55
3:BB:18:THR:C	3:BB:19:LEU:HD22	2.26	0.55
3:CF:125:ILE:CG2	3:CF:126:ASP:N	2.70	0.55
3:CJ:105:ARG:HD2	3:HJ:128:LEU:HD11	1.87	0.55
3:CJ:105:ARG:NH2	3:HJ:126:ASP:O	2.39	0.55
3:CN:125:ILE:HD13	3:DD:64:VAL:HG11	1.88	0.55
3:DC:27:ASN:CG	3:DC:29:THR:HG1	2.05	0.55
3:DL:128:LEU:HD22	3:MN:62:TYR:CD2	2.41	0.55
3:EC:6:VAL:HG22	3:LK:120:LEU:HD11	1.89	0.55
3:EC:11:ILE:HD12	3:LK:110:THR:HB	1.89	0.55
3:EE:49:THR:OG1	3:EE:67:LYS:HB3	2.05	0.55
3:FB:64:VAL:HG11	3:LJ:125:ILE:CG1	2.36	0.55
3:GE:27:ASN:O	3:GE:27:ASN:OD1	2.24	0.55
3:GL:128:LEU:HD11	3:HG:105:ARG:NE	2.22	0.55
3:GM:11:ILE:HG22	3:GM:17:GLN:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:60:LYS:HB2	3:HB:61:ASN:CB	2.35	0.55
3:HI:110:THR:CB	3:II:11:ILE:HD12	2.36	0.55
3:IB:11:ILE:HD12	3:IK:110:THR:CB	2.37	0.55
3:IC:60:LYS:HB2	3:IC:61:ASN:HB2	1.89	0.55
3:IF:129:ASN:OD1	3:NJ:24:ARG:NH2	2.40	0.55
3:JH:48:VAL:HG22	3:JH:68:ILE:HD12	1.88	0.55
3:KK:54:GLN:O	3:KK:56:SER:N	2.40	0.55
3:LM:62:TYR:HE2	3:LN:42:PRO:HG2	1.72	0.55
3:MG:30:ASN:OD1	3:MG:32:VAL:HG23	2.06	0.55
3:ND:27:ASN:CG	3:ND:29:THR:HG1	2.07	0.55
3:NJ:7:THR:C	3:NJ:8:LEU:HD22	2.27	0.55
1:A:485:C:H2'	1:A:486:G:C8	2.41	0.55
1:A:706:U:O2	1:A:726:G:N2	2.38	0.55
1:A:1425:A:C5	1:A:2603:A:O5'	2.59	0.55
1:A:3466:G:H2'	1:A:3467:G:O4'	2.06	0.55
3:BC:20:VAL:O	3:BC:20:VAL:HG13	2.06	0.55
3:BE:114:ALA:HB3	3:CE:8:LEU:CD1	2.36	0.55
3:BG:3:LEU:HD13	3:BG:23:PRO:HB2	1.88	0.55
3:BJ:102:ASP:OD1	3:BJ:103:GLU:N	2.39	0.55
3:CA:23:PRO:HA	3:CA:35:LEU:HD23	1.87	0.55
3:CK:48:VAL:HG11	3:NC:115:LEU:CD1	2.35	0.55
3:CL:28:PRO:HB3	3:NA:132:TYR:CZ	2.41	0.55
3:CM:8:LEU:CD1	3:NA:115:LEU:HD22	2.36	0.55
3:CM:125:ILE:HD11	3:NA:64:VAL:HG11	1.88	0.55
3:DB:8:LEU:HD21	3:DK:115:LEU:CD2	2.36	0.55
3:DE:59:ARG:NE	3:DE:61:ASN:HD22	2.03	0.55
3:EE:30:ASN:OD1	3:EE:32:VAL:HG12	2.05	0.55
3:FE:8:LEU:HD22	3:KI:115:LEU:CD2	2.37	0.55
3:FE:110:THR:OG1	3:KI:11:ILE:HG23	2.06	0.55
3:GG:55:PRO:HD3	3:GG:62:TYR:CE2	2.42	0.55
3:GJ:114:ALA:CB	3:GN:8:LEU:HD11	2.31	0.55
3:GM:48:VAL:HG13	3:GM:68:ILE:CD1	2.36	0.55
3:HB:20:VAL:HG23	3:HB:38:ALA:HB2	1.89	0.55
3:HH:99:TYR:OH	3:HI:84:VAL:N	2.36	0.55
3:HI:105:ARG:HD2	3:II:128:LEU:HD11	1.87	0.55
3:HM:34:SER:C	3:HM:35:LEU:HD12	2.26	0.55
3:IH:11:ILE:HG22	3:IH:17:GLN:C	2.27	0.55
3:JF:109:ARG:HG3	3:KA:116:LEU:HD11	1.88	0.55
3:JH:79:SER:HA	3:LD:75:THR:O	2.07	0.55
3:KN:27:ASN:ND2	3:KN:29:THR:HG1	2.03	0.55
3:MF:101:THR:HG23	3:MF:104:GLU:H	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:63:LYS:NZ	3:ND:64:VAL:O	2.40	0.55
3:NE:60:LYS:H	3:NE:61:ASN:HB3	1.71	0.55
1:A:1828:C:O5'	3:GK:59:ARG:NH2	2.38	0.55
1:A:3072:C:H2'	1:A:3073:G:O4'	2.06	0.55
1:A:3261:U:H2'	1:A:3262:C:C6	2.42	0.55
1:A:3440:A:C2	1:A:3441:C:C5	2.94	0.55
1:A:3478:A:HO2'	1:A:3479:G:H8	1.52	0.55
1:A:3703:G:H2'	1:A:3704:U:C6	2.40	0.55
1:A:3931:U:H2'	1:A:3932:U:O4'	2.07	0.55
3:BH:102:ASP:OD2	3:BH:103:GLU:N	2.39	0.55
3:BJ:30:ASN:OD1	3:BJ:32:VAL:HG23	2.05	0.55
3:BK:2:LYS:NZ	3:BL:4:GLU:OE1	2.38	0.55
3:BK:74:CYS:HA	3:HL:80:CYS:HB3	1.88	0.55
3:CD:99:TYR:HB3	3:HA:86:ARG:NH2	2.21	0.55
3:CL:132:TYR:HE2	3:HI:26:VAL:HG23	1.72	0.55
3:CM:24:ARG:NH1	3:CM:36:SER:OG	2.39	0.55
3:DA:48:VAL:HG13	3:DA:68:ILE:HD13	1.87	0.55
3:DM:103:GLU:HA	3:EM:13:LYS:NZ	2.21	0.55
3:ED:27:ASN:O	3:ED:31:GLY:N	2.39	0.55
3:EI:125:ILE:CG2	3:GA:64:VAL:HG11	2.36	0.55
3:EM:109:ARG:HE	3:EM:110:THR:HG23	1.71	0.55
3:FB:73:ALA:HB2	3:FB:84:VAL:HG22	1.87	0.55
3:FE:1:ALA:HB1	3:KI:131:ALA:HA	1.88	0.55
3:FF:70:ASN:ND2	3:FF:88:ALA:HB3	2.21	0.55
3:FJ:64:VAL:HG21	3:HF:125:ILE:HG22	1.88	0.55
3:GD:14:ASP:OD1	3:GD:15:GLY:N	2.39	0.55
3:GF:11:ILE:HG23	3:GF:17:GLN:HB2	1.87	0.55
3:GG:103:GLU:HA	3:JE:13:LYS:CE	2.35	0.55
3:GL:84:VAL:O	3:GL:84:VAL:HG23	2.06	0.55
3:HC:112:LEU:O	3:HC:116:LEU:HD13	2.06	0.55
3:HF:11:ILE:HG22	3:HF:17:GLN:C	2.26	0.55
3:HM:97:THR:N	3:HM:100:SER:OG	2.39	0.55
3:HM:101:THR:HG23	3:HM:103:GLU:HB2	1.89	0.55
3:JK:26:VAL:HG13	3:JK:26:VAL:O	2.06	0.55
3:KG:42:PRO:O	3:KG:47:ARG:NH2	2.39	0.55
3:KH:13:LYS:HZ2	3:KL:103:GLU:HA	1.69	0.55
3:KJ:117:ALA:O	3:KJ:122:ILE:HD11	2.06	0.55
3:LA:116:LEU:HD22	3:MD:112:LEU:HD22	1.88	0.55
3:LG:55:PRO:HD3	3:LG:62:TYR:HE1	1.71	0.55
3:ME:102:ASP:OD1	3:NH:126:ASP:O	2.24	0.55
3:MG:41:VAL:O	3:MG:44:LEU:HG	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:714:C:OP1	3:KC:59:ARG:NH2	2.40	0.55
1:A:1825:G:O6	1:A:1847:C:N4	2.39	0.55
1:A:3413:C:H2'	1:A:3414:A:O4'	2.07	0.55
3:BC:52:VAL:HG23	3:BC:64:VAL:HG22	1.89	0.55
3:BD:132:TYR:OH	3:JB:26:VAL:HG11	2.07	0.55
3:CB:60:LYS:H	3:CB:61:ASN:HB3	1.70	0.55
3:CI:75:THR:O	3:DJ:79:SER:HA	2.07	0.55
3:DC:97:THR:N	3:DC:100:SER:OG	2.39	0.55
3:DI:11:ILE:HG23	3:DI:17:GLN:HB2	1.88	0.55
3:EE:79:SER:HA	3:EH:75:THR:O	2.07	0.55
3:EH:14:ASP:OD2	3:EH:14:ASP:O	2.25	0.55
3:EK:125:ILE:HG12	3:FM:109:ARG:CZ	2.36	0.55
3:EK:128:LEU:O	3:FN:24:ARG:NH2	2.40	0.55
3:EM:6:VAL:HG12	3:EM:8:LEU:HD22	1.89	0.55
3:FN:8:LEU:HD12	3:FN:19:LEU:HD23	1.87	0.55
3:FN:103:GLU:HA	3:HB:13:LYS:HD2	1.87	0.55
3:GG:110:THR:CB	3:JE:11:ILE:HD12	2.37	0.55
3:GH:79:SER:HA	3:JE:75:THR:O	2.06	0.55
3:GI:32:VAL:HG12	3:GI:51:SER:HB2	1.89	0.55
3:GI:120:LEU:HD11	3:JC:6:VAL:CG2	2.37	0.55
3:GJ:57:ARG:HD2	3:GJ:57:ARG:H	1.70	0.55
3:GL:99:TYR:O	3:HG:86:ARG:NH1	2.33	0.55
3:HI:11:ILE:HG23	3:HI:17:GLN:HB2	1.87	0.55
3:IA:87:GLN:N	3:IA:87:GLN:OE1	2.39	0.55
3:IB:52:VAL:O	3:IB:52:VAL:HG13	2.05	0.55
3:IC:122:ILE:HA	3:JN:109:ARG:HH12	1.71	0.55
3:IE:11:ILE:HD12	3:JL:110:THR:CB	2.37	0.55
3:IF:54:GLN:HB3	3:IF:55:PRO:CD	2.36	0.55
3:IG:87:GLN:HG2	3:IG:87:GLN:O	2.06	0.55
3:IJ:110:THR:OG1	3:NE:11:ILE:HD12	2.07	0.55
3:JE:32:VAL:HG22	3:JE:51:SER:OG	2.05	0.55
3:JF:111:GLU:N	3:KA:11:ILE:HD11	2.21	0.55
3:JG:60:LYS:H	3:JG:61:ASN:HB2	1.71	0.55
3:JK:89:TYR:HB2	3:KN:95:SER:OG	2.07	0.55
3:JM:127:GLN:N	3:JM:127:GLN:OE1	2.39	0.55
3:KC:41:VAL:O	3:KC:41:VAL:HG13	2.06	0.55
3:LD:13:LYS:HG3	3:LD:14:ASP:N	2.21	0.55
3:MB:20:VAL:HG23	3:MB:20:VAL:O	2.06	0.55
3:MB:26:VAL:O	3:MB:26:VAL:HG13	2.06	0.55
3:MC:56:SER:OG	3:MC:59:ARG:NE	2.35	0.55
3:MK:101:THR:HB	3:MK:103:GLU:OE1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MN:43:ALA:C	3:MN:44:LEU:HD12	2.26	0.55
3:NB:55:PRO:HG3	3:NB:62:TYR:HE2	1.70	0.55
3:NJ:55:PRO:O	3:NJ:55:PRO:HD2	2.05	0.55
1:A:98:A:N6	1:A:152:A:N7	2.54	0.55
1:A:1680:C:C4	1:A:1681:U:C2	2.94	0.55
1:A:2727:U:O2	1:A:2742:G:C6	2.58	0.55
1:A:3095:U:C5	1:A:3096:A:N7	2.74	0.55
3:BF:131:ALA:HA	3:IN:1:ALA:HB3	1.89	0.55
3:CA:110:THR:HB	3:DH:11:ILE:HD12	1.88	0.55
3:CB:115:LEU:HD22	3:CB:121:LEU:HD11	1.89	0.55
3:CD:42:PRO:HD2	3:CD:43:ALA:N	2.21	0.55
3:CJ:108:VAL:HG22	3:HJ:70:ASN:HD22	1.72	0.55
3:CL:112:LEU:HD11	3:HH:92:VAL:CG2	2.37	0.55
3:CN:119:PRO:O	3:CN:122:ILE:HG22	2.06	0.55
3:DG:99:TYR:H	3:EJ:86:ARG:HH22	1.54	0.55
3:EE:129:ASN:OD1	3:LJ:24:ARG:NH1	2.39	0.55
3:FI:52:VAL:HG13	3:FI:64:VAL:HG22	1.87	0.55
3:FL:32:VAL:HG12	3:FL:51:SER:OG	2.07	0.55
3:IB:111:GLU:N	3:IK:11:ILE:HD11	2.22	0.55
3:ID:34:SER:O	3:ID:35:LEU:HD23	2.06	0.55
3:IF:41:VAL:HG13	3:IF:44:LEU:HD21	1.89	0.55
3:IJ:18:THR:C	3:IJ:19:LEU:HD22	2.27	0.55
3:JG:8:LEU:HD12	3:LD:114:ALA:CB	2.37	0.55
3:JG:48:VAL:HG11	3:LD:115:LEU:HD11	1.89	0.55
3:KA:27:ASN:OD1	3:KA:29:THR:N	2.40	0.55
3:KB:60:LYS:HB2	3:KB:61:ASN:HB2	1.88	0.55
3:KE:99:TYR:OH	3:KF:84:VAL:HG12	2.07	0.55
3:KI:81:ASP:OD2	3:KL:86:ARG:NH1	2.40	0.55
3:KM:11:ILE:HG23	3:MF:110:THR:CG2	2.37	0.55
3:MM:60:LYS:HB2	3:MM:61:ASN:CB	2.37	0.55
1:A:2276:U:H3	1:A:2308:C:H41	1.55	0.55
1:A:2441:A:C6	1:A:2661:G:C6	2.95	0.55
1:A:2514:U:H3'	3:EE:59:ARG:NH2	2.20	0.55
1:A:2568:G:P	1:A:2569:C:H41	2.28	0.55
1:A:2649:G:O2'	3:EH:57:ARG:NH2	2.40	0.55
1:A:3542:C:H2'	1:A:3543:G:O4'	2.07	0.55
2:M:160:LEU:HD22	2:M:220:VAL:HG12	1.88	0.55
3:BD:114:ALA:CB	3:JB:8:LEU:HD12	2.36	0.55
3:CB:67:LYS:HD3	3:CB:91:ASP:HB3	1.86	0.55
3:CJ:92:VAL:HG21	3:HJ:112:LEU:HD11	1.88	0.55
3:CN:87:GLN:HG2	3:CN:87:GLN:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DE:1:ALA:N	3:EL:123:ASP:OD2	2.37	0.55
3:DF:99:TYR:OH	3:DG:84:VAL:HG22	2.06	0.55
3:DM:61:ASN:OD1	3:DM:97:THR:HB	2.07	0.55
3:EB:6:VAL:HG12	3:EB:8:LEU:CD2	2.36	0.55
3:EB:64:VAL:HG11	3:MJ:125:ILE:HG22	1.88	0.55
3:EF:18:THR:O	3:EF:19:LEU:HD22	2.06	0.55
3:FC:119:PRO:HA	3:FC:122:ILE:HD12	1.89	0.55
3:FF:79:SER:HA	3:KI:75:THR:O	2.07	0.55
3:GJ:111:GLU:CA	3:GN:11:ILE:HD11	2.36	0.55
3:GJ:126:ASP:O	3:GN:105:ARG:CZ	2.55	0.55
3:GK:109:ARG:NH2	3:JA:122:ILE:HB	2.21	0.55
3:GL:125:ILE:HG23	3:GL:126:ASP:N	2.22	0.55
3:HD:34:SER:C	3:HD:35:LEU:HD12	2.26	0.55
3:HH:32:VAL:HG22	3:HH:51:SER:OG	2.06	0.55
3:IB:110:THR:CB	3:IK:11:ILE:HD12	2.37	0.55
3:JH:48:VAL:HG13	3:JH:68:ILE:HD13	1.88	0.55
3:JK:125:ILE:HD12	3:KN:94:PHE:CD2	2.42	0.55
3:JL:27:ASN:OD1	3:JL:29:THR:N	2.38	0.55
3:KG:91:ASP:OD1	3:KG:92:VAL:N	2.39	0.55
3:KJ:32:VAL:HG12	3:KJ:51:SER:HB3	1.89	0.55
3:KJ:100:SER:CA	3:LE:86:ARG:HH22	2.20	0.55
3:LG:125:ILE:HD11	3:MG:94:PHE:HD1	1.72	0.55
3:LL:30:ASN:OD1	3:LL:32:VAL:HG23	2.07	0.55
3:MA:24:ARG:NH1	3:NJ:128:LEU:O	2.38	0.55
3:MC:111:GLU:OE2	3:NJ:68:ILE:HG21	2.06	0.55
3:MI:101:THR:HG23	3:MI:104:GLU:OE1	2.07	0.55
3:NE:59:ARG:O	3:NE:60:LYS:HD3	2.05	0.55
1:A:1905:C:O5'	1:A:2001:C:O2'	2.24	0.55
1:A:1944:G:O2'	3:JN:60:LYS:NZ	2.34	0.55
1:A:2036:U:O2	1:A:2124:G:O6	2.24	0.55
1:A:3399:G:H2'	1:A:3400:A:O4'	2.07	0.55
1:A:3557:U:O5'	3:GF:57:ARG:NH1	2.40	0.55
1:A:3663:G:H4'	3:LH:97:THR:HG22	1.87	0.55
3:BE:3:LEU:O	3:BE:3:LEU:HD12	2.07	0.55
3:BG:114:ALA:CB	3:IA:8:LEU:HD12	2.35	0.55
3:BJ:13:LYS:HZ3	3:BN:103:GLU:HA	1.72	0.55
3:CD:112:LEU:O	3:CD:116:LEU:HD23	2.07	0.55
3:CH:15:GLY:O	3:CH:16:LYS:HE2	2.06	0.55
3:CL:74:CYS:HA	3:HI:80:CYS:HB3	1.89	0.55
3:CL:112:LEU:HD22	3:HH:116:LEU:HD11	1.89	0.55
3:DA:106:ALA:HB2	3:MM:126:ASP:OD2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:86:ARG:NH1	3:MN:99:TYR:O	2.39	0.55
3:DN:11:ILE:HG22	3:DN:17:GLN:O	2.07	0.55
3:EB:116:LEU:HD21	3:MJ:109:ARG:HG2	1.88	0.55
3:EJ:37:GLN:OE1	3:EJ:46:LYS:NZ	2.24	0.55
3:EJ:115:LEU:HG	3:EJ:121:LEU:HD11	1.88	0.55
3:EK:111:GLU:N	3:FM:11:ILE:HD11	2.22	0.55
3:EK:114:ALA:HB1	3:FM:8:LEU:HD22	1.89	0.55
3:EM:18:THR:C	3:EM:19:LEU:HD22	2.27	0.55
3:FC:112:LEU:HD21	3:GB:92:VAL:CG2	2.36	0.55
3:FC:126:ASP:O	3:GB:105:ARG:NE	2.37	0.55
3:FH:126:ASP:C	3:FK:105:ARG:NH1	2.60	0.55
3:FJ:132:TYR:O	3:HF:2:LYS:NZ	2.38	0.55
3:GE:11:ILE:HD11	3:HE:111:GLU:N	2.22	0.55
3:GF:42:PRO:HD2	3:GF:43:ALA:H	1.72	0.55
3:GK:105:ARG:NH2	3:JA:126:ASP:O	2.35	0.55
3:HM:128:LEU:HD12	3:HM:128:LEU:N	2.22	0.55
3:II:101:THR:N	3:II:104:GLU:OE2	2.38	0.55
3:IL:102:ASP:OD1	3:IL:103:GLU:N	2.40	0.55
3:JF:27:ASN:OD1	3:JF:29:THR:N	2.36	0.55
3:JI:32:VAL:HG12	3:JI:51:SER:HB2	1.89	0.55
3:LE:117:ALA:O	3:LE:122:ILE:HD11	2.06	0.55
3:LL:24:ARG:HG3	3:LL:25:GLY:H	1.70	0.55
3:NG:48:VAL:HG12	3:NG:68:ILE:HD12	1.89	0.55
1:A:401:A:HO2'	1:A:402:U:H6	1.52	0.55
1:A:1088:A:H4'	1:A:1089:U:OP1	2.06	0.55
1:A:2486:A:C6	1:A:2589:G:C6	2.94	0.55
1:A:2543:U:H4'	1:A:2544:G:C2	2.42	0.55
1:A:3082:U:O2'	1:A:3083:G:N7	2.32	0.55
1:A:3099:G:O3'	3:MG:58:ASN:ND2	2.40	0.55
2:M:243:GLU:N	2:M:243:GLU:OE1	2.40	0.55
3:BB:61:ASN:ND2	3:BB:96:PHE:O	2.40	0.55
3:BC:131:ALA:HB1	3:ND:3:LEU:HD21	1.89	0.55
3:BD:119:PRO:C	3:BD:122:ILE:HG22	2.27	0.55
3:BK:8:LEU:N	3:BK:8:LEU:HD22	2.22	0.55
3:BM:126:ASP:OD1	3:DJ:109:ARG:CZ	2.55	0.55
3:CC:71:PRO:HA	3:CC:86:ARG:O	2.07	0.55
3:CG:118:SER:O	3:CG:122:ILE:HG12	2.07	0.55
3:CI:8:LEU:CD1	3:DI:115:LEU:HD22	2.37	0.55
3:CK:111:GLU:O	3:CK:115:LEU:HD23	2.07	0.55
3:DF:13:LYS:N	3:DF:13:LYS:CD	2.70	0.55
3:DG:125:ILE:O	3:DG:128:LEU:HD11	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:132:TYR:CE1	3:MN:26:VAL:HG11	2.42	0.55
3:FC:61:ASN:O	3:FC:61:ASN:OD1	2.24	0.55
3:GH:18:THR:O	3:GH:19:LEU:HD23	2.07	0.55
3:HI:11:ILE:HD12	3:II:110:THR:HB	1.88	0.55
3:HN:13:LYS:HE3	3:ID:106:ALA:HB3	1.88	0.55
3:IG:4:GLU:OE2	3:IG:5:THR:OG1	2.25	0.55
3:JE:43:ALA:C	3:JE:44:LEU:HD22	2.27	0.55
3:JI:37:GLN:OE1	3:JI:46:LYS:NZ	2.34	0.55
3:JK:103:GLU:OE2	3:JK:104:GLU:HG3	2.07	0.55
3:KJ:100:SER:HA	3:LE:86:ARG:HH22	1.71	0.55
3:LG:26:VAL:O	3:LG:26:VAL:HG13	2.06	0.55
3:NC:34:SER:C	3:NC:35:LEU:HD12	2.27	0.55
3:NJ:48:VAL:HG23	3:NJ:68:ILE:HG12	1.88	0.55
1:A:483:C:N4	1:A:484:G:O6	2.39	0.55
1:A:528:G:H22	1:A:529:A:H62	1.55	0.55
1:A:2214:G:H2'	1:A:2215:G:H8	1.71	0.55
1:A:2528:C:C2	1:A:2529:G:C8	2.95	0.55
1:A:2538:C:H42	1:A:2572:A:H62	1.55	0.55
1:A:3548:G:H2'	1:A:3549:C:C6	2.41	0.55
3:BA:18:THR:C	3:BA:19:LEU:HD22	2.28	0.55
3:BC:106:ALA:HB3	3:ND:13:LYS:CE	2.37	0.55
3:BD:114:ALA:O	3:BD:118:SER:OG	2.21	0.55
3:BF:3:LEU:HD12	3:BF:35:LEU:HD21	1.88	0.55
3:BF:43:ALA:C	3:BF:44:LEU:HD22	2.26	0.55
3:CE:119:PRO:O	3:CE:122:ILE:HB	2.07	0.55
3:CI:48:VAL:HG22	3:CI:68:ILE:HD12	1.88	0.55
3:CJ:1:ALA:HB3	3:HJ:131:ALA:HA	1.87	0.55
3:DB:125:ILE:HD11	3:DK:96:PHE:HZ	1.72	0.55
3:DC:131:ALA:HB1	3:EN:3:LEU:HD22	1.89	0.55
3:DF:11:ILE:HG22	3:DF:17:GLN:O	2.07	0.55
3:DG:109:ARG:HH22	3:EJ:126:ASP:HA	1.71	0.55
3:DI:97:THR:N	3:DI:100:SER:OG	2.40	0.55
3:DM:75:THR:O	3:EN:79:SER:HA	2.07	0.55
3:EE:10:ASN:O	3:EE:11:ILE:HD13	2.07	0.55
3:EG:88:ALA:HB2	3:GC:96:PHE:HE1	1.72	0.55
3:EG:128:LEU:HD22	3:GC:62:TYR:CE2	2.42	0.55
3:EK:1:ALA:HB2	3:FM:123:ASP:OD2	2.07	0.55
3:FA:115:LEU:C	3:FA:121:LEU:HD12	2.27	0.55
3:FC:92:VAL:CG2	3:GB:112:LEU:HD11	2.37	0.55
3:FD:11:ILE:HA	3:LH:110:THR:OG1	2.07	0.55
3:FI:109:ARG:NH1	3:KE:126:ASP:CG	2.61	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FN:13:LYS:NZ	3:HB:103:GLU:HA	2.22	0.55
3:GE:128:LEU:HD23	3:HE:62:TYR:CD2	2.42	0.55
3:GG:126:ASP:CG	3:JE:106:ALA:HB2	2.28	0.55
3:GI:41:VAL:O	3:GI:41:VAL:HG13	2.06	0.55
3:GM:3:LEU:O	3:GM:3:LEU:HD12	2.07	0.55
3:HD:121:LEU:O	3:HD:125:ILE:HG22	2.07	0.55
3:HG:116:LEU:HD23	3:HG:116:LEU:C	2.27	0.55
3:IB:11:ILE:HD12	3:IK:110:THR:HB	1.89	0.55
3:IC:111:GLU:N	3:JN:11:ILE:HD11	2.21	0.55
3:ID:61:ASN:OD1	3:ID:95:SER:OG	2.25	0.55
3:JD:105:ARG:NE	3:JH:126:ASP:O	2.40	0.55
3:JK:3:LEU:CD2	3:KN:131:ALA:HB1	2.37	0.55
3:KJ:100:SER:HA	3:LE:86:ARG:HH12	1.72	0.55
3:KJ:101:THR:HG22	3:KJ:104:GLU:CD	2.27	0.55
3:KJ:126:ASP:OD1	3:LE:106:ALA:HB2	2.07	0.55
3:KK:6:VAL:HG12	3:KK:8:LEU:HD21	1.88	0.55
3:KK:118:SER:O	3:KK:122:ILE:HG12	2.07	0.55
3:KM:86:ARG:HG3	3:MF:97:THR:HG21	1.87	0.55
3:LC:3:LEU:HD21	3:LC:33:ALA:HB1	1.89	0.55
3:LK:27:ASN:OD1	3:LK:29:THR:N	2.39	0.55
3:ME:109:ARG:HH12	3:NH:122:ILE:HD12	1.70	0.55
3:MK:97:THR:N	3:MK:100:SER:OG	2.39	0.55
3:ML:97:THR:N	3:ML:100:SER:HG	2.05	0.55
3:MN:128:LEU:HD12	3:MN:128:LEU:N	2.21	0.55
3:NF:48:VAL:HG13	3:NF:68:ILE:HD13	1.88	0.55
3:NH:41:VAL:HG13	3:NH:44:LEU:HD11	1.89	0.55
3:NI:112:LEU:O	3:NI:112:LEU:HD23	2.06	0.55
1:A:379:G:H22	1:A:423:U:H3	1.54	0.54
1:A:1825:G:N1	1:A:1847:C:N3	2.55	0.54
1:A:2488:U:H2'	1:A:2489:U:C6	2.42	0.54
1:A:2708:C:H5"	3:DD:67:LYS:HE3	1.89	0.54
1:A:3617:A:O2'	1:A:3620:A:N3	2.31	0.54
3:BK:114:ALA:HB3	3:HK:8:LEU:HD22	1.87	0.54
3:BL:74:CYS:HB2	3:BL:85:THR:HG21	1.88	0.54
3:CE:60:LYS:HB2	3:CE:61:ASN:CB	2.37	0.54
3:CG:7:THR:C	3:CG:8:LEU:HD12	2.27	0.54
3:CN:34:SER:C	3:CN:35:LEU:HD12	2.26	0.54
3:EB:55:PRO:HD3	3:EB:62:TYR:CE1	2.41	0.54
3:ED:8:LEU:HD21	3:EH:111:GLU:HA	1.89	0.54
3:EN:123:ASP:OD1	3:EN:129:ASN:ND2	2.38	0.54
3:FJ:111:GLU:HA	3:HF:11:ILE:HD11	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GC:122:ILE:O	3:GC:126:ASP:HB2	2.07	0.54
3:GJ:24:ARG:HG3	3:GJ:25:GLY:H	1.72	0.54
3:GL:132:TYR:CA	3:HG:3:LEU:HD23	2.38	0.54
3:HG:117:ALA:O	3:HG:122:ILE:HD11	2.07	0.54
3:HN:128:LEU:O	3:IE:24:ARG:NH1	2.40	0.54
3:ID:80:CYS:HB3	3:JN:74:CYS:HA	1.88	0.54
3:II:61:ASN:HA	3:II:96:PHE:O	2.06	0.54
3:JD:14:ASP:HB2	3:JD:16:LYS:NZ	2.20	0.54
3:KJ:99:TYR:O	3:LE:86:ARG:NH1	2.40	0.54
3:KM:126:ASP:C	3:MF:105:ARG:NH1	2.61	0.54
3:LA:37:GLN:NE2	3:LA:38:ALA:O	2.40	0.54
3:LJ:79:SER:O	3:LJ:80:CYS:HB2	2.06	0.54
3:LK:19:LEU:HD12	3:LK:19:LEU:O	2.07	0.54
3:LM:4:GLU:OE2	3:LM:6:VAL:HG22	2.07	0.54
3:MB:118:SER:O	3:MB:122:ILE:HG12	2.07	0.54
3:MD:32:VAL:HG13	3:MD:51:SER:HG	1.72	0.54
3:ME:27:ASN:CG	3:ME:29:THR:HG1	2.08	0.54
3:MM:23:PRO:O	3:MM:24:ARG:CZ	2.54	0.54
3:NJ:102:ASP:OD1	3:NJ:102:ASP:N	2.38	0.54
1:A:178:A:O4’	1:A:180:A:N6	2.40	0.54
1:A:1473:G:H2’	1:A:1474:C:C6	2.41	0.54
1:A:1832:U:N3	1:A:1833:A:N1	2.55	0.54
1:A:2307:G:H2’	1:A:2308:C:O4’	2.07	0.54
1:A:3307:A:O4’	1:A:3308:G:N7	2.40	0.54
1:A:3880:U:H4’	3:EC:55:PRO:HG2	1.89	0.54
1:A:3881:C:OP1	3:EC:60:LYS:NZ	2.38	0.54
1:A:3934:G:HO2’	1:A:3935:G:C5’	2.17	0.54
3:BK:111:GLU:N	3:HK:11:ILE:HD11	2.22	0.54
3:CE:4:GLU:OE1	3:CE:5:THR:N	2.40	0.54
3:CI:18:THR:C	3:CI:19:LEU:HD22	2.28	0.54
3:CJ:114:ALA:HB1	3:HJ:8:LEU:CD1	2.35	0.54
3:CK:60:LYS:CB	3:CK:61:ASN:HB2	2.37	0.54
3:CN:86:ARG:NH2	3:DD:100:SER:HA	2.23	0.54
3:DH:52:VAL:HG12	3:DH:64:VAL:HG22	1.89	0.54
3:DJ:112:LEU:O	3:DJ:116:LEU:HD23	2.07	0.54
3:EB:10:ASN:OD1	3:EB:15:GLY:CA	2.54	0.54
3:EJ:61:ASN:OD1	3:EJ:95:SER:OG	2.23	0.54
3:FB:44:LEU:HD22	3:FD:62:TYR:OH	2.07	0.54
3:FK:101:THR:N	3:FK:104:GLU:OE2	2.35	0.54
3:GD:100:SER:HA	3:KF:86:ARG:NH2	2.22	0.54
3:GI:110:THR:HB	3:JC:11:ILE:HD12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HG:55:PRO:HB3	3:HG:60:LYS:CD	2.37	0.54
3:HJ:3:LEU:CD1	3:HJ:35:LEU:HD11	2.37	0.54
3:HN:13:LYS:N	3:HN:13:LYS:CD	2.69	0.54
3:ID:46:LYS:HE2	3:ID:70:ASN:OD1	2.07	0.54
3:IE:4:GLU:O	3:IE:6:VAL:HG23	2.07	0.54
3:IE:99:TYR:O	3:JL:86:ARG:CZ	2.55	0.54
3:IK:18:THR:O	3:IK:19:LEU:HD22	2.07	0.54
3:IL:44:LEU:HD22	3:IN:98:GLN:O	2.05	0.54
3:IM:103:GLU:HA	3:JM:13:LYS:NZ	2.23	0.54
3:JI:5:THR:HG23	3:JI:22:ASN:OD1	2.07	0.54
3:JI:34:SER:O	3:JI:35:LEU:HD12	2.07	0.54
3:JK:111:GLU:HG2	3:KN:68:ILE:HD11	1.89	0.54
3:KC:42:PRO:O	3:KC:47:ARG:NH2	2.41	0.54
3:KG:3:LEU:HD12	3:KG:35:LEU:HD11	1.89	0.54
3:KL:79:SER:HA	3:MH:75:THR:O	2.07	0.54
3:KM:41:VAL:O	3:KM:45:GLU:OE1	2.23	0.54
3:KM:102:ASP:C	3:MF:13:LYS:HZ2	2.10	0.54
3:KN:37:GLN:OE1	3:KN:39:GLY:N	2.32	0.54
3:LE:101:THR:HG22	3:LE:104:GLU:OE1	2.06	0.54
3:MC:64:VAL:HG11	3:NJ:125:ILE:HD13	1.89	0.54
3:MC:86:ARG:NH1	3:NJ:104:GLU:OE2	2.32	0.54
3:MG:24:ARG:HG3	3:MG:25:GLY:H	1.73	0.54
3:MI:24:ARG:N	3:MI:34:SER:O	2.31	0.54
3:MM:123:ASP:OD1	3:MM:129:ASN:ND2	2.41	0.54
3:MM:127:GLN:N	3:MM:127:GLN:OE1	2.39	0.54
1:A:213:U:O2'	1:A:214:G:O5'	2.15	0.54
1:A:435:G:P	1:A:435:G:H8	2.30	0.54
1:A:505:A:H2'	1:A:506:C:C6	2.42	0.54
1:A:527:A:H2'	1:A:528:G:O4'	2.07	0.54
1:A:984:G:O6	1:A:1025:U:C2	2.60	0.54
1:A:1887:A:H2'	1:A:1888:C:C6	2.41	0.54
1:A:3933:A:O2'	3:KG:30:ASN:ND2	2.40	0.54
1:A:4064:U:C2	1:A:4090:G:N1	2.76	0.54
3:BE:79:SER:O	3:BE:80:CYS:HB2	2.06	0.54
3:BG:131:ALA:HB1	3:IA:3:LEU:HD23	1.88	0.54
3:BL:128:LEU:HD11	3:CG:105:ARG:HD2	1.88	0.54
3:CA:127:GLN:O	3:DF:24:ARG:NH1	2.30	0.54
3:CC:61:ASN:ND2	3:CC:96:PHE:O	2.40	0.54
3:DG:110:THR:OG1	3:EJ:11:ILE:HD12	2.07	0.54
3:DH:6:VAL:HG12	3:DH:8:LEU:HD21	1.89	0.54
3:EE:64:VAL:HG11	3:LI:125:ILE:HD13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FI:129:ASN:OD1	3:KF:24:ARG:NE	2.34	0.54
3:FL:52:VAL:HG21	3:HD:130:PRO:HA	1.88	0.54
3:GB:132:TYR:HH	3:LH:132:TYR:HE1	1.55	0.54
3:GF:11:ILE:HD12	3:KD:110:THR:OG1	2.07	0.54
3:HH:11:ILE:HG22	3:HH:17:GLN:C	2.28	0.54
3:HI:79:SER:O	3:HI:80:CYS:HB3	2.08	0.54
3:IF:60:LYS:H	3:IF:61:ASN:HB3	1.72	0.54
3:IH:11:ILE:HG23	3:IH:17:GLN:HB2	1.88	0.54
3:II:37:GLN:OE1	3:II:39:GLY:N	2.36	0.54
3:JA:96:PHE:CE1	3:JA:105:ARG:HG2	2.42	0.54
3:KB:99:TYR:OH	3:KC:84:VAL:HG12	2.07	0.54
3:KC:26:VAL:HG11	3:LC:132:TYR:CE2	2.42	0.54
1:A:662:G:H21	1:A:862:C:H42	1.56	0.54
1:A:712:A:C6	1:A:721:G:C6	2.96	0.54
1:A:2047:A:H8	3:GG:58:ASN:HD22	1.55	0.54
1:A:2470:C:HO2'	1:A:2471:C:C5'	2.10	0.54
1:A:2960:U:O3'	1:A:2961:A:C8	2.61	0.54
1:A:4140:U:OP1	3:FI:30:ASN:ND2	2.39	0.54
3:BB:66:VAL:HG21	3:MA:121:LEU:HD22	1.89	0.54
3:BC:8:LEU:HD12	3:BC:8:LEU:N	2.23	0.54
3:CA:8:LEU:HD13	3:DH:115:LEU:HD22	1.88	0.54
3:CA:16:LYS:HE2	3:CA:16:LYS:HA	1.89	0.54
3:CA:129:ASN:OD1	3:DF:24:ARG:C	2.45	0.54
3:CJ:18:THR:C	3:CJ:19:LEU:HD22	2.28	0.54
3:CM:61:ASN:O	3:CM:63:LYS:HG3	2.07	0.54
3:DA:74:CYS:HA	3:MN:80:CYS:HB3	1.89	0.54
3:DB:118:SER:O	3:DB:122:ILE:HG12	2.08	0.54
3:DC:105:ARG:NE	3:EN:128:LEU:HD11	2.23	0.54
3:DE:110:THR:OG1	3:EL:11:ILE:HD12	2.06	0.54
3:DE:112:LEU:HD11	3:EL:92:VAL:HG21	1.89	0.54
3:DE:130:PRO:HG2	3:EJ:25:GLY:HA3	1.88	0.54
3:DF:85:THR:HG22	3:DF:85:THR:O	2.06	0.54
3:DG:97:THR:HG23	3:EJ:86:ARG:NH1	2.21	0.54
3:DL:41:VAL:HG13	3:DL:44:LEU:HD21	1.89	0.54
3:EA:111:GLU:N	3:LM:11:ILE:HD11	2.21	0.54
3:EG:112:LEU:HD13	3:GC:68:ILE:HD13	1.88	0.54
3:EI:121:LEU:HA	3:EI:124:ALA:HB3	1.88	0.54
3:FG:15:GLY:O	3:FG:16:LYS:HE2	2.06	0.54
3:FJ:52:VAL:HG12	3:FJ:54:GLN:OE1	2.08	0.54
3:GD:14:ASP:O	3:GD:16:LYS:NZ	2.39	0.54
3:GD:88:ALA:HB1	3:KF:96:PHE:HE2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GG:107:PHE:CZ	3:JE:19:LEU:HD21	2.42	0.54
3:HD:42:PRO:HD2	3:HD:43:ALA:H	1.69	0.54
3:HJ:24:ARG:NH1	3:II:128:LEU:O	2.40	0.54
3:HN:116:LEU:CD2	3:ID:112:LEU:HD22	2.37	0.54
3:IJ:3:LEU:HD11	3:NE:131:ALA:O	2.08	0.54
3:JD:98:GLN:O	3:JE:42:PRO:HD2	2.07	0.54
3:KJ:125:ILE:HD11	3:LE:109:ARG:HD3	1.90	0.54
3:LN:114:ALA:CB	3:MI:8:LEU:HD12	2.30	0.54
3:MB:61:ASN:ND2	3:MB:96:PHE:O	2.41	0.54
3:MF:27:ASN:OD1	3:MF:29:THR:N	2.40	0.54
3:MH:19:LEU:HD21	3:MH:21:LEU:HD11	1.89	0.54
3:NB:119:PRO:HA	3:NB:122:ILE:CG2	2.37	0.54
3:NC:24:ARG:NH2	3:NF:129:ASN:HA	2.22	0.54
1:A:394:G:H3'	3:DJ:59:ARG:NH2	2.21	0.54
1:A:481:U:H2'	1:A:482:C:O4'	2.07	0.54
1:A:1069:C:OP2	3:ID:59:ARG:NH2	2.35	0.54
1:A:1535:G:H2'	1:A:1536:G:C4	2.42	0.54
1:A:1899:C:O2	1:A:2017:U:N3	2.41	0.54
1:A:2711:U:HO2'	1:A:2712:U:P	2.29	0.54
1:A:3245:U:H2'	1:A:3246:C:C6	2.42	0.54
1:A:4156:A:C5'	1:A:4157:U:OP1	2.56	0.54
3:BA:7:THR:O	3:BA:7:THR:HG23	2.07	0.54
3:BH:99:TYR:O	3:IL:86:ARG:CZ	2.56	0.54
3:BJ:11:ILE:HG22	3:BJ:17:GLN:C	2.28	0.54
3:CD:21:LEU:HD21	3:CD:48:VAL:CG1	2.37	0.54
3:CD:110:THR:CB	3:HA:11:ILE:HD12	2.37	0.54
3:DA:109:ARG:HE	3:DA:110:THR:CG2	2.20	0.54
3:DA:111:GLU:N	3:MM:11:ILE:HD11	2.23	0.54
3:EC:102:ASP:OD1	3:LK:126:ASP:O	2.24	0.54
3:EE:109:ARG:HD2	3:LI:122:ILE:HG22	1.90	0.54
3:EI:52:VAL:CG2	3:GA:130:PRO:HA	2.37	0.54
3:EK:8:LEU:HD11	3:FM:114:ALA:HB3	1.90	0.54
3:EN:79:SER:O	3:EN:80:CYS:HB2	2.07	0.54
3:FG:114:ALA:HB3	3:KG:8:LEU:HD21	1.88	0.54
3:FH:86:ARG:NH2	3:FK:100:SER:HA	2.23	0.54
3:FK:10:ASN:O	3:FK:10:ASN:OD1	2.26	0.54
3:FK:94:PHE:HB3	3:FK:96:PHE:HE2	1.73	0.54
3:GF:130:PRO:HA	3:KD:52:VAL:HG22	1.89	0.54
3:GH:126:ASP:OD2	3:KB:106:ALA:HB2	2.08	0.54
3:GJ:13:LYS:HE2	3:GN:103:GLU:OE1	2.08	0.54
3:HE:91:ASP:OD2	3:HE:93:THR:HG23	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HJ:27:ASN:OD1	3:HJ:29:THR:N	2.36	0.54
3:IG:48:VAL:HG22	3:IG:68:ILE:CD1	2.37	0.54
3:IM:18:THR:C	3:IM:19:LEU:HD22	2.28	0.54
3:IM:48:VAL:HG22	3:IM:68:ILE:HD12	1.89	0.54
3:IN:11:ILE:HG22	3:IN:17:GLN:C	2.28	0.54
3:JF:13:LYS:NZ	3:KA:103:GLU:HA	2.21	0.54
3:KC:102:ASP:O	3:LC:13:LYS:CE	2.56	0.54
3:KC:109:ARG:HD2	3:LC:122:ILE:HG22	1.90	0.54
3:KH:122:ILE:HA	3:KL:109:ARG:HH12	1.72	0.54
3:KJ:52:VAL:HG12	3:KJ:64:VAL:HG13	1.90	0.54
3:LF:44:LEU:O	3:LF:47:ARG:NH2	2.40	0.54
3:MA:102:ASP:OD1	3:MA:103:GLU:N	2.41	0.54
3:MA:131:ALA:O	3:MA:132:TYR:CD1	2.60	0.54
3:ME:48:VAL:HG22	3:ME:68:ILE:CD1	2.37	0.54
1:A:1345:U:HO2'	1:A:1346:G:H8	1.54	0.54
1:A:2448:A:H2'	1:A:2449:U:H6	1.72	0.54
1:A:3570:G:H2'	1:A:3571:U:O4'	2.08	0.54
1:A:3674:U:O4	1:A:3768:G:C2	2.60	0.54
1:A:4119:U:H2'	1:A:4120:A:C8	2.43	0.54
3:D:47:ARG:HD2	3:D:48:VAL:N	2.23	0.54
3:BI:75:THR:O	3:BI:75:THR:HG23	2.07	0.54
3:BK:120:LEU:HD23	3:BK:121:LEU:N	2.22	0.54
3:BL:64:VAL:HG11	3:CG:125:ILE:CD1	2.37	0.54
3:CH:123:ASP:OD2	3:HL:1:ALA:N	2.36	0.54
3:CL:11:ILE:HD11	3:HH:111:GLU:CA	2.37	0.54
3:CL:128:LEU:HD23	3:HH:62:TYR:CD2	2.42	0.54
3:DC:60:LYS:N	3:DC:61:ASN:HB3	2.22	0.54
3:DL:60:LYS:HB2	3:DL:61:ASN:HB2	1.89	0.54
3:EA:34:SER:O	3:EA:35:LEU:HD23	2.08	0.54
3:EM:32:VAL:HG22	3:EM:51:SER:OG	2.07	0.54
3:EM:34:SER:O	3:EM:35:LEU:HD22	2.08	0.54
3:FG:128:LEU:HD22	3:KG:62:TYR:CZ	2.42	0.54
3:FH:103:GLU:HA	3:FK:13:LYS:NZ	2.22	0.54
3:FN:27:ASN:CG	3:FN:29:THR:HG1	2.08	0.54
3:FN:91:ASP:OD1	3:HB:93:THR:HB	2.07	0.54
3:GF:110:THR:CB	3:KD:11:ILE:HD12	2.37	0.54
3:HI:23:PRO:HA	3:HI:35:LEU:HD13	1.90	0.54
3:HL:65:GLN:OE1	3:HL:65:GLN:HA	2.07	0.54
3:HN:18:THR:C	3:HN:19:LEU:HD22	2.28	0.54
3:IG:101:THR:HG23	3:JJ:86:ARG:NH1	2.22	0.54
3:IH:84:VAL:HG23	3:IH:84:VAL:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:86:ARG:HH12	3:NG:100:SER:N	2.04	0.54
3:IM:61:ASN:ND2	3:IM:96:PHE:O	2.41	0.54
3:JB:79:SER:O	3:JB:80:CYS:HB3	2.08	0.54
3:JB:98:GLN:HG2	3:JB:99:TYR:CD2	2.43	0.54
3:JI:128:LEU:HD11	3:LB:105:ARG:CD	2.38	0.54
3:JI:130:PRO:HD2	3:KN:25:GLY:CA	2.37	0.54
3:JI:132:TYR:CA	3:LB:3:LEU:HD23	2.37	0.54
3:KC:56:SER:H	3:KC:59:ARG:HB3	1.71	0.54
3:KC:92:VAL:HG22	3:LC:92:VAL:HG22	1.89	0.54
3:KM:27:ASN:OD1	3:KM:29:THR:N	2.37	0.54
3:LL:18:THR:C	3:LL:19:LEU:HD22	2.27	0.54
3:LL:111:GLU:N	3:MB:11:ILE:HD11	2.22	0.54
3:LL:128:LEU:HD11	3:MB:105:ARG:NE	2.23	0.54
3:MD:27:ASN:OD1	3:MD:29:THR:N	2.41	0.54
3:ME:112:LEU:O	3:ME:116:LEU:HD23	2.07	0.54
3:MJ:60:LYS:N	3:MJ:61:ASN:HB3	2.22	0.54
3:MN:102:ASP:OD1	3:MN:102:ASP:N	2.36	0.54
3:NH:34:SER:C	3:NH:35:LEU:HD22	2.28	0.54
1:A:334:U:OP1	1:A:426:A:O2'	2.22	0.54
1:A:731:A:H2'	1:A:732:C:O4'	2.07	0.54
1:A:1010:C:O2'	3:IH:57:ARG:CZ	2.54	0.54
1:A:1552:A:H2'	1:A:1553:G:C8	2.42	0.54
1:A:2064:C:OP1	3:JH:59:ARG:NE	2.41	0.54
1:A:2163:U:C4	1:A:2164:C:C5	2.96	0.54
1:A:2202:U:O4	1:A:2203:A:N6	2.40	0.54
1:A:3771:G:H5'	3:LH:49:THR:HG23	1.90	0.54
3:CB:99:TYR:HB2	3:HC:86:ARG:HE	1.72	0.54
3:CB:111:GLU:N	3:HC:11:ILE:HD11	2.22	0.54
3:CI:96:PHE:HE2	3:CI:105:ARG:HG2	1.73	0.54
3:CL:48:VAL:HG22	3:CL:68:ILE:CD1	2.38	0.54
3:DG:115:LEU:C	3:DG:121:LEU:HD12	2.28	0.54
3:DG:132:TYR:OXT	3:EL:2:LYS:NZ	2.27	0.54
3:ED:8:LEU:HD11	3:EH:114:ALA:HB3	1.87	0.54
3:ED:21:LEU:HD13	3:ED:48:VAL:HG21	1.89	0.54
3:ED:98:GLN:HG3	3:EE:43:ALA:HB2	1.89	0.54
3:EE:67:LYS:NZ	3:EE:69:GLN:OE1	2.26	0.54
3:EE:105:ARG:NH1	3:LI:128:LEU:CD1	2.70	0.54
3:EI:6:VAL:HG12	3:EI:8:LEU:CD2	2.38	0.54
3:EI:8:LEU:CD1	3:GA:114:ALA:HB1	2.31	0.54
3:FB:24:ARG:CZ	3:LH:129:ASN:OD1	2.56	0.54
3:FB:128:LEU:O	3:LK:24:ARG:NH1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:125:ILE:CD1	3:LF:64:VAL:HG11	2.38	0.54
3:FG:60:LYS:CG	3:FG:98:GLN:HB3	2.38	0.54
3:FH:104:GLU:OE1	3:FH:107:PHE:HE1	1.90	0.54
3:FJ:56:SER:O	3:FJ:59:ARG:O	2.26	0.54
3:GD:102:ASP:OD1	3:GD:103:GLU:N	2.41	0.54
3:GE:102:ASP:OD1	3:GE:103:GLU:N	2.40	0.54
3:GF:127:GLN:HB2	3:GF:129:ASN:OD1	2.08	0.54
3:GG:101:THR:HG23	3:JE:86:ARG:NH2	2.21	0.54
3:GH:97:THR:N	3:GH:100:SER:HG	2.05	0.54
3:GN:18:THR:C	3:GN:19:LEU:HD22	2.27	0.54
3:HB:107:PHE:CE2	3:HB:111:GLU:OE2	2.61	0.54
3:HI:44:LEU:HD11	3:HI:73:ALA:HB2	1.89	0.54
3:IE:6:VAL:HG12	3:IE:8:LEU:HD11	1.90	0.54
3:IE:52:VAL:O	3:IE:52:VAL:HG13	2.08	0.54
3:IF:13:LYS:CE	3:NI:102:ASP:OD2	2.56	0.54
3:IH:52:VAL:HG12	3:NG:130:PRO:HA	1.89	0.54
3:II:60:LYS:H	3:II:61:ASN:HB3	1.73	0.54
3:IN:41:VAL:O	3:IN:45:GLU:OE1	2.25	0.54
3:JK:54:GLN:HB3	3:JK:55:PRO:CD	2.37	0.54
3:JL:103:GLU:HA	3:JL:103:GLU:OE1	2.07	0.54
3:KD:107:PHE:CE2	3:KD:111:GLU:OE2	2.60	0.54
3:KG:21:LEU:HB3	3:KG:35:LEU:HB3	1.90	0.54
3:KK:25:GLY:N	3:MF:129:ASN:OD1	2.40	0.54
3:LG:52:VAL:HG23	3:LG:52:VAL:O	2.08	0.54
3:LG:75:THR:O	3:MH:79:SER:HA	2.08	0.54
3:LG:105:ARG:NE	3:MG:126:ASP:O	2.34	0.54
3:LG:122:ILE:HA	3:MG:109:ARG:CZ	2.37	0.54
3:LM:6:VAL:HG12	3:LM:8:LEU:HD22	1.89	0.54
3:LN:55:PRO:HG3	3:LN:62:TYR:CE1	2.42	0.54
3:MH:52:VAL:O	3:MH:52:VAL:HG13	2.08	0.54
3:ND:81:ASP:OD1	3:ND:81:ASP:N	2.40	0.54
3:NG:7:THR:C	3:NG:8:LEU:HD22	2.28	0.54
1:A:527:A:OP1	3:CI:58:ASN:ND2	2.40	0.54
1:A:531:U:O3'	3:DI:59:ARG:NH2	2.40	0.54
1:A:536:A:H2'	1:A:536:A:OP2	2.08	0.54
1:A:653:C:H2'	1:A:654:U:C1'	2.38	0.54
1:A:1103:U:HO2'	1:A:1104:U:C1'	2.21	0.54
1:A:1312:G:H2'	1:A:1313:U:O4'	2.08	0.54
1:A:2272:U:H2'	1:A:2273:C:C5	2.43	0.54
1:A:2751:A:N6	1:A:2809:G:N7	2.56	0.54
1:A:2916:G:H2'	1:A:2917:C:C6	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3320:G:OP2	1:A:3321:G:N7	2.41	0.54
1:A:3806:C:O3'	1:A:3807:G:O4'	2.26	0.54
1:A:3900:U:H2'	1:A:3901:G:C8	2.43	0.54
1:A:3990:A:N1	1:A:4002:A:N6	2.55	0.54
1:A:4006:A:OP1	3:LB:57:ARG:NE	2.41	0.54
3:BG:125:ILE:HG23	3:BG:126:ASP:N	2.23	0.54
3:CB:1:ALA:N	3:HC:123:ASP:OD1	2.35	0.54
3:CD:74:CYS:SG	3:CD:74:CYS:O	2.66	0.54
3:CK:8:LEU:HD23	3:NC:114:ALA:HB3	1.89	0.54
3:DM:6:VAL:HG12	3:DM:8:LEU:HD22	1.88	0.54
3:DM:26:VAL:HG11	3:EM:132:TYR:CE1	2.41	0.54
3:EC:16:LYS:HE2	3:EC:16:LYS:HA	1.90	0.54
3:ED:37:GLN:OE1	3:ED:39:GLY:N	2.35	0.54
3:FB:60:LYS:HB2	3:FB:61:ASN:CB	2.38	0.54
3:FB:115:LEU:HG	3:LJ:8:LEU:HD11	1.88	0.54
3:FH:60:LYS:N	3:FH:61:ASN:HB3	2.23	0.54
3:FH:114:ALA:HB1	3:FK:8:LEU:HD22	1.90	0.54
3:FI:103:GLU:HB2	3:KE:13:LYS:HZ2	1.73	0.54
3:GJ:24:ARG:HG2	3:GJ:34:SER:HB2	1.90	0.54
3:GM:23:PRO:HA	3:GM:35:LEU:HD13	1.88	0.54
3:IC:128:LEU:HD11	3:JN:105:ARG:CD	2.37	0.54
3:IG:132:TYR:HH	3:KN:132:TYR:HD1	1.55	0.54
3:IK:87:GLN:HG3	3:IK:89:TYR:CE2	2.43	0.54
3:JF:55:PRO:HG3	3:JF:62:TYR:HE1	1.72	0.54
3:JL:6:VAL:HG12	3:JL:8:LEU:CD2	2.38	0.54
3:KC:75:THR:O	3:LD:79:SER:HA	2.07	0.54
3:KH:13:LYS:NZ	3:KL:103:GLU:HA	2.22	0.54
3:LA:14:ASP:OD2	3:LA:16:LYS:NZ	2.34	0.54
3:LA:107:PHE:CE2	3:LA:111:GLU:OE1	2.61	0.54
3:LD:117:ALA:O	3:LD:122:ILE:HD11	2.06	0.54
3:LK:32:VAL:HG23	3:LK:51:SER:HB2	1.90	0.54
3:MH:86:ARG:HB3	3:MH:86:ARG:CZ	2.37	0.54
1:A:220:C:H5'	3:NJ:30:ASN:OD1	2.08	0.54
1:A:268:A:H2'	1:A:269:C:C6	2.43	0.54
1:A:1399:C:H2'	1:A:1400:U:C5	2.43	0.54
1:A:2163:U:H2'	1:A:2164:C:O4'	2.07	0.54
1:A:3088:G:H2'	1:A:3089:C:C6	2.42	0.54
1:A:3094:G:H2'	1:A:3095:U:C6	2.43	0.54
2:M:210:LEU:HD23	2:M:213:LEU:HD23	1.89	0.54
3:BC:3:LEU:HD12	3:BC:3:LEU:C	2.27	0.54
3:BI:13:LYS:HD2	3:BI:13:LYS:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:34:SER:O	3:BI:35:LEU:HD22	2.08	0.54
3:CA:86:ARG:HG3	3:DH:97:THR:HG21	1.89	0.54
3:CB:44:LEU:HD12	3:CB:44:LEU:O	2.08	0.54
3:CD:92:VAL:CG2	3:HA:92:VAL:HG22	2.33	0.54
3:CH:18:THR:O	3:CH:19:LEU:HD23	2.07	0.54
3:CL:109:ARG:NH1	3:HH:122:ILE:HB	2.23	0.54
3:DF:27:ASN:OD1	3:DF:29:THR:N	2.41	0.54
3:DI:58:ASN:O	3:DI:59:ARG:NH2	2.41	0.54
3:ED:114:ALA:HB3	3:EH:8:LEU:HD11	1.90	0.54
3:FE:104:GLU:O	3:FE:108:VAL:HG23	2.07	0.54
3:FJ:97:THR:O	3:FJ:100:SER:OG	2.21	0.54
3:FK:125:ILE:HG23	3:FK:126:ASP:N	2.22	0.54
3:FN:46:LYS:NZ	3:HB:111:GLU:OE2	2.39	0.54
3:GB:56:SER:O	3:GB:59:ARG:O	2.26	0.54
3:GE:97:THR:O	3:GE:100:SER:OG	2.15	0.54
3:GF:26:VAL:HG22	3:GF:33:ALA:HA	1.89	0.54
3:GH:54:GLN:HB2	3:GH:55:PRO:HD2	1.90	0.54
3:GJ:60:LYS:HB2	3:GJ:61:ASN:CB	2.38	0.54
3:HA:3:LEU:HD12	3:HA:23:PRO:HB3	1.89	0.54
3:HB:11:ILE:CG2	3:HB:17:GLN:HB2	2.38	0.54
3:JF:119:PRO:HA	3:JF:122:ILE:HD12	1.88	0.54
3:JK:11:ILE:HD11	3:KN:111:GLU:N	2.23	0.54
3:KC:75:THR:HG22	3:KC:82:PRO:CG	2.37	0.54
3:KI:125:ILE:HG23	3:KI:126:ASP:OD1	2.07	0.54
3:KK:68:ILE:O	3:KK:69:GLN:NE2	2.41	0.54
3:KM:81:ASP:OD1	3:KM:81:ASP:N	2.40	0.54
3:LA:10:ASN:OD1	3:LA:15:GLY:CA	2.56	0.54
3:LA:110:THR:HB	3:MD:11:ILE:HD12	1.88	0.54
3:LH:24:ARG:HA	3:MG:130:PRO:HG2	1.90	0.54
3:LH:101:THR:HG22	3:LH:104:GLU:OE1	2.07	0.54
3:LL:105:ARG:CZ	3:MB:128:LEU:HD11	2.38	0.54
3:MA:72:THR:HB	3:MA:86:ARG:HB2	1.89	0.54
3:MA:130:PRO:HB2	3:MA:132:TYR:CD2	2.43	0.54
1:A:14:A:N1	3:HK:56:SER:HA	2.23	0.54
1:A:1010:C:O2'	3:IH:57:ARG:CD	2.56	0.54
1:A:2425:U:O2	1:A:2891:G:O6	2.25	0.54
1:A:2465:G:H2'	1:A:2466:U:O4'	2.08	0.54
1:A:2924:A:C6	1:A:2925:G:O6	2.61	0.54
1:A:3248:U:O2'	3:MH:69:GLN:OE1	2.26	0.54
1:A:4009:U:O2	1:A:4010:A:N7	2.41	0.54
3:BE:127:GLN:O	3:CF:24:ARG:NH2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BG:13:LYS:NZ	3:IA:103:GLU:CD	2.61	0.54
3:BG:131:ALA:HB1	3:IA:3:LEU:CD2	2.38	0.54
3:CC:80:CYS:HB3	3:HC:74:CYS:HA	1.89	0.54
3:CG:121:LEU:HA	3:CG:124:ALA:HB3	1.89	0.54
3:CI:110:THR:OG1	3:DI:11:ILE:HD12	2.08	0.54
3:CJ:109:ARG:HH22	3:HJ:122:ILE:CG1	2.21	0.54
3:CN:13:LYS:HZ3	3:DD:103:GLU:HG2	1.73	0.54
3:CN:125:ILE:CD1	3:DD:64:VAL:HG11	2.38	0.54
3:DE:114:ALA:HB1	3:EL:8:LEU:HD22	1.89	0.54
3:DG:98:GLN:N	3:EJ:86:ARG:HH22	2.06	0.54
3:DN:11:ILE:HG22	3:DN:17:GLN:C	2.28	0.54
3:DN:18:THR:O	3:DN:19:LEU:HD22	2.07	0.54
3:DN:55:PRO:CB	3:DN:60:LYS:HG3	2.38	0.54
3:DN:68:ILE:CG2	3:DN:90:ALA:HB3	2.38	0.54
3:EA:117:ALA:HA	3:LM:109:ARG:NH2	2.23	0.54
3:FB:115:LEU:HD23	3:LJ:8:LEU:HD11	1.89	0.54
3:FE:122:ILE:HG22	3:KI:109:ARG:HH12	1.69	0.54
3:FK:52:VAL:O	3:FK:52:VAL:HG23	2.07	0.54
3:GE:6:VAL:HG12	3:GE:8:LEU:HD22	1.89	0.54
3:GE:75:THR:O	3:HF:79:SER:HA	2.07	0.54
3:GI:32:VAL:HG12	3:GI:51:SER:CB	2.37	0.54
3:GJ:27:ASN:O	3:GJ:31:GLY:N	2.40	0.54
3:HH:48:VAL:HG22	3:HH:68:ILE:HD12	1.89	0.54
3:IH:14:ASP:OD1	3:IH:16:LYS:N	2.41	0.54
3:IH:125:ILE:CD1	3:NG:64:VAL:HG11	2.38	0.54
3:IJ:125:ILE:HG23	3:IJ:126:ASP:N	2.23	0.54
3:JD:27:ASN:ND2	3:JD:29:THR:HG1	2.06	0.54
3:KA:11:ILE:HG22	3:KA:17:GLN:C	2.28	0.54
3:KH:132:TYR:CE1	3:KL:26:VAL:HG11	2.41	0.54
3:KI:121:LEU:O	3:KI:125:ILE:HG22	2.08	0.54
3:KM:7:THR:HG23	3:KM:7:THR:O	2.08	0.54
3:LA:26:VAL:HG11	3:MD:132:TYR:OH	2.08	0.54
3:LN:55:PRO:HA	3:LN:60:LYS:O	2.07	0.54
3:LN:110:THR:CB	3:MI:11:ILE:HD12	2.38	0.54
3:MC:86:ARG:HE	3:NJ:97:THR:CG2	2.21	0.54
3:NC:79:SER:HA	3:NF:75:THR:O	2.08	0.54
3:NJ:118:SER:O	3:NJ:122:ILE:HG12	2.08	0.54
1:A:1250:U:N3	1:A:1289:G:OP1	2.32	0.53
1:A:1457:A:H62	3:EK:57:ARG:HH22	1.56	0.53
1:A:3791:U:H2'	1:A:3792:U:C6	2.43	0.53
3:BA:114:ALA:HB1	3:MK:8:LEU:HD22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BB:24:ARG:NH1	3:MK:127:GLN:O	2.35	0.53
3:BD:120:LEU:HD11	3:JB:2:LYS:O	2.09	0.53
3:BD:127:GLN:HB2	3:BD:129:ASN:ND2	2.23	0.53
3:BE:26:VAL:HG11	3:CE:132:TYR:OH	2.08	0.53
3:BH:92:VAL:HG22	3:IL:92:VAL:HG22	1.89	0.53
3:BI:131:ALA:HB1	3:HM:3:LEU:CD2	2.37	0.53
3:BL:11:ILE:HD12	3:CG:110:THR:HB	1.89	0.53
3:CA:52:VAL:O	3:CA:52:VAL:HG13	2.08	0.53
3:CC:74:CYS:HA	3:DG:80:CYS:HB3	1.91	0.53
3:CH:62:TYR:CE2	3:HL:128:LEU:HD21	2.43	0.53
3:CL:116:LEU:HD22	3:HH:112:LEU:HD22	1.89	0.53
3:DB:125:ILE:HG23	3:DB:126:ASP:N	2.23	0.53
3:DI:30:ASN:OD1	3:DI:32:VAL:HG23	2.07	0.53
3:EA:103:GLU:HA	3:LM:13:LYS:HZ3	1.73	0.53
3:EB:108:VAL:O	3:EB:111:GLU:HG3	2.08	0.53
3:EF:112:LEU:HD11	3:FA:92:VAL:HG21	1.90	0.53
3:GC:37:GLN:HB3	3:GC:45:GLU:OE1	2.08	0.53
3:GG:49:THR:OG1	3:GG:67:LYS:HB2	2.08	0.53
3:GH:102:ASP:OD1	3:GH:102:ASP:N	2.41	0.53
3:GH:114:ALA:CB	3:KB:8:LEU:HD22	2.38	0.53
3:GL:92:VAL:CG2	3:HG:92:VAL:HG22	2.33	0.53
3:HA:125:ILE:O	3:HA:128:LEU:HD12	2.08	0.53
3:HH:55:PRO:HD3	3:HH:62:TYR:CE2	2.43	0.53
3:IE:128:LEU:HD12	3:IE:128:LEU:N	2.23	0.53
3:IF:122:ILE:HG22	3:NI:109:ARG:NH1	2.23	0.53
3:JA:119:PRO:O	3:JA:122:ILE:HG12	2.07	0.53
3:JE:43:ALA:O	3:JE:44:LEU:HD22	2.08	0.53
3:KC:106:ALA:HB3	3:LC:13:LYS:HD2	1.90	0.53
3:KD:11:ILE:HG22	3:KD:17:GLN:C	2.28	0.53
3:KF:79:SER:O	3:KF:80:CYS:HB3	2.08	0.53
3:KH:59:ARG:O	3:KH:60:LYS:HG2	2.09	0.53
3:LA:32:VAL:O	3:LA:32:VAL:HG13	2.07	0.53
3:LA:48:VAL:HG13	3:LA:68:ILE:CD1	2.38	0.53
3:LF:61:ASN:HA	3:LF:96:PHE:O	2.08	0.53
3:LF:97:THR:O	3:LF:100:SER:OG	2.25	0.53
3:LG:11:ILE:HG23	3:LG:17:GLN:HB2	1.89	0.53
3:LM:11:ILE:HG23	3:LM:17:GLN:HB2	1.89	0.53
3:MC:86:ARG:NH2	3:NJ:100:SER:HA	2.22	0.53
3:MC:131:ALA:HB1	3:NJ:3:LEU:CD2	2.38	0.53
3:ME:43:ALA:C	3:ME:44:LEU:HD12	2.28	0.53
3:NG:13:LYS:CD	3:NG:13:LYS:H	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:38:C:N4	1:A:653:C:H42	2.07	0.53
1:A:1416:C:H42	1:A:1434:A:H61	1.55	0.53
1:A:2443:U:C2	1:A:2659:G:N1	2.76	0.53
1:A:2711:U:O4'	3:DC:57:ARG:NE	2.42	0.53
1:A:3297:A:N6	1:A:3324:A:N1	2.56	0.53
3:BB:125:ILE:CD1	3:MA:109:ARG:HD3	2.36	0.53
3:BC:44:LEU:HD11	3:BC:73:ALA:CB	2.39	0.53
3:BG:121:LEU:O	3:BG:125:ILE:HG22	2.07	0.53
3:BK:34:SER:C	3:BK:35:LEU:HD12	2.28	0.53
3:BL:132:TYR:OH	3:CF:26:VAL:O	2.25	0.53
3:BM:125:ILE:HG23	3:DJ:109:ARG:CZ	2.37	0.53
3:CA:111:GLU:N	3:DH:11:ILE:HD11	2.23	0.53
3:CI:111:GLU:N	3:DI:11:ILE:HD11	2.22	0.53
3:CI:114:ALA:CB	3:DI:8:LEU:HD22	2.38	0.53
3:CJ:102:ASP:OD1	3:CJ:103:GLU:N	2.40	0.53
3:CK:109:ARG:HB2	3:NC:125:ILE:HD11	1.89	0.53
3:DA:99:TYR:OH	3:DB:82:PRO:HG2	2.08	0.53
3:DA:99:TYR:CE2	3:DB:81:ASP:OD2	2.60	0.53
3:DC:97:THR:N	3:DC:100:SER:HG	2.06	0.53
3:DD:121:LEU:HA	3:DD:124:ALA:HB3	1.90	0.53
3:DL:55:PRO:HG3	3:DL:62:TYR:CE1	2.42	0.53
3:EE:105:ARG:HH12	3:LI:128:LEU:HD11	1.73	0.53
3:FA:5:THR:HG23	3:FA:22:ASN:OD1	2.08	0.53
3:FG:86:ARG:NH1	3:KG:104:GLU:OE1	2.41	0.53
3:FL:130:PRO:HA	3:HD:52:VAL:HG12	1.89	0.53
3:GD:56:SER:O	3:GD:59:ARG:O	2.27	0.53
3:GH:62:TYR:CD2	3:KB:128:LEU:HD22	2.43	0.53
3:GI:129:ASN:OD1	3:JA:24:ARG:C	2.47	0.53
3:HF:78:GLY:O	3:HF:79:SER:OG	2.25	0.53
3:IA:24:ARG:NH1	3:ID:127:GLN:O	2.41	0.53
3:IA:48:VAL:HG22	3:IA:68:ILE:CD1	2.38	0.53
3:IE:7:THR:HG23	3:IE:7:THR:O	2.08	0.53
3:IM:111:GLU:O	3:IM:115:LEU:HD23	2.08	0.53
3:KH:132:TYR:CE2	3:KM:25:GLY:CA	2.91	0.53
3:KK:109:ARG:HG2	3:MH:116:LEU:CD1	2.38	0.53
3:KL:43:ALA:C	3:KL:44:LEU:HD22	2.27	0.53
3:KM:111:GLU:CD	3:MF:68:ILE:HD11	2.29	0.53
3:LA:125:ILE:CG2	3:MD:64:VAL:HG11	2.39	0.53
3:LG:109:ARG:HG2	3:MG:116:LEU:HD11	1.89	0.53
3:ML:81:ASP:OD2	3:ML:83:SER:OG	2.26	0.53
3:NB:68:ILE:HD11	3:NF:111:GLU:HG2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NG:55:PRO:HB3	3:NG:60:LYS:HG3	1.89	0.53
1:A:506:C:H2'	1:A:507:U:O4'	2.08	0.53
1:A:1334:C:O2'	1:A:1583:U:H4'	2.09	0.53
1:A:1741:A:H2'	1:A:1742:U:O4'	2.07	0.53
1:A:2916:G:N1	1:A:2927:U:O4	2.42	0.53
1:A:3041:G:H3'	1:A:3041:G:N3	2.23	0.53
1:A:3243:G:OP1	3:KK:59:ARG:NH1	2.40	0.53
1:A:3714:C:O2'	1:A:3715:C:O5'	2.26	0.53
1:A:3926:G:H1'	1:A:4159:A:H61	1.74	0.53
3:BK:75:THR:O	3:HL:79:SER:HA	2.07	0.53
3:CB:92:VAL:HG22	3:HC:92:VAL:HG22	1.90	0.53
3:CC:111:GLU:N	3:DF:11:ILE:HD11	2.22	0.53
3:CE:111:GLU:O	3:CE:115:LEU:HD23	2.09	0.53
3:CF:122:ILE:HA	3:GM:109:ARG:NH1	2.22	0.53
3:CI:11:ILE:HG22	3:CI:17:GLN:C	2.29	0.53
3:CL:8:LEU:HD11	3:HH:115:LEU:CD2	2.38	0.53
3:CL:16:LYS:HE2	3:CL:16:LYS:HA	1.90	0.53
3:DB:11:ILE:HD11	3:DK:111:GLU:N	2.23	0.53
3:DH:15:GLY:O	3:DH:16:LYS:HE2	2.07	0.53
3:DH:37:GLN:O	3:DH:45:GLU:OE2	2.25	0.53
3:DK:115:LEU:C	3:DK:121:LEU:HD12	2.29	0.53
3:EB:26:VAL:HG11	3:MJ:132:TYR:CZ	2.43	0.53
3:EJ:102:ASP:OD1	3:EJ:103:GLU:N	2.40	0.53
3:EK:8:LEU:HD21	3:FM:111:GLU:HA	1.90	0.53
3:FD:12:GLY:N	3:LH:110:THR:HG21	2.22	0.53
3:FE:8:LEU:HD13	3:KI:115:LEU:HD22	1.90	0.53
3:FE:114:ALA:HB2	3:KI:11:ILE:HD11	1.89	0.53
3:FK:20:VAL:O	3:FK:20:VAL:HG23	2.06	0.53
3:FL:132:TYR:OH	3:HC:26:VAL:O	2.27	0.53
3:FN:132:TYR:CE2	3:HC:26:VAL:HG12	2.44	0.53
3:GH:75:THR:O	3:KC:79:SER:HA	2.08	0.53
3:GJ:126:ASP:HA	3:GN:105:ARG:NE	2.23	0.53
3:GK:11:ILE:HG22	3:GK:17:GLN:C	2.29	0.53
3:GK:75:THR:O	3:JB:79:SER:HA	2.08	0.53
3:GN:52:VAL:O	3:GN:52:VAL:HG13	2.07	0.53
3:HA:55:PRO:HB3	3:HA:60:LYS:HB2	1.90	0.53
3:HJ:119:PRO:CA	3:HJ:122:ILE:HD12	2.35	0.53
3:HK:61:ASN:HA	3:HK:96:PHE:O	2.08	0.53
3:HL:37:GLN:CA	3:HL:45:GLU:OE2	2.57	0.53
3:IC:11:ILE:HG23	3:IC:17:GLN:HB2	1.90	0.53
3:IG:105:ARG:HH11	3:JJ:126:ASP:HA	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IG:115:LEU:HD23	3:IG:121:LEU:CD1	2.38	0.53
3:IH:93:THR:HB	3:NG:91:ASP:OD1	2.09	0.53
3:II:11:ILE:HG22	3:II:17:GLN:O	2.08	0.53
3:IJ:17:GLN:N	3:IJ:17:GLN:OE1	2.42	0.53
3:IJ:109:ARG:NE	3:NE:122:ILE:HD12	2.24	0.53
3:IN:18:THR:C	3:IN:19:LEU:HD22	2.29	0.53
3:JK:52:VAL:HG12	3:JK:64:VAL:HG22	1.91	0.53
3:KB:127:GLN:N	3:KB:127:GLN:OE1	2.41	0.53
3:KH:115:LEU:HD12	3:KL:68:ILE:HD11	1.89	0.53
3:KH:131:ALA:HB1	3:KL:3:LEU:HD22	1.90	0.53
3:KJ:3:LEU:HD23	3:LE:132:TYR:N	2.23	0.53
3:KK:125:ILE:HD13	3:MH:64:VAL:HG11	1.91	0.53
3:LH:101:THR:HG22	3:LH:104:GLU:CD	2.28	0.53
3:LN:116:LEU:O	3:MI:109:ARG:CZ	2.57	0.53
3:MB:26:VAL:HG23	3:MB:32:VAL:C	2.29	0.53
3:MC:27:ASN:OD1	3:MC:29:THR:N	2.41	0.53
3:NH:97:THR:O	3:NH:100:SER:OG	2.25	0.53
1:A:177:C:O2	1:A:316:U:H3'	2.08	0.53
1:A:552:A:N1	1:A:653:C:C4	2.76	0.53
1:A:1260:C:N4	1:A:1261:U:O2	2.41	0.53
1:A:1407:C:C2	3:EJ:57:ARG:NH1	2.76	0.53
1:A:3549:C:H2'	1:A:3550:A:C8	2.43	0.53
1:A:4174:U:H2'	1:A:4175:C:O4'	2.09	0.53
3:BA:105:ARG:O	3:BA:108:VAL:HG22	2.08	0.53
3:BA:111:GLU:N	3:MK:11:ILE:HD11	2.23	0.53
3:BM:125:ILE:HG23	3:DJ:109:ARG:NH2	2.22	0.53
3:CJ:103:GLU:OE1	3:HJ:13:LYS:NZ	2.24	0.53
3:CK:11:ILE:HD12	3:NC:110:THR:CB	2.38	0.53
3:DA:79:SER:HA	3:DD:75:THR:O	2.08	0.53
3:DA:103:GLU:HA	3:DA:103:GLU:OE1	2.09	0.53
3:DB:55:PRO:HA	3:DB:60:LYS:O	2.09	0.53
3:DB:112:LEU:HD11	3:DK:92:VAL:HG21	1.90	0.53
3:DG:100:SER:CA	3:EJ:86:ARG:NH1	2.72	0.53
3:DJ:3:LEU:HD21	3:DJ:33:ALA:HB1	1.91	0.53
3:ED:95:SER:HB2	3:EH:89:TYR:HB2	1.90	0.53
3:EF:42:PRO:HA	3:EF:45:GLU:OE1	2.09	0.53
3:EJ:48:VAL:HG22	3:EJ:68:ILE:CD1	2.39	0.53
3:FJ:56:SER:N	3:FJ:59:ARG:HB2	2.24	0.53
3:GD:105:ARG:NE	3:KF:128:LEU:HD11	2.23	0.53
3:GJ:49:THR:OG1	3:GJ:67:LYS:CG	2.56	0.53
3:GJ:110:THR:OG1	3:GN:11:ILE:HD12	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GK:97:THR:O	3:GK:100:SER:OG	2.14	0.53
3:GL:29:THR:OG1	3:GL:30:ASN:N	2.42	0.53
3:HD:3:LEU:HD12	3:HD:35:LEU:HD11	1.89	0.53
3:HD:125:ILE:HG23	3:HD:126:ASP:N	2.24	0.53
3:HE:132:TYR:OH	3:KD:132:TYR:OH	2.24	0.53
3:HK:112:LEU:O	3:HK:116:LEU:HD23	2.08	0.53
3:HM:112:LEU:O	3:HM:116:LEU:HD23	2.08	0.53
3:HN:60:LYS:N	3:HN:61:ASN:HB3	2.23	0.53
3:IB:8:LEU:HD22	3:IK:114:ALA:HB3	1.91	0.53
3:IC:72:THR:HG21	3:IC:86:ARG:NH2	2.23	0.53
3:IC:122:ILE:HA	3:JN:109:ARG:NH1	2.22	0.53
3:IG:104:GLU:O	3:IG:107:PHE:HB3	2.09	0.53
3:JA:59:ARG:CZ	3:JA:63:LYS:HD3	2.38	0.53
3:JE:75:THR:HG23	3:JE:82:PRO:HG3	1.91	0.53
3:JG:125:ILE:HG21	3:LD:109:ARG:HD2	1.91	0.53
3:KB:18:THR:O	3:KB:19:LEU:HD22	2.08	0.53
3:LB:52:VAL:O	3:LB:52:VAL:HG23	2.08	0.53
3:LL:6:VAL:HG12	3:LL:8:LEU:CD1	2.39	0.53
3:LL:105:ARG:NH2	3:MB:128:LEU:CD1	2.71	0.53
3:MA:30:ASN:OD1	3:MA:32:VAL:HG23	2.09	0.53
3:ME:11:ILE:HD11	3:NH:111:GLU:N	2.23	0.53
3:NH:60:LYS:HB2	3:NH:61:ASN:HB3	1.91	0.53
1:A:348:C:C4	1:A:349:G:N7	2.76	0.53
1:A:582:U:HO2'	1:A:583:G:N2	2.05	0.53
1:A:962:U:H2'	1:A:963:U:O4'	2.09	0.53
1:A:1410:A:OP2	3:EK:59:ARG:NH2	2.39	0.53
1:A:2108:C:H2'	1:A:2109:G:O4'	2.09	0.53
1:A:2211:G:H21	1:A:2213:U:P	2.31	0.53
1:A:2520:C:H2'	1:A:2521:C:C6	2.43	0.53
1:A:3255:C:O4'	1:A:3802:A:N3	2.42	0.53
1:A:3302:C:N4	1:A:3303:G:O6	2.42	0.53
1:A:3316:C:H2'	1:A:3317:U:C6	2.43	0.53
1:A:3769:U:O2	3:LH:65:GLN:NE2	2.41	0.53
3:BD:11:ILE:HD12	3:JB:110:THR:CB	2.38	0.53
3:BJ:100:SER:HA	3:BN:86:ARG:NH1	2.24	0.53
3:BL:129:ASN:ND2	3:CE:24:ARG:HA	2.23	0.53
3:CB:131:ALA:O	3:CB:132:TYR:HD1	1.90	0.53
3:CC:26:VAL:O	3:CC:26:VAL:HG13	2.09	0.53
3:CC:110:THR:CB	3:DF:11:ILE:HD12	2.38	0.53
3:CD:125:ILE:O	3:CD:128:LEU:HD12	2.08	0.53
3:CN:125:ILE:HB	3:DD:109:ARG:HH11	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CN:125:ILE:O	3:CN:128:LEU:HD12	2.09	0.53
3:DE:92:VAL:CG2	3:EL:112:LEU:HD21	2.38	0.53
3:DH:11:ILE:HG22	3:DH:17:GLN:C	2.28	0.53
3:DL:114:ALA:CB	3:MN:8:LEU:HD22	2.39	0.53
3:EA:92:VAL:CG2	3:LM:92:VAL:HG22	2.35	0.53
3:EF:103:GLU:HA	3:FA:13:LYS:CE	2.38	0.53
3:FF:11:ILE:HG22	3:FF:17:GLN:C	2.29	0.53
3:GD:41:VAL:O	3:GD:44:LEU:HG	2.09	0.53
3:GD:60:LYS:HB2	3:GD:61:ASN:CB	2.39	0.53
3:GD:115:LEU:HD21	3:KF:8:LEU:HD11	1.90	0.53
3:GI:127:GLN:N	3:GI:127:GLN:OE1	2.42	0.53
3:GM:32:VAL:HG13	3:GM:51:SER:OG	2.08	0.53
3:HB:44:LEU:HD13	3:HD:98:GLN:NE2	2.24	0.53
3:HD:4:GLU:O	3:HD:6:VAL:HG23	2.07	0.53
3:HI:8:LEU:HD11	3:HI:11:ILE:HD13	1.90	0.53
3:IE:55:PRO:HB3	3:IE:60:LYS:HD2	1.88	0.53
3:IF:62:TYR:CD2	3:NI:128:LEU:CD2	2.90	0.53
3:IF:110:THR:CB	3:NI:11:ILE:HD12	2.38	0.53
3:IH:118:SER:O	3:IH:122:ILE:HG12	2.08	0.53
3:JG:125:ILE:HG23	3:JG:126:ASP:N	2.22	0.53
3:JI:41:VAL:O	3:JI:45:GLU:OE1	2.25	0.53
3:JK:8:LEU:HD12	3:KN:114:ALA:HB3	1.90	0.53
3:KC:101:THR:HB	3:KC:103:GLU:OE1	2.09	0.53
3:KE:60:LYS:N	3:KE:61:ASN:HB3	2.23	0.53
3:LJ:50:VAL:HG13	3:LJ:66:VAL:HG22	1.89	0.53
3:LK:7:THR:O	3:LK:8:LEU:HD22	2.08	0.53
3:MC:14:ASP:OD2	3:MC:16:LYS:NZ	2.40	0.53
3:ML:24:ARG:NH2	3:ML:45:GLU:OE2	2.42	0.53
3:ML:60:LYS:HG2	3:ML:98:GLN:HG3	1.89	0.53
3:ND:69:GLN:NE2	3:ND:89:TYR:CE2	2.71	0.53
1:A:140:A:H2'	1:A:141:C:O4'	2.08	0.53
1:A:1128:A:C2'	1:A:1129:U:O4'	2.56	0.53
1:A:2469:G:O2'	1:A:2470:C:O5'	2.17	0.53
1:A:3336:U:H2'	1:A:3338:C:H41	1.74	0.53
1:A:3821:C:OP1	3:FE:67:LYS:NZ	2.41	0.53
3:BB:91:ASP:OD1	3:BB:91:ASP:O	2.27	0.53
3:BI:79:SER:OG	3:BI:81:ASP:OD1	2.26	0.53
3:BK:114:ALA:HB1	3:HK:8:LEU:HD22	1.91	0.53
3:CB:6:VAL:HG12	3:CB:8:LEU:CD2	2.39	0.53
3:CB:24:ARG:HB2	3:CB:34:SER:OG	2.08	0.53
3:CC:44:LEU:CD1	3:CC:82:PRO:HG2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:122:ILE:HA	3:DF:109:ARG:CZ	2.39	0.53
3:CF:106:ALA:O	3:CF:110:THR:HG22	2.08	0.53
3:CH:122:ILE:HG22	3:HL:109:ARG:NH1	2.23	0.53
3:CI:11:ILE:HD11	3:DI:111:GLU:N	2.22	0.53
3:CJ:110:THR:HB	3:HJ:11:ILE:HD12	1.90	0.53
3:CJ:129:ASN:OD1	3:HH:25:GLY:N	2.42	0.53
3:DA:99:TYR:OH	3:DB:82:PRO:CG	2.57	0.53
3:DB:3:LEU:HD11	3:DB:35:LEU:HD11	1.91	0.53
3:DC:41:VAL:O	3:DC:44:LEU:N	2.37	0.53
3:DC:132:TYR:CZ	3:EN:26:VAL:HG11	2.44	0.53
3:DE:56:SER:H	3:DE:60:LYS:HA	1.73	0.53
3:DE:115:LEU:HD22	3:EL:8:LEU:HD13	1.88	0.53
3:DF:6:VAL:HG12	3:DF:8:LEU:HD21	1.91	0.53
3:DL:125:ILE:HG23	3:DL:126:ASP:N	2.24	0.53
3:DM:99:TYR:N	3:EM:86:ARG:NH2	2.57	0.53
3:EB:59:ARG:NE	3:EB:63:LYS:HE2	2.24	0.53
3:EE:111:GLU:CD	3:LI:68:ILE:HD13	2.28	0.53
3:EF:101:THR:HG23	3:EF:103:GLU:HB3	1.91	0.53
3:EI:92:VAL:CG2	3:GA:112:LEU:HD21	2.37	0.53
3:FB:59:ARG:HA	3:FB:59:ARG:NE	2.24	0.53
3:FH:102:ASP:OD1	3:FH:102:ASP:N	2.39	0.53
3:GH:97:THR:N	3:GH:100:SER:OG	2.41	0.53
3:GK:101:THR:CG2	3:JA:86:ARG:HH22	2.15	0.53
3:HB:131:ALA:O	3:HB:132:TYR:CD1	2.61	0.53
3:HJ:18:THR:O	3:HJ:19:LEU:HD23	2.09	0.53
3:II:6:VAL:HG12	3:II:8:LEU:CD2	2.38	0.53
3:II:60:LYS:HB2	3:II:61:ASN:CB	2.37	0.53
3:II:81:ASP:OD1	3:IK:99:TYR:CG	2.62	0.53
3:IK:18:THR:C	3:IK:19:LEU:HD22	2.29	0.53
3:JI:52:VAL:O	3:JI:52:VAL:HG23	2.08	0.53
3:JI:102:ASP:OD1	3:JI:103:GLU:N	2.42	0.53
3:JN:106:ALA:HA	3:JN:109:ARG:CD	2.39	0.53
3:LF:26:VAL:HG22	3:LF:33:ALA:HB2	1.91	0.53
3:LI:98:GLN:HG3	3:LJ:43:ALA:HB2	1.90	0.53
3:LJ:50:VAL:HG22	3:LJ:66:VAL:HG13	1.89	0.53
3:LN:64:VAL:HG11	3:MI:125:ILE:HD11	1.90	0.53
3:MA:34:SER:C	3:MA:35:LEU:HD12	2.29	0.53
3:MI:37:GLN:NE2	3:MI:38:ALA:O	2.41	0.53
3:NI:11:ILE:HG23	3:NI:17:GLN:HB2	1.91	0.53
1:A:1225:A:H2'	1:A:1226:A:C8	2.43	0.53
1:A:2457:G:N7	1:A:2458:A:N6	2.50	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2906:G:H2'	1:A:2907:U:C6	2.43	0.53
1:A:3349:C:OP2	3:MD:59:ARG:NH2	2.42	0.53
1:A:3538:C:C2	1:A:3539:G:C8	2.97	0.53
2:M:136:THR:OG1	2:M:137:GLN:OE1	2.26	0.53
3:BA:86:ARG:NH1	3:MK:100:SER:HA	2.24	0.53
3:BA:99:TYR:O	3:MK:86:ARG:NH2	2.42	0.53
3:BF:80:CYS:SG	3:CE:85:THR:HG21	2.49	0.53
3:BH:62:TYR:HB3	3:IL:128:LEU:CD2	2.38	0.53
3:CA:110:THR:CB	3:DH:11:ILE:HD12	2.39	0.53
3:CB:128:LEU:CD2	3:HC:62:TYR:HD2	2.22	0.53
3:CI:102:ASP:HB2	3:DI:126:ASP:OD1	2.08	0.53
3:CJ:3:LEU:CD1	3:CJ:35:LEU:HD11	2.38	0.53
3:CL:110:THR:HB	3:HH:11:ILE:HD12	1.89	0.53
3:DG:109:ARG:HD2	3:EJ:122:ILE:HD12	1.90	0.53
3:EE:62:TYR:CD2	3:LI:128:LEU:HD23	2.44	0.53
3:EF:97:THR:HG21	3:FA:86:ARG:CG	2.39	0.53
3:EG:58:ASN:OD1	3:EG:59:ARG:N	2.42	0.53
3:EI:121:LEU:HD21	3:GA:66:VAL:HG21	1.91	0.53
3:EK:125:ILE:HG12	3:FM:109:ARG:NH2	2.23	0.53
3:EL:55:PRO:HG3	3:EL:62:TYR:HE1	1.73	0.53
3:FE:60:LYS:HB2	3:FE:61:ASN:HB2	1.91	0.53
3:FG:111:GLU:N	3:KG:11:ILE:HD11	2.23	0.53
3:FI:61:ASN:OD1	3:FI:95:SER:OG	2.22	0.53
3:FL:115:LEU:HD12	3:HD:68:ILE:HD11	1.91	0.53
3:GH:26:VAL:O	3:JC:132:TYR:OH	2.26	0.53
3:GJ:4:GLU:OE1	3:GJ:5:THR:N	2.41	0.53
3:GK:96:PHE:CZ	3:GK:105:ARG:HG3	2.43	0.53
3:HC:98:GLN:O	3:HD:42:PRO:HD2	2.09	0.53
3:HN:41:VAL:O	3:HN:44:LEU:HG	2.09	0.53
3:IJ:98:GLN:OE1	3:IK:43:ALA:HB2	2.09	0.53
3:IM:79:SER:O	3:IM:80:CYS:CB	2.57	0.53
3:JA:41:VAL:O	3:JA:44:LEU:HG	2.07	0.53
3:JF:56:SER:OG	3:JF:61:ASN:ND2	2.42	0.53
3:JF:110:THR:CB	3:KA:11:ILE:HD12	2.39	0.53
3:JG:19:LEU:HD11	3:LD:107:PHE:CE1	2.43	0.53
3:JH:18:THR:C	3:JH:19:LEU:HD22	2.29	0.53
3:JH:81:ASP:N	3:JH:81:ASP:OD1	2.41	0.53
3:MA:127:GLN:C	3:MA:128:LEU:HD12	2.28	0.53
3:ME:62:TYR:CD2	3:NH:128:LEU:HD23	2.44	0.53
3:MF:55:PRO:HG3	3:MF:62:TYR:CE2	2.43	0.53
3:MG:91:ASP:OD1	3:MG:92:VAL:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MN:48:VAL:HG22	3:MN:68:ILE:CD1	2.38	0.53
3:NB:19:LEU:HD21	3:NB:21:LEU:HD21	1.91	0.53
3:NF:87:GLN:N	3:NF:87:GLN:OE1	2.41	0.53
1:A:191:G:H3'	3:NB:57:ARG:HH21	1.74	0.53
1:A:234:C:H2'	1:A:235:G:C8	2.44	0.53
1:A:326:C:H2'	1:A:327:A:C8	2.44	0.53
1:A:1398:A:H2'	1:A:1399:C:O4'	2.08	0.53
1:A:1743:U:N3	1:A:1744:G:N7	2.57	0.53
1:A:1779:A:O2'	1:A:1780:A:OP2	2.26	0.53
1:A:2073:G:H2'	1:A:2074:A:O4'	2.09	0.53
1:A:2250:G:C2	1:A:2251:G:C8	2.97	0.53
1:A:2306:A:H2'	1:A:2307:G:C8	2.44	0.53
1:A:2630:G:C6	1:A:2631:G:N7	2.77	0.53
1:A:2649:G:H4'	3:EH:58:ASN:ND2	2.23	0.53
1:A:2923:G:H2'	1:A:2924:A:O4'	2.09	0.53
1:A:3092:G:HO2'	1:A:3093:G:C5'	2.22	0.53
1:A:3557:U:HO2'	1:A:3558:U:P	2.31	0.53
1:A:4072:C:H2'	1:A:4073:C:O4'	2.09	0.53
3:BI:125:ILE:H	3:HM:109:ARG:HH22	1.55	0.53
3:CB:122:ILE:HG23	3:HC:109:ARG:NH2	2.24	0.53
3:CH:62:TYR:CG	3:HL:128:LEU:HD21	2.44	0.53
3:CM:92:VAL:HG21	3:NA:112:LEU:HD11	1.90	0.53
3:DA:53:SER:OG	3:DA:63:LYS:HG2	2.08	0.53
3:DF:91:ASP:OD1	3:DF:92:VAL:N	2.41	0.53
3:DG:11:ILE:CG2	3:DG:17:GLN:HB2	2.39	0.53
3:DK:11:ILE:CG2	3:DK:17:GLN:HB2	2.39	0.53
3:DL:112:LEU:HD11	3:MN:92:VAL:CG2	2.39	0.53
3:DL:122:ILE:CD1	3:MN:109:ARG:CZ	2.83	0.53
3:DM:107:PHE:O	3:DM:111:GLU:OE1	2.26	0.53
3:EB:54:GLN:HG2	3:EB:55:PRO:HD2	1.91	0.53
3:EI:119:PRO:HA	3:EI:122:ILE:HB	1.91	0.53
3:EM:6:VAL:HG12	3:EM:8:LEU:CD2	2.38	0.53
3:EM:22:ASN:OD1	3:EM:23:PRO:CD	2.55	0.53
3:FI:109:ARG:HH21	3:KE:125:ILE:HG22	1.73	0.53
3:FK:13:LYS:HD3	3:FK:13:LYS:N	2.22	0.53
3:GC:96:PHE:HE2	3:GC:105:ARG:CZ	2.21	0.53
3:GF:42:PRO:HD2	3:GF:43:ALA:N	2.23	0.53
3:GH:24:ARG:NE	3:GH:24:ARG:C	2.61	0.53
3:GK:103:GLU:HA	3:JA:13:LYS:NZ	2.24	0.53
3:GM:49:THR:OG1	3:GM:67:LYS:HB2	2.09	0.53
3:HF:122:ILE:O	3:HF:126:ASP:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HG:7:THR:C	3:HG:8:LEU:HD22	2.30	0.53
3:HL:118:SER:O	3:HL:122:ILE:HG12	2.09	0.53
3:HM:6:VAL:HG12	3:HM:8:LEU:HD21	1.89	0.53
3:HN:131:ALA:O	3:HN:132:TYR:HD1	1.92	0.53
3:IJ:55:PRO:CD	3:IJ:62:TYR:CE2	2.92	0.53
3:IM:11:ILE:HD12	3:JM:110:THR:CB	2.39	0.53
3:IM:64:VAL:HG11	3:JM:125:ILE:HD13	1.91	0.53
3:JA:30:ASN:OD1	3:JA:32:VAL:HG23	2.09	0.53
3:JC:87:GLN:N	3:JC:87:GLN:OE1	2.42	0.53
3:JH:79:SER:O	3:JH:80:CYS:HB3	2.09	0.53
3:JK:6:VAL:HG12	3:JK:8:LEU:CD2	2.38	0.53
3:KD:16:LYS:HA	3:KD:16:LYS:HE2	1.89	0.53
3:LB:14:ASP:OD1	3:LB:16:LYS:N	2.42	0.53
3:LG:119:PRO:HA	3:LG:122:ILE:HD12	1.89	0.53
3:LL:109:ARG:CZ	3:MB:122:ILE:HA	2.38	0.53
3:LM:41:VAL:O	3:LM:41:VAL:HG13	2.08	0.53
3:MB:102:ASP:OD1	3:MB:103:GLU:N	2.41	0.53
3:ME:101:THR:N	3:ME:104:GLU:OE1	2.41	0.53
3:MF:109:ARG:HG3	3:MF:110:THR:N	2.22	0.53
1:A:291:C:O2'	1:A:292:C:P	2.67	0.53
1:A:1130:C:C4	1:A:1152:A:N1	2.77	0.53
1:A:1397:A:H61	1:A:1545:A:H61	1.57	0.53
1:A:1439:C:H2'	1:A:1440:G:C8	2.44	0.53
1:A:1487:U:O2	3:BN:59:ARG:NH2	2.42	0.53
1:A:2242:C:P	3:FJ:59:ARG:HH22	2.32	0.53
1:A:2243:A:H2'	1:A:2244:U:C6	2.43	0.53
1:A:3120:A:H2'	1:A:3121:A:O4'	2.09	0.53
1:A:3128:C:H2'	1:A:3129:C:C6	2.44	0.53
1:A:3754:G:H2'	1:A:3755:U:C6	2.44	0.53
1:A:3768:G:H1'	1:A:3769:U:OP2	2.09	0.53
3:BJ:110:THR:CB	3:BN:11:ILE:HD12	2.38	0.53
3:BM:25:GLY:N	3:DH:129:ASN:OD1	2.42	0.53
3:CC:109:ARG:NE	3:DF:122:ILE:HD12	2.24	0.53
3:CF:86:ARG:CZ	3:GM:99:TYR:O	2.57	0.53
3:CK:121:LEU:O	3:CK:125:ILE:HG22	2.09	0.53
3:DB:111:GLU:CA	3:DK:11:ILE:HD11	2.39	0.53
3:EC:107:PHE:O	3:EC:111:GLU:OE1	2.27	0.53
3:EI:92:VAL:HG22	3:GA:92:VAL:HG22	1.90	0.53
3:FE:128:LEU:HD11	3:KI:105:ARG:CD	2.39	0.53
3:FI:112:LEU:O	3:FI:116:LEU:HD23	2.09	0.53
3:FJ:106:ALA:HA	3:FJ:109:ARG:NH1	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FJ:109:ARG:HH21	3:HF:125:ILE:HG13	1.73	0.53
3:FK:22:ASN:O	3:FK:35:LEU:HD23	2.08	0.53
3:GD:128:LEU:HD23	3:KF:62:TYR:CD2	2.44	0.53
3:GN:55:PRO:HD3	3:GN:62:TYR:CE2	2.43	0.53
3:HD:103:GLU:HG3	3:HD:104:GLU:N	2.24	0.53
3:HI:106:ALA:CB	3:II:13:LYS:HZ2	2.16	0.53
3:II:102:ASP:OD1	3:II:103:GLU:N	2.42	0.53
3:JA:34:SER:C	3:JA:35:LEU:HD12	2.29	0.53
3:JE:117:ALA:O	3:JE:122:ILE:HD11	2.09	0.53
3:JG:11:ILE:HD11	3:LD:111:GLU:N	2.24	0.53
3:JM:7:THR:O	3:JM:7:THR:HG23	2.08	0.53
3:KC:64:VAL:HG11	3:LC:125:ILE:CD1	2.39	0.53
3:KC:77:ASN:ND2	3:LD:77:ASN:O	2.42	0.53
3:KC:106:ALA:HB2	3:LC:126:ASP:OD1	2.08	0.53
3:KJ:41:VAL:O	3:KJ:45:GLU:OE1	2.26	0.53
3:KL:79:SER:O	3:KL:80:CYS:HB3	2.09	0.53
3:KM:132:TYR:OH	3:ME:26:VAL:HG23	2.08	0.53
3:LD:37:GLN:C	3:LD:45:GLU:OE2	2.47	0.53
3:LD:55:PRO:HD3	3:LD:62:TYR:CD2	2.43	0.53
3:LG:61:ASN:OD1	3:LG:96:PHE:O	2.25	0.53
3:LL:101:THR:C	3:LL:105:ARG:HD3	2.29	0.53
3:MA:27:ASN:OD1	3:MA:29:THR:N	2.42	0.53
3:ME:107:PHE:CZ	3:NH:19:LEU:HD11	2.44	0.53
3:MH:58:ASN:O	3:MH:59:ARG:NH1	2.39	0.53
3:MN:49:THR:OG1	3:MN:67:LYS:HB2	2.09	0.53
3:NC:59:ARG:HH11	3:NC:59:ARG:HG2	1.74	0.53
3:NH:102:ASP:OD1	3:NH:102:ASP:N	2.41	0.53
1:A:904:G:H2'	1:A:905:A:C8	2.44	0.53
1:A:998:G:H2'	1:A:999:G:O4'	2.09	0.53
1:A:1464:G:H2'	1:A:1465:C:C6	2.44	0.53
1:A:3722:G:N2	1:A:3723:C:N4	2.57	0.53
3:BB:76:ALA:HA	3:MB:79:SER:HA	1.91	0.53
3:BB:86:ARG:CZ	3:MA:99:TYR:O	2.57	0.53
3:BF:99:TYR:C	3:IN:86:ARG:HH12	2.12	0.53
3:BI:62:TYR:HD2	3:HM:128:LEU:HD23	1.73	0.53
3:CC:118:SER:O	3:CC:122:ILE:HG13	2.09	0.53
3:CE:16:LYS:O	3:CE:16:LYS:HD3	2.09	0.53
3:CJ:3:LEU:HD11	3:CJ:35:LEU:HD11	1.90	0.53
3:CL:75:THR:HG23	3:CL:82:PRO:HG3	1.89	0.53
3:CN:128:LEU:CD2	3:DD:62:TYR:CD2	2.92	0.53
3:DA:109:ARG:HH12	3:MM:122:ILE:HA	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DG:109:ARG:HB3	3:EJ:125:ILE:HD11	1.90	0.53
3:DN:111:GLU:O	3:DN:115:LEU:HD23	2.09	0.53
3:EA:117:ALA:O	3:EA:122:ILE:HD11	2.08	0.53
3:EB:65:GLN:N	3:EB:65:GLN:OE1	2.42	0.53
3:EC:34:SER:C	3:EC:35:LEU:HD12	2.29	0.53
3:FB:99:TYR:OH	3:FC:81:ASP:O	2.27	0.53
3:FE:8:LEU:CD2	3:KI:111:GLU:HG3	2.40	0.53
3:FI:74:CYS:HA	3:KF:80:CYS:HB3	1.91	0.53
3:GJ:26:VAL:HG12	3:GJ:33:ALA:CA	2.38	0.53
3:GJ:121:LEU:HD22	3:GN:66:VAL:HG21	1.90	0.53
3:HG:65:GLN:OE1	3:HG:66:VAL:N	2.41	0.53
3:HM:18:THR:C	3:HM:19:LEU:HD22	2.30	0.53
3:IB:128:LEU:CD2	3:IK:62:TYR:CD2	2.92	0.53
3:IC:3:LEU:HD21	3:JN:131:ALA:HB1	1.91	0.53
3:IE:52:VAL:HG23	3:IE:64:VAL:HG22	1.91	0.53
3:IG:105:ARG:HE	3:JJ:128:LEU:HD11	1.74	0.53
3:JA:120:LEU:HD23	3:JA:121:LEU:HD23	1.89	0.53
3:JD:125:ILE:HG23	3:JD:126:ASP:N	2.24	0.53
3:JK:100:SER:OG	3:JK:105:ARG:NH1	2.33	0.53
3:KH:105:ARG:CD	3:KL:128:LEU:HD11	2.40	0.53
3:KJ:70:ASN:ND2	3:LE:108:VAL:HG12	2.24	0.53
3:KJ:105:ARG:HD3	3:LE:128:LEU:HD11	1.89	0.53
3:KK:105:ARG:CD	3:MH:128:LEU:HD11	2.39	0.53
3:LA:126:ASP:O	3:MD:105:ARG:CZ	2.57	0.53
3:LH:62:TYR:CE2	3:LH:98:GLN:OE1	2.62	0.53
3:LM:79:SER:HA	3:MB:75:THR:O	2.09	0.53
3:LM:109:ARG:HH11	3:LM:110:THR:HG22	1.73	0.53
3:MA:103:GLU:N	3:MA:103:GLU:OE1	2.36	0.53
3:MH:26:VAL:HG23	3:MH:32:VAL:C	2.29	0.53
3:NJ:46:LYS:HE2	3:NJ:70:ASN:HD22	1.73	0.53
1:A:995:C:N4	1:A:1015:A:N7	2.55	0.52
1:A:1295:U:C4	3:BK:57:ARG:NH1	2.77	0.52
1:A:1384:A:H2'	1:A:1385:A:O4'	2.09	0.52
1:A:1708:U:H2'	1:A:1709:G:C8	2.44	0.52
1:A:1866:G:H2'	1:A:1867:A:C8	2.44	0.52
1:A:2051:U:O2'	1:A:2053:A:C2	2.61	0.52
1:A:2090:U:H2'	1:A:2091:C:O4'	2.09	0.52
2:M:268:GLU:N	2:M:268:GLU:OE1	2.42	0.52
3:BK:24:ARG:CZ	3:BN:129:ASN:OD1	2.57	0.52
3:CA:93:THR:HB	3:DH:91:ASP:OD2	2.09	0.52
3:CA:132:TYR:CD2	3:DF:26:VAL:CG2	2.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:121:LEU:HD23	3:HL:66:VAL:HG21	1.90	0.52
3:CJ:8:LEU:CD1	3:HJ:114:ALA:HB1	2.30	0.52
3:DC:4:GLU:OE1	3:DC:5:THR:N	2.42	0.52
3:DE:92:VAL:HG21	3:EL:112:LEU:HD21	1.90	0.52
3:DG:19:LEU:HD21	3:EJ:107:PHE:CE1	2.44	0.52
3:DM:13:LYS:HZ2	3:EM:103:GLU:HA	1.74	0.52
3:EG:128:LEU:HD22	3:GC:62:TYR:CD2	2.45	0.52
3:EH:111:GLU:O	3:EH:115:LEU:HD23	2.09	0.52
3:EJ:14:ASP:OD2	3:EJ:16:LYS:N	2.42	0.52
3:EJ:41:VAL:O	3:EJ:44:LEU:HG	2.09	0.52
3:EK:54:GLN:HB2	3:EK:55:PRO:HD2	1.91	0.52
3:EM:62:TYR:OH	3:EN:42:PRO:HB2	2.09	0.52
3:FB:3:LEU:HD21	3:FB:33:ALA:HB1	1.90	0.52
3:FK:24:ARG:HB3	3:FK:34:SER:O	2.09	0.52
3:FL:132:TYR:CE1	3:HC:28:PRO:HB3	2.44	0.52
3:GG:13:LYS:CE	3:JE:102:ASP:O	2.57	0.52
3:GI:105:ARG:CD	3:JC:128:LEU:HD11	2.39	0.52
3:HA:52:VAL:O	3:HA:52:VAL:HG13	2.09	0.52
3:HB:58:ASN:OD1	3:HB:59:ARG:NE	2.42	0.52
3:HN:69:GLN:OE1	3:HN:89:TYR:HB2	2.09	0.52
3:IB:64:VAL:HG11	3:IK:125:ILE:HD11	1.91	0.52
3:IG:103:GLU:HA	3:JJ:13:LYS:NZ	2.24	0.52
3:IG:118:SER:O	3:IG:122:ILE:HG12	2.10	0.52
3:II:94:PHE:HB3	3:II:96:PHE:CE1	2.44	0.52
3:IL:58:ASN:O	3:IL:60:LYS:NZ	2.41	0.52
3:JC:107:PHE:O	3:JC:111:GLU:HG2	2.09	0.52
3:JC:120:LEU:O	3:JC:123:ASP:OD1	2.26	0.52
3:KJ:52:VAL:O	3:KJ:52:VAL:HG23	2.06	0.52
3:LE:101:THR:CG2	3:LE:104:GLU:OE1	2.57	0.52
3:MF:65:GLN:HG2	3:MF:93:THR:HG23	1.90	0.52
3:MF:121:LEU:O	3:MF:125:ILE:HG22	2.08	0.52
3:MG:8:LEU:O	3:MG:18:THR:HG23	2.09	0.52
3:MN:79:SER:O	3:MN:80:CYS:HB3	2.09	0.52
3:NI:7:THR:O	3:NI:7:THR:HG23	2.09	0.52
1:A:495:C:C4’	3:BK:59:ARG:NH1	2.73	0.52
1:A:1220:C:H3’	1:A:1221:G:H5”	1.91	0.52
1:A:2628:U:H3’	1:A:2629:G:H5”	1.92	0.52
1:A:2923:G:OP1	3:FN:67:LYS:NZ	2.41	0.52
1:A:3092:G:O2’	1:A:3093:G:O5’	2.26	0.52
1:A:3151:C:H2’	1:A:3152:U:O4’	2.09	0.52
1:A:3630:A:H2’	1:A:3631:A:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3809:G:H5'	3:KH:59:ARG:H	1.74	0.52
1:A:4050:U:N3	1:A:4051:G:N7	2.57	0.52
3:BD:93:THR:HG1	3:JB:91:ASP:CG	2.08	0.52
3:BD:99:TYR:OH	3:BE:84:VAL:HG22	2.09	0.52
3:BJ:11:ILE:HG22	3:BJ:17:GLN:O	2.08	0.52
3:BL:55:PRO:HA	3:BL:60:LYS:O	2.09	0.52
3:BM:8:LEU:HD22	3:DJ:114:ALA:HB1	1.92	0.52
3:CB:103:GLU:HA	3:HC:13:LYS:NZ	2.24	0.52
3:CJ:25:GLY:HA2	3:DI:132:TYR:CE2	2.45	0.52
3:CM:115:LEU:HD12	3:NA:8:LEU:CD2	2.40	0.52
3:DE:128:LEU:CD2	3:EL:62:TYR:CD2	2.93	0.52
3:EE:21:LEU:CD1	3:EE:48:VAL:HG21	2.39	0.52
3:EI:109:ARG:NH2	3:GA:125:ILE:HG23	2.18	0.52
3:EI:122:ILE:HA	3:GA:109:ARG:NH1	2.24	0.52
3:FG:19:LEU:HD23	3:FG:37:GLN:NE2	2.24	0.52
3:FI:95:SER:O	3:FI:96:PHE:CD1	2.62	0.52
3:FN:17:GLN:N	3:FN:17:GLN:OE1	2.43	0.52
3:GF:110:THR:HB	3:KD:11:ILE:HD12	1.90	0.52
3:GG:11:ILE:HD11	3:JE:111:GLU:N	2.24	0.52
3:GH:1:ALA:HB2	3:KB:123:ASP:OD2	2.09	0.52
3:GH:19:LEU:CD1	3:KB:111:GLU:OE1	2.58	0.52
3:GK:34:SER:O	3:GK:35:LEU:HD22	2.09	0.52
3:HJ:123:ASP:OD1	3:HJ:129:ASN:CB	2.57	0.52
3:HN:60:LYS:HB2	3:HN:61:ASN:CB	2.39	0.52
3:IF:100:SER:OG	3:NI:86:ARG:NH2	2.41	0.52
3:IG:125:ILE:HG22	3:JJ:64:VAL:HG11	1.90	0.52
3:II:44:LEU:HD22	3:IK:98:GLN:O	2.09	0.52
3:II:54:GLN:O	3:II:59:ARG:NH1	2.31	0.52
3:JD:111:GLU:N	3:JH:11:ILE:HD11	2.24	0.52
3:JI:125:ILE:HG23	3:JI:126:ASP:N	2.24	0.52
3:KE:52:VAL:HG12	3:KE:54:GLN:NE2	2.25	0.52
3:KM:99:TYR:C	3:MF:86:ARG:NH2	2.63	0.52
3:LG:86:ARG:NH1	3:MG:100:SER:CA	2.71	0.52
3:LL:60:LYS:N	3:LL:61:ASN:HB3	2.24	0.52
3:LL:62:TYR:CD2	3:MB:128:LEU:HD23	2.45	0.52
3:LN:109:ARG:NH2	3:MI:122:ILE:HD13	2.25	0.52
3:MF:106:ALA:O	3:MF:109:ARG:HG2	2.09	0.52
3:MH:55:PRO:HD3	3:MH:62:TYR:CD1	2.43	0.52
3:MI:55:PRO:HB3	3:MI:60:LYS:HG2	1.91	0.52
3:MI:127:GLN:C	3:MI:128:LEU:HD12	2.30	0.52
3:MN:55:PRO:HD3	3:MN:62:TYR:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NE:121:LEU:O	3:NE:125:ILE:HG22	2.08	0.52
1:A:1681:U:H2'	1:A:1682:U:C6	2.45	0.52
1:A:2447:C:H41	1:A:2448:A:N6	2.07	0.52
1:A:2448:A:H2'	1:A:2449:U:C6	2.45	0.52
1:A:2920:U:H3'	1:A:2922:A:OP2	2.10	0.52
1:A:3340:A:H2'	1:A:3341:G:N3	2.24	0.52
1:A:3427:A:H4'	3:GF:89:TYR:OH	2.09	0.52
2:M:178:ASP:OD2	2:M:181:ALA:HB3	2.09	0.52
2:M:366:ARG:HD3	2:M:366:ARG:O	2.08	0.52
3:BA:106:ALA:HB3	3:MK:13:LYS:HD2	1.91	0.52
3:BG:5:THR:HG22	3:BG:22:ASN:OD1	2.10	0.52
3:BH:6:VAL:HG12	3:BH:8:LEU:CD2	2.39	0.52
3:BH:26:VAL:HG11	3:IL:132:TYR:CZ	2.44	0.52
3:BI:13:LYS:HZ2	3:HM:106:ALA:HB3	1.74	0.52
3:CB:13:LYS:HZ1	3:HC:103:GLU:N	2.08	0.52
3:CH:24:ARG:C	3:HJ:129:ASN:OD1	2.47	0.52
3:CI:120:LEU:CD2	3:CI:121:LEU:HD23	2.40	0.52
3:CK:86:ARG:HH22	3:NC:97:THR:HG23	1.73	0.52
3:CN:110:THR:HB	3:DD:11:ILE:HD12	1.92	0.52
3:CN:115:LEU:HD22	3:DD:8:LEU:HD11	1.91	0.52
3:DE:11:ILE:HD12	3:EL:110:THR:CB	2.39	0.52
3:DL:3:LEU:HD23	3:MN:132:TYR:HA	1.90	0.52
3:EA:125:ILE:HD11	3:LM:64:VAL:HG11	1.92	0.52
3:EA:131:ALA:HB1	3:LM:3:LEU:HD22	1.90	0.52
3:EB:111:GLU:O	3:EB:115:LEU:HD23	2.09	0.52
3:EC:116:LEU:HD11	3:LK:109:ARG:HG2	1.92	0.52
3:ED:34:SER:O	3:ED:35:LEU:HD22	2.10	0.52
3:EM:60:LYS:HB2	3:EM:61:ASN:CB	2.40	0.52
3:EM:60:LYS:N	3:EM:61:ASN:HB3	2.25	0.52
3:FE:28:PRO:O	3:FF:29:THR:HG22	2.09	0.52
3:GF:11:ILE:HD12	3:KD:110:THR:CB	2.38	0.52
3:GH:24:ARG:HH22	3:JE:129:ASN:HB3	1.74	0.52
3:GJ:34:SER:C	3:GJ:35:LEU:HD12	2.30	0.52
3:GK:72:THR:HG22	3:GK:73:ALA:N	2.24	0.52
3:GK:87:GLN:HG2	3:GK:87:GLN:O	2.09	0.52
3:GL:112:LEU:HD11	3:HG:92:VAL:HG21	1.91	0.52
3:GN:50:VAL:HG23	3:GN:66:VAL:HG22	1.92	0.52
3:HB:125:ILE:HG23	3:HB:126:ASP:N	2.24	0.52
3:HJ:56:SER:OG	3:HJ:59:ARG:NE	2.30	0.52
3:HL:101:THR:OG1	3:HL:104:GLU:HG2	2.09	0.52
3:IC:110:THR:OG1	3:JN:11:ILE:HD12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:48:VAL:HG13	3:JB:68:ILE:HD13	1.90	0.52
3:KA:34:SER:C	3:KA:35:LEU:HD12	2.30	0.52
3:KH:52:VAL:HG13	3:KH:64:VAL:HG22	1.91	0.52
3:KJ:46:LYS:HG2	3:KJ:70:ASN:OD1	2.09	0.52
3:KJ:65:GLN:OE1	3:KJ:65:GLN:HA	2.10	0.52
3:KJ:110:THR:CB	3:LE:11:ILE:HD12	2.38	0.52
3:KK:13:LYS:HD2	3:MH:106:ALA:HB2	1.91	0.52
3:KK:109:ARG:HD3	3:MH:116:LEU:O	2.10	0.52
3:LB:46:LYS:HE3	3:LB:70:ASN:ND2	2.23	0.52
3:LK:66:VAL:HG12	3:LK:68:ILE:HD11	1.92	0.52
3:MD:11:ILE:CG2	3:MD:17:GLN:HB2	2.39	0.52
3:ME:64:VAL:HG21	3:NH:125:ILE:HD12	1.92	0.52
3:NB:117:ALA:HA	3:NF:109:ARG:HH22	1.74	0.52
1:A:244:G:H2'	1:A:245:U:O4'	2.10	0.52
1:A:878:G:C2	1:A:879:U:C5	2.97	0.52
1:A:2423:G:N7	1:A:2966:U:O4	2.42	0.52
1:A:2496:G:OP2	3:EE:57:ARG:HD2	2.09	0.52
1:A:2617:A:C5	1:A:2618:A:H1'	2.44	0.52
1:A:2628:U:H2'	1:A:2629:G:O4'	2.10	0.52
1:A:2629:G:C2	1:A:2630:G:C4	2.98	0.52
1:A:2805:U:O2	1:A:2820:G:N2	2.39	0.52
1:A:3042:U:O4'	3:BA:98:GLN:NE2	2.37	0.52
1:A:3880:U:O4	3:EA:45:GLU:HG2	2.09	0.52
1:A:4067:G:C6	1:A:4068:G:C6	2.97	0.52
1:A:4134:C:H3'	1:A:4135:C:H5"	1.91	0.52
3:BB:79:SER:O	3:BB:80:CYS:HB3	2.10	0.52
3:BB:97:THR:N	3:BB:100:SER:OG	2.43	0.52
3:BC:34:SER:O	3:BC:35:LEU:HD12	2.09	0.52
3:BH:110:THR:HB	3:IL:11:ILE:HD12	1.91	0.52
3:BI:13:LYS:HE2	3:HM:103:GLU:HA	1.90	0.52
3:CB:100:SER:HA	3:HC:86:ARG:CZ	2.40	0.52
3:CC:99:TYR:CD1	3:CD:81:ASP:OD1	2.63	0.52
3:CJ:77:ASN:OD1	3:DI:77:ASN:ND2	2.39	0.52
3:CJ:109:ARG:NH1	3:HJ:122:ILE:HA	2.24	0.52
3:CK:115:LEU:CD2	3:NC:8:LEU:HD11	2.38	0.52
3:CN:126:ASP:OD1	3:DD:106:ALA:HB2	2.09	0.52
3:DA:55:PRO:HD3	3:DA:62:TYR:HE1	1.73	0.52
3:DA:111:GLU:OE2	3:MM:68:ILE:HD11	2.10	0.52
3:DC:103:GLU:HA	3:EN:13:LYS:HD2	1.91	0.52
3:DC:128:LEU:HD11	3:EN:105:ARG:HD2	1.92	0.52
3:DF:26:VAL:HG12	3:DF:33:ALA:CA	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:114:ALA:HB1	3:LK:8:LEU:CG	2.39	0.52
3:EE:8:LEU:CD2	3:EE:19:LEU:HD12	2.38	0.52
3:EF:8:LEU:CD1	3:FA:114:ALA:HB3	2.32	0.52
3:EJ:65:GLN:HE22	3:EJ:67:LYS:HB2	1.74	0.52
3:FH:27:ASN:O	3:FH:31:GLY:N	2.41	0.52
3:GD:115:LEU:CD2	3:KF:8:LEU:HD11	2.40	0.52
3:GD:128:LEU:O	3:KG:24:ARG:NH1	2.42	0.52
3:GJ:86:ARG:HH22	3:GN:101:THR:H	1.58	0.52
3:GK:105:ARG:HG2	3:JA:125:ILE:HG22	1.92	0.52
3:HE:119:PRO:HA	3:HE:122:ILE:HG12	1.92	0.52
3:HH:4:GLU:OE1	3:HH:5:THR:N	2.42	0.52
3:JD:128:LEU:HD12	3:JD:128:LEU:N	2.24	0.52
3:JN:121:LEU:O	3:JN:125:ILE:HG22	2.10	0.52
3:KB:119:PRO:HA	3:KB:122:ILE:HG12	1.90	0.52
3:KD:42:PRO:HA	3:KD:45:GLU:OE1	2.09	0.52
3:KJ:11:ILE:HD12	3:LE:110:THR:HB	1.91	0.52
3:LL:93:THR:HB	3:MB:91:ASP:OD1	2.09	0.52
3:MB:54:GLN:OE1	3:MB:54:GLN:N	2.42	0.52
3:MH:79:SER:O	3:MH:80:CYS:HB2	2.09	0.52
1:A:269:C:H2'	1:A:270:C:C6	2.45	0.52
1:A:1167:U:O2'	1:A:1168:A:O5'	2.27	0.52
1:A:1452:U:O2'	1:A:1455:C:N4	2.43	0.52
1:A:2635:A:OP1	3:GC:47:ARG:NH1	2.42	0.52
1:A:2913:U:O4	1:A:2929:C:N3	2.42	0.52
1:A:3081:U:H4'	1:A:3083:G:OP1	2.09	0.52
1:A:3425:A:O5'	1:A:3426:G:OP2	2.27	0.52
1:A:3477:A:C8	1:A:3477:A:OP1	2.62	0.52
1:A:3955:C:H2'	1:A:3956:U:C6	2.44	0.52
1:A:4140:U:H2'	1:A:4141:G:C8	2.45	0.52
2:M:129:ASN:OD1	2:M:130:SER:N	2.42	0.52
3:BB:74:CYS:HB2	3:MB:80:CYS:HA	1.90	0.52
3:BD:41:VAL:O	3:BD:44:LEU:HG	2.10	0.52
3:BE:6:VAL:HG12	3:BE:8:LEU:HD22	1.90	0.52
3:BF:1:ALA:HB3	3:IN:131:ALA:HA	1.91	0.52
3:BF:11:ILE:HD11	3:IN:111:GLU:N	2.24	0.52
3:BM:58:ASN:OD1	3:BM:59:ARG:N	2.39	0.52
3:BM:116:LEU:HD23	3:BM:116:LEU:O	2.09	0.52
3:BN:123:ASP:HB3	3:BN:129:ASN:HD22	1.74	0.52
3:CD:52:VAL:HG23	3:CD:64:VAL:CG2	2.39	0.52
3:CE:80:CYS:SG	3:CE:81:ASP:N	2.82	0.52
3:CE:123:ASP:OD1	3:CE:129:ASN:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CI:26:VAL:O	3:CI:26:VAL:HG13	2.10	0.52
3:DA:26:VAL:HG11	3:MM:132:TYR:CE2	2.44	0.52
3:DB:11:ILE:HG22	3:DB:17:GLN:C	2.30	0.52
3:EA:13:LYS:HZ1	3:LM:103:GLU:CA	2.23	0.52
3:EA:86:ARG:HH22	3:LM:100:SER:HA	1.74	0.52
3:EF:103:GLU:HA	3:FA:13:LYS:HE3	1.91	0.52
3:EI:13:LYS:NZ	3:GA:102:ASP:C	2.62	0.52
3:FC:62:TYR:CD1	3:GB:128:LEU:HD22	2.45	0.52
3:FC:94:PHE:CE1	3:GB:125:ILE:HD11	2.44	0.52
3:FF:11:ILE:HG13	3:LF:110:THR:HB	1.91	0.52
3:FK:96:PHE:CE1	3:FK:105:ARG:HB3	2.44	0.52
3:GA:55:PRO:HG3	3:GA:62:TYR:CE2	2.44	0.52
3:GA:101:THR:HG22	3:GA:104:GLU:OE1	2.08	0.52
3:GD:92:VAL:HG22	3:KF:92:VAL:HG22	1.90	0.52
3:GD:112:LEU:HD11	3:KF:92:VAL:HG21	1.92	0.52
3:GF:3:LEU:CD1	3:GF:35:LEU:HD11	2.40	0.52
3:GI:120:LEU:HD11	3:JC:6:VAL:HG21	1.91	0.52
3:GN:55:PRO:HD3	3:GN:62:TYR:CD2	2.44	0.52
3:IC:115:LEU:HD22	3:JN:8:LEU:CD1	2.39	0.52
3:ID:55:PRO:CD	3:ID:62:TYR:CD1	2.92	0.52
3:IG:11:ILE:HD11	3:JJ:111:GLU:N	2.25	0.52
3:JA:13:LYS:HD2	3:JA:13:LYS:H	1.75	0.52
3:JF:55:PRO:HG3	3:JF:62:TYR:CE1	2.45	0.52
3:JG:41:VAL:O	3:JG:44:LEU:HG	2.09	0.52
3:JK:127:GLN:N	3:JK:127:GLN:OE1	2.42	0.52
3:KA:17:GLN:HE22	3:KA:19:LEU:HD23	1.75	0.52
3:KB:55:PRO:HD3	3:KB:62:TYR:CE1	2.45	0.52
3:KC:48:VAL:HG13	3:KC:68:ILE:HD13	1.92	0.52
3:KC:125:ILE:HG23	3:KC:126:ASP:N	2.25	0.52
3:KH:64:VAL:HG11	3:KL:125:ILE:HD13	1.90	0.52
3:KJ:13:LYS:N	3:KJ:13:LYS:HD2	2.24	0.52
3:KN:60:LYS:HB2	3:KN:61:ASN:CB	2.40	0.52
3:LC:48:VAL:HG13	3:LC:68:ILE:HG22	1.92	0.52
3:LL:60:LYS:HB2	3:LL:61:ASN:CB	2.39	0.52
3:ME:27:ASN:OD1	3:ME:29:THR:N	2.42	0.52
3:MJ:116:LEU:O	3:MJ:116:LEU:HD23	2.10	0.52
3:MM:3:LEU:HD13	3:MM:23:PRO:HB2	1.90	0.52
3:NC:96:PHE:CE2	3:NC:105:ARG:HG2	2.45	0.52
3:NC:108:VAL:HA	3:NC:111:GLU:OE2	2.09	0.52
3:NI:34:SER:C	3:NI:35:LEU:HD12	2.30	0.52
1:A:540:U:H2'	1:A:541:C:C6	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1281:U:H2'	1:A:1282:C:C1'	2.39	0.52
1:A:1883:U:H2'	1:A:1884:C:C6	2.45	0.52
1:A:3305:G:OP2	3:JG:63:LYS:NZ	2.42	0.52
1:A:3538:C:H2'	1:A:3539:G:O4'	2.10	0.52
1:A:4046:C:N4	1:A:4047:G:O6	2.43	0.52
3:BB:62:TYR:HE2	3:BC:42:PRO:CB	2.22	0.52
3:BD:60:LYS:HB2	3:BD:61:ASN:HB2	1.90	0.52
3:BD:99:TYR:CB	3:JB:86:ARG:HH12	2.22	0.52
3:BK:24:ARG:NH2	3:BN:129:ASN:OD1	2.43	0.52
3:BL:4:GLU:O	3:BL:6:VAL:HG23	2.09	0.52
3:CB:112:LEU:HD23	3:HC:116:LEU:HD21	1.92	0.52
3:CG:120:LEU:HD23	3:CG:121:LEU:N	2.25	0.52
3:CI:96:PHE:HE2	3:CI:105:ARG:CG	2.22	0.52
3:CK:116:LEU:HD12	3:NC:109:ARG:HG2	1.91	0.52
3:EA:86:ARG:HH12	3:LM:100:SER:HA	1.74	0.52
3:EB:43:ALA:C	3:EB:44:LEU:HD22	2.29	0.52
3:EE:127:GLN:HB2	3:EE:129:ASN:CG	2.29	0.52
3:EH:75:THR:HG23	3:EH:82:PRO:HG3	1.91	0.52
3:FD:55:PRO:HA	3:FD:60:LYS:O	2.10	0.52
3:FH:115:LEU:HD12	3:FK:68:ILE:HD11	1.91	0.52
3:GF:41:VAL:O	3:GF:45:GLU:OE1	2.28	0.52
3:GI:86:ARG:NH2	3:JC:104:GLU:OE2	2.34	0.52
3:GL:8:LEU:HD13	3:HG:115:LEU:HD22	1.92	0.52
3:HB:107:PHE:O	3:HB:111:GLU:HG3	2.10	0.52
3:HF:13:LYS:HD2	3:HF:13:LYS:N	2.24	0.52
3:HH:111:GLU:O	3:HH:115:LEU:HD23	2.09	0.52
3:HN:8:LEU:HD11	3:ID:115:LEU:HD21	1.90	0.52
3:ID:4:GLU:OE1	3:ID:5:THR:N	2.43	0.52
3:ID:61:ASN:ND2	3:ID:96:PHE:O	2.42	0.52
3:IE:132:TYR:CE1	3:JK:28:PRO:HB3	2.45	0.52
3:II:52:VAL:HG13	3:II:64:VAL:HG22	1.91	0.52
3:IM:77:ASN:OD1	3:JN:77:ASN:O	2.27	0.52
3:JE:123:ASP:HB3	3:JE:129:ASN:HD22	1.75	0.52
3:JG:86:ARG:HH21	3:LD:100:SER:HA	1.74	0.52
3:JI:86:ARG:NH2	3:LB:99:TYR:O	2.42	0.52
3:JL:125:ILE:O	3:JL:128:LEU:HD12	2.10	0.52
3:KD:107:PHE:O	3:KD:111:GLU:HG3	2.09	0.52
3:KI:26:VAL:O	3:KI:28:PRO:HD2	2.09	0.52
3:KJ:11:ILE:CG2	3:KJ:17:GLN:HB2	2.39	0.52
3:LA:110:THR:OG1	3:MD:11:ILE:HD12	2.09	0.52
3:LL:122:ILE:HG22	3:MB:109:ARG:NH1	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LN:44:LEU:HD21	3:LN:73:ALA:HB2	1.91	0.52
3:MA:98:GLN:HE22	3:MB:43:ALA:HA	1.75	0.52
3:MC:101:THR:HG23	3:MC:104:GLU:H	1.75	0.52
3:MG:102:ASP:OD1	3:MG:103:GLU:N	2.42	0.52
3:MM:119:PRO:HA	3:MM:122:ILE:HG12	1.91	0.52
3:NH:60:LYS:HB2	3:NH:61:ASN:CB	2.40	0.52
1:A:1761:G:H2'	1:A:1762:G:C8	2.44	0.52
1:A:2558:U:O2'	1:A:2559:U:OP1	2.19	0.52
1:A:3085:G:H2'	1:A:3086:U:O4'	2.10	0.52
1:A:3628:U:C2	1:A:3630:A:OP2	2.63	0.52
3:B:8:LEU:CG	3:B:11:ILE:HD11	2.38	0.52
3:B:105:ARG:NE	3:D:125:ILE:O	2.42	0.52
3:BB:54:GLN:HB2	3:BB:55:PRO:HD2	1.91	0.52
3:BD:1:ALA:HB1	3:JB:131:ALA:HA	1.91	0.52
3:BG:111:GLU:CA	3:IA:11:ILE:HD11	2.40	0.52
3:BI:101:THR:HG23	3:BI:104:GLU:H	1.75	0.52
3:BI:129:ASN:OD1	3:HK:24:ARG:NE	2.41	0.52
3:BL:86:ARG:CZ	3:CG:99:TYR:O	2.57	0.52
3:BL:123:ASP:OD1	3:BL:129:ASN:OD1	2.27	0.52
3:CB:118:SER:O	3:CB:122:ILE:HG12	2.10	0.52
3:CF:61:ASN:ND2	3:CF:96:PHE:O	2.43	0.52
3:CK:115:LEU:HD21	3:NC:8:LEU:HD11	1.91	0.52
3:DB:52:VAL:HG22	3:DK:130:PRO:HA	1.91	0.52
3:DC:24:ARG:C	3:EL:129:ASN:OD1	2.48	0.52
3:DG:109:ARG:NH2	3:EJ:125:ILE:HG13	2.24	0.52
3:DI:3:LEU:HD23	3:DI:3:LEU:H	1.74	0.52
3:DI:81:ASP:OD2	3:DK:99:TYR:CD2	2.62	0.52
3:DI:97:THR:O	3:DI:100:SER:OG	2.26	0.52
3:DK:49:THR:HB	3:DK:67:LYS:HB2	1.92	0.52
3:EB:87:GLN:N	3:EB:87:GLN:OE1	2.42	0.52
3:EG:60:LYS:H	3:EG:61:ASN:HB3	1.75	0.52
3:EN:98:GLN:HE21	3:FA:43:ALA:CA	2.22	0.52
3:FC:41:VAL:CB	3:FC:44:LEU:HD13	2.39	0.52
3:FF:109:ARG:HH11	3:LF:122:ILE:HG22	1.74	0.52
3:FI:68:ILE:HD13	3:FI:90:ALA:HB3	1.91	0.52
3:FJ:97:THR:OG1	3:HF:86:ARG:CZ	2.58	0.52
3:FK:24:ARG:C	3:FK:24:ARG:NE	2.63	0.52
3:FM:125:ILE:HG23	3:FM:126:ASP:N	2.24	0.52
3:FN:74:CYS:HA	3:HC:80:CYS:HB3	1.90	0.52
3:GI:111:GLU:N	3:JC:11:ILE:HD11	2.24	0.52
3:GJ:48:VAL:HG11	3:GN:115:LEU:HD21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GK:58:ASN:O	3:GK:59:ARG:NH1	2.42	0.52
3:GL:68:ILE:CG2	3:GL:90:ALA:HB3	2.40	0.52
3:GN:96:PHE:CE1	3:GN:105:ARG:HG3	2.45	0.52
3:HI:111:GLU:N	3:II:11:ILE:HD11	2.24	0.52
3:HK:37:GLN:OE1	3:HK:39:GLY:N	2.29	0.52
3:HL:26:VAL:O	3:HL:28:PRO:HD3	2.09	0.52
3:IA:79:SER:HA	3:ID:75:THR:O	2.10	0.52
3:IF:8:LEU:HD22	3:NI:114:ALA:CB	2.40	0.52
3:IH:11:ILE:HD11	3:NG:111:GLU:N	2.24	0.52
3:JC:24:ARG:NE	3:JC:36:SER:OG	2.42	0.52
3:JG:111:GLU:N	3:LD:11:ILE:HD11	2.25	0.52
3:JM:97:THR:N	3:JM:100:SER:OG	2.42	0.52
3:KE:84:VAL:HG11	3:KE:87:GLN:HE21	1.74	0.52
3:KK:66:VAL:HG23	3:KK:92:VAL:CG1	2.39	0.52
3:KM:91:ASP:OD1	3:MF:93:THR:HB	2.09	0.52
3:KM:127:GLN:CA	3:MF:105:ARG:HH12	2.23	0.52
3:KN:60:LYS:HB2	3:KN:61:ASN:HB2	1.91	0.52
3:LA:46:LYS:NZ	3:MD:107:PHE:CE2	2.77	0.52
3:LF:58:ASN:OD1	3:LF:59:ARG:NH2	2.33	0.52
3:LG:11:ILE:HD11	3:MG:111:GLU:HA	1.91	0.52
3:LG:11:ILE:HD12	3:MG:110:THR:HG23	1.89	0.52
3:MC:24:ARG:NE	3:MC:36:SER:OG	2.43	0.52
3:NA:115:LEU:HB3	3:NA:121:LEU:HD22	1.92	0.52
3:NB:41:VAL:O	3:NB:44:LEU:HG	2.09	0.52
3:NI:18:THR:C	3:NI:19:LEU:HD22	2.30	0.52
3:NJ:52:VAL:HG12	3:NJ:64:VAL:CG2	2.38	0.52
1:A:1128:A:H2'	1:A:1129:U:N1	2.25	0.52
1:A:1329:U:C2	1:A:1330:G:C8	2.97	0.52
1:A:2064:C:C4	1:A:2101:A:C2	2.98	0.52
1:A:2492:C:H4'	1:A:2493:U:OP1	2.10	0.52
1:A:3037:A:C2	1:A:3046:U:C2	2.98	0.52
1:A:3039:A:H2'	1:A:3040:U:C4'	2.40	0.52
1:A:4022:C:H5'	1:A:4023:G:OP2	2.10	0.52
3:BA:32:VAL:HG13	3:BA:51:SER:OG	2.09	0.52
3:BG:32:VAL:HG22	3:BG:51:SER:HB3	1.91	0.52
3:BI:126:ASP:H	3:HM:109:ARG:HH22	1.57	0.52
3:BI:126:ASP:N	3:HM:109:ARG:HH12	2.08	0.52
3:BL:100:SER:HA	3:CG:86:ARG:HH21	1.75	0.52
3:BM:3:LEU:HD21	3:BM:33:ALA:HB1	1.91	0.52
3:CB:49:THR:OG1	3:CB:67:LYS:HB3	2.08	0.52
3:CC:3:LEU:CD2	3:DF:131:ALA:HB1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:15:GLY:O	3:CD:16:LYS:HE2	2.08	0.52
3:CH:107:PHE:HZ	3:HL:19:LEU:HD11	1.69	0.52
3:CI:26:VAL:HG23	3:CI:32:VAL:C	2.31	0.52
3:CI:92:VAL:HG22	3:DI:92:VAL:HG22	1.92	0.52
3:CM:105:ARG:O	3:CM:108:VAL:HG12	2.09	0.52
3:DA:109:ARG:HH12	3:MM:122:ILE:CG2	2.23	0.52
3:DC:102:ASP:OD1	3:DC:102:ASP:N	2.42	0.52
3:DD:80:CYS:HB3	3:EN:74:CYS:HA	1.91	0.52
3:DD:125:ILE:HG23	3:DD:126:ASP:N	2.25	0.52
3:DE:115:LEU:HD22	3:EL:8:LEU:HD11	1.89	0.52
3:DN:114:ALA:HB3	3:ML:8:LEU:HD12	1.90	0.52
3:EA:96:PHE:CE2	3:EA:105:ARG:HG2	2.45	0.52
3:EE:79:SER:O	3:EE:80:CYS:HB2	2.10	0.52
3:EF:64:VAL:HG11	3:FA:125:ILE:HD13	1.92	0.52
3:EH:79:SER:O	3:EH:80:CYS:HB2	2.10	0.52
3:EJ:52:VAL:HG12	3:EJ:64:VAL:HG22	1.90	0.52
3:EK:11:ILE:HD11	3:FM:111:GLU:N	2.25	0.52
3:EK:75:THR:HG23	3:EK:82:PRO:HG3	1.92	0.52
3:FE:128:LEU:HD23	3:KI:62:TYR:CD2	2.44	0.52
3:FI:43:ALA:C	3:FI:44:LEU:HD22	2.30	0.52
3:FI:62:TYR:CZ	3:FI:98:GLN:HA	2.45	0.52
3:FI:109:ARG:HH21	3:KE:125:ILE:H	1.58	0.52
3:FJ:111:GLU:CA	3:HF:11:ILE:HD11	2.40	0.52
3:FM:121:LEU:O	3:FM:125:ILE:HG22	2.09	0.52
3:GJ:52:VAL:CG1	3:GJ:64:VAL:HG22	2.32	0.52
3:HI:11:ILE:HD12	3:II:110:THR:OG1	2.07	0.52
3:HK:41:VAL:CG1	3:HK:44:LEU:HD11	2.40	0.52
3:HK:44:LEU:HD12	3:HK:44:LEU:O	2.10	0.52
3:HN:103:GLU:CD	3:ID:13:LYS:HZ1	2.12	0.52
3:IB:101:THR:N	3:IB:104:GLU:OE1	2.43	0.52
3:IB:132:TYR:CZ	3:IJ:28:PRO:HB3	2.45	0.52
3:JE:55:PRO:HD3	3:JE:62:TYR:CE1	2.44	0.52
3:JH:120:LEU:HD23	3:JH:120:LEU:C	2.31	0.52
3:KB:103:GLU:OE2	3:KB:104:GLU:HG3	2.10	0.52
3:KC:11:ILE:HD11	3:LC:111:GLU:N	2.25	0.52
3:KC:92:VAL:HG21	3:LC:112:LEU:HD11	1.92	0.52
3:LL:94:PHE:HB3	3:LL:96:PHE:CE1	2.45	0.52
3:MF:101:THR:HG22	3:MF:104:GLU:OE2	2.09	0.52
3:MG:13:LYS:HE3	3:MG:126:ASP:OD1	2.10	0.52
3:NB:44:LEU:HD12	3:NB:44:LEU:O	2.08	0.52
3:ND:60:LYS:HE2	3:ND:98:GLN:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:187:G:H2'	1:A:188:G:O4'	2.10	0.52
1:A:1384:A:OP1	1:A:1548:A:N6	2.42	0.52
1:A:1536:G:N2	3:EJ:57:ARG:HH22	2.08	0.52
1:A:1552:A:H2'	1:A:1553:G:N9	2.25	0.52
1:A:1580:U:H2'	1:A:1581:U:C6	2.45	0.52
1:A:1833:A:C4	1:A:1834:A:C6	2.98	0.52
1:A:2921:C:H5"	3:FN:47:ARG:HH22	1.74	0.52
1:A:2923:G:C2'	1:A:2924:A:O4'	2.58	0.52
1:A:3779:C:N3	1:A:3838:A:C2	2.78	0.52
2:M:158:LYS:HZ3	2:M:406:VAL:HG22	1.75	0.52
3:BF:116:LEU:CD1	3:IN:109:ARG:HG3	2.40	0.52
3:BG:110:THR:CB	3:IA:11:ILE:HD12	2.40	0.52
3:BL:129:ASN:ND2	3:CE:24:ARG:HE	2.08	0.52
3:CA:114:ALA:HB1	3:DH:8:LEU:HD12	1.92	0.52
3:CB:93:THR:HB	3:HC:91:ASP:OD2	2.09	0.52
3:CC:91:ASP:O	3:DF:92:VAL:HA	2.10	0.52
3:CC:109:ARG:NE	3:DF:122:ILE:CD1	2.73	0.52
3:CH:111:GLU:CD	3:HL:19:LEU:HD22	2.30	0.52
3:CH:132:TYR:OH	3:HL:26:VAL:HG11	2.09	0.52
3:CN:110:THR:CB	3:DD:11:ILE:HD12	2.39	0.52
3:CN:114:ALA:HB1	3:DD:8:LEU:HD22	1.92	0.52
3:DE:106:ALA:CB	3:EL:13:LYS:HZ2	2.15	0.52
3:EA:64:VAL:HG11	3:LM:125:ILE:HD13	1.92	0.52
3:EF:15:GLY:O	3:EF:16:LYS:HE2	2.09	0.52
3:FI:11:ILE:HD12	3:KE:110:THR:CB	2.39	0.52
3:GD:125:ILE:HG13	3:KF:109:ARG:CZ	2.40	0.52
3:GG:103:GLU:HA	3:JE:13:LYS:NZ	2.24	0.52
3:GI:32:VAL:HG12	3:GI:51:SER:OG	2.09	0.52
3:GJ:34:SER:OG	3:GJ:49:THR:HG22	2.09	0.52
3:GJ:61:ASN:HA	3:GJ:96:PHE:O	2.09	0.52
3:HB:96:PHE:CE1	3:HB:105:ARG:HG2	2.45	0.52
3:IB:110:THR:HB	3:IK:11:ILE:HD12	1.91	0.52
3:IC:6:VAL:HG12	3:IC:8:LEU:CD2	2.40	0.52
3:JD:86:ARG:NH1	3:JH:104:GLU:OE1	2.42	0.52
3:JF:11:ILE:HG22	3:JF:17:GLN:C	2.29	0.52
3:KC:37:GLN:HB3	3:KC:45:GLU:OE2	2.10	0.52
3:KJ:62:TYR:CD1	3:LE:128:LEU:HD23	2.45	0.52
3:LE:26:VAL:HG23	3:LE:32:VAL:C	2.30	0.52
3:LG:122:ILE:C	3:MG:109:ARG:HH22	2.11	0.52
3:LH:41:VAL:O	3:LH:41:VAL:HG13	2.09	0.52
3:LL:132:TYR:O	3:MB:2:LYS:HD2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:34:SER:O	3:MH:35:LEU:HD22	2.10	0.52
3:NB:132:TYR:OH	3:NF:26:VAL:HB	2.10	0.52
1:A:534:A:H2'	1:A:535:A:N3	2.25	0.52
1:A:594:C:N4	1:A:595:G:O6	2.43	0.52
1:A:921:C:O2'	1:A:1047:U:OP1	2.28	0.52
1:A:1441:U:H2'	1:A:1442:U:C6	2.45	0.52
1:A:2158:U:OP1	3:HE:61:ASN:ND2	2.44	0.52
1:A:2295:U:O4	3:GN:49:THR:OG1	2.13	0.52
1:A:2624:U:H2'	1:A:2625:G:O4'	2.09	0.52
1:A:3041:G:H1	3:BB:69:GLN:HB2	1.75	0.52
1:A:3309:A:C2'	1:A:3310:U:O4'	2.58	0.52
1:A:3561:G:C2	1:A:3562:G:C8	2.97	0.52
1:A:3926:G:C1'	1:A:4159:A:H61	2.22	0.52
3:BC:111:GLU:N	3:ND:11:ILE:HD11	2.24	0.52
3:BD:122:ILE:HA	3:JB:105:ARG:HH21	1.73	0.52
3:BE:111:GLU:O	3:BE:115:LEU:HD23	2.10	0.52
3:BF:128:LEU:HD11	3:IN:105:ARG:HD3	1.91	0.52
3:BG:20:VAL:C	3:BG:21:LEU:HD22	2.30	0.52
3:BG:103:GLU:OE1	3:IA:13:LYS:NZ	2.39	0.52
3:BI:126:ASP:OD1	3:HM:106:ALA:HB2	2.10	0.52
3:CB:8:LEU:CD1	3:HC:114:ALA:HB3	2.39	0.52
3:CB:58:ASN:OD1	3:CB:59:ARG:N	2.42	0.52
3:CC:30:ASN:OD1	3:CC:32:VAL:HG23	2.10	0.52
3:CC:103:GLU:HA	3:DF:13:LYS:HE3	1.90	0.52
3:CJ:104:GLU:O	3:CJ:108:VAL:HG23	2.10	0.52
3:CK:131:ALA:O	3:CK:132:TYR:CD1	2.62	0.52
3:CN:115:LEU:HD22	3:DD:8:LEU:HD13	1.90	0.52
3:EB:106:ALA:HA	3:EB:109:ARG:HE	1.74	0.52
3:EF:51:SER:OG	3:EF:65:GLN:HB3	2.10	0.52
3:EG:11:ILE:HG22	3:EG:17:GLN:O	2.10	0.52
3:EK:109:ARG:HH11	3:FM:122:ILE:HG22	1.73	0.52
3:EK:125:ILE:HD11	3:FM:109:ARG:HG2	1.92	0.52
3:FF:72:THR:OG1	3:FF:86:ARG:HG3	2.10	0.52
3:FF:102:ASP:OD1	3:FF:102:ASP:N	2.43	0.52
3:FJ:102:ASP:OD1	3:HF:126:ASP:CG	2.48	0.52
3:FL:13:LYS:NZ	3:HD:102:ASP:C	2.63	0.52
3:GD:122:ILE:HA	3:KF:109:ARG:HH11	1.75	0.52
3:GI:19:LEU:HD11	3:JC:107:PHE:CZ	2.45	0.52
3:GJ:114:ALA:HB3	3:GN:8:LEU:CD1	2.37	0.52
3:GK:103:GLU:HA	3:JA:13:LYS:HZ2	1.75	0.52
3:GM:41:VAL:O	3:GM:44:LEU:HG	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HC:118:SER:O	3:HC:122:ILE:HG12	2.10	0.52
3:HK:5:THR:HG22	3:HK:22:ASN:OD1	2.10	0.52
3:IA:24:ARG:NH2	3:ID:128:LEU:O	2.43	0.52
3:IE:112:LEU:CD1	3:JL:68:ILE:HD12	2.40	0.52
3:IG:105:ARG:CZ	3:JJ:126:ASP:O	2.57	0.52
3:IL:107:PHE:O	3:IL:111:GLU:OE1	2.27	0.52
3:JK:27:ASN:CG	3:JK:29:THR:HG1	2.12	0.52
3:JK:100:SER:CA	3:KN:86:ARG:NH2	2.72	0.52
3:KC:26:VAL:HG21	3:LC:132:TYR:CZ	2.45	0.52
3:KJ:110:THR:OG1	3:LE:11:ILE:HD12	2.09	0.52
3:LB:121:LEU:O	3:LB:125:ILE:HG22	2.10	0.52
3:LE:44:LEU:HD21	3:LE:73:ALA:HB2	1.90	0.52
3:LE:119:PRO:HA	3:LE:122:ILE:HD12	1.90	0.52
3:LJ:98:GLN:HG3	3:LK:43:ALA:HB2	1.91	0.52
3:MB:65:GLN:NE2	3:MB:93:THR:OG1	2.32	0.52
3:MJ:102:ASP:OD1	3:MJ:103:GLU:N	2.43	0.52
3:MM:11:ILE:CG2	3:MM:17:GLN:HB3	2.40	0.52
3:NA:105:ARG:O	3:NA:108:VAL:HG12	2.08	0.52
1:A:41:C:O2'	1:A:521:G:N2	2.42	0.51
1:A:2350:G:HO2'	1:A:2351:C:C5'	2.23	0.51
1:A:3809:G:O5'	3:KH:57:ARG:N	2.41	0.51
1:A:4152:G:C6	1:A:4168:A:C6	2.98	0.51
2:M:309:GLU:HB3	2:M:312:TRP:CD1	2.46	0.51
3:BA:59:ARG:NE	3:BA:59:ARG:HA	2.26	0.51
3:BF:11:ILE:HG23	3:BF:17:GLN:HB2	1.91	0.51
3:BF:104:GLU:O	3:BF:108:VAL:HG23	2.09	0.51
3:BM:41:VAL:N	3:BM:42:PRO:CD	2.74	0.51
3:CA:87:GLN:N	3:CA:87:GLN:OE1	2.43	0.51
3:CH:11:ILE:HG22	3:CH:17:GLN:C	2.30	0.51
3:CN:8:LEU:HD12	3:DD:114:ALA:HB3	1.91	0.51
3:CN:60:LYS:HB2	3:CN:61:ASN:CB	2.40	0.51
3:DC:97:THR:O	3:DC:100:SER:OG	2.26	0.51
3:DG:109:ARG:CG	3:DG:110:THR:N	2.72	0.51
3:EB:18:THR:C	3:EB:19:LEU:HD22	2.30	0.51
3:EB:102:ASP:N	3:EB:102:ASP:OD2	2.41	0.51
3:EC:48:VAL:HG13	3:EC:68:ILE:CD1	2.40	0.51
3:EC:62:TYR:HE2	3:EC:98:GLN:HA	1.72	0.51
3:EI:11:ILE:HG22	3:GA:110:THR:HB	1.91	0.51
3:EI:109:ARG:HG3	3:EI:110:THR:N	2.24	0.51
3:FE:60:LYS:N	3:FE:61:ASN:HB3	2.22	0.51
3:FJ:103:GLU:HA	3:HF:13:LYS:HE2	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FL:117:ALA:O	3:FL:122:ILE:HD11	2.10	0.51
3:FN:26:VAL:HG13	3:FN:32:VAL:C	2.31	0.51
3:GA:117:ALA:O	3:GA:122:ILE:HD11	2.10	0.51
3:GE:100:SER:HA	3:HE:86:ARG:CZ	2.40	0.51
3:GK:64:VAL:HG11	3:JA:125:ILE:CD1	2.40	0.51
3:HA:49:THR:HG21	3:HA:67:LYS:HE3	1.91	0.51
3:HH:27:ASN:O	3:HH:31:GLY:N	2.42	0.51
3:HI:86:ARG:NH1	3:IJ:81:ASP:OD2	2.43	0.51
3:HI:128:LEU:HD11	3:II:105:ARG:NE	2.25	0.51
3:HJ:27:ASN:ND2	3:HJ:30:ASN:OD1	2.43	0.51
3:IE:54:GLN:HB3	3:IE:55:PRO:CD	2.39	0.51
3:IH:62:TYR:CE2	3:NG:128:LEU:HD23	2.45	0.51
3:IJ:112:LEU:CD2	3:NE:68:ILE:HD13	2.40	0.51
3:JF:44:LEU:HD21	3:JF:73:ALA:HB3	1.91	0.51
3:JJ:27:ASN:OD1	3:JJ:29:THR:OG1	2.24	0.51
3:JL:32:VAL:HG12	3:JL:51:SER:HB2	1.92	0.51
3:JM:11:ILE:HG22	3:JM:17:GLN:O	2.10	0.51
3:KG:3:LEU:HD11	3:KG:35:LEU:HD11	1.89	0.51
3:LE:121:LEU:HA	3:LE:124:ALA:HB3	1.92	0.51
3:LG:62:TYR:HE2	3:LH:42:PRO:CB	2.23	0.51
3:LN:132:TYR:CE1	3:MH:28:PRO:HB3	2.46	0.51
3:ME:111:GLU:OE2	3:ME:115:LEU:HD21	2.11	0.51
3:MH:11:ILE:HG22	3:MH:17:GLN:C	2.29	0.51
3:NA:41:VAL:O	3:NA:45:GLU:OE1	2.28	0.51
3:NB:20:VAL:CG2	3:NB:38:ALA:HB2	2.39	0.51
3:NE:32:VAL:HG22	3:NE:51:SER:HG	1.76	0.51
1:A:1424:A:C2	1:A:2603:A:C6	2.98	0.51
1:A:1457:A:N6	3:EK:57:ARG:HH22	2.08	0.51
1:A:1588:A:H2'	1:A:1589:C:C6	2.45	0.51
1:A:2728:C:N4	1:A:2742:G:O6	2.43	0.51
1:A:3231:G:H1'	1:A:3267:A:H61	1.74	0.51
1:A:3245:U:O5'	3:KK:58:ASN:HA	2.10	0.51
1:A:3477:A:N7	1:A:3478:A:C2	2.78	0.51
1:A:3805:G:H2'	1:A:3806:C:C6	2.45	0.51
3:BG:6:VAL:HG12	3:BG:8:LEU:HD22	1.93	0.51
3:BJ:131:ALA:HB1	3:BN:3:LEU:HD23	1.91	0.51
3:BK:109:ARG:NE	3:HK:122:ILE:HD13	2.26	0.51
3:BN:75:THR:HG22	3:BN:82:PRO:CG	2.40	0.51
3:CA:130:PRO:HA	3:DH:52:VAL:HG22	1.91	0.51
3:CB:6:VAL:HG12	3:CB:8:LEU:HD22	1.92	0.51
3:CB:11:ILE:HG23	3:CB:17:GLN:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:75:THR:O	3:GN:79:SER:HA	2.10	0.51
3:CF:119:PRO:HA	3:CF:122:ILE:CG1	2.39	0.51
3:CJ:92:VAL:HG22	3:HJ:92:VAL:CG2	2.36	0.51
3:CN:86:ARG:NH2	3:DD:100:SER:CA	2.72	0.51
3:DA:92:VAL:CG2	3:MM:92:VAL:HG22	2.32	0.51
3:DD:79:SER:O	3:EN:74:CYS:SG	2.68	0.51
3:EC:21:LEU:HD21	3:EC:48:VAL:HG21	1.91	0.51
3:EH:79:SER:HA	3:GC:75:THR:O	2.10	0.51
3:FC:75:THR:HA	3:FC:82:PRO:HG3	1.91	0.51
3:FE:62:TYR:CD2	3:KI:128:LEU:CD2	2.93	0.51
3:FI:109:ARG:NH2	3:KE:126:ASP:H	2.08	0.51
3:FJ:11:ILE:HG23	3:HF:110:THR:OG1	2.10	0.51
3:GB:8:LEU:O	3:GB:18:THR:HG23	2.10	0.51
3:GF:83:SER:O	3:GF:85:THR:HG23	2.11	0.51
3:GG:102:ASP:OD1	3:GG:103:GLU:N	2.43	0.51
3:GJ:126:ASP:HA	3:GN:105:ARG:CD	2.39	0.51
3:GL:34:SER:C	3:GL:35:LEU:HD12	2.30	0.51
3:HH:122:ILE:HD12	3:HH:126:ASP:OD2	2.10	0.51
3:HI:2:LYS:CE	3:II:132:TYR:O	2.58	0.51
3:HN:111:GLU:N	3:ID:11:ILE:HD11	2.25	0.51
3:IC:92:VAL:HG22	3:JN:92:VAL:HG22	1.91	0.51
3:IH:8:LEU:HD11	3:NG:115:LEU:HD23	1.91	0.51
3:JE:79:SER:O	3:JE:80:CYS:HB3	2.10	0.51
3:JM:60:LYS:HB3	3:JM:61:ASN:HB2	1.92	0.51
3:KB:20:VAL:HG23	3:KB:38:ALA:HB2	1.92	0.51
3:KI:10:ASN:O	3:KI:11:ILE:HD13	2.10	0.51
3:KJ:8:LEU:HD11	3:LE:114:ALA:CB	2.37	0.51
3:KJ:105:ARG:NE	3:LE:128:LEU:HD11	2.25	0.51
3:KK:86:ARG:NH2	3:MH:100:SER:N	2.58	0.51
3:LD:92:VAL:CG1	3:LD:94:PHE:CE2	2.93	0.51
3:LN:109:ARG:CZ	3:MI:122:ILE:HD13	2.40	0.51
3:MG:44:LEU:HD22	3:MI:98:GLN:O	2.10	0.51
3:MH:6:VAL:HG12	3:MH:8:LEU:CD2	2.41	0.51
1:A:2695:A:O2'	1:A:2811:U:OP1	2.21	0.51
1:A:2934:C:O2'	1:A:2935:A:O4'	2.21	0.51
1:A:2940:G:H2'	1:A:2941:A:O4'	2.09	0.51
1:A:3767:C:H2'	1:A:3769:U:C5	2.45	0.51
3:B:128:LEU:O	3:B:128:LEU:HD23	2.10	0.51
3:BA:104:GLU:OE2	3:MK:86:ARG:NH2	2.42	0.51
3:BB:3:LEU:HD12	3:BB:35:LEU:HD21	1.91	0.51
3:BB:11:ILE:HD12	3:MA:110:THR:CB	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:42:PRO:O	3:BC:45:GLU:HG2	2.11	0.51
3:BD:126:ASP:HB2	3:JB:105:ARG:NH1	2.26	0.51
3:CA:68:ILE:HD11	3:DH:112:LEU:HD13	1.93	0.51
3:CF:125:ILE:O	3:CF:128:LEU:HD12	2.10	0.51
3:CJ:19:LEU:HD11	3:CJ:46:LYS:HE3	1.91	0.51
3:CK:71:PRO:HB3	3:CK:87:GLN:OE1	2.09	0.51
3:CL:107:PHE:CZ	3:HH:19:LEU:HD21	2.46	0.51
3:DA:55:PRO:HD3	3:DA:62:TYR:CE1	2.45	0.51
3:DB:41:VAL:O	3:DB:45:GLU:OE1	2.28	0.51
3:DE:8:LEU:HD22	3:EL:115:LEU:CD2	2.41	0.51
3:DN:128:LEU:HD11	3:ML:105:ARG:CD	2.40	0.51
3:EA:86:ARG:CZ	3:LM:100:SER:HA	2.40	0.51
3:EA:125:ILE:CD1	3:LM:64:VAL:HG11	2.39	0.51
3:EB:109:ARG:HH22	3:MJ:126:ASP:N	2.07	0.51
3:EB:126:ASP:OD1	3:MJ:102:ASP:HB2	2.10	0.51
3:EI:35:LEU:HB2	3:EI:48:VAL:CG2	2.41	0.51
3:FD:132:TYR:O	3:FF:132:TYR:OH	2.28	0.51
3:FF:86:ARG:NH1	3:LF:99:TYR:HB2	2.25	0.51
3:FH:86:ARG:CZ	3:FK:100:SER:HA	2.40	0.51
3:FL:23:PRO:HA	3:FL:35:LEU:HG	1.92	0.51
3:GC:96:PHE:HB3	3:GC:100:SER:HB2	1.90	0.51
3:GD:60:LYS:N	3:GD:61:ASN:HB3	2.26	0.51
3:GH:11:ILE:HD11	3:KB:111:GLU:N	2.25	0.51
3:GI:3:LEU:HD23	3:JC:132:TYR:CA	2.40	0.51
3:GK:116:LEU:HD13	3:JA:112:LEU:HD22	1.92	0.51
3:GL:34:SER:O	3:GL:35:LEU:HD12	2.09	0.51
3:HA:98:GLN:HG2	3:HA:99:TYR:CD1	2.46	0.51
3:HG:91:ASP:OD1	3:HG:91:ASP:O	2.28	0.51
3:HM:2:LYS:HE2	3:HM:2:LYS:HA	1.93	0.51
3:IB:64:VAL:HG11	3:IK:125:ILE:CD1	2.40	0.51
3:ID:32:VAL:HG22	3:ID:51:SER:HB3	1.92	0.51
3:IE:111:GLU:N	3:JL:11:ILE:HD11	2.25	0.51
3:IF:24:ARG:C	3:NG:129:ASN:OD1	2.49	0.51
3:JC:119:PRO:HA	3:JC:122:ILE:HD12	1.91	0.51
3:JE:103:GLU:HG2	3:JE:104:GLU:N	2.25	0.51
3:KM:55:PRO:HA	3:KM:60:LYS:O	2.10	0.51
3:LA:86:ARG:NH2	3:MD:97:THR:O	2.43	0.51
3:LB:55:PRO:HG3	3:LB:62:TYR:HE1	1.75	0.51
3:LC:41:VAL:O	3:LC:44:LEU:N	2.38	0.51
3:LE:55:PRO:HG3	3:LE:62:TYR:CZ	2.45	0.51
3:LG:125:ILE:O	3:LG:128:LEU:HD12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LL:37:GLN:OE1	3:LL:42:PRO:HB2	2.09	0.51
3:LL:96:PHE:CD2	3:LL:105:ARG:HG2	2.46	0.51
3:LN:116:LEU:O	3:MI:109:ARG:NH2	2.42	0.51
3:MB:11:ILE:HG22	3:MB:17:GLN:C	2.31	0.51
3:MG:21:LEU:HB3	3:MG:35:LEU:HB3	1.92	0.51
3:ML:61:ASN:HB3	3:ML:63:LYS:HZ3	1.76	0.51
3:MM:75:THR:HG23	3:MM:75:THR:O	2.10	0.51
3:NB:30:ASN:OD1	3:NB:32:VAL:HG23	2.10	0.51
3:NG:13:LYS:N	3:NG:13:LYS:HD2	2.24	0.51
1:A:627:C:C2	1:A:628:U:C5	2.99	0.51
1:A:1616:U:H2'	1:A:1617:G:O4'	2.10	0.51
1:A:1638:C:H2'	1:A:1639:A:C8	2.45	0.51
1:A:2291:U:C5	1:A:2293:A:OP2	2.64	0.51
1:A:2514:U:H3'	3:EE:59:ARG:HH21	1.76	0.51
1:A:2636:G:H1	3:GB:98:GLN:HB2	1.73	0.51
1:A:3085:G:C6	1:A:3130:G:N1	2.78	0.51
1:A:3434:U:O4	1:A:3435:A:N6	2.44	0.51
1:A:3667:G:N7	3:LH:56:SER:HB2	2.26	0.51
1:A:3722:G:O2'	1:A:3723:C:OP2	2.27	0.51
2:M:327:VAL:O	2:M:331:LEU:HG	2.11	0.51
3:BB:111:GLU:N	3:MA:11:ILE:HD11	2.26	0.51
3:BG:6:VAL:HG12	3:BG:8:LEU:CD2	2.41	0.51
3:BL:89:TYR:HB2	3:CG:95:SER:HB3	1.93	0.51
3:CF:89:TYR:HB2	3:GM:95:SER:OG	2.11	0.51
3:CL:79:SER:HA	3:NC:76:ALA:HA	1.93	0.51
3:CM:34:SER:O	3:CM:35:LEU:HD22	2.11	0.51
3:DA:19:LEU:HD11	3:MM:107:PHE:CZ	2.46	0.51
3:DC:111:GLU:N	3:EN:11:ILE:HD11	2.26	0.51
3:DE:110:THR:HB	3:EL:11:ILE:HD12	1.92	0.51
3:DG:75:THR:O	3:EK:79:SER:HA	2.10	0.51
3:DJ:106:ALA:HA	3:DJ:109:ARG:HE	1.75	0.51
3:EB:24:ARG:HH22	3:LM:128:LEU:HB2	1.76	0.51
3:EB:75:THR:O	3:MK:79:SER:HA	2.11	0.51
3:EF:68:ILE:HD11	3:FA:115:LEU:HD12	1.92	0.51
3:FB:8:LEU:HD22	3:LJ:114:ALA:HB1	1.91	0.51
3:FB:60:LYS:HB2	3:FB:61:ASN:HB2	1.92	0.51
3:FE:102:ASP:OD1	3:KI:126:ASP:HB3	2.10	0.51
3:FE:114:ALA:HB3	3:KI:8:LEU:HD22	1.93	0.51
3:FF:112:LEU:HD23	3:LF:116:LEU:HD11	1.92	0.51
3:FJ:62:TYR:CD2	3:HF:128:LEU:CD2	2.93	0.51
3:FK:24:ARG:NH2	3:HF:130:PRO:HD2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GF:116:LEU:HA	3:GF:121:LEU:HD12	1.91	0.51
3:GG:86:ARG:NH1	3:JE:101:THR:HG23	2.25	0.51
3:GH:11:ILE:HD12	3:KB:110:THR:HB	1.92	0.51
3:GL:109:ARG:O	3:HG:116:LEU:HD11	2.10	0.51
3:HH:119:PRO:O	3:HH:122:ILE:HG22	2.11	0.51
3:HL:32:VAL:HG13	3:HL:51:SER:OG	2.10	0.51
3:HN:101:THR:HG23	3:ID:86:ARG:NH2	2.25	0.51
3:IG:11:ILE:HG23	3:IG:17:GLN:HB2	1.93	0.51
3:IH:103:GLU:HA	3:NG:13:LYS:HE2	1.90	0.51
3:II:11:ILE:CG2	3:II:17:GLN:HB2	2.40	0.51
3:JD:67:LYS:HG2	3:JD:91:ASP:OD1	2.10	0.51
3:JD:131:ALA:O	3:JD:132:TYR:CD1	2.64	0.51
3:JD:132:TYR:CE1	3:JH:26:VAL:HG11	2.45	0.51
3:JF:92:VAL:HG22	3:KA:92:VAL:HG22	1.91	0.51
3:JF:122:ILE:HG12	3:KA:109:ARG:NH1	2.25	0.51
3:JK:23:PRO:HA	3:JK:35:LEU:CD2	2.41	0.51
3:JK:74:CYS:HA	3:LA:80:CYS:HB3	1.92	0.51
3:JN:32:VAL:HG22	3:JN:51:SER:OG	2.10	0.51
3:KE:125:ILE:O	3:KE:125:ILE:HG12	2.09	0.51
3:KG:118:SER:O	3:KG:122:ILE:HG13	2.11	0.51
3:KH:116:LEU:HD12	3:KL:109:ARG:HG2	1.92	0.51
3:LL:116:LEU:O	3:LL:116:LEU:HD23	2.11	0.51
3:LN:112:LEU:HD13	3:MI:68:ILE:HD12	1.93	0.51
3:MD:20:VAL:C	3:MD:21:LEU:HD22	2.30	0.51
3:MI:112:LEU:O	3:MI:116:LEU:HD23	2.11	0.51
1:A:703:U:H2'	1:A:704:U:O4'	2.11	0.51
1:A:1562:C:H2'	1:A:1563:G:H8	1.75	0.51
1:A:1779:A:HO2'	1:A:1780:A:P	2.32	0.51
1:A:1798:C:O2'	1:A:1799:G:O5'	2.23	0.51
1:A:1899:C:O4'	1:A:2019:C:O2'	2.25	0.51
1:A:2711:U:O4'	3:DC:57:ARG:CZ	2.59	0.51
1:A:2720:G:O2'	1:A:2721:G:O4'	2.27	0.51
1:A:2906:G:O2'	1:A:2907:U:O4'	2.23	0.51
1:A:3004:C:H2'	1:A:3005:A:O4'	2.10	0.51
1:A:3825:C:H4'	3:FE:63:LYS:HZ1	1.75	0.51
1:A:4131:G:OP1	3:FI:59:ARG:NH2	2.43	0.51
2:M:231:ILE:HG21	2:M:338:TYR:OH	2.11	0.51
3:BB:109:ARG:NH1	3:MA:116:LEU:HG	2.24	0.51
3:BF:115:LEU:HD12	3:IN:8:LEU:HD22	1.93	0.51
3:BG:3:LEU:O	3:BG:3:LEU:HD12	2.11	0.51
3:BI:23:PRO:HA	3:BI:35:LEU:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:81:ASP:OD1	3:BL:99:TYR:CD2	2.64	0.51
3:BJ:131:ALA:O	3:BJ:132:TYR:HD1	1.93	0.51
3:BM:122:ILE:HA	3:DJ:109:ARG:NH1	2.25	0.51
3:CG:77:ASN:OD1	3:GM:77:ASN:ND2	2.40	0.51
3:CI:61:ASN:ND2	3:CI:96:PHE:O	2.44	0.51
3:CJ:14:ASP:OD2	3:CJ:14:ASP:C	2.49	0.51
3:CK:125:ILE:HG23	3:CK:126:ASP:N	2.25	0.51
3:CM:92:VAL:HG22	3:NA:92:VAL:CG2	2.30	0.51
3:DB:103:GLU:HA	3:DK:13:LYS:NZ	2.25	0.51
3:DC:44:LEU:O	3:DC:44:LEU:HD12	2.09	0.51
3:DD:26:VAL:O	3:EL:132:TYR:OH	2.29	0.51
3:DD:79:SER:HA	3:EN:75:THR:O	2.11	0.51
3:DJ:17:GLN:N	3:DJ:17:GLN:OE1	2.43	0.51
3:DL:60:LYS:HB2	3:DL:61:ASN:CB	2.40	0.51
3:DL:113:ALA:HB2	3:MN:116:LEU:CD2	2.40	0.51
3:DM:32:VAL:O	3:DM:32:VAL:HG13	2.10	0.51
3:EB:55:PRO:HD3	3:EB:62:TYR:CD1	2.45	0.51
3:EE:86:ARG:NH2	3:LI:99:TYR:HB3	2.25	0.51
3:EF:103:GLU:HA	3:FA:13:LYS:NZ	2.26	0.51
3:FC:109:ARG:HD2	3:GB:122:ILE:HG22	1.91	0.51
3:FE:3:LEU:HD13	3:FE:23:PRO:HB2	1.93	0.51
3:FI:69:GLN:OE1	3:FI:89:TYR:CD1	2.64	0.51
3:FL:41:VAL:O	3:FL:41:VAL:HG13	2.11	0.51
3:FL:65:GLN:N	3:FL:65:GLN:OE1	2.43	0.51
3:FN:132:TYR:OXT	3:HD:2:LYS:NZ	2.44	0.51
3:GF:8:LEU:HD11	3:KD:114:ALA:HB3	1.93	0.51
3:GF:34:SER:C	3:GF:35:LEU:HD12	2.30	0.51
3:GF:103:GLU:HA	3:GF:103:GLU:OE1	2.11	0.51
3:GH:24:ARG:NH2	3:JE:129:ASN:HA	2.25	0.51
3:GK:106:ALA:HB2	3:JA:126:ASP:OD1	2.10	0.51
3:JD:12:GLY:N	3:JH:110:THR:HG21	2.24	0.51
3:JE:95:SER:O	3:JE:96:PHE:HD1	1.93	0.51
3:JG:94:PHE:HE1	3:LD:90:ALA:HB1	1.74	0.51
3:JI:1:ALA:HB3	3:LB:131:ALA:HA	1.90	0.51
3:LB:91:ASP:OD2	3:LB:91:ASP:N	2.38	0.51
3:LC:44:LEU:O	3:LC:44:LEU:HD12	2.11	0.51
3:LJ:32:VAL:O	3:LJ:32:VAL:HG13	2.11	0.51
3:LN:116:LEU:HD13	3:MI:109:ARG:HH11	1.74	0.51
3:LN:132:TYR:OXT	3:MI:2:LYS:NZ	2.40	0.51
3:MA:11:ILE:CG2	3:MA:17:GLN:HB2	2.41	0.51
3:ME:19:LEU:HD12	3:ME:20:VAL:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ME:111:GLU:N	3:NH:11:ILE:HD11	2.25	0.51
3:MG:13:LYS:N	3:MG:13:LYS:HD2	2.24	0.51
3:MK:41:VAL:O	3:MK:41:VAL:HG23	2.11	0.51
3:NB:131:ALA:O	3:NB:132:TYR:CD1	2.63	0.51
1:A:96:C:H2'	1:A:97:G:O4'	2.10	0.51
1:A:601:C:N4	1:A:602:G:O6	2.44	0.51
1:A:1126:A:C6	1:A:1127:A:N6	2.78	0.51
1:A:1131:U:N3	1:A:1151:G:N1	2.58	0.51
1:A:1562:C:O2	1:A:1579:G:N2	2.44	0.51
1:A:1862:C:H4'	1:A:1863:C:OP1	2.11	0.51
1:A:2326:G:O2'	1:A:2327:U:H5'	2.11	0.51
1:A:2393:A:HO2'	3:FK:67:LYS:NZ	2.04	0.51
1:A:2408:G:OP2	2:M:176:ARG:NH1	2.41	0.51
1:A:3724:U:H4'	1:A:3725:G:OP2	2.11	0.51
2:M:348:ASP:OD1	2:M:384:LEU:O	2.29	0.51
3:BE:109:ARG:HE	3:BE:110:THR:HG23	1.74	0.51
3:BF:55:PRO:HA	3:BF:60:LYS:O	2.11	0.51
3:BJ:44:LEU:HD12	3:BJ:45:GLU:OE2	2.10	0.51
3:CC:49:THR:OG1	3:CC:67:LYS:HB2	2.10	0.51
3:CD:52:VAL:CG2	3:CD:64:VAL:HG22	2.40	0.51
3:CL:106:ALA:N	3:HH:126:ASP:OD1	2.43	0.51
3:CM:128:LEU:CD2	3:NA:62:TYR:CD2	2.92	0.51
3:DA:79:SER:O	3:DD:74:CYS:SG	2.69	0.51
3:DE:32:VAL:HG12	3:DE:51:SER:OG	2.11	0.51
3:EA:13:LYS:HZ1	3:LM:103:GLU:HA	1.75	0.51
3:EB:79:SER:O	3:LM:74:CYS:SG	2.68	0.51
3:EK:3:LEU:HD23	3:FM:131:ALA:HB1	1.91	0.51
3:FA:27:ASN:ND2	3:FA:30:ASN:OD1	2.44	0.51
3:FD:112:LEU:HD11	3:LH:92:VAL:HG21	1.92	0.51
3:FL:55:PRO:HA	3:FL:60:LYS:O	2.09	0.51
3:FL:129:ASN:HD22	3:HB:24:ARG:HA	1.75	0.51
3:FN:91:ASP:OD1	3:FN:91:ASP:O	2.29	0.51
3:GC:94:PHE:HB3	3:GC:105:ARG:HH12	1.75	0.51
3:GF:3:LEU:HD21	3:KD:131:ALA:HB1	1.92	0.51
3:HE:61:ASN:HA	3:HE:96:PHE:O	2.10	0.51
3:IA:61:ASN:ND2	3:IA:96:PHE:O	2.44	0.51
3:IB:126:ASP:OD1	3:IK:102:ASP:HB2	2.11	0.51
3:IE:24:ARG:NE	3:IE:36:SER:OG	2.44	0.51
3:IE:120:LEU:CD2	3:IE:121:LEU:HD12	2.41	0.51
3:IK:55:PRO:HA	3:IK:60:LYS:O	2.10	0.51
3:JB:105:ARG:HD3	3:JB:106:ALA:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JE:13:LYS:N	3:JE:13:LYS:CD	2.73	0.51
3:JJ:30:ASN:OD1	3:JJ:30:ASN:C	2.49	0.51
3:KD:52:VAL:HG12	3:KD:64:VAL:HG13	1.92	0.51
3:KH:22:ASN:OD1	3:KH:23:PRO:N	2.44	0.51
3:KH:66:VAL:CG2	3:KL:121:LEU:HD21	2.40	0.51
3:KJ:13:LYS:CE	3:LE:102:ASP:O	2.58	0.51
3:KJ:92:VAL:HG21	3:LE:112:LEU:HD11	1.92	0.51
3:LH:6:VAL:HG23	3:LH:35:LEU:HD21	1.93	0.51
3:MA:24:ARG:HG3	3:MA:25:GLY:H	1.75	0.51
3:MC:64:VAL:HG11	3:NJ:125:ILE:HD11	1.93	0.51
3:MF:22:ASN:OD1	3:MF:23:PRO:HD2	2.10	0.51
3:MK:10:ASN:OD1	3:MK:10:ASN:O	2.29	0.51
3:ML:61:ASN:O	3:ML:63:LYS:NZ	2.40	0.51
3:MM:102:ASP:OD1	3:MM:103:GLU:N	2.42	0.51
3:NC:79:SER:O	3:NC:80:CYS:HB3	2.09	0.51
3:NJ:34:SER:C	3:NJ:35:LEU:HD12	2.30	0.51
1:A:97:G:C2'	3:MJ:57:ARG:HE	2.24	0.51
1:A:1171:G:HO2'	1:A:1172:U:P	2.34	0.51
1:A:1273:A:H2'	1:A:1274:A:C8	2.45	0.51
1:A:1491:A:H2'	1:A:1492:C:C6	2.44	0.51
1:A:1562:C:H2'	1:A:1563:G:C8	2.46	0.51
1:A:1694:C:C2	1:A:1695:G:C8	2.98	0.51
1:A:1767:G:OP1	1:A:1808:G:C4	2.63	0.51
1:A:2053:A:N6	1:A:2111:G:C2	2.78	0.51
1:A:2159:U:OP1	3:HE:60:LYS:NZ	2.42	0.51
1:A:2286:A:N1	1:A:2287:A:N6	2.53	0.51
1:A:2480:G:C8	1:A:2658:U:O2'	2.63	0.51
1:A:2803:A:C2	1:A:2823:G:C6	2.99	0.51
1:A:3359:U:N3	1:A:3360:G:O6	2.44	0.51
1:A:3799:A:OP2	3:KL:29:THR:OG1	2.19	0.51
1:A:3932:U:H4'	1:A:3933:A:C8	2.45	0.51
1:A:3934:G:H2'	1:A:3935:G:H8	1.75	0.51
2:M:14:GLU:N	2:M:14:GLU:OE1	2.43	0.51
3:BA:114:ALA:CB	3:MK:8:LEU:HD22	2.40	0.51
3:BB:64:VAL:HG11	3:MA:125:ILE:CD1	2.40	0.51
3:BG:18:THR:O	3:BG:19:LEU:HD22	2.11	0.51
3:BH:6:VAL:HG12	3:BH:8:LEU:HD22	1.92	0.51
3:DF:48:VAL:HG13	3:DF:68:ILE:CD1	2.41	0.51
3:DK:102:ASP:N	3:DK:102:ASP:OD1	2.44	0.51
3:EF:105:ARG:NE	3:FA:128:LEU:HD11	2.26	0.51
3:EH:41:VAL:O	3:EH:45:GLU:OE1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EI:125:ILE:HG13	3:GA:109:ARG:HH11	1.75	0.51
3:EM:61:ASN:HA	3:EM:96:PHE:O	2.10	0.51
3:FB:13:LYS:HD3	3:LJ:103:GLU:OE2	2.11	0.51
3:FB:52:VAL:HG13	3:FB:64:VAL:HG22	1.93	0.51
3:FC:96:PHE:CE1	3:FC:105:ARG:HG2	2.46	0.51
3:FE:55:PRO:HD3	3:FE:62:TYR:CE1	2.46	0.51
3:FE:119:PRO:O	3:FE:122:ILE:HG12	2.10	0.51
3:FH:56:SER:O	3:FH:59:ARG:O	2.29	0.51
3:FJ:13:LYS:NZ	3:HF:103:GLU:N	2.59	0.51
3:FL:33:ALA:HB3	3:FL:50:VAL:CG1	2.40	0.51
3:GD:126:ASP:N	3:KF:109:ARG:NH2	2.58	0.51
3:GK:19:LEU:HD21	3:JA:107:PHE:CE1	2.46	0.51
3:HL:6:VAL:HG12	3:HL:8:LEU:HD21	1.91	0.51
3:IF:64:VAL:HG11	3:NI:125:ILE:CD1	2.37	0.51
3:IG:99:TYR:CD1	3:IH:81:ASP:OD1	2.63	0.51
3:IH:37:GLN:C	3:IH:45:GLU:OE2	2.49	0.51
3:IJ:107:PHE:CZ	3:NE:19:LEU:HD21	2.45	0.51
3:IK:11:ILE:HG22	3:IK:17:GLN:C	2.31	0.51
3:IL:125:ILE:O	3:IL:128:LEU:HD12	2.10	0.51
3:IM:3:LEU:CD1	3:IM:35:LEU:HD21	2.40	0.51
3:JF:5:THR:HG23	3:JF:22:ASN:OD1	2.10	0.51
3:JG:54:GLN:O	3:JG:59:ARG:NH1	2.44	0.51
3:KH:64:VAL:HG11	3:KL:125:ILE:HD11	1.93	0.51
3:KJ:5:THR:HG23	3:KJ:5:THR:O	2.10	0.51
3:KM:100:SER:CA	3:MF:86:ARG:HH22	2.24	0.51
3:LA:3:LEU:HD22	3:MD:131:ALA:HB1	1.90	0.51
3:LD:21:LEU:HD12	3:LD:21:LEU:N	2.25	0.51
3:LD:125:ILE:HG23	3:LD:126:ASP:N	2.25	0.51
3:LE:102:ASP:OD1	3:LE:103:GLU:N	2.42	0.51
3:LE:118:SER:O	3:LE:122:ILE:HG13	2.10	0.51
3:LG:109:ARG:CG	3:MG:116:LEU:HD11	2.41	0.51
3:LH:101:THR:HG23	3:LH:104:GLU:H	1.75	0.51
3:MB:68:ILE:CG1	3:MB:90:ALA:HB3	2.41	0.51
3:NA:49:THR:OG1	3:NA:67:LYS:HB2	2.10	0.51
3:NA:108:VAL:O	3:NA:111:GLU:HB2	2.10	0.51
3:NH:65:GLN:OE1	3:NH:67:LYS:HG3	2.10	0.51
3:NI:119:PRO:HA	3:NI:122:ILE:HD12	1.91	0.51
1:A:387:G:C5	1:A:388:A:C5	2.99	0.51
1:A:446:C:N4	3:MM:57:ARG:HD3	2.26	0.51
1:A:536:A:O2'	1:A:537:A:O4'	2.23	0.51
1:A:937:C:O2'	3:HL:57:ARG:NH1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1095:A:C2	1:A:1189:G:C4	2.98	0.51
1:A:1457:A:C5	3:EK:57:ARG:NH2	2.79	0.51
1:A:1488:G:H2'	1:A:1489:U:C6	2.46	0.51
1:A:1497:U:O2'	1:A:1498:C:OP1	2.20	0.51
1:A:1794:A:N1	3:JB:57:ARG:NE	2.58	0.51
1:A:1841:C:H2'	1:A:1842:U:C5	2.45	0.51
1:A:2123:U:O2'	1:A:2125:G:N7	2.43	0.51
1:A:2621:U:H2'	1:A:2622:G:O4'	2.10	0.51
1:A:2633:G:C6	1:A:2637:U:O2	2.64	0.51
1:A:2673:G:O2'	1:A:2674:C:OP1	2.26	0.51
1:A:2771:A:C4	1:A:2772:G:C8	2.99	0.51
1:A:3105:A:H3'	1:A:3106:A:H8	1.76	0.51
1:A:4202:G:H1'	1:A:4203:C:O4'	2.10	0.51
3:BF:91:ASP:O	3:BF:91:ASP:OD1	2.29	0.51
3:BH:54:GLN:HB3	3:BH:55:PRO:CD	2.40	0.51
3:BH:110:THR:OG1	3:IL:11:ILE:HD12	2.11	0.51
3:BL:92:VAL:HG21	3:CG:112:LEU:HD11	1.93	0.51
3:CB:68:ILE:HD11	3:HC:115:LEU:CD1	2.41	0.51
3:CG:74:CYS:SG	3:CG:85:THR:HG21	2.50	0.51
3:CI:109:ARG:CZ	3:DI:122:ILE:HG22	2.41	0.51
3:CJ:111:GLU:O	3:CJ:115:LEU:HD13	2.11	0.51
3:CK:86:ARG:NH2	3:NC:100:SER:N	2.59	0.51
3:CK:99:TYR:OH	3:CL:84:VAL:HG22	2.10	0.51
3:CL:41:VAL:O	3:CL:41:VAL:HG13	2.10	0.51
3:CL:52:VAL:HG23	3:HH:130:PRO:HG3	1.93	0.51
3:DF:44:LEU:O	3:DF:44:LEU:HD12	2.09	0.51
3:EA:27:ASN:O	3:EA:31:GLY:N	2.43	0.51
3:EA:109:ARG:NH2	3:LM:126:ASP:OD2	2.37	0.51
3:ED:97:THR:O	3:ED:100:SER:OG	2.18	0.51
3:EI:33:ALA:HB3	3:EI:50:VAL:CG2	2.41	0.51
3:FD:99:TYR:O	3:LH:86:ARG:NH1	2.32	0.51
3:FE:104:GLU:OE2	3:KI:86:ARG:HD3	2.10	0.51
3:FI:75:THR:O	3:KF:79:SER:HA	2.10	0.51
3:FK:101:THR:O	3:FK:104:GLU:HG2	2.11	0.51
3:GA:79:SER:OG	3:GA:81:ASP:OD1	2.29	0.51
3:GB:119:PRO:O	3:GB:122:ILE:HG12	2.10	0.51
3:GG:53:SER:OG	3:GG:59:ARG:NH2	2.43	0.51
3:GI:8:LEU:HD22	3:JC:114:ALA:CB	2.41	0.51
3:GI:11:ILE:CG2	3:GI:17:GLN:HB2	2.41	0.51
3:GK:80:CYS:HB3	3:GN:74:CYS:HA	1.93	0.51
3:GL:3:LEU:HD12	3:GL:35:LEU:HD11	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HG:6:VAL:HG12	3:HG:8:LEU:CD2	2.41	0.51
3:ID:79:SER:O	3:ID:80:CYS:HB3	2.10	0.51
3:IH:105:ARG:CD	3:NG:128:LEU:HD11	2.40	0.51
3:IJ:61:ASN:ND2	3:IJ:96:PHE:O	2.44	0.51
3:IJ:122:ILE:HA	3:NE:109:ARG:HH12	1.76	0.51
3:JG:94:PHE:CD2	3:LD:125:ILE:CD1	2.90	0.51
3:JK:27:ASN:OD1	3:JK:29:THR:N	2.44	0.51
3:KJ:29:THR:OG1	3:KJ:30:ASN:N	2.43	0.51
3:KK:86:ARG:HH22	3:MH:97:THR:HG23	1.75	0.51
3:LD:79:SER:O	3:LD:80:CYS:HB3	2.11	0.51
3:LG:62:TYR:CD2	3:MG:128:LEU:HD22	2.46	0.51
3:MK:91:ASP:OD1	3:MK:91:ASP:O	2.29	0.51
3:ML:18:THR:C	3:ML:19:LEU:HD12	2.31	0.51
3:ML:97:THR:N	3:ML:100:SER:OG	2.44	0.51
1:A:1034:U:C1’	3:IJ:57:ARG:HD3	2.41	0.51
1:A:2289:A:H2’	1:A:2290:C:C6	2.45	0.51
1:A:2633:G:OP2	1:A:2634:A:C6	2.64	0.51
1:A:2686:G:C2	1:A:2765:A:N7	2.79	0.51
1:A:3246:C:C2	1:A:3252:G:C2	2.99	0.51
1:A:3985:U:H2’	1:A:3986:C:C5	2.45	0.51
1:A:4031:C:N4	1:A:4032:G:O6	2.43	0.51
3:D:48:VAL:HG13	3:D:68:ILE:CG1	2.41	0.51
3:BC:29:THR:OG1	3:BC:30:ASN:N	2.44	0.51
3:BH:24:ARG:HH21	3:IA:129:ASN:CG	2.14	0.51
3:BL:103:GLU:HA	3:CG:13:LYS:NZ	2.26	0.51
3:CK:86:ARG:NH2	3:NC:97:THR:HG23	2.24	0.51
3:DA:11:ILE:HD11	3:MM:111:GLU:N	2.26	0.51
3:DH:37:GLN:CA	3:DH:45:GLU:OE2	2.59	0.51
3:DN:23:PRO:HA	3:DN:35:LEU:HG	1.92	0.51
3:EB:115:LEU:HD22	3:MJ:8:LEU:HD11	1.93	0.51
3:EE:99:TYR:OH	3:EF:83:SER:HA	2.11	0.51
3:EH:47:ARG:CZ	3:EH:69:GLN:OE1	2.59	0.51
3:EK:61:ASN:OD1	3:EK:96:PHE:O	2.28	0.51
3:EK:125:ILE:HD13	3:FM:94:PHE:CE1	2.46	0.51
3:EL:32:VAL:HG12	3:EL:51:SER:HB3	1.93	0.51
3:GE:128:LEU:HD11	3:HE:105:ARG:NE	2.26	0.51
3:GH:22:ASN:OD1	3:GH:23:PRO:HD2	2.11	0.51
3:GI:56:SER:H	3:GI:60:LYS:HA	1.76	0.51
3:GI:130:PRO:HA	3:JC:52:VAL:HG22	1.93	0.51
3:GJ:57:ARG:HD2	3:GJ:57:ARG:N	2.24	0.51
3:HB:131:ALA:O	3:HB:132:TYR:HD1	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HG:116:LEU:HD23	3:HG:116:LEU:O	2.10	0.51
3:HL:121:LEU:HA	3:HL:124:ALA:HB3	1.93	0.51
3:IG:94:PHE:HD1	3:JJ:125:ILE:HD12	1.76	0.51
3:IG:111:GLU:OE2	3:IG:111:GLU:HA	2.11	0.51
3:JF:103:GLU:OE1	3:KA:13:LYS:HE2	2.11	0.51
3:KI:97:THR:N	3:KI:100:SER:OG	2.43	0.51
3:LA:79:SER:O	3:LA:80:CYS:HB3	2.11	0.51
3:LG:8:LEU:HD22	3:MG:114:ALA:HB1	1.93	0.51
3:LI:99:TYR:CE2	3:LJ:83:SER:HA	2.46	0.51
3:MA:68:ILE:CG2	3:MA:90:ALA:HB3	2.41	0.51
3:MA:84:VAL:O	3:MA:84:VAL:HG23	2.11	0.51
3:MC:8:LEU:HD12	3:MC:8:LEU:N	2.26	0.51
3:MI:60:LYS:NZ	3:MI:98:GLN:HB2	2.25	0.51
3:MJ:27:ASN:OD1	3:MJ:29:THR:N	2.43	0.51
3:ML:11:ILE:HG23	3:ML:17:GLN:HB2	1.93	0.51
3:NE:59:ARG:C	3:NE:60:LYS:HD3	2.31	0.51
3:NH:119:PRO:HA	3:NH:122:ILE:CG2	2.41	0.51
1:A:41:C:O2'	1:A:521:G:N3	2.43	0.51
1:A:1014:C:H1'	1:A:3197:A:O2'	2.11	0.51
1:A:1120:C:N4	1:A:1121:G:O6	2.44	0.51
1:A:1534:A:C6	1:A:1535:G:O6	2.64	0.51
1:A:1784:C:H1'	1:A:1810:U:H2'	1.93	0.51
1:A:2046:G:H1	3:GG:59:ARG:HH11	1.58	0.51
1:A:2633:G:C8	1:A:2634:A:N3	2.79	0.51
1:A:2712:U:H2'	1:A:2713:U:O4'	2.11	0.51
1:A:2765:A:O2'	1:A:2766:A:P	2.68	0.51
1:A:2865:A:OP2	1:A:2866:A:N6	2.33	0.51
1:A:3093:G:H2'	1:A:3094:G:C1'	2.41	0.51
1:A:3132:G:H2'	1:A:3133:C:O4'	2.11	0.51
1:A:3234:U:O4	1:A:3235:G:O6	2.29	0.51
1:A:3305:G:N1	1:A:3314:U:O4	2.41	0.51
1:A:3923:G:N3	1:A:4163:A:H1'	2.25	0.51
1:A:3949:G:C6	1:A:4049:G:C2	2.99	0.51
2:M:279:ASN:OD1	2:M:281:GLU:N	2.43	0.51
3:BE:23:PRO:HA	3:BE:35:LEU:HD13	1.93	0.51
3:BG:8:LEU:CD1	3:IA:115:LEU:HD22	2.41	0.51
3:BI:22:ASN:OD1	3:BI:23:PRO:HD2	2.11	0.51
3:BL:81:ASP:N	3:BL:81:ASP:OD2	2.44	0.51
3:BM:111:GLU:N	3:DJ:11:ILE:HD11	2.26	0.51
3:BN:103:GLU:HA	3:BN:103:GLU:OE1	2.10	0.51
3:CL:11:ILE:CG2	3:CL:17:GLN:HB2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:121:LEU:O	3:DB:125:ILE:HG22	2.11	0.51
3:DC:11:ILE:HG23	3:EN:110:THR:OG1	2.10	0.51
3:DF:20:VAL:C	3:DF:21:LEU:HD22	2.32	0.51
3:DK:52:VAL:O	3:DK:52:VAL:HG13	2.11	0.51
3:ED:8:LEU:HD11	3:EH:114:ALA:CB	2.41	0.51
3:EE:26:VAL:O	3:FA:132:TYR:OH	2.28	0.51
3:EF:23:PRO:HA	3:EF:35:LEU:HD12	1.93	0.51
3:EF:45:GLU:OE1	3:EF:45:GLU:N	2.44	0.51
3:EG:26:VAL:O	3:EG:28:PRO:CD	2.59	0.51
3:EG:26:VAL:O	3:EG:28:PRO:HD3	2.11	0.51
3:EH:47:ARG:NH2	3:EH:69:GLN:OE1	2.44	0.51
3:EI:122:ILE:O	3:EI:126:ASP:HB2	2.11	0.51
3:EM:119:PRO:HA	3:EM:122:ILE:HG12	1.93	0.51
3:FC:105:ARG:NE	3:GB:126:ASP:O	2.35	0.51
3:FF:48:VAL:HG13	3:FF:68:ILE:CD1	2.41	0.51
3:FH:55:PRO:CG	3:FH:62:TYR:CE2	2.93	0.51
3:FL:74:CYS:SG	3:FL:85:THR:HG21	2.50	0.51
3:GL:11:ILE:HD11	3:HG:111:GLU:N	2.25	0.51
3:GL:54:GLN:HB3	3:GL:55:PRO:HD3	1.92	0.51
3:GL:120:LEU:HD23	3:GL:121:LEU:N	2.26	0.51
3:HB:18:THR:O	3:HB:19:LEU:HD22	2.11	0.51
3:HD:108:VAL:O	3:HD:112:LEU:HD23	2.11	0.51
3:HN:32:VAL:HG22	3:HN:51:SER:OG	2.10	0.51
3:IG:122:ILE:CD1	3:JJ:109:ARG:NH2	2.74	0.51
3:IL:119:PRO:HA	3:IL:122:ILE:HG12	1.93	0.51
3:JF:11:ILE:HD12	3:KA:110:THR:OG1	2.11	0.51
3:JI:105:ARG:HD3	3:LB:128:LEU:HD11	1.91	0.51
3:JK:127:GLN:O	3:LA:24:ARG:NH2	2.43	0.51
3:KE:34:SER:HB3	3:KE:47:ARG:NH2	2.26	0.51
3:KM:132:TYR:CE1	3:ME:28:PRO:HB3	2.46	0.51
3:LH:119:PRO:HA	3:LH:122:ILE:HD12	1.93	0.51
3:MC:121:LEU:HA	3:MC:124:ALA:HB3	1.92	0.51
3:MI:81:ASP:O	3:MI:83:SER:N	2.43	0.51
1:A:9:C:H5'	3:CH:58:ASN:O	2.11	0.50
1:A:315:G:H2'	1:A:316:U:O4'	2.11	0.50
1:A:366:U:C2'	1:A:816:U:HO2'	2.18	0.50
1:A:1055:U:H2'	1:A:1056:U:O4'	2.10	0.50
1:A:2649:G:N2	3:EI:29:THR:HG23	2.25	0.50
1:A:2925:G:H2'	1:A:2926:C:O4'	2.11	0.50
1:A:3144:U:O2	1:A:3145:C:N4	2.36	0.50
1:A:3295:U:C2	1:A:3296:U:C5	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4154:G:C5	1:A:4155:A:N7	2.79	0.50
1:A:4191:G:C2	1:A:4193:A:C8	2.99	0.50
3:B:8:LEU:CD2	3:D:111:GLU:OE2	2.59	0.50
3:B:112:LEU:HD22	3:D:68:ILE:HD13	1.93	0.50
3:BB:116:LEU:O	3:MA:109:ARG:HD2	2.11	0.50
3:BC:55:PRO:HA	3:BC:60:LYS:O	2.10	0.50
3:BJ:11:ILE:HD12	3:BN:110:THR:HB	1.92	0.50
3:CC:26:VAL:HG12	3:HC:132:TYR:CD2	2.45	0.50
3:CD:21:LEU:HD21	3:CD:48:VAL:HG11	1.93	0.50
3:CF:122:ILE:HD13	3:GM:109:ARG:NH1	2.26	0.50
3:CH:119:PRO:HA	3:CH:122:ILE:HG12	1.92	0.50
3:CJ:55:PRO:HB3	3:CJ:60:LYS:HG3	1.92	0.50
3:CJ:118:SER:O	3:CJ:122:ILE:HG12	2.11	0.50
3:CL:75:THR:O	3:HI:79:SER:HA	2.11	0.50
3:CM:92:VAL:CG2	3:NA:92:VAL:HG22	2.31	0.50
3:CN:44:LEU:HD12	3:CN:44:LEU:O	2.11	0.50
3:CN:55:PRO:HD3	3:CN:62:TYR:CE1	2.46	0.50
3:DB:52:VAL:HG12	3:DB:64:VAL:CG2	2.33	0.50
3:DC:119:PRO:HA	3:DC:122:ILE:HG12	1.93	0.50
3:DJ:109:ARG:CG	3:DJ:110:THR:N	2.74	0.50
3:ED:128:LEU:HD23	3:EH:62:TYR:CD2	2.46	0.50
3:EI:19:LEU:HD21	3:GA:107:PHE:CE1	2.46	0.50
3:EI:132:TYR:CA	3:GA:3:LEU:HD23	2.41	0.50
3:EK:75:THR:O	3:FN:79:SER:HA	2.11	0.50
3:FI:103:GLU:CB	3:KE:13:LYS:HZ2	2.24	0.50
3:FK:119:PRO:HD2	3:FK:120:LEU:H	1.76	0.50
3:GD:21:LEU:HD11	3:GD:48:VAL:HG21	1.92	0.50
3:GD:57:ARG:NH1	3:GD:58:ASN:HB3	2.25	0.50
3:GF:11:ILE:HD11	3:KD:111:GLU:N	2.26	0.50
3:GJ:81:ASP:OD1	3:GJ:81:ASP:N	2.44	0.50
3:GJ:116:LEU:HD11	3:GN:112:LEU:HD23	1.93	0.50
3:GK:102:ASP:OD1	3:JA:126:ASP:O	2.29	0.50
3:HE:98:GLN:HE21	3:HF:43:ALA:CA	2.24	0.50
3:HF:102:ASP:OD1	3:HF:103:GLU:N	2.44	0.50
3:HK:56:SER:OG	3:HK:57:ARG:N	2.43	0.50
3:IC:60:LYS:N	3:IC:61:ASN:HB3	2.24	0.50
3:ID:97:THR:O	3:ID:100:SER:OG	2.29	0.50
3:IH:3:LEU:HD23	3:NG:132:TYR:CA	2.40	0.50
3:IH:55:PRO:HG3	3:IH:62:TYR:CE1	2.46	0.50
3:IJ:130:PRO:HA	3:NE:52:VAL:HG22	1.93	0.50
3:IM:132:TYR:CZ	3:KA:2:LYS:HE3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:72:THR:HB	3:JB:86:ARG:HB2	1.92	0.50
3:JC:52:VAL:CG1	3:JC:64:VAL:HG22	2.36	0.50
3:JN:37:GLN:CA	3:JN:45:GLU:OE2	2.58	0.50
3:KG:59:ARG:HG3	3:KG:61:ASN:HB2	1.93	0.50
3:LI:61:ASN:HA	3:LI:96:PHE:O	2.11	0.50
3:LI:99:TYR:OH	3:LJ:84:VAL:N	2.37	0.50
3:MF:17:GLN:N	3:MF:17:GLN:OE1	2.45	0.50
1:A:1856:U:O2	1:A:2192:U:N3	2.43	0.50
1:A:2417:A:N3	1:A:4084:U:O2'	2.43	0.50
1:A:2445:U:H2'	1:A:2446:C:O4'	2.11	0.50
1:A:2612:U:O2	1:A:2613:A:C8	2.64	0.50
1:A:3307:A:OP2	3:JG:61:ASN:ND2	2.44	0.50
1:A:3666:U:OP2	3:LH:59:ARG:NH1	2.45	0.50
1:A:3999:C:H2'	1:A:4000:C:N1	2.26	0.50
1:A:4057:G:H2'	1:A:4058:C:C1'	2.41	0.50
3:BE:18:THR:O	3:BE:19:LEU:HD22	2.11	0.50
3:BH:24:ARG:HB3	3:BH:34:SER:O	2.11	0.50
3:BL:11:ILE:HG23	3:BL:17:GLN:HB2	1.92	0.50
3:CC:122:ILE:O	3:DF:109:ARG:NH2	2.44	0.50
3:CG:24:ARG:HB2	3:CG:34:SER:O	2.12	0.50
3:DC:48:VAL:HG11	3:EN:115:LEU:HD13	1.93	0.50
3:DC:111:GLU:HA	3:EN:8:LEU:HD21	1.93	0.50
3:DG:11:ILE:HD12	3:EJ:110:THR:CB	2.41	0.50
3:DK:125:ILE:HG23	3:DK:126:ASP:H	1.76	0.50
3:EG:32:VAL:HG22	3:EG:51:SER:OG	2.11	0.50
3:EI:109:ARG:CG	3:EI:110:THR:N	2.73	0.50
3:EK:49:THR:OG1	3:EK:67:LYS:HB2	2.11	0.50
3:FD:12:GLY:H	3:LH:110:THR:HG21	1.74	0.50
3:FE:61:ASN:HA	3:FE:97:THR:HA	1.93	0.50
3:FH:45:GLU:HB3	3:FH:71:PRO:HG2	1.93	0.50
3:FL:110:THR:CB	3:HD:11:ILE:HD12	2.40	0.50
3:GD:6:VAL:HG12	3:GD:8:LEU:HD22	1.93	0.50
3:GD:11:ILE:CG2	3:GD:17:GLN:HB2	2.41	0.50
3:GG:128:LEU:HD23	3:JE:62:TYR:HD2	1.76	0.50
3:GM:60:LYS:HB3	3:GM:61:ASN:HB2	1.93	0.50
3:HC:14:ASP:OD1	3:HC:14:ASP:N	2.43	0.50
3:HI:86:ARG:NH1	3:II:99:TYR:O	2.44	0.50
3:IB:55:PRO:HA	3:IB:60:LYS:O	2.11	0.50
3:IB:111:GLU:O	3:IB:115:LEU:HD23	2.11	0.50
3:IC:84:VAL:O	3:IC:84:VAL:HG13	2.10	0.50
3:IE:11:ILE:HD12	3:JL:110:THR:HB	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IG:97:THR:HG23	3:IG:100:SER:N	2.26	0.50
3:IG:116:LEU:HA	3:IG:121:LEU:HD12	1.91	0.50
3:II:98:GLN:HE22	3:IJ:43:ALA:HA	1.76	0.50
3:IM:11:ILE:HD12	3:JM:110:THR:HB	1.93	0.50
3:IN:102:ASP:OD1	3:IN:102:ASP:N	2.39	0.50
3:JC:102:ASP:OD1	3:JC:103:GLU:N	2.45	0.50
3:JE:49:THR:OG1	3:JE:67:LYS:HB2	2.12	0.50
3:JH:5:THR:HG23	3:JH:22:ASN:OD1	2.11	0.50
3:JJ:109:ARG:HG3	3:JJ:110:THR:N	2.26	0.50
3:JK:110:THR:CB	3:KN:11:ILE:HD12	2.41	0.50
3:JL:4:GLU:O	3:JL:6:VAL:HG23	2.10	0.50
3:KB:18:THR:C	3:KB:19:LEU:HD22	2.32	0.50
3:KH:125:ILE:HD12	3:KL:94:PHE:CD2	2.45	0.50
3:KK:52:VAL:HG12	3:KK:64:VAL:HG13	1.93	0.50
3:KL:41:VAL:O	3:KL:41:VAL:HG13	2.11	0.50
3:LC:119:PRO:HA	3:LC:122:ILE:HG12	1.93	0.50
3:MG:55:PRO:HG3	3:MG:62:TYR:CE1	2.45	0.50
3:MH:11:ILE:HG23	3:MH:17:GLN:CG	2.41	0.50
3:NH:54:GLN:HB3	3:NH:55:PRO:CD	2.40	0.50
1:A:805:G:N2	1:A:808:U:O4	2.45	0.50
1:A:2249:C:H2'	1:A:2250:G:N7	2.27	0.50
1:A:2680:U:OP1	3:DE:59:ARG:CZ	2.58	0.50
1:A:3537:U:H2'	1:A:3538:C:H6	1.76	0.50
1:A:3626:U:C2	1:A:3634:A:N1	2.80	0.50
3:BD:87:GLN:N	3:BD:87:GLN:OE1	2.44	0.50
3:BF:129:ASN:OD1	3:IL:25:GLY:N	2.44	0.50
3:BH:24:ARG:NH2	3:IA:127:GLN:O	2.39	0.50
3:BK:102:ASP:OD1	3:BK:103:GLU:N	2.44	0.50
3:CA:55:PRO:HG3	3:CA:62:TYR:HE1	1.77	0.50
3:CA:131:ALA:HB1	3:DH:3:LEU:CD2	2.39	0.50
3:CB:81:ASP:OD2	3:CD:99:TYR:CE1	2.65	0.50
3:CC:52:VAL:O	3:CC:52:VAL:HG13	2.11	0.50
3:CD:23:PRO:HA	3:CD:35:LEU:HG	1.94	0.50
3:CH:128:LEU:HD11	3:HL:105:ARG:NE	2.26	0.50
3:CI:74:CYS:HA	3:DJ:80:CYS:HB3	1.92	0.50
3:CN:13:LYS:HE2	3:DD:103:GLU:HG2	1.93	0.50
3:DA:48:VAL:HG13	3:DA:68:ILE:CD1	2.41	0.50
3:DD:11:ILE:HG23	3:DD:17:GLN:HB2	1.93	0.50
3:DG:106:ALA:HA	3:DG:109:ARG:HE	1.76	0.50
3:DI:48:VAL:HG22	3:DI:68:ILE:HD12	1.94	0.50
3:DL:105:ARG:CZ	3:MN:128:LEU:HD11	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:11:ILE:CG1	3:LK:111:GLU:OE1	2.59	0.50
3:EE:28:PRO:HB3	3:FA:132:TYR:CZ	2.46	0.50
3:FE:132:TYR:O	3:KI:2:LYS:HD3	2.10	0.50
3:FM:97:THR:O	3:FM:100:SER:OG	2.21	0.50
3:FN:102:ASP:OD1	3:FN:103:GLU:OE1	2.28	0.50
3:GD:30:ASN:OD1	3:GD:32:VAL:HG23	2.11	0.50
3:GJ:52:VAL:HG21	3:GN:130:PRO:HA	1.93	0.50
3:GK:50:VAL:HG21	3:JA:120:LEU:HD21	1.92	0.50
3:HA:37:GLN:O	3:HA:45:GLU:HG2	2.12	0.50
3:HF:46:LYS:HG2	3:HF:70:ASN:OD1	2.12	0.50
3:IA:30:ASN:OD1	3:IA:32:VAL:N	2.45	0.50
3:ID:43:ALA:O	3:ID:44:LEU:HD12	2.10	0.50
3:IJ:11:ILE:HG23	3:IJ:17:GLN:HB2	1.91	0.50
3:IJ:118:SER:O	3:IJ:122:ILE:HG12	2.10	0.50
3:IL:22:ASN:OD1	3:IL:23:PRO:HD2	2.10	0.50
3:JD:48:VAL:HG22	3:JD:68:ILE:HD13	1.93	0.50
3:JK:64:VAL:HG21	3:KN:125:ILE:HD12	1.93	0.50
3:JL:24:ARG:HB2	3:JL:34:SER:OG	2.11	0.50
3:KK:56:SER:O	3:KK:59:ARG:O	2.29	0.50
3:KK:102:ASP:OD2	3:MH:13:LYS:HE2	2.11	0.50
3:KM:74:CYS:SG	3:KM:85:THR:HG21	2.51	0.50
3:LA:44:LEU:HD11	3:LA:82:PRO:HB2	1.93	0.50
3:LM:23:PRO:HA	3:LM:35:LEU:HD13	1.93	0.50
3:MC:108:VAL:O	3:MC:111:GLU:HG3	2.11	0.50
3:MD:41:VAL:N	3:MD:42:PRO:CD	2.75	0.50
3:MJ:101:THR:O	3:MJ:104:GLU:HG2	2.11	0.50
3:MM:27:ASN:O	3:MM:31:GLY:N	2.45	0.50
3:MM:32:VAL:HG22	3:MM:51:SER:OG	2.10	0.50
3:NB:55:PRO:HG3	3:NB:62:TYR:CE2	2.45	0.50
1:A:761:G:H2'	1:A:762:C:C6	2.47	0.50
1:A:1397:A:H2'	1:A:1398:A:C8	2.46	0.50
1:A:1464:G:OP1	3:EL:57:ARG:NH1	2.44	0.50
1:A:2332:A:O3'	3:CB:59:ARG:NH1	2.44	0.50
1:A:2489:U:C5	1:A:2491:A:O2'	2.65	0.50
1:A:2921:C:C5'	3:FN:47:ARG:HH12	2.24	0.50
1:A:2925:G:O4'	3:FM:57:ARG:NE	2.44	0.50
1:A:3545:C:N4	3:KF:89:TYR:CD2	2.79	0.50
1:A:3794:C:O3'	1:A:3795:G:O4'	2.29	0.50
1:A:3927:C:OP1	3:FG:93:THR:OG1	2.29	0.50
3:BF:81:ASP:O	3:BF:83:SER:N	2.44	0.50
3:BK:7:THR:C	3:BK:8:LEU:HD22	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BN:86:ARG:CZ	3:BN:86:ARG:HB3	2.41	0.50
3:BN:118:SER:O	3:BN:122:ILE:HG12	2.12	0.50
3:CA:64:VAL:HG11	3:DH:125:ILE:HD11	1.92	0.50
3:CB:27:ASN:CG	3:CB:29:THR:HG1	2.11	0.50
3:CK:86:ARG:NH2	3:NC:100:SER:CA	2.74	0.50
3:CK:131:ALA:O	3:CK:132:TYR:HD1	1.95	0.50
3:CM:27:ASN:OD1	3:CM:30:ASN:N	2.45	0.50
3:CN:8:LEU:HD12	3:DD:114:ALA:HB1	1.93	0.50
3:DJ:129:ASN:OD1	3:DJ:130:PRO:HD2	2.11	0.50
3:EF:111:GLU:HA	3:FA:8:LEU:HD21	1.91	0.50
3:EJ:34:SER:O	3:EJ:35:LEU:HD22	2.11	0.50
3:EL:119:PRO:HA	3:EL:122:ILE:HD12	1.94	0.50
3:FB:115:LEU:CG	3:LJ:8:LEU:HD11	2.42	0.50
3:GD:41:VAL:N	3:GD:42:PRO:HD2	2.26	0.50
3:GD:49:THR:OG1	3:GD:67:LYS:HB3	2.10	0.50
3:GE:98:GLN:NE2	3:GF:43:ALA:HA	2.26	0.50
3:GE:118:SER:OG	3:GE:119:PRO:HD2	2.12	0.50
3:GG:3:LEU:HD13	3:GG:23:PRO:HB2	1.93	0.50
3:HC:55:PRO:HD3	3:HC:62:TYR:CE1	2.46	0.50
3:HE:44:LEU:HD22	3:HG:98:GLN:O	2.11	0.50
3:HJ:24:ARG:HB2	3:HJ:34:SER:OG	2.11	0.50
3:IB:8:LEU:CD2	3:IK:114:ALA:HB1	2.42	0.50
3:IC:110:THR:HB	3:JN:11:ILE:HD12	1.93	0.50
3:IC:132:TYR:OH	3:JN:26:VAL:CG1	2.59	0.50
3:IH:54:GLN:HB3	3:IH:55:PRO:CD	2.42	0.50
3:JB:32:VAL:HG22	3:JB:51:SER:OG	2.10	0.50
3:JC:34:SER:O	3:JC:35:LEU:HD12	2.10	0.50
3:JE:32:VAL:CG2	3:JE:51:SER:OG	2.60	0.50
3:JI:130:PRO:HD2	3:KN:25:GLY:N	2.26	0.50
3:KK:131:ALA:O	3:KK:132:TYR:HD1	1.94	0.50
3:KL:119:PRO:HA	3:KL:122:ILE:HD12	1.93	0.50
3:KM:127:GLN:HA	3:MF:105:ARG:HH12	1.77	0.50
3:LA:46:LYS:HE3	3:LA:70:ASN:OD1	2.10	0.50
3:LG:90:ALA:HB1	3:MG:94:PHE:CE2	2.46	0.50
3:LJ:24:ARG:NE	3:LJ:24:ARG:CA	2.74	0.50
3:LJ:46:LYS:HD2	3:LJ:70:ASN:OD1	2.11	0.50
3:MA:54:GLN:HB3	3:MA:55:PRO:CD	2.40	0.50
3:MI:32:VAL:HG12	3:MI:51:SER:CB	2.41	0.50
3:NE:52:VAL:HG12	3:NE:64:VAL:HG22	1.93	0.50
1:A:1305:C:OP1	3:CF:57:ARG:NE	2.40	0.50
1:A:1560:A:H2'	1:A:1561:C:C5	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2247:A:H2'	1:A:2248:G:O4'	2.11	0.50
1:A:2335:A:H2'	1:A:2336:A:C5'	2.42	0.50
1:A:3125:G:H2'	1:A:3126:C:O4'	2.11	0.50
1:A:3402:U:C2	1:A:3946:G:N1	2.80	0.50
1:A:3403:C:N4	1:A:3945:G:C6	2.79	0.50
1:A:3557:U:O2'	1:A:3558:U:P	2.70	0.50
1:A:3734:U:H2'	1:A:3735:A:C1'	2.42	0.50
1:A:3922:G:HO2'	1:A:3923:G:P	2.34	0.50
1:A:4201:U:OP2	2:M:353:ARG:NH1	2.44	0.50
3:BC:13:LYS:CE	3:ND:103:GLU:HA	2.39	0.50
3:BD:44:LEU:HD22	3:BF:98:GLN:O	2.11	0.50
3:BG:120:LEU:HD23	3:BG:120:LEU:C	2.31	0.50
3:BI:132:TYR:HD1	3:HM:26:VAL:HG11	1.76	0.50
3:CA:52:VAL:CG1	3:DH:130:PRO:HA	2.42	0.50
3:CC:128:LEU:HD11	3:DF:105:ARG:CD	2.41	0.50
3:CI:125:ILE:HD13	3:DI:64:VAL:HG11	1.94	0.50
3:CK:114:ALA:CB	3:NC:8:LEU:HD22	2.41	0.50
3:DA:56:SER:OG	3:DA:59:ARG:N	2.45	0.50
3:EC:48:VAL:HG22	3:EC:68:ILE:CD1	2.41	0.50
3:EE:91:ASP:O	3:LI:92:VAL:HA	2.11	0.50
3:EE:114:ALA:HB1	3:LI:8:LEU:HD22	1.92	0.50
3:EG:102:ASP:CG	3:GC:126:ASP:OD1	2.50	0.50
3:EG:126:ASP:OD1	3:GC:102:ASP:O	2.30	0.50
3:EK:102:ASP:OD2	3:FM:13:LYS:NZ	2.31	0.50
3:FG:103:GLU:HA	3:KG:13:LYS:HD2	1.93	0.50
3:FM:61:ASN:HA	3:FM:96:PHE:O	2.11	0.50
3:GC:92:VAL:HG11	3:GC:94:PHE:CZ	2.47	0.50
3:GF:26:VAL:HG22	3:GF:33:ALA:CA	2.42	0.50
3:GH:101:THR:O	3:GH:104:GLU:HG2	2.11	0.50
3:GH:112:LEU:HG	3:KB:116:LEU:HD11	1.92	0.50
3:HG:21:LEU:HB3	3:HG:35:LEU:HB3	1.93	0.50
3:HK:87:GLN:N	3:HK:87:GLN:OE1	2.44	0.50
3:HM:51:SER:O	3:HM:64:VAL:HG13	2.12	0.50
3:IB:27:ASN:OD1	3:IB:29:THR:N	2.34	0.50
3:IE:110:THR:CB	3:JL:11:ILE:HD12	2.41	0.50
3:IE:127:GLN:HB2	3:IE:129:ASN:OD1	2.12	0.50
3:II:44:LEU:HD13	3:IK:98:GLN:NE2	2.26	0.50
3:IL:3:LEU:HD23	3:IL:3:LEU:H	1.75	0.50
3:IL:44:LEU:O	3:IL:44:LEU:HD12	2.11	0.50
3:JG:13:LYS:HZ2	3:LD:103:GLU:HA	1.76	0.50
3:JK:74:CYS:SG	3:LA:79:SER:O	2.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KC:96:PHE:HB3	3:KC:100:SER:OG	2.12	0.50
3:KJ:111:GLU:OE2	3:LE:68:ILE:HD11	2.12	0.50
3:LB:24:ARG:HB2	3:LB:34:SER:OG	2.12	0.50
3:LE:49:THR:O	3:LE:66:VAL:HG13	2.12	0.50
3:LG:8:LEU:HD12	3:MG:111:GLU:OE1	2.12	0.50
3:LG:126:ASP:H	3:MG:109:ARG:NH2	2.09	0.50
3:LJ:49:THR:OG1	3:LJ:67:LYS:HG2	2.11	0.50
3:LN:52:VAL:HG12	3:MI:130:PRO:HA	1.93	0.50
3:LN:121:LEU:HA	3:LN:124:ALA:HB3	1.94	0.50
3:MC:68:ILE:HG22	3:MC:90:ALA:O	2.11	0.50
3:MJ:116:LEU:HD23	3:MJ:116:LEU:C	2.32	0.50
3:MJ:119:PRO:HA	3:MJ:122:ILE:HG12	1.92	0.50
3:NF:11:ILE:CG2	3:NF:17:GLN:HB2	2.42	0.50
3:NF:95:SER:O	3:NF:96:PHE:HD2	1.93	0.50
3:NH:56:SER:O	3:NH:59:ARG:O	2.29	0.50
1:A:1442:U:H2'	1:A:1443:G:C8	2.46	0.50
1:A:1851:G:H1'	1:A:2199:G:O6	2.11	0.50
1:A:1914:A:C2	1:A:1915:A:C5	3.00	0.50
1:A:2158:U:O4	1:A:2164:C:C4	2.64	0.50
1:A:2247:A:C6	3:HE:56:SER:HA	2.46	0.50
1:A:2765:A:H2'	1:A:2766:A:C8	2.46	0.50
1:A:3307:A:P	3:JG:61:ASN:ND2	2.84	0.50
1:A:3344:C:N4	1:A:3345:G:O6	2.45	0.50
1:A:3536:G:C2'	1:A:3537:U:C6	2.94	0.50
3:BB:11:ILE:HD11	3:MA:111:GLU:N	2.26	0.50
3:BG:13:LYS:NZ	3:IA:103:GLU:OE2	2.45	0.50
3:BK:102:ASP:HB2	3:HK:126:ASP:OD1	2.12	0.50
3:CA:132:TYR:CZ	3:DG:28:PRO:HB3	2.46	0.50
3:CB:64:VAL:HG11	3:HC:125:ILE:HD11	1.94	0.50
3:CD:110:THR:HB	3:HA:11:ILE:HD12	1.92	0.50
3:CF:118:SER:O	3:CF:122:ILE:HG12	2.12	0.50
3:CI:74:CYS:SG	3:DJ:79:SER:O	2.70	0.50
3:CM:18:THR:O	3:CM:19:LEU:HD23	2.11	0.50
3:CN:44:LEU:HD22	3:DB:98:GLN:O	2.11	0.50
3:DB:125:ILE:HD12	3:DK:94:PHE:CD1	2.42	0.50
3:DF:11:ILE:CG2	3:DF:17:GLN:HB2	2.42	0.50
3:DM:11:ILE:HD11	3:EM:111:GLU:CA	2.42	0.50
3:EA:13:LYS:NZ	3:LM:103:GLU:HA	2.26	0.50
3:EE:80:CYS:SG	3:EH:85:THR:HG21	2.51	0.50
3:EK:56:SER:O	3:EK:60:LYS:N	2.44	0.50
3:FA:74:CYS:SG	3:FA:74:CYS:O	2.69	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FD:104:GLU:OE1	3:LH:86:ARG:NE	2.40	0.50
3:FE:54:GLN:HB3	3:FE:55:PRO:CD	2.41	0.50
3:FI:96:PHE:HE1	3:KE:88:ALA:HB1	1.73	0.50
3:FL:112:LEU:CD2	3:HD:116:LEU:HD11	2.41	0.50
3:GK:22:ASN:OD1	3:GK:23:PRO:HD2	2.10	0.50
3:GL:102:ASP:C	3:HG:13:LYS:NZ	2.64	0.50
3:GM:101:THR:HG22	3:GN:41:VAL:HG22	1.93	0.50
3:IC:128:LEU:HD12	3:IC:128:LEU:N	2.27	0.50
3:IF:100:SER:N	3:NI:86:ARG:NH2	2.59	0.50
3:JA:97:THR:N	3:JA:100:SER:HG	2.10	0.50
3:JF:13:LYS:NZ	3:KA:103:GLU:HG2	2.26	0.50
3:JG:129:ASN:HA	3:LE:24:ARG:NH2	2.27	0.50
3:JH:11:ILE:HG23	3:JH:17:GLN:HB3	1.94	0.50
3:JJ:118:SER:OG	3:JJ:119:PRO:HD2	2.12	0.50
3:KG:11:ILE:CG2	3:KG:17:GLN:HB2	2.42	0.50
3:KJ:86:ARG:NH1	3:LE:99:TYR:O	2.45	0.50
3:KJ:131:ALA:HA	3:LE:1:ALA:HB3	1.92	0.50
3:LM:19:LEU:HD21	3:LM:21:LEU:HD21	1.92	0.50
3:MD:11:ILE:HG23	3:MD:17:GLN:HB2	1.93	0.50
3:ME:79:SER:O	3:ME:80:CYS:CB	2.59	0.50
3:MJ:44:LEU:HD12	3:MJ:44:LEU:O	2.11	0.50
3:MJ:81:ASP:OD2	3:ML:99:TYR:CE1	2.65	0.50
3:ND:103:GLU:HA	3:ND:103:GLU:OE2	2.11	0.50
3:NG:54:GLN:HB3	3:NG:55:PRO:CD	2.41	0.50
3:NJ:6:VAL:HG12	3:NJ:8:LEU:CD2	2.41	0.50
1:A:1682:U:O2	1:A:1685:U:N3	2.45	0.50
1:A:1754:C:O2'	1:A:1757:U:OP1	2.28	0.50
1:A:1863:C:H2'	1:A:1864:U:O4'	2.12	0.50
1:A:2403:G:OP1	2:M:158:LYS:NZ	2.43	0.50
1:A:2486:A:N6	1:A:2589:G:O6	2.45	0.50
1:A:3033:U:O4	1:A:3050:A:N6	2.44	0.50
1:A:3309:A:H2'	1:A:3310:U:C6	2.46	0.50
1:A:3770:C:C5	1:A:3771:G:O6	2.65	0.50
1:A:3932:U:O2	1:A:3934:G:C5	2.65	0.50
2:M:156:THR:O	2:M:160:LEU:HD23	2.12	0.50
3:BA:13:LYS:HZ2	3:MK:103:GLU:HA	1.77	0.50
3:BB:64:VAL:HG11	3:MA:125:ILE:HD11	1.93	0.50
3:BC:11:ILE:HD12	3:ND:110:THR:OG1	2.12	0.50
3:BG:14:ASP:OD2	3:BG:14:ASP:C	2.50	0.50
3:BM:101:THR:HG23	3:DJ:86:ARG:NH2	2.27	0.50
3:BN:48:VAL:HG22	3:BN:68:ILE:CD1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CA:13:LYS:HE3	3:DH:106:ALA:HB3	1.93	0.50
3:CB:11:ILE:HD11	3:HC:111:GLU:N	2.26	0.50
3:CD:55:PRO:HA	3:CD:60:LYS:O	2.12	0.50
3:CE:60:LYS:HB2	3:CE:61:ASN:HB2	1.93	0.50
3:CF:101:THR:O	3:CF:104:GLU:HG2	2.11	0.50
3:CH:111:GLU:N	3:HL:11:ILE:HD11	2.26	0.50
3:CK:34:SER:C	3:CK:35:LEU:HD12	2.32	0.50
3:CK:130:PRO:HB2	3:CK:132:TYR:CD2	2.46	0.50
3:CM:52:VAL:HA	3:CM:64:VAL:HG22	1.94	0.50
3:CN:68:ILE:HD11	3:DD:111:GLU:CD	2.32	0.50
3:DB:67:LYS:NZ	3:DB:91:ASP:OD2	2.41	0.50
3:DE:20:VAL:N	3:DE:37:GLN:OE1	2.44	0.50
3:DF:20:VAL:CG1	3:DF:38:ALA:HB2	2.41	0.50
3:DJ:106:ALA:HA	3:DJ:109:ARG:NE	2.26	0.50
3:DL:128:LEU:HD11	3:MN:105:ARG:CD	2.42	0.50
3:ED:122:ILE:HG22	3:EH:109:ARG:HH11	1.71	0.50
3:EF:115:LEU:HD22	3:FA:8:LEU:HD22	1.94	0.50
3:EI:109:ARG:NH1	3:GA:122:ILE:HG12	2.27	0.50
3:EJ:62:TYR:HE2	3:EK:42:PRO:HG2	1.77	0.50
3:EJ:80:CYS:SG	3:EJ:81:ASP:N	2.85	0.50
3:EL:27:ASN:OD1	3:EL:30:ASN:N	2.44	0.50
3:FF:88:ALA:HB1	3:LF:96:PHE:HE2	1.77	0.50
3:FG:46:LYS:HG2	3:FG:70:ASN:HA	1.94	0.50
3:FH:55:PRO:HG3	3:FH:62:TYR:CD2	2.47	0.50
3:FM:56:SER:O	3:FM:59:ARG:O	2.30	0.50
3:FM:81:ASP:OD1	3:GA:99:TYR:CD2	2.65	0.50
3:GD:125:ILE:HD11	3:KF:109:ARG:CD	2.37	0.50
3:GE:84:VAL:HG13	3:GE:87:GLN:HE21	1.74	0.50
3:GE:111:GLU:OE2	3:HE:19:LEU:CD2	2.60	0.50
3:GK:99:TYR:O	3:JA:86:ARG:NH2	2.30	0.50
3:GK:109:ARG:CZ	3:JA:122:ILE:HB	2.42	0.50
3:GL:55:PRO:HA	3:GL:60:LYS:O	2.12	0.50
3:IC:106:ALA:HB3	3:JN:13:LYS:HD3	1.94	0.50
3:IE:32:VAL:HG12	3:IE:51:SER:OG	2.12	0.50
3:IF:48:VAL:HG11	3:NI:115:LEU:HD21	1.92	0.50
3:IF:123:ASP:OD2	3:NI:1:ALA:HB2	2.12	0.50
3:IG:19:LEU:HD12	3:IG:20:VAL:N	2.26	0.50
3:IJ:86:ARG:HH22	3:NE:99:TYR:C	2.15	0.50
3:IJ:108:VAL:O	3:IJ:112:LEU:HD23	2.12	0.50
3:JD:132:TYR:HE1	3:JH:26:VAL:HG11	1.76	0.50
3:JF:122:ILE:HG23	3:KA:109:ARG:HH12	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JM:119:PRO:HA	3:JM:122:ILE:HG22	1.93	0.50
3:KA:117:ALA:O	3:KA:122:ILE:HD11	2.11	0.50
3:KF:125:ILE:HG23	3:KF:126:ASP:H	1.77	0.50
3:LD:18:THR:O	3:LD:19:LEU:HD22	2.12	0.50
3:LH:84:VAL:HG11	3:LH:87:GLN:NE2	2.26	0.50
3:LI:49:THR:OG1	3:LI:67:LYS:HG2	2.11	0.50
3:MB:111:GLU:O	3:MB:115:LEU:HD23	2.11	0.50
3:ME:98:GLN:HG3	3:MF:43:ALA:HB2	1.94	0.50
3:MI:106:ALA:O	3:MI:109:ARG:HB3	2.12	0.50
3:NH:20:VAL:HG23	3:NH:38:ALA:HB2	1.93	0.50
3:NJ:11:ILE:HG23	3:NJ:17:GLN:HB2	1.93	0.50
1:A:15:G:O2'	3:HK:57:ARG:NH1	2.45	0.50
1:A:1693:U:H3'	1:A:1694:C:O4'	2.11	0.50
1:A:2345:G:H2'	1:A:2346:A:C8	2.46	0.50
1:A:2406:G:H2'	1:A:2407:C:H6	1.77	0.50
1:A:2490:A:H4'	1:A:2528:C:H1'	1.93	0.50
1:A:3014:U:O4	1:A:3015:A:N6	2.44	0.50
1:A:3341:G:O2'	1:A:3342:C:C5'	2.60	0.50
1:A:4135:C:O3'	3:KE:59:ARG:NE	2.44	0.50
1:A:4197:G:O2'	1:A:4198:C:O4'	2.24	0.50
2:M:207:ARG:NH1	2:M:313:GLU:OE2	2.45	0.50
3:BE:55:PRO:HD3	3:BE:62:TYR:CE1	2.46	0.50
3:BF:125:ILE:HG23	3:BF:126:ASP:OD1	2.11	0.50
3:BG:102:ASP:HA	3:BG:105:ARG:HD2	1.93	0.50
3:BJ:109:ARG:HH12	3:BN:122:ILE:HA	1.77	0.50
3:BK:105:ARG:HD2	3:HK:128:LEU:HD11	1.94	0.50
3:BM:23:PRO:HA	3:BM:35:LEU:HD13	1.94	0.50
3:CB:97:THR:HG1	3:HC:86:ARG:NH2	2.10	0.50
3:CE:119:PRO:HA	3:CE:122:ILE:CG1	2.41	0.50
3:CF:54:GLN:HB2	3:CF:55:PRO:HD2	1.94	0.50
3:CJ:120:LEU:O	3:CJ:123:ASP:OD1	2.29	0.50
3:CK:52:VAL:HG12	3:CK:64:VAL:HG13	1.94	0.50
3:CK:86:ARG:NH1	3:NC:99:TYR:HB2	2.27	0.50
3:DA:128:LEU:HD11	3:MM:105:ARG:CZ	2.41	0.50
3:DK:24:ARG:HB2	3:DK:34:SER:OG	2.10	0.50
3:EL:107:PHE:O	3:EL:111:GLU:HG3	2.11	0.50
3:FC:11:ILE:CD1	3:GB:111:GLU:OE2	2.60	0.50
3:FJ:15:GLY:O	3:FJ:16:LYS:HE2	2.11	0.50
3:FM:52:VAL:HG13	3:FM:64:VAL:HG22	1.94	0.50
3:FN:114:ALA:HB3	3:HB:8:LEU:HD23	1.93	0.50
3:GG:8:LEU:HD22	3:JE:114:ALA:HB1	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GG:13:LYS:HE3	3:JE:106:ALA:HB3	1.94	0.50
3:GG:106:ALA:HB2	3:JE:126:ASP:CG	2.32	0.50
3:GL:86:ARG:NH2	3:HG:104:GLU:OE2	2.45	0.50
3:HA:6:VAL:HG12	3:HA:8:LEU:CD1	2.42	0.50
3:HL:32:VAL:HG22	3:HL:51:SER:OG	2.11	0.50
3:HM:81:ASP:O	3:HM:83:SER:N	2.44	0.50
3:IC:122:ILE:HG13	3:IC:123:ASP:N	2.27	0.50
3:IG:125:ILE:CD1	3:JJ:109:ARG:HB3	2.42	0.50
3:IK:120:LEU:HD23	3:IK:120:LEU:C	2.32	0.50
3:IL:84:VAL:O	3:IL:84:VAL:HG23	2.11	0.50
3:JA:37:GLN:OE1	3:JA:39:GLY:N	2.37	0.50
3:JF:107:PHE:HZ	3:KA:19:LEU:HD21	1.76	0.50
3:KA:55:PRO:HG3	3:KA:62:TYR:CE1	2.47	0.50
3:KA:55:PRO:HG3	3:KA:62:TYR:HE1	1.76	0.50
3:KC:68:ILE:HD11	3:LC:115:LEU:HD12	1.94	0.50
3:KF:37:GLN:OE1	3:KF:38:ALA:N	2.45	0.50
3:KF:105:ARG:O	3:KF:109:ARG:HG3	2.11	0.50
3:KK:52:VAL:HG22	3:MH:130:PRO:HA	1.94	0.50
3:KK:126:ASP:OD2	3:MH:109:ARG:NH1	2.41	0.50
3:KN:96:PHE:CE1	3:KN:105:ARG:HG2	2.46	0.50
3:LL:61:ASN:HA	3:LL:96:PHE:O	2.11	0.50
3:ME:109:ARG:HG3	3:NH:116:LEU:HD12	1.94	0.50
3:MI:74:CYS:SG	3:MI:74:CYS:O	2.69	0.50
3:MN:109:ARG:HG2	3:MN:110:THR:N	2.26	0.50
3:NC:104:GLU:HA	3:NC:104:GLU:OE1	2.12	0.50
3:NE:6:VAL:CG1	3:NE:8:LEU:HD11	2.40	0.50
1:A:225:U:O4	3:NJ:59:ARG:NH1	2.44	0.50
1:A:1281:U:H2'	1:A:1282:C:C6	2.46	0.50
1:A:1450:U:C4	1:A:1451:U:C4	2.99	0.50
1:A:1574:A:H2'	1:A:1575:A:C8	2.47	0.50
1:A:1744:G:H2'	1:A:1745:A:H8	1.76	0.50
1:A:1967:G:OP2	3:IE:59:ARG:NE	2.30	0.50
1:A:3307:A:O2'	3:LD:89:TYR:OH	2.14	0.50
1:A:3335:A:H2'	1:A:3336:U:O4'	2.11	0.50
1:A:3745:A:H2'	1:A:3746:U:O4'	2.12	0.50
1:A:3758:U:H2'	1:A:3759:G:C8	2.47	0.50
1:A:4106:U:H4'	3:B:59:ARG:HG2	1.94	0.50
2:M:230:LYS:O	2:M:234:LEU:HD13	2.12	0.50
3:BC:93:THR:HB	3:ND:91:ASP:OD1	2.11	0.50
3:BF:46:LYS:HG2	3:BF:70:ASN:OD1	2.12	0.50
3:BH:11:ILE:CG2	3:BH:17:GLN:HB2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BK:99:TYR:OH	3:BL:83:SER:HA	2.11	0.50
3:CC:75:THR:HA	3:CC:82:PRO:HB3	1.93	0.50
3:CH:97:THR:N	3:CH:100:SER:OG	2.45	0.50
3:CK:11:ILE:CG2	3:CK:17:GLN:HB2	2.42	0.50
3:CM:24:ARG:HB2	3:CM:34:SER:O	2.12	0.50
3:DA:103:GLU:N	3:MM:13:LYS:HZ1	2.10	0.50
3:DC:131:ALA:HB1	3:EN:3:LEU:CD2	2.42	0.50
3:DE:11:ILE:HD12	3:EL:110:THR:OG1	2.12	0.50
3:DE:125:ILE:CD1	3:EL:64:VAL:HG11	2.41	0.50
3:DN:55:PRO:HG3	3:DN:62:TYR:CE1	2.46	0.50
3:DN:97:THR:HG21	3:ML:86:ARG:HG3	1.93	0.50
3:EC:127:GLN:HB2	3:EC:129:ASN:ND2	2.27	0.50
3:EE:64:VAL:HG11	3:LI:125:ILE:CD1	2.42	0.50
3:EJ:120:LEU:HD23	3:EJ:120:LEU:C	2.32	0.50
3:FC:75:THR:HG22	3:FC:82:PRO:HG2	1.94	0.50
3:FF:24:ARG:HA	3:FF:24:ARG:NE	2.27	0.50
3:GB:27:ASN:O	3:GB:31:GLY:N	2.44	0.50
3:GG:18:THR:O	3:GG:19:LEU:HD22	2.10	0.50
3:GG:19:LEU:HD21	3:JE:107:PHE:CE1	2.47	0.50
3:GH:62:TYR:CD2	3:KB:128:LEU:CD2	2.95	0.50
3:GN:37:GLN:CA	3:GN:45:GLU:OE2	2.59	0.50
3:HB:91:ASP:OD2	3:HB:93:THR:OG1	2.30	0.50
3:HL:17:GLN:N	3:HL:17:GLN:OE1	2.45	0.50
3:HN:111:GLU:OE1	3:ID:19:LEU:HD22	2.12	0.50
3:IB:97:THR:HG22	3:IB:98:GLN:N	2.27	0.50
3:IE:55:PRO:HG3	3:IE:62:TYR:CE1	2.47	0.50
3:IK:81:ASP:N	3:IK:81:ASP:OD2	2.45	0.50
3:JB:105:ARG:HD3	3:JB:106:ALA:CA	2.42	0.50
3:JC:3:LEU:CD1	3:JC:35:LEU:HD11	2.41	0.50
3:KJ:1:ALA:HB3	3:LE:131:ALA:HA	1.93	0.50
3:LL:114:ALA:CB	3:MB:8:LEU:HD22	2.39	0.50
3:MI:98:GLN:OE1	3:MI:98:GLN:N	2.38	0.50
3:MI:127:GLN:O	3:MI:127:GLN:NE2	2.45	0.50
3:NB:128:LEU:O	3:NG:24:ARG:NH1	2.45	0.50
1:A:327:A:HO2'	1:A:328:G:P	2.30	0.49
1:A:1079:A:O2'	1:A:1080:U:H5'	2.12	0.49
1:A:1094:U:H2'	1:A:1095:A:C8	2.47	0.49
1:A:1307:A:H2'	1:A:1308:A:C8	2.47	0.49
1:A:1311:C:P	3:GM:63:LYS:HZ3	2.35	0.49
1:A:1655:G:H2'	1:A:1656:G:O4'	2.12	0.49
1:A:3545:C:O2'	1:A:3546:A:OP2	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3769:U:H3'	1:A:3770:C:O4'	2.12	0.49
1:A:3942:U:H2'	1:A:3943:C:C6	2.47	0.49
3:BC:11:ILE:HG21	3:BC:19:LEU:CD1	2.42	0.49
3:BC:111:GLU:N	3:ND:11:ILE:CD1	2.75	0.49
3:BE:86:ARG:HH12	3:CE:99:TYR:C	2.14	0.49
3:BF:92:VAL:HG22	3:IN:92:VAL:HG13	1.94	0.49
3:BJ:24:ARG:C	3:CG:129:ASN:OD1	2.51	0.49
3:BJ:41:VAL:O	3:BJ:44:LEU:HG	2.12	0.49
3:CA:11:ILE:CG2	3:CA:17:GLN:HB2	2.41	0.49
3:CH:86:ARG:NH2	3:HL:101:THR:HG23	2.24	0.49
3:CH:86:ARG:HH12	3:HL:101:THR:HG23	1.77	0.49
3:CL:97:THR:O	3:CL:100:SER:OG	2.28	0.49
3:DA:8:LEU:HD11	3:MM:115:LEU:HG	1.93	0.49
3:DM:34:SER:C	3:DM:35:LEU:HD12	2.32	0.49
3:EA:56:SER:O	3:EA:60:LYS:NZ	2.45	0.49
3:EB:99:TYR:O	3:MJ:86:ARG:NH1	2.43	0.49
3:ED:85:THR:HG22	3:ED:85:THR:O	2.11	0.49
3:FE:99:TYR:HB2	3:KI:86:ARG:HH21	1.77	0.49
3:GC:10:ASN:OD1	3:GC:15:GLY:CA	2.60	0.49
3:GD:68:ILE:HG22	3:GD:90:ALA:HB3	1.94	0.49
3:GE:96:PHE:CE1	3:GE:105:ARG:HD2	2.46	0.49
3:GI:112:LEU:HD11	3:JC:92:VAL:HG21	1.94	0.49
3:HK:119:PRO:HA	3:HK:122:ILE:CG2	2.41	0.49
3:IB:72:THR:HB	3:IB:86:ARG:HB3	1.94	0.49
3:IE:99:TYR:O	3:JL:86:ARG:NH1	2.45	0.49
3:IL:11:ILE:HG23	3:IL:17:GLN:HB2	1.92	0.49
3:JF:129:ASN:OD1	3:JM:24:ARG:C	2.50	0.49
3:KH:87:GLN:N	3:KH:87:GLN:OE1	2.45	0.49
3:LA:85:THR:HG22	3:LA:85:THR:O	2.11	0.49
3:MJ:105:ARG:O	3:MJ:108:VAL:HG22	2.12	0.49
3:MN:30:ASN:OD1	3:MN:32:VAL:HG23	2.11	0.49
3:NB:103:GLU:HA	3:NF:13:LYS:NZ	2.27	0.49
3:ND:60:LYS:HG2	3:ND:98:GLN:HB2	1.94	0.49
3:NF:6:VAL:HG12	3:NF:8:LEU:HD21	1.94	0.49
1:A:894:C:N3	1:A:905:A:N1	2.60	0.49
1:A:1027:G:C2	1:A:1028:A:C5	3.00	0.49
1:A:1669:U:H2'	1:A:1670:U:C6	2.47	0.49
1:A:1762:G:C5	1:A:1763:U:C5	2.99	0.49
1:A:2356:C:OP2	1:A:2356:C:C6	2.64	0.49
1:A:2389:C:OP1	3:FH:59:ARG:CZ	2.61	0.49
1:A:3479:G:C6	1:A:3504:A:C2	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3667:G:O6	3:LH:59:ARG:NE	2.43	0.49
1:A:3769:U:OP2	1:A:3770:C:H5	1.94	0.49
3:BB:129:ASN:OD1	3:MB:24:ARG:NH2	2.45	0.49
3:BD:49:THR:OG1	3:BD:67:LYS:HE3	2.12	0.49
3:BF:11:ILE:HD12	3:IN:110:THR:HB	1.94	0.49
3:CA:11:ILE:HD11	3:DH:111:GLU:N	2.27	0.49
3:CE:60:LYS:O	3:CE:98:GLN:NE2	2.41	0.49
3:DB:99:TYR:O	3:DK:86:ARG:NH1	2.45	0.49
3:DB:132:TYR:OH	3:DJ:26:VAL:O	2.29	0.49
3:DC:132:TYR:O	3:EN:2:LYS:CE	2.59	0.49
3:DG:116:LEU:O	3:EJ:109:ARG:NH1	2.42	0.49
3:DL:99:TYR:OH	3:DM:84:VAL:N	2.35	0.49
3:DN:60:LYS:HD3	3:DN:98:GLN:NE2	2.27	0.49
3:EC:86:ARG:NH2	3:LK:99:TYR:O	2.44	0.49
3:EC:114:ALA:HB1	3:LK:8:LEU:CD1	2.42	0.49
3:FD:42:PRO:HG3	3:GB:128:LEU:HD12	1.93	0.49
3:FF:8:LEU:HD11	3:LF:114:ALA:HB3	1.89	0.49
3:FF:21:LEU:HD11	3:FF:48:VAL:HG21	1.94	0.49
3:FH:52:VAL:O	3:FH:52:VAL:HG13	2.12	0.49
3:GD:61:ASN:HA	3:GD:96:PHE:O	2.12	0.49
3:GF:55:PRO:HG3	3:GF:62:TYR:CE2	2.47	0.49
3:GG:103:GLU:HA	3:GG:103:GLU:OE1	2.11	0.49
3:GG:125:ILE:HD13	3:JE:64:VAL:HG11	1.93	0.49
3:GG:132:TYR:OH	3:JE:26:VAL:HG11	2.12	0.49
3:GI:114:ALA:HB1	3:JC:8:LEU:HD22	1.93	0.49
3:GJ:60:LYS:H	3:GJ:61:ASN:HB3	1.75	0.49
3:GL:109:ARG:HG2	3:HG:116:LEU:CD2	2.41	0.49
3:HC:65:GLN:OE1	3:HC:93:THR:HG22	2.12	0.49
3:HE:49:THR:OG1	3:HE:67:LYS:HG2	2.11	0.49
3:IC:56:SER:OG	3:IC:59:ARG:HG2	2.12	0.49
3:IH:1:ALA:HA	3:NG:123:ASP:OD2	2.12	0.49
3:IH:32:VAL:HG12	3:IH:51:SER:HB2	1.93	0.49
3:JA:87:GLN:N	3:JA:87:GLN:OE1	2.45	0.49
3:JD:68:ILE:CD1	3:JH:111:GLU:OE1	2.58	0.49
3:KA:23:PRO:HA	3:KA:35:LEU:HG	1.94	0.49
3:KA:27:ASN:OD1	3:KA:30:ASN:N	2.45	0.49
3:KB:11:ILE:HG23	3:KB:17:GLN:HB2	1.94	0.49
3:KC:116:LEU:HD21	3:LC:112:LEU:HD23	1.93	0.49
3:KF:60:LYS:HB3	3:KF:98:GLN:HE22	1.77	0.49
3:KG:11:ILE:HG22	3:KG:17:GLN:C	2.33	0.49
3:KM:103:GLU:HA	3:MF:13:LYS:NZ	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LA:126:ASP:HB2	3:MD:109:ARG:HH22	1.78	0.49
3:LM:62:TYR:CE2	3:LN:42:PRO:HG2	2.47	0.49
3:LN:128:LEU:HD12	3:LN:128:LEU:N	2.27	0.49
3:MC:110:THR:CB	3:NJ:11:ILE:HD12	2.42	0.49
3:MF:68:ILE:HG23	3:MF:90:ALA:HB3	1.93	0.49
3:ND:117:ALA:O	3:ND:122:ILE:HD11	2.12	0.49
1:A:322:C:C2	1:A:323:C:C5	3.01	0.49
1:A:541:C:H2'	1:A:542:U:C6	2.47	0.49
1:A:880:C:OP1	3:IK:59:ARG:NE	2.45	0.49
1:A:940:C:H2'	1:A:941:C:O4'	2.13	0.49
1:A:1014:C:H4'	1:A:3196:U:O2	2.12	0.49
1:A:1848:U:H3'	1:A:1849:U:H5'	1.94	0.49
1:A:2103:A:H2'	1:A:2104:U:O4'	2.11	0.49
1:A:2689:C:H1'	1:A:2690:U:OP1	2.12	0.49
1:A:3546:A:H62	3:KF:49:THR:CB	2.26	0.49
3:BC:105:ARG:CZ	3:ND:128:LEU:HD11	2.43	0.49
3:BI:3:LEU:CD2	3:HM:131:ALA:HB1	2.41	0.49
3:BK:55:PRO:HD3	3:BK:62:TYR:CE1	2.47	0.49
3:BN:125:ILE:HG23	3:BN:126:ASP:N	2.28	0.49
3:CC:75:THR:O	3:DG:79:SER:HA	2.12	0.49
3:CF:3:LEU:HD22	3:GM:131:ALA:HB1	1.93	0.49
3:CF:101:THR:HG23	3:GM:86:ARG:NH2	2.21	0.49
3:CI:6:VAL:HG12	3:CI:8:LEU:HD22	1.94	0.49
3:CJ:3:LEU:HD23	3:HJ:132:TYR:N	2.27	0.49
3:CL:115:LEU:HD21	3:HH:48:VAL:HG11	1.94	0.49
3:CN:11:ILE:HG23	3:DD:110:THR:OG1	2.12	0.49
3:DB:130:PRO:HG3	3:DK:52:VAL:HG13	1.94	0.49
3:DE:8:LEU:CD1	3:EL:114:ALA:HB3	2.33	0.49
3:DG:118:SER:O	3:DG:122:ILE:HG13	2.12	0.49
3:DN:55:PRO:HB3	3:DN:60:LYS:CG	2.42	0.49
3:EG:15:GLY:O	3:EG:16:LYS:HE2	2.11	0.49
3:EI:6:VAL:HG12	3:EI:8:LEU:HD23	1.93	0.49
3:FB:71:PRO:HB2	3:FB:84:VAL:HG11	1.93	0.49
3:FK:55:PRO:HD3	3:FK:62:TYR:CD1	2.47	0.49
3:FL:105:ARG:CD	3:HD:128:LEU:HD11	2.43	0.49
3:FM:11:ILE:HG21	3:FM:19:LEU:HD23	1.93	0.49
3:FN:57:ARG:HA	3:FN:57:ARG:NE	2.28	0.49
3:FN:125:ILE:HG21	3:HB:109:ARG:HD2	1.94	0.49
3:GC:123:ASP:HA	3:GC:126:ASP:HB3	1.94	0.49
3:GF:59:ARG:NE	3:GF:61:ASN:ND2	2.60	0.49
3:HA:18:THR:O	3:HA:19:LEU:HD22	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:116:LEU:HD23	3:HB:121:LEU:HD23	1.95	0.49
3:HI:121:LEU:O	3:HI:125:ILE:HG12	2.13	0.49
3:HN:44:LEU:HD12	3:HN:44:LEU:O	2.12	0.49
3:ID:7:THR:O	3:ID:7:THR:HG23	2.12	0.49
3:IJ:119:PRO:HA	3:IJ:122:ILE:CG1	2.42	0.49
3:IL:6:VAL:HG12	3:IL:8:LEU:HD22	1.92	0.49
3:JD:92:VAL:HG21	3:JH:112:LEU:HD11	1.95	0.49
3:JE:11:ILE:CG2	3:JE:17:GLN:HB2	2.42	0.49
3:JI:108:VAL:O	3:JI:111:GLU:HG2	2.11	0.49
3:JK:111:GLU:N	3:KN:11:ILE:HD11	2.27	0.49
3:JM:97:THR:N	3:JM:100:SER:HG	2.09	0.49
3:JN:32:VAL:HG13	3:JN:51:SER:OG	2.13	0.49
3:KB:97:THR:N	3:KB:100:SER:HG	2.09	0.49
3:KE:41:VAL:O	3:KE:44:LEU:HG	2.12	0.49
3:KJ:101:THR:HG23	3:KJ:104:GLU:H	1.77	0.49
3:KJ:111:GLU:N	3:LE:11:ILE:HD11	2.28	0.49
3:KK:116:LEU:HD23	3:MH:113:ALA:HB2	1.93	0.49
3:KM:101:THR:O	3:KM:104:GLU:HG2	2.12	0.49
3:LG:11:ILE:HG13	3:MG:110:THR:HG23	1.94	0.49
3:LG:102:ASP:N	3:LG:102:ASP:OD1	2.45	0.49
3:LN:132:TYR:OXT	3:MI:2:LYS:HA	2.11	0.49
3:MC:130:PRO:HD2	3:MC:130:PRO:O	2.10	0.49
3:ME:128:LEU:HD11	3:NH:62:TYR:CD2	2.47	0.49
3:ML:20:VAL:O	3:ML:20:VAL:HG23	2.12	0.49
3:NJ:3:LEU:HD11	3:NJ:35:LEU:HD11	1.93	0.49
3:NJ:11:ILE:CG2	3:NJ:17:GLN:HB2	2.42	0.49
1:A:191:G:C8	3:NB:57:ARG:NH2	2.78	0.49
1:A:436:U:C6	1:A:436:U:OP2	2.66	0.49
1:A:514:G:H2'	1:A:515:G:O4'	2.12	0.49
1:A:1103:U:O2'	1:A:1104:U:O4'	2.25	0.49
1:A:2077:A:H2'	1:A:2078:G:N9	2.28	0.49
1:A:2205:C:OP1	3:GL:59:ARG:HD3	2.12	0.49
1:A:2283:G:H2'	1:A:2284:A:O4'	2.11	0.49
1:A:2360:G:C2	1:A:2361:A:C5	3.00	0.49
1:A:3341:G:H2'	1:A:3342:C:C6	2.48	0.49
1:A:3538:C:C4	1:A:3539:G:N7	2.80	0.49
1:A:3723:C:C4'	3:ML:63:LYS:HZ1	2.20	0.49
1:A:4023:G:OP2	1:A:4023:G:H8	1.95	0.49
3:BG:99:TYR:OH	3:BH:84:VAL:HG12	2.11	0.49
3:BL:128:LEU:HD11	3:CG:105:ARG:CD	2.42	0.49
3:CB:35:LEU:HB2	3:CB:48:VAL:HB	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:109:ARG:NH2	3:CC:110:THR:HG23	2.27	0.49
3:CD:111:GLU:N	3:HA:11:ILE:HD11	2.27	0.49
3:CD:132:TYR:OXT	3:HA:2:LYS:NZ	2.34	0.49
3:CI:41:VAL:O	3:CI:41:VAL:HG23	2.12	0.49
3:CL:8:LEU:HD11	3:HH:115:LEU:HD21	1.94	0.49
3:DC:20:VAL:C	3:DC:21:LEU:HD22	2.33	0.49
3:DE:129:ASN:OD1	3:EJ:24:ARG:CA	2.60	0.49
3:DE:131:ALA:HA	3:EL:1:ALA:HB3	1.95	0.49
3:DJ:48:VAL:HG22	3:DJ:68:ILE:CD1	2.41	0.49
3:DL:10:ASN:OD1	3:DL:15:GLY:O	2.31	0.49
3:DL:48:VAL:HG11	3:MN:115:LEU:HD13	1.93	0.49
3:DL:60:LYS:N	3:DL:61:ASN:HB3	2.25	0.49
3:EC:103:GLU:HA	3:LK:13:LYS:NZ	2.27	0.49
3:ED:119:PRO:O	3:ED:122:ILE:HG12	2.12	0.49
3:EF:24:ARG:NE	3:EF:36:SER:OG	2.45	0.49
3:EG:126:ASP:HA	3:GC:105:ARG:CG	2.42	0.49
3:FC:132:TYR:CZ	3:GC:26:VAL:HG22	2.47	0.49
3:FH:68:ILE:HD12	3:FK:112:LEU:CD1	2.41	0.49
3:FN:75:THR:O	3:HC:79:SER:HA	2.12	0.49
3:GC:101:THR:HG22	3:GC:103:GLU:H	1.76	0.49
3:GG:44:LEU:HD22	3:GI:98:GLN:O	2.13	0.49
3:GH:4:GLU:OE2	3:GH:5:THR:N	2.44	0.49
3:GH:74:CYS:HA	3:KC:80:CYS:HB3	1.94	0.49
3:GJ:132:TYR:OH	3:GN:26:VAL:HG11	2.12	0.49
3:GK:18:THR:C	3:GK:19:LEU:HD22	2.33	0.49
3:HM:55:PRO:HB3	3:HM:60:LYS:HB3	1.93	0.49
3:ID:37:GLN:HB2	3:ID:46:LYS:HB2	1.93	0.49
3:IF:105:ARG:NE	3:NI:128:LEU:HD11	2.28	0.49
3:IG:89:TYR:HB2	3:JJ:95:SER:OG	2.13	0.49
3:IM:109:ARG:HH12	3:JM:122:ILE:HB	1.77	0.49
3:JC:125:ILE:HG23	3:JC:126:ASP:OD1	2.12	0.49
3:JE:24:ARG:CZ	3:JH:129:ASN:OD1	2.60	0.49
3:JF:11:ILE:HD11	3:KA:111:GLU:N	2.27	0.49
3:JH:60:LYS:O	3:JH:61:ASN:ND2	2.45	0.49
3:JJ:49:THR:OG1	3:JJ:67:LYS:HB2	2.12	0.49
3:JK:2:LYS:HD2	3:KN:132:TYR:O	2.12	0.49
3:KE:52:VAL:HG12	3:KE:54:GLN:HE22	1.77	0.49
3:KF:19:LEU:HD23	3:KF:21:LEU:HD11	1.92	0.49
3:KH:131:ALA:O	3:KH:132:TYR:HD1	1.94	0.49
3:MA:24:ARG:C	3:NJ:129:ASN:OD1	2.51	0.49
3:MA:44:LEU:O	3:MA:44:LEU:HD12	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:60:LYS:H	3:MD:61:ASN:HB3	1.77	0.49
3:MH:21:LEU:HD23	3:MH:35:LEU:HB3	1.95	0.49
3:MI:24:ARG:HB2	3:MI:34:SER:OG	2.12	0.49
3:MJ:34:SER:C	3:MJ:35:LEU:HD12	2.33	0.49
3:NF:111:GLU:O	3:NF:115:LEU:HD23	2.13	0.49
3:NH:34:SER:O	3:NH:35:LEU:HD22	2.12	0.49
1:A:217:C:N3	1:A:236:G:N1	2.60	0.49
1:A:485:C:H5"	1:A:486:G:OP1	2.13	0.49
1:A:1351:A:H2'	1:A:1352:A:O4'	2.11	0.49
1:A:1522:G:H2'	1:A:1523:U:O4'	2.13	0.49
1:A:1777:C:O2	1:A:1781:A:C2	2.66	0.49
1:A:2291:U:H2'	1:A:2292:A:C8	2.47	0.49
1:A:2316:G:C2	1:A:2317:U:C5	3.01	0.49
1:A:2787:G:H2'	1:A:2788:A:OP1	2.12	0.49
1:A:3771:G:OP2	3:LH:67:LYS:NZ	2.46	0.49
1:A:3939:C:C2'	1:A:3940:C:H5'	2.42	0.49
3:BA:132:TYR:CE2	3:ML:25:GLY:HA2	2.47	0.49
3:BB:109:ARG:HH21	3:MA:122:ILE:CG2	2.25	0.49
3:BG:108:VAL:O	3:BG:111:GLU:HG3	2.13	0.49
3:BH:11:ILE:HD12	3:IL:110:THR:OG1	2.13	0.49
3:BK:11:ILE:CG2	3:BK:17:GLN:HB2	2.43	0.49
3:BM:86:ARG:CZ	3:DJ:100:SER:HA	2.43	0.49
3:CJ:91:ASP:OD1	3:CJ:91:ASP:O	2.31	0.49
3:CN:60:LYS:N	3:CN:61:ASN:HB3	2.25	0.49
3:DE:125:ILE:HD11	3:EL:64:VAL:HG11	1.92	0.49
3:DG:19:LEU:HD21	3:EJ:107:PHE:HE1	1.78	0.49
3:DM:52:VAL:O	3:DM:52:VAL:HG23	2.12	0.49
3:EE:17:GLN:OE1	3:LI:107:PHE:HE1	1.94	0.49
3:EE:32:VAL:O	3:EE:32:VAL:HG13	2.12	0.49
3:EG:23:PRO:HA	3:EG:35:LEU:HD23	1.95	0.49
3:EH:47:ARG:NH1	3:EH:69:GLN:OE1	2.46	0.49
3:EI:3:LEU:HD21	3:EI:33:ALA:HB1	1.93	0.49
3:FA:77:ASN:O	3:FA:77:ASN:OD1	2.30	0.49
3:FF:11:ILE:HD11	3:LF:111:GLU:CG	2.42	0.49
3:FF:61:ASN:ND2	3:FF:96:PHE:O	2.45	0.49
3:FF:74:CYS:SG	3:LG:79:SER:O	2.71	0.49
3:FH:70:ASN:ND2	3:FK:108:VAL:HG22	2.27	0.49
3:FH:104:GLU:HA	3:FH:107:PHE:HE1	1.74	0.49
3:GA:29:THR:HG23	3:GA:30:ASN:N	2.28	0.49
3:GE:109:ARG:NH1	3:HE:126:ASP:OD2	2.45	0.49
3:GG:105:ARG:CD	3:JE:128:LEU:HD11	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GH:11:ILE:HD12	3:KB:110:THR:OG1	2.12	0.49
3:GL:11:ILE:HD12	3:HG:110:THR:OG1	2.13	0.49
3:HA:3:LEU:HD12	3:HA:23:PRO:HB2	1.94	0.49
3:HC:112:LEU:HD23	3:HC:116:LEU:HD13	1.94	0.49
3:HJ:125:ILE:HG23	3:HJ:126:ASP:N	2.26	0.49
3:HL:8:LEU:N	3:HL:8:LEU:HD22	2.27	0.49
3:IB:129:ASN:ND2	3:IK:1:ALA:H1	2.11	0.49
3:IC:62:TYR:HD1	3:JN:128:LEU:HD23	1.78	0.49
3:IH:103:GLU:O	3:NG:13:LYS:NZ	2.38	0.49
3:II:131:ALA:O	3:II:132:TYR:HD1	1.96	0.49
3:IJ:58:ASN:O	3:IJ:59:ARG:HD3	2.12	0.49
3:JC:99:TYR:N	3:JC:99:TYR:CD1	2.79	0.49
3:JG:122:ILE:HA	3:LD:109:ARG:NH2	2.25	0.49
3:JI:111:GLU:N	3:LB:11:ILE:HD11	2.28	0.49
3:JJ:26:VAL:HG23	3:JJ:32:VAL:C	2.32	0.49
3:JK:126:ASP:HB2	3:JK:127:GLN:OE1	2.13	0.49
3:JL:55:PRO:HA	3:JL:60:LYS:O	2.13	0.49
3:JN:97:THR:N	3:JN:100:SER:HG	2.09	0.49
3:KH:27:ASN:O	3:KH:31:GLY:N	2.45	0.49
3:KI:41:VAL:O	3:KI:41:VAL:HG13	2.12	0.49
3:KK:131:ALA:O	3:KK:132:TYR:CD1	2.66	0.49
3:KM:99:TYR:C	3:MF:86:ARG:HH22	2.16	0.49
3:KN:3:LEU:HD21	3:KN:33:ALA:HB1	1.94	0.49
3:LB:69:GLN:HE22	3:LB:89:TYR:HE1	1.59	0.49
3:LF:108:VAL:HA	3:LF:111:GLU:OE1	2.12	0.49
3:LL:86:ARG:HH12	3:MB:97:THR:HG23	1.76	0.49
3:LM:20:VAL:O	3:LM:20:VAL:HG23	2.12	0.49
3:MA:41:VAL:O	3:MA:44:LEU:HG	2.11	0.49
3:MC:62:TYR:CD1	3:NJ:128:LEU:HD21	2.48	0.49
3:MF:81:ASP:O	3:MF:83:SER:N	2.46	0.49
3:MH:37:GLN:HB2	3:MH:45:GLU:HG3	1.94	0.49
3:MK:41:VAL:HG23	3:MK:44:LEU:HB2	1.95	0.49
3:NC:80:CYS:HB3	3:NF:74:CYS:HA	1.95	0.49
3:NC:125:ILE:HG13	3:NC:126:ASP:N	2.27	0.49
3:NI:106:ALA:O	3:NI:110:THR:HG22	2.12	0.49
1:A:859:A:H2'	1:A:860:C:C6	2.47	0.49
1:A:1295:U:H2'	1:A:1296:U:C5'	2.42	0.49
1:A:2605:G:H2'	1:A:2606:U:O4'	2.12	0.49
1:A:3638:A:H2'	1:A:3639:U:C6	2.47	0.49
3:D:47:ARG:HD2	3:D:47:ARG:C	2.33	0.49
3:BG:25:GLY:HA3	3:HM:130:PRO:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:86:ARG:NH1	3:GM:99:TYR:HB3	2.27	0.49
3:CI:57:ARG:CZ	3:CI:57:ARG:HA	2.42	0.49
3:CI:95:SER:C	3:CI:96:PHE:HD1	2.15	0.49
3:CK:4:GLU:N	3:CK:4:GLU:OE1	2.46	0.49
3:CM:100:SER:OG	3:CM:105:ARG:NH1	2.46	0.49
3:CN:123:ASP:OD2	3:DD:1:ALA:N	2.39	0.49
3:DA:104:GLU:OE1	3:MM:86:ARG:NH1	2.45	0.49
3:DG:58:ASN:O	3:DG:59:ARG:CZ	2.60	0.49
3:DJ:34:SER:C	3:DJ:35:LEU:HD12	2.33	0.49
3:DL:106:ALA:HB1	3:DL:109:ARG:NH2	2.27	0.49
3:EC:111:GLU:N	3:LK:11:ILE:HD11	2.26	0.49
3:EI:109:ARG:HH12	3:GA:122:ILE:HG23	1.77	0.49
3:EM:102:ASP:OD1	3:EM:103:GLU:N	2.45	0.49
3:FA:115:LEU:O	3:FA:121:LEU:HD12	2.11	0.49
3:FB:110:THR:OG1	3:LJ:12:GLY:N	2.45	0.49
3:FG:11:ILE:HD12	3:KG:110:THR:CB	2.43	0.49
3:FG:64:VAL:HG11	3:KG:125:ILE:HG13	1.95	0.49
3:FK:108:VAL:O	3:FK:111:GLU:HG2	2.13	0.49
3:GD:46:LYS:NZ	3:GD:71:PRO:O	2.39	0.49
3:GE:41:VAL:O	3:GE:45:GLU:OE2	2.31	0.49
3:GG:128:LEU:HD11	3:JE:105:ARG:CZ	2.42	0.49
3:HC:53:SER:HB3	3:HC:63:LYS:HB2	1.94	0.49
3:HL:37:GLN:O	3:HL:45:GLU:OE2	2.30	0.49
3:HN:92:VAL:HG22	3:ID:92:VAL:HG22	1.95	0.49
3:IE:64:VAL:HG11	3:JL:125:ILE:HD11	1.92	0.49
3:IJ:128:LEU:HD11	3:NE:105:ARG:NE	2.28	0.49
3:IL:30:ASN:OD1	3:IL:32:VAL:HG23	2.12	0.49
3:JB:118:SER:O	3:JB:122:ILE:HG12	2.13	0.49
3:JF:125:ILE:HG23	3:JF:126:ASP:N	2.27	0.49
3:JG:90:ALA:HB1	3:LD:94:PHE:CD2	2.48	0.49
3:JI:4:GLU:O	3:JI:6:VAL:HG23	2.13	0.49
3:JL:115:LEU:C	3:JL:121:LEU:HD12	2.33	0.49
3:KI:79:SER:C	3:KI:80:CYS:SG	2.90	0.49
3:KJ:109:ARG:HD3	3:LE:125:ILE:HD11	1.94	0.49
3:KK:77:ASN:ND2	3:MI:77:ASN:OD1	2.39	0.49
3:KN:74:CYS:SG	3:KN:85:THR:HG21	2.52	0.49
3:LA:87:GLN:N	3:LA:87:GLN:OE1	2.45	0.49
3:LJ:51:SER:OG	3:LJ:65:GLN:HG3	2.12	0.49
3:LL:18:THR:O	3:LL:19:LEU:HD22	2.12	0.49
3:MB:11:ILE:CG2	3:MB:17:GLN:HG2	2.43	0.49
3:MC:122:ILE:HD12	3:NJ:109:ARG:NH1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MK:70:ASN:N	3:MK:87:GLN:OE1	2.46	0.49
3:NF:96:PHE:CE1	3:NF:105:ARG:CD	2.96	0.49
1:A:1397:A:N6	1:A:1545:A:H61	2.10	0.49
1:A:1427:U:O2'	1:A:2600:C:O2'	2.27	0.49
1:A:2036:U:H2'	1:A:2037:G:C8	2.46	0.49
1:A:2306:A:H2'	1:A:2307:G:H8	1.78	0.49
1:A:2765:A:C2'	1:A:2766:A:O5'	2.61	0.49
1:A:3237:U:H3'	1:A:3238:U:C6	2.47	0.49
1:A:3548:G:H2'	1:A:3549:C:H6	1.77	0.49
1:A:3578:C:H2'	1:A:3579:U:O4'	2.12	0.49
1:A:3923:G:C6	1:A:4163:A:C4	3.00	0.49
1:A:4201:U:O3'	2:M:381:TYR:OH	2.31	0.49
2:M:17:ASN:OD1	2:M:70:VAL:HG12	2.13	0.49
2:M:135:TYR:CE1	2:M:275:ILE:HD12	2.48	0.49
3:BG:103:GLU:HA	3:IA:13:LYS:HE3	1.95	0.49
3:BH:19:LEU:HD11	3:BH:46:LYS:HZ1	1.73	0.49
3:BH:54:GLN:HB3	3:BH:55:PRO:HD2	1.94	0.49
3:CA:19:LEU:HD11	3:CA:37:GLN:CG	2.42	0.49
3:CC:101:THR:N	3:DF:86:ARG:HH21	2.10	0.49
3:CD:103:GLU:OE2	3:HA:13:LYS:HE2	2.12	0.49
3:CG:49:THR:HB	3:CG:67:LYS:HB2	1.95	0.49
3:CN:34:SER:O	3:CN:35:LEU:HD12	2.13	0.49
3:DA:103:GLU:HA	3:MM:13:LYS:HZ2	1.77	0.49
3:DE:119:PRO:HA	3:DE:122:ILE:HB	1.93	0.49
3:DH:75:THR:O	3:DH:75:THR:HG23	2.12	0.49
3:DL:103:GLU:HA	3:MN:13:LYS:NZ	2.28	0.49
3:DL:105:ARG:O	3:DL:108:VAL:HG12	2.13	0.49
3:DM:72:THR:HG22	3:DM:73:ALA:N	2.26	0.49
3:EC:105:ARG:HH22	3:LK:128:LEU:CA	2.26	0.49
3:EG:72:THR:CB	3:EG:86:ARG:HE	2.26	0.49
3:EI:100:SER:N	3:GA:86:ARG:NH2	2.61	0.49
3:EK:119:PRO:HA	3:EK:122:ILE:HD12	1.95	0.49
3:EL:42:PRO:O	3:EL:45:GLU:HG2	2.12	0.49
3:EM:65:GLN:OE1	3:EM:93:THR:HG22	2.12	0.49
3:FE:62:TYR:CD2	3:KI:128:LEU:HD22	2.48	0.49
3:FF:104:GLU:OE2	3:LF:86:ARG:NH2	2.43	0.49
3:FN:11:ILE:HG22	3:FN:17:GLN:O	2.13	0.49
3:GJ:49:THR:OG1	3:GJ:67:LYS:HG3	2.13	0.49
3:HH:60:LYS:HB2	3:HH:61:ASN:HB2	1.94	0.49
3:HI:11:ILE:CG2	3:HI:17:GLN:HB2	2.42	0.49
3:HK:20:VAL:C	3:HK:21:LEU:HD22	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HM:81:ASP:O	3:HM:81:ASP:OD1	2.31	0.49
3:IB:102:ASP:OD1	3:IB:103:GLU:N	2.46	0.49
3:IB:125:ILE:HD12	3:IK:94:PHE:HD2	1.76	0.49
3:IC:24:ARG:HB2	3:IC:34:SER:OG	2.12	0.49
3:IC:106:ALA:HB2	3:JN:126:ASP:OD1	2.13	0.49
3:IM:105:ARG:CD	3:JM:128:LEU:HD11	2.43	0.49
3:JK:97:THR:HG22	3:KN:86:ARG:HH21	1.78	0.49
3:KA:11:ILE:HG21	3:KA:17:GLN:OE1	2.13	0.49
3:KE:27:ASN:O	3:KE:31:GLY:N	2.44	0.49
3:KF:32:VAL:HG22	3:KF:51:SER:HB3	1.94	0.49
3:LF:14:ASP:OD2	3:LF:16:LYS:NZ	2.29	0.49
3:LK:67:LYS:HG2	3:LK:91:ASP:OD1	2.13	0.49
3:LM:63:LYS:NZ	3:LM:95:SER:OG	2.22	0.49
3:MA:27:ASN:ND2	3:MA:29:THR:HG1	2.10	0.49
3:MC:62:TYR:CE2	3:MC:98:GLN:HA	2.48	0.49
3:MC:86:ARG:HH22	3:NJ:100:SER:HA	1.76	0.49
3:MI:27:ASN:ND2	3:MI:30:ASN:OD1	2.46	0.49
3:MI:101:THR:CG2	3:MI:104:GLU:OE1	2.60	0.49
3:ML:97:THR:O	3:ML:100:SER:OG	2.28	0.49
1:A:291:C:HO2'	1:A:292:C:P	2.30	0.49
1:A:495:C:OP1	3:BK:63:LYS:NZ	2.44	0.49
1:A:1237:G:H3'	1:A:1238:C:H5'	1.94	0.49
1:A:1300:U:O3'	1:A:1301:U:C6	2.66	0.49
1:A:2479:A:C6	1:A:2659:G:N7	2.81	0.49
1:A:2497:A:C4	1:A:2498:G:C8	3.01	0.49
1:A:2526:U:OP1	3:FA:61:ASN:HB2	2.13	0.49
1:A:3340:A:H4'	1:A:3341:G:OP1	2.13	0.49
1:A:3965:A:H2'	1:A:3966:U:C6	2.47	0.49
1:A:4137:A:O3'	3:FI:89:TYR:HE2	1.96	0.49
3:BA:108:VAL:HA	3:BA:111:GLU:HG2	1.94	0.49
3:BA:123:ASP:OD1	3:BA:129:ASN:ND2	2.43	0.49
3:BD:68:ILE:CD1	3:JB:111:GLU:OE1	2.61	0.49
3:BI:7:THR:C	3:BI:8:LEU:HD22	2.33	0.49
3:BI:22:ASN:ND2	3:IL:129:ASN:HD22	2.11	0.49
3:BK:75:THR:HG23	3:BK:82:PRO:HG3	1.93	0.49
3:BK:79:SER:HA	3:BN:75:THR:O	2.12	0.49
3:BM:56:SER:O	3:BM:59:ARG:O	2.31	0.49
3:CK:128:LEU:HD11	3:NC:105:ARG:CD	2.42	0.49
3:CN:131:ALA:O	3:CN:132:TYR:HD1	1.94	0.49
3:DG:125:ILE:O	3:DG:128:LEU:CD1	2.60	0.49
3:DK:125:ILE:O	3:DK:128:LEU:HD12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:92:VAL:HG21	3:LK:112:LEU:HD11	1.95	0.49
3:EF:116:LEU:CD2	3:FA:109:ARG:HD2	2.42	0.49
3:EG:11:ILE:HD11	3:GC:111:GLU:HG3	1.95	0.49
3:EG:68:ILE:CD1	3:GC:112:LEU:HD13	2.43	0.49
3:EK:14:ASP:OD1	3:EK:14:ASP:C	2.49	0.49
3:EK:30:ASN:OD1	3:EK:32:VAL:HG23	2.13	0.49
3:FF:70:ASN:HD21	3:FF:88:ALA:HB3	1.77	0.49
3:GH:103:GLU:OE1	3:GH:103:GLU:HA	2.12	0.49
3:GK:125:ILE:HG23	3:GK:126:ASP:N	2.27	0.49
3:HB:119:PRO:HA	3:HB:122:ILE:CG2	2.43	0.49
3:HC:79:SER:O	3:HC:80:CYS:HB3	2.13	0.49
3:HI:74:CYS:HB2	3:IJ:80:CYS:HA	1.94	0.49
3:HN:19:LEU:HD21	3:ID:107:PHE:CZ	2.48	0.49
3:IE:54:GLN:HB3	3:IE:55:PRO:HD2	1.94	0.49
3:IF:126:ASP:OD2	3:NI:109:ARG:NH2	2.37	0.49
3:IM:55:PRO:HD2	3:IM:62:TYR:CE2	2.47	0.49
3:JE:91:ASP:N	3:JE:91:ASP:OD2	2.45	0.49
3:JE:96:PHE:HE2	3:JE:105:ARG:HG3	1.77	0.49
3:JG:24:ARG:HB2	3:JG:34:SER:OG	2.13	0.49
3:JK:75:THR:HG23	3:JK:82:PRO:HG3	1.95	0.49
3:JK:116:LEU:O	3:KN:109:ARG:HD3	2.11	0.49
3:KB:97:THR:N	3:KB:100:SER:OG	2.46	0.49
3:KD:27:ASN:OD1	3:KD:29:THR:OG1	2.24	0.49
3:KL:103:GLU:OE1	3:KL:104:GLU:HG3	2.13	0.49
3:KM:90:ALA:HB1	3:MF:94:PHE:HE2	1.78	0.49
3:LA:121:LEU:HA	3:LA:124:ALA:HB3	1.94	0.49
3:LD:21:LEU:CD2	3:LD:48:VAL:HG21	2.43	0.49
3:LD:91:ASP:O	3:LD:91:ASP:OD1	2.30	0.49
3:LK:27:ASN:OD1	3:LK:30:ASN:N	2.43	0.49
3:LL:6:VAL:CG1	3:LL:8:LEU:HD11	2.41	0.49
3:MC:5:THR:HG23	3:MC:5:THR:O	2.12	0.49
3:MD:27:ASN:O	3:MD:31:GLY:N	2.44	0.49
3:ME:26:VAL:O	3:ME:26:VAL:HG23	2.12	0.49
3:ML:119:PRO:HA	3:ML:122:ILE:HD12	1.93	0.49
1:A:38:C:H42	1:A:653:C:N4	2.11	0.49
1:A:547:C:H2'	1:A:548:U:O4'	2.13	0.49
1:A:1005:A:O2'	1:A:1100:G:H4'	2.13	0.49
1:A:1113:U:C1'	3:NJ:57:ARG:HH21	2.25	0.49
1:A:1312:G:C2'	1:A:1313:U:O4'	2.61	0.49
1:A:1396:A:C2	1:A:1546:A:N7	2.81	0.49
1:A:1502:A:C2	1:A:1503:U:C6	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1537:U:H1'	3:EJ:58:ASN:CB	2.42	0.49
1:A:1556:C:H2'	1:A:1557:C:C6	2.48	0.49
1:A:1778:A:OP2	3:BF:60:LYS:NZ	2.39	0.49
1:A:2074:A:H2'	1:A:2075:U:C6	2.47	0.49
1:A:2226:G:H2'	1:A:2227:G:O4'	2.12	0.49
1:A:2279:G:N1	1:A:2309:C:O2	2.45	0.49
1:A:2581:C:O2	1:A:2582:G:C8	2.66	0.49
1:A:2689:C:O2'	1:A:2690:U:H6	1.95	0.49
1:A:2775:G:C6	1:A:2776:U:C4	3.01	0.49
1:A:2908:A:H3'	1:A:2909:U:H5"	1.94	0.49
1:A:3539:G:C2	1:A:3540:U:C5	3.01	0.49
1:A:3628:U:O2'	1:A:3631:A:N6	2.46	0.49
1:A:4129:G:H2'	1:A:4130:G:H5'	1.95	0.49
1:A:4148:A:H2'	1:A:4149:A:C8	2.48	0.49
2:M:258:TYR:O	2:M:363:ARG:NE	2.44	0.49
3:BB:37:GLN:HB2	3:BB:46:LYS:HB2	1.95	0.49
3:BE:32:VAL:HG22	3:BE:51:SER:HB3	1.95	0.49
3:BE:97:THR:N	3:BE:100:SER:HG	2.11	0.49
3:BF:3:LEU:HD23	3:IN:132:TYR:C	2.34	0.49
3:BG:122:ILE:HG13	3:BG:123:ASP:N	2.28	0.49
3:BI:65:GLN:OE1	3:BI:93:THR:OG1	2.18	0.49
3:BJ:100:SER:N	3:BN:86:ARG:NH2	2.60	0.49
3:CC:86:ARG:NH1	3:DF:100:SER:HA	2.28	0.49
3:CD:32:VAL:HG12	3:CD:51:SER:HB2	1.93	0.49
3:CM:11:ILE:HG23	3:CM:17:GLN:HB2	1.94	0.49
3:CM:46:LYS:HD3	3:CM:70:ASN:OD1	2.13	0.49
3:CM:60:LYS:HB2	3:CM:98:GLN:CD	2.33	0.49
3:DC:24:ARG:NH2	3:DC:36:SER:OG	2.46	0.49
3:DE:11:ILE:HD11	3:EL:111:GLU:N	2.28	0.49
3:DI:60:LYS:HB2	3:DI:61:ASN:CB	2.43	0.49
3:DL:86:ARG:NH1	3:MN:100:SER:HA	2.28	0.49
3:EE:111:GLU:OE2	3:LI:68:ILE:HG21	2.13	0.49
3:EG:54:GLN:HB3	3:EG:55:PRO:CD	2.42	0.49
3:EK:128:LEU:HD11	3:FM:105:ARG:CZ	2.43	0.49
3:EL:3:LEU:CD1	3:EL:35:LEU:HD11	2.42	0.49
3:FE:59:ARG:O	3:FE:60:LYS:HD3	2.13	0.49
3:FF:80:CYS:HB3	3:KI:74:CYS:HA	1.94	0.49
3:FF:88:ALA:HB1	3:LF:96:PHE:CE2	2.48	0.49
3:FI:105:ARG:NH2	3:KE:126:ASP:O	2.46	0.49
3:FJ:3:LEU:HD11	3:FL:2:LYS:HD3	1.95	0.49
3:FN:98:GLN:HG3	3:GA:43:ALA:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FN:105:ARG:NE	3:HB:128:LEU:HD11	2.28	0.49
3:GB:97:THR:O	3:GB:100:SER:OG	2.15	0.49
3:GE:106:ALA:O	3:GE:109:ARG:HB3	2.13	0.49
3:GF:116:LEU:CD2	3:KD:112:LEU:HD22	2.41	0.49
3:GG:55:PRO:HA	3:GG:59:ARG:NH1	2.28	0.49
3:GK:28:PRO:HB3	3:HG:132:TYR:CE1	2.48	0.49
3:GK:74:CYS:SG	3:JB:79:SER:O	2.71	0.49
3:GK:79:SER:HA	3:GN:75:THR:O	2.12	0.49
3:GN:125:ILE:CG2	3:GN:126:ASP:N	2.76	0.49
3:HB:72:THR:HG21	3:HB:86:ARG:NH2	2.28	0.49
3:HI:102:ASP:OD1	3:HI:103:GLU:N	2.46	0.49
3:HI:131:ALA:HA	3:II:1:ALA:HB1	1.94	0.49
3:HJ:122:ILE:HG22	3:HJ:123:ASP:N	2.26	0.49
3:IA:106:ALA:O	3:IA:110:THR:HG23	2.13	0.49
3:IB:118:SER:OG	3:IB:119:PRO:HD2	2.13	0.49
3:IC:106:ALA:HB3	3:JN:13:LYS:CD	2.42	0.49
3:II:101:THR:HG22	3:IJ:41:VAL:HG22	1.94	0.49
3:JF:72:THR:HB	3:JF:86:ARG:HB3	1.95	0.49
3:JK:86:ARG:NH2	3:KN:104:GLU:CD	2.65	0.49
3:JK:109:ARG:NH1	3:KN:122:ILE:HB	2.28	0.49
3:KF:10:ASN:O	3:KF:11:ILE:HD13	2.12	0.49
3:KH:86:ARG:NH2	3:KL:101:THR:HG23	2.28	0.49
3:KJ:11:ILE:HD11	3:LE:111:GLU:N	2.27	0.49
3:KK:84:VAL:O	3:KK:84:VAL:HG13	2.13	0.49
3:KN:34:SER:C	3:KN:35:LEU:HD22	2.33	0.49
3:LG:79:SER:O	3:LG:80:CYS:CB	2.60	0.49
3:LI:102:ASP:HA	3:LI:105:ARG:NH2	2.28	0.49
3:LK:34:SER:C	3:LK:35:LEU:HD12	2.33	0.49
3:LN:109:ARG:HG2	3:MI:116:LEU:HD12	1.95	0.49
3:MA:55:PRO:HD3	3:MA:62:TYR:HE1	1.78	0.49
3:MD:119:PRO:HA	3:MD:122:ILE:HG12	1.95	0.49
3:ME:2:LYS:NZ	3:MF:4:GLU:OE2	2.36	0.49
3:ME:96:PHE:CE2	3:ME:105:ARG:HG2	2.48	0.49
3:MI:116:LEU:HA	3:MI:121:LEU:HD12	1.94	0.49
3:NH:55:PRO:HD3	3:NH:62:TYR:HE1	1.78	0.49
1:A:970:G:N1	1:A:1043:U:O2	2.46	0.49
1:A:1078:C:O2	1:A:1203:U:N3	2.46	0.49
1:A:1113:U:H2'	1:A:1114:G:O4'	2.13	0.49
1:A:1507:A:H3'	1:A:1508:G:C5'	2.43	0.49
1:A:1939:A:N3	1:A:1940:A:N6	2.60	0.49
1:A:1957:A:H2'	1:A:1958:A:O4'	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2000:G:C1'	3:GI:59:ARG:HH22	2.25	0.49
1:A:2321:U:O2'	1:A:2322:C:C6	2.65	0.49
1:A:2610:G:O5'	1:A:2610:G:C8	2.66	0.49
1:A:2658:U:H4'	1:A:2659:G:OP1	2.13	0.49
1:A:2805:U:H2'	1:A:2806:G:C8	2.47	0.49
1:A:2922:A:H2'	1:A:2923:G:C4'	2.43	0.49
1:A:3538:C:C4	1:A:3539:G:C5	3.01	0.49
1:A:3770:C:H3'	1:A:3771:G:N7	2.27	0.49
1:A:3901:G:H4'	1:A:3902:U:O5'	2.13	0.49
1:A:3926:G:H5"	1:A:4160:A:N1	2.28	0.49
1:A:4170:U:O3'	1:A:4171:U:O4'	2.30	0.49
3:BB:75:THR:HG23	3:BB:82:PRO:HG3	1.94	0.49
3:BE:30:ASN:OD1	3:BE:32:VAL:N	2.46	0.49
3:BE:111:GLU:OE1	3:CE:68:ILE:HG21	2.12	0.49
3:BM:60:LYS:N	3:BM:61:ASN:HB3	2.28	0.49
3:CA:52:VAL:HG11	3:DH:130:PRO:HA	1.95	0.49
3:CH:81:ASP:OD1	3:CJ:99:TYR:CD2	2.66	0.49
3:CI:26:VAL:HG21	3:DI:132:TYR:OH	2.13	0.49
3:CL:55:PRO:HD3	3:CL:62:TYR:CD1	2.48	0.49
3:CM:86:ARG:NH2	3:NA:99:TYR:HB3	2.27	0.49
3:DA:27:ASN:OD1	3:DA:29:THR:OG1	2.23	0.49
3:DB:130:PRO:HA	3:DK:52:VAL:CG1	2.43	0.49
3:DD:39:GLY:HA3	3:DD:45:GLU:OE2	2.12	0.49
3:DE:112:LEU:HD23	3:EL:116:LEU:HD11	1.94	0.49
3:DG:74:CYS:SG	3:EK:79:SER:O	2.71	0.49
3:DG:115:LEU:HD22	3:EJ:8:LEU:CD1	2.42	0.49
3:DL:97:THR:O	3:DL:100:SER:OG	2.28	0.49
3:DL:112:LEU:HD22	3:MN:116:LEU:HD13	1.95	0.49
3:EA:103:GLU:HA	3:EA:103:GLU:OE1	2.13	0.49
3:EF:41:VAL:O	3:EF:45:GLU:OE1	2.31	0.49
3:EJ:128:LEU:HD12	3:EJ:128:LEU:N	2.27	0.49
3:FA:34:SER:C	3:FA:35:LEU:HD12	2.33	0.49
3:FE:11:ILE:HG22	3:FE:17:GLN:C	2.34	0.49
3:FG:55:PRO:HB3	3:FG:60:LYS:HD2	1.95	0.49
3:FH:132:TYR:OH	3:FK:26:VAL:HG11	2.13	0.49
3:FK:24:ARG:HH22	3:HF:129:ASN:CB	2.26	0.49
3:GD:126:ASP:CA	3:KF:109:ARG:NH2	2.74	0.49
3:GG:13:LYS:NZ	3:JE:103:GLU:HA	2.28	0.49
3:GG:24:ARG:NE	3:JC:129:ASN:OD1	2.42	0.49
3:GJ:110:THR:CB	3:GN:11:ILE:HD12	2.43	0.49
3:GM:44:LEU:HD12	3:GM:44:LEU:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GN:102:ASP:HA	3:GN:105:ARG:NE	2.24	0.49
3:HD:24:ARG:NE	3:HD:36:SER:OG	2.46	0.49
3:HN:97:THR:HG21	3:ID:86:ARG:HG2	1.94	0.49
3:IJ:122:ILE:HD13	3:NE:109:ARG:NH1	2.28	0.49
3:JB:79:SER:O	3:JB:80:CYS:CB	2.61	0.49
3:JC:11:ILE:HG23	3:JC:17:GLN:HB3	1.95	0.49
3:JE:30:ASN:OD1	3:JE:32:VAL:CG2	2.61	0.49
3:JK:122:ILE:HA	3:KN:109:ARG:HH12	1.76	0.49
3:KE:49:THR:OG1	3:KE:67:LYS:HB3	2.13	0.49
3:KH:25:GLY:N	3:LE:129:ASN:OD1	2.46	0.49
3:KJ:96:PHE:CE1	3:KJ:105:ARG:HG2	2.48	0.49
3:KK:97:THR:HG23	3:MH:86:ARG:HH21	1.77	0.49
3:KL:78:GLY:O	3:KL:79:SER:OG	2.27	0.49
3:KM:125:ILE:HD12	3:MF:94:PHE:HD1	1.77	0.49
3:LA:125:ILE:CG1	3:MD:109:ARG:HH21	2.25	0.49
3:LB:52:VAL:HG12	3:LB:64:VAL:HG13	1.95	0.49
3:LG:67:LYS:HZ1	3:LG:91:ASP:CG	2.16	0.49
3:LG:102:ASP:O	3:MG:13:LYS:CE	2.61	0.49
3:MC:102:ASP:OD2	3:MC:103:GLU:N	2.46	0.49
3:MC:126:ASP:OD1	3:NJ:106:ALA:N	2.46	0.49
3:MC:132:TYR:OXT	3:NJ:2:LYS:HA	2.13	0.49
3:MF:123:ASP:OD2	3:MF:129:ASN:HB3	2.13	0.49
1:A:900:C:O2	3:IJ:89:TYR:CE2	2.66	0.48
1:A:976:A:N6	1:A:1038:G:O6	2.46	0.48
1:A:1064:A:N7	1:A:1216:C:C4	2.80	0.48
1:A:1657:A:H2'	1:A:1658:A:O4'	2.13	0.48
1:A:1784:C:O2'	1:A:1810:U:H2'	2.12	0.48
1:A:2039:U:H5"	3:KB:59:ARG:NH2	2.28	0.48
1:A:2284:A:OP1	3:GN:59:ARG:NH1	2.40	0.48
1:A:2436:C:C2	1:A:2790:G:C2	3.01	0.48
1:A:2446:C:H2'	1:A:2447:C:C6	2.48	0.48
1:A:2514:U:H2'	1:A:2515:U:C5	2.48	0.48
1:A:2607:A:P	3:EI:59:ARG:CZ	3.01	0.48
1:A:2629:G:H3'	1:A:2630:G:H8	1.77	0.48
1:A:2925:G:H2'	1:A:2926:C:C6	2.47	0.48
1:A:3636:C:OP2	3:ED:57:ARG:NH2	2.46	0.48
1:A:3664:U:OP1	3:LH:96:PHE:O	2.31	0.48
1:A:3808:G:O3'	3:KH:58:ASN:N	2.46	0.48
1:A:3833:U:C2	1:A:3834:A:H1'	2.48	0.48
3:BB:75:THR:O	3:MB:79:SER:HA	2.13	0.48
3:BC:13:LYS:NZ	3:ND:103:GLU:O	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:11:ILE:CG2	3:BD:17:GLN:HB2	2.43	0.48
3:BI:21:LEU:HD13	3:BI:37:GLN:N	2.28	0.48
3:BJ:131:ALA:O	3:BN:3:LEU:HD21	2.13	0.48
3:BN:84:VAL:HG12	3:BN:87:GLN:HE21	1.78	0.48
3:CC:72:THR:HB	3:CC:86:ARG:HB2	1.94	0.48
3:CE:8:LEU:CD2	3:CE:11:ILE:CD1	2.88	0.48
3:CF:11:ILE:CG2	3:CF:17:GLN:HB3	2.43	0.48
3:CI:110:THR:CB	3:DI:11:ILE:HD12	2.43	0.48
3:CI:128:LEU:HD11	3:DI:105:ARG:CZ	2.43	0.48
3:CJ:107:PHE:HZ	3:HJ:19:LEU:HD21	1.78	0.48
3:CJ:110:THR:OG1	3:HJ:11:ILE:HD12	2.12	0.48
3:DA:74:CYS:SG	3:DA:85:THR:HG21	2.53	0.48
3:DC:128:LEU:CD2	3:EN:62:TYR:HD1	2.26	0.48
3:DG:105:ARG:HD2	3:EJ:128:LEU:HD11	1.94	0.48
3:DG:111:GLU:N	3:EJ:11:ILE:HD11	2.27	0.48
3:DH:37:GLN:N	3:DH:45:GLU:OE2	2.46	0.48
3:DI:52:VAL:O	3:DI:52:VAL:CG2	2.61	0.48
3:DN:11:ILE:HD11	3:ML:111:GLU:HA	1.95	0.48
3:EJ:62:TYR:CE2	3:EK:42:PRO:HG2	2.48	0.48
3:EL:29:THR:OG1	3:EL:30:ASN:N	2.44	0.48
3:FL:46:LYS:HG2	3:FL:70:ASN:OD1	2.12	0.48
3:FN:122:ILE:HG12	3:HB:109:ARG:HH22	1.78	0.48
3:GE:64:VAL:HG11	3:HE:125:ILE:CD1	2.43	0.48
3:GH:98:GLN:NE2	3:GI:43:ALA:HA	2.28	0.48
3:GK:109:ARG:NH2	3:JA:126:ASP:CG	2.66	0.48
3:GL:3:LEU:HD23	3:HG:132:TYR:N	2.27	0.48
3:IC:62:TYR:CD1	3:JN:128:LEU:CD2	2.96	0.48
3:IE:108:VAL:O	3:IE:112:LEU:HD23	2.13	0.48
3:JC:125:ILE:HG23	3:JC:126:ASP:N	2.26	0.48
3:JG:81:ASP:OD1	3:JI:99:TYR:CD2	2.66	0.48
3:JM:112:LEU:O	3:JM:116:LEU:HD13	2.13	0.48
3:KH:111:GLU:CA	3:KL:11:ILE:HD11	2.43	0.48
3:KK:111:GLU:OE1	3:MH:68:ILE:HD13	2.12	0.48
3:LA:126:ASP:HB2	3:MD:109:ARG:NH2	2.27	0.48
3:LD:11:ILE:HG23	3:LD:17:GLN:HB2	1.95	0.48
3:LD:106:ALA:HA	3:LD:109:ARG:HD3	1.95	0.48
3:MA:52:VAL:O	3:MA:52:VAL:CG2	2.61	0.48
3:ME:74:CYS:SG	3:NI:79:SER:O	2.70	0.48
3:MG:62:TYR:OH	3:MH:42:PRO:HB2	2.12	0.48
3:MM:54:GLN:O	3:MM:59:ARG:HD2	2.12	0.48
3:NC:24:ARG:HH21	3:NF:129:ASN:HA	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NC:95:SER:O	3:NC:96:PHE:HD1	1.96	0.48
3:NJ:103:GLU:OE2	3:NJ:103:GLU:HA	2.13	0.48
1:A:548:U:O2'	1:A:549:U:O4'	2.30	0.48
1:A:1397:A:P	3:DF:59:ARG:HH22	2.36	0.48
1:A:1705:U:N3	1:A:1706:G:O6	2.46	0.48
1:A:1781:A:OP1	3:BD:30:ASN:ND2	2.46	0.48
1:A:1999:G:C4'	3:GI:56:SER:HA	2.43	0.48
1:A:2247:A:N1	3:HE:57:ARG:N	2.61	0.48
1:A:2349:U:C2	1:A:2350:G:C8	3.01	0.48
1:A:2350:G:O2'	1:A:2351:C:O5'	2.31	0.48
1:A:2478:C:C2	1:A:2658:U:H2'	2.48	0.48
1:A:2487:U:H2'	1:A:2488:U:C2	2.48	0.48
1:A:3516:U:H2'	1:A:3517:C:C6	2.48	0.48
1:A:3573:A:H2'	1:A:3574:C:C6	2.47	0.48
1:A:3684:U:N3	1:A:3756:G:N1	2.61	0.48
1:A:3849:G:O2'	1:A:3850:A:O4'	2.31	0.48
1:A:3923:G:C6	1:A:4163:A:C5	3.01	0.48
1:A:4019:U:O4	1:A:4020:A:N6	2.27	0.48
2:M:221:MET:HG2	2:M:297:TRP:NE1	2.28	0.48
3:BA:8:LEU:CD2	3:MK:111:GLU:HG2	2.43	0.48
3:BB:125:ILE:HG13	3:BB:126:ASP:N	2.27	0.48
3:BD:35:LEU:HD11	3:JB:120:LEU:HD13	1.95	0.48
3:BF:11:ILE:HD12	3:IN:110:THR:OG1	2.12	0.48
3:BI:81:ASP:OD1	3:BI:81:ASP:O	2.31	0.48
3:CF:98:GLN:OE1	3:CG:43:ALA:HB2	2.13	0.48
3:CJ:123:ASP:OD2	3:HJ:1:ALA:HA	2.13	0.48
3:DA:110:THR:OG1	3:MM:11:ILE:CD1	2.57	0.48
3:DD:23:PRO:HA	3:DD:35:LEU:HD23	1.95	0.48
3:DD:52:VAL:O	3:DD:52:VAL:HG23	2.14	0.48
3:DD:108:VAL:O	3:DD:111:GLU:HG2	2.11	0.48
3:ED:24:ARG:HA	3:FA:129:ASN:ND2	2.27	0.48
3:EI:101:THR:HG22	3:EI:104:GLU:OE2	2.13	0.48
3:FB:98:GLN:HE22	3:FC:43:ALA:HA	1.78	0.48
3:FG:92:VAL:HG21	3:KG:112:LEU:HD21	1.96	0.48
3:FG:114:ALA:O	3:KG:8:LEU:HD11	2.13	0.48
3:FH:6:VAL:HG12	3:FH:8:LEU:HD21	1.95	0.48
3:FH:54:GLN:NE2	3:FH:55:PRO:O	2.46	0.48
3:FI:126:ASP:O	3:KE:105:ARG:NE	2.40	0.48
3:FJ:54:GLN:HB3	3:FJ:55:PRO:CD	2.43	0.48
3:FJ:97:THR:OG1	3:HF:86:ARG:NH1	2.45	0.48
3:GD:122:ILE:HA	3:KF:109:ARG:NH1	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GF:5:THR:HG23	3:GF:22:ASN:OD1	2.13	0.48
3:GH:10:ASN:OD1	3:GH:15:GLY:CA	2.60	0.48
3:GH:112:LEU:HG	3:KB:116:LEU:CD1	2.43	0.48
3:GJ:8:LEU:HD11	3:GN:114:ALA:HB1	1.94	0.48
3:GL:91:ASP:OD2	3:GL:91:ASP:N	2.45	0.48
3:GN:45:GLU:OE2	3:GN:46:LYS:O	2.31	0.48
3:HD:94:PHE:CE2	3:HD:108:VAL:HG12	2.49	0.48
3:HD:118:SER:O	3:HD:122:ILE:HG13	2.13	0.48
3:HJ:123:ASP:OD1	3:HJ:123:ASP:O	2.31	0.48
3:HK:108:VAL:HA	3:HK:111:GLU:OE1	2.13	0.48
3:HL:13:LYS:NZ	3:HL:13:LYS:HB2	2.27	0.48
3:IC:122:ILE:CB	3:JN:109:ARG:HH12	2.26	0.48
3:IE:91:ASP:O	3:JL:92:VAL:HA	2.13	0.48
3:IG:117:ALA:HA	3:JJ:109:ARG:NH2	2.27	0.48
3:IL:97:THR:N	3:IL:100:SER:OG	2.45	0.48
3:JB:34:SER:C	3:JB:35:LEU:HD22	2.32	0.48
3:JE:95:SER:C	3:JE:96:PHE:HD1	2.15	0.48
3:JE:103:GLU:HG2	3:JE:104:GLU:H	1.77	0.48
3:JK:118:SER:O	3:JK:122:ILE:HG12	2.12	0.48
3:JN:53:SER:OG	3:JN:63:LYS:HB2	2.13	0.48
3:KB:24:ARG:HB2	3:KB:34:SER:OG	2.13	0.48
3:KD:24:ARG:HB2	3:KD:34:SER:OG	2.13	0.48
3:KD:24:ARG:HE	3:KD:36:SER:CB	2.26	0.48
3:KK:55:PRO:HD3	3:KK:62:TYR:CE1	2.48	0.48
3:KK:85:THR:HG23	3:KK:86:ARG:HG3	1.95	0.48
3:LA:89:TYR:HB2	3:MD:95:SER:OG	2.13	0.48
3:LB:98:GLN:NE2	3:LB:98:GLN:O	2.46	0.48
3:LH:91:ASP:OD1	3:LH:92:VAL:N	2.46	0.48
3:LN:125:ILE:HD13	3:MI:64:VAL:HG11	1.92	0.48
3:MI:52:VAL:HG23	3:MI:64:VAL:CG2	2.40	0.48
3:MJ:101:THR:OG1	3:MJ:104:GLU:HG2	2.13	0.48
3:NB:54:GLN:HB3	3:NB:55:PRO:CD	2.43	0.48
1:A:698:C:N3	1:A:735:G:N1	2.61	0.48
1:A:1506:C:H2'	1:A:1507:A:C8	2.48	0.48
1:A:2046:G:H22	3:GG:59:ARG:CZ	2.26	0.48
1:A:2706:U:O2	1:A:2710:A:N6	2.46	0.48
1:A:2713:U:H2'	1:A:2714:C:C6	2.49	0.48
1:A:2736:C:N4	1:A:2822:U:OP1	2.43	0.48
1:A:3579:U:O2'	1:A:3580:U:H5'	2.13	0.48
1:A:3841:A:C6	1:A:3846:A:N7	2.81	0.48
1:A:4020:A:H2'	1:A:4021:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4110:C:H3'	1:A:4111:A:C8	2.48	0.48
3:D:48:VAL:HG13	3:D:68:ILE:HG12	1.94	0.48
3:BA:119:PRO:HA	3:BA:122:ILE:HG12	1.96	0.48
3:BF:18:THR:O	3:BF:19:LEU:HD22	2.14	0.48
3:BF:114:ALA:CB	3:IN:8:LEU:HD23	2.43	0.48
3:BK:52:VAL:O	3:BK:52:VAL:HG13	2.13	0.48
3:CH:132:TYR:CZ	3:HL:26:VAL:HG11	2.48	0.48
3:CI:79:SER:C	3:CI:80:CYS:SG	2.92	0.48
3:CL:11:ILE:HD12	3:HH:110:THR:CB	2.43	0.48
3:DG:13:LYS:NZ	3:EJ:106:ALA:HB3	2.28	0.48
3:DN:115:LEU:HD22	3:ML:8:LEU:CD1	2.43	0.48
3:DN:116:LEU:HD11	3:ML:109:ARG:HG3	1.95	0.48
3:EA:110:THR:OG1	3:LM:11:ILE:HD12	2.12	0.48
3:EB:99:TYR:OH	3:EC:83:SER:HA	2.12	0.48
3:EC:103:GLU:HA	3:LK:13:LYS:HZ2	1.78	0.48
3:EE:86:ARG:NH1	3:LI:101:THR:HG23	2.27	0.48
3:EF:115:LEU:C	3:EF:121:LEU:HD12	2.34	0.48
3:FH:122:ILE:O	3:FK:109:ARG:NH2	2.46	0.48
3:FJ:122:ILE:HA	3:HF:109:ARG:HH12	1.79	0.48
3:FK:24:ARG:NH1	3:HF:129:ASN:HA	2.28	0.48
3:FN:3:LEU:HD12	3:FN:23:PRO:HB2	1.94	0.48
3:GC:96:PHE:CE2	3:GC:105:ARG:HD2	2.48	0.48
3:GE:128:LEU:CD1	3:HE:105:ARG:NE	2.77	0.48
3:GL:92:VAL:HG22	3:HG:92:VAL:CG2	2.34	0.48
3:GM:56:SER:H	3:GM:59:ARG:HB2	1.78	0.48
3:GN:59:ARG:CZ	3:GN:63:LYS:HD2	2.44	0.48
3:HD:55:PRO:HG3	3:HD:62:TYR:HE1	1.78	0.48
3:HH:120:LEU:O	3:HH:123:ASP:OD1	2.31	0.48
3:HK:41:VAL:N	3:HK:42:PRO:CD	2.76	0.48
3:IG:64:VAL:HG11	3:JJ:125:ILE:CD1	2.44	0.48
3:IJ:26:VAL:CG1	3:NE:132:TYR:HE1	2.27	0.48
3:JM:56:SER:HB3	3:JM:59:ARG:HD3	1.95	0.48
3:JM:119:PRO:O	3:JM:122:ILE:HG22	2.13	0.48
3:KK:34:SER:O	3:KK:35:LEU:HD22	2.14	0.48
3:KM:96:PHE:CE2	3:KM:105:ARG:HD2	2.48	0.48
3:KM:105:ARG:NE	3:MF:128:LEU:HD11	2.28	0.48
3:LD:75:THR:HG22	3:LD:82:PRO:CG	2.44	0.48
3:LL:13:LYS:CD	3:MB:106:ALA:HB3	2.43	0.48
3:LN:100:SER:OG	3:LN:105:ARG:NH1	2.44	0.48
3:MH:26:VAL:O	3:MH:26:VAL:HG13	2.13	0.48
3:NG:7:THR:HG23	3:NG:20:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:211:G:H5'	1:A:3050:A:H4'	1.94	0.48
1:A:557:G:C6	1:A:611:G:C6	3.02	0.48
1:A:763:C:H4'	1:A:846:G:N7	2.27	0.48
1:A:1034:U:C2	3:IJ:57:ARG:CD	2.97	0.48
1:A:1755:A:H3'	1:A:1756:U:C5'	2.43	0.48
1:A:2994:A:H61	1:A:3394:A:N6	2.11	0.48
1:A:3540:U:OP2	3:GD:57:ARG:HG2	2.13	0.48
1:A:3546:A:C5	3:KF:67:LYS:HE3	2.48	0.48
1:A:3589:G:C6	1:A:3663:G:C2	3.01	0.48
1:A:3659:C:H2'	1:A:3660:G:C8	2.49	0.48
1:A:3663:G:C6	1:A:3664:U:C4	3.01	0.48
1:A:3825:C:H5'	3:FE:63:LYS:NZ	2.29	0.48
2:M:402:SER:O	2:M:406:VAL:HG23	2.14	0.48
3:B:105:ARG:NH2	3:D:126:ASP:O	2.31	0.48
3:BC:110:THR:CB	3:ND:11:ILE:HD12	2.44	0.48
3:BD:11:ILE:HD12	3:JB:110:THR:OG1	2.12	0.48
3:BD:105:ARG:CD	3:JB:128:LEU:HD11	2.43	0.48
3:BG:127:GLN:O	3:BG:129:ASN:ND2	2.47	0.48
3:CB:13:LYS:NZ	3:HC:103:GLU:CA	2.75	0.48
3:CC:79:SER:O	3:HC:74:CYS:SG	2.71	0.48
3:CH:17:GLN:OE1	3:CH:17:GLN:N	2.37	0.48
3:CI:13:LYS:NZ	3:DI:103:GLU:HA	2.28	0.48
3:CM:97:THR:HG22	3:NA:86:ARG:NH2	2.29	0.48
3:CM:111:GLU:O	3:CM:115:LEU:HD13	2.13	0.48
3:DD:81:ASP:HB3	3:DD:82:PRO:CD	2.43	0.48
3:DI:61:ASN:HA	3:DI:96:PHE:O	2.13	0.48
3:EA:131:ALA:HB1	3:LM:3:LEU:CD2	2.43	0.48
3:EC:21:LEU:HD21	3:EC:48:VAL:CG2	2.43	0.48
3:EF:116:LEU:HD22	3:FA:113:ALA:CB	2.40	0.48
3:EG:55:PRO:HD3	3:EG:62:TYR:CE2	2.49	0.48
3:EI:105:ARG:NE	3:GA:126:ASP:O	2.40	0.48
3:FA:41:VAL:HG11	3:FA:44:LEU:HD13	1.94	0.48
3:FG:127:GLN:OE1	3:FG:129:ASN:ND2	2.47	0.48
3:FH:6:VAL:HG12	3:FH:8:LEU:HD22	1.94	0.48
3:FH:58:ASN:OD1	3:FH:59:ARG:N	2.46	0.48
3:FH:130:PRO:HB3	3:FK:52:VAL:HG22	1.95	0.48
3:FK:98:GLN:NE2	3:FL:43:ALA:HA	2.27	0.48
3:FM:87:GLN:O	3:FM:87:GLN:HG3	2.13	0.48
3:FN:112:LEU:HD21	3:HB:68:ILE:CD1	2.43	0.48
3:GG:13:LYS:CE	3:JE:103:GLU:HA	2.43	0.48
3:GJ:59:ARG:NE	3:GJ:59:ARG:HA	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GK:67:LYS:O	3:GK:68:ILE:HD13	2.13	0.48
3:HI:125:ILE:HG13	3:HI:126:ASP:N	2.29	0.48
3:IG:101:THR:HG23	3:JJ:86:ARG:HH12	1.79	0.48
3:IM:48:VAL:HG13	3:IM:68:ILE:HD13	1.94	0.48
3:JA:24:ARG:CZ	3:JA:36:SER:OG	2.60	0.48
3:JB:32:VAL:HG13	3:JB:51:SER:OG	2.13	0.48
3:JK:61:ASN:OD1	3:JK:95:SER:OG	2.30	0.48
3:JN:117:ALA:O	3:JN:122:ILE:HD11	2.14	0.48
3:KB:65:GLN:HG2	3:KB:93:THR:HG22	1.96	0.48
3:KI:26:VAL:O	3:KI:28:PRO:CD	2.62	0.48
3:LA:122:ILE:HA	3:MD:109:ARG:NH1	2.27	0.48
3:LC:13:LYS:HD2	3:LC:13:LYS:N	2.28	0.48
3:MD:44:LEU:HD22	3:MF:98:GLN:O	2.12	0.48
3:MD:123:ASP:OD1	3:MD:129:ASN:HB2	2.13	0.48
3:NB:68:ILE:HD11	3:NF:111:GLU:CG	2.43	0.48
3:NB:98:GLN:HE21	3:NC:43:ALA:CA	2.25	0.48
3:NE:30:ASN:OD1	3:NE:32:VAL:CG2	2.61	0.48
3:NF:84:VAL:HG22	3:NF:87:GLN:NE2	2.28	0.48
3:NG:84:VAL:O	3:NG:84:VAL:HG23	2.13	0.48
1:A:100:A:H62	1:A:115:G:H5'	1.79	0.48
1:A:198:G:H2'	1:A:199:A:O4'	2.14	0.48
1:A:376:G:H4'	1:A:377:G:O5'	2.13	0.48
1:A:1450:U:H2'	1:A:1451:U:C6	2.48	0.48
1:A:1488:G:C5	1:A:1489:U:C4	3.01	0.48
1:A:1561:C:H2'	1:A:1562:C:O4'	2.14	0.48
1:A:2106:C:H2'	1:A:2107:G:O4'	2.12	0.48
1:A:2246:C:C2'	3:HF:47:ARG:HH12	2.26	0.48
1:A:2350:G:C2	1:A:2365:C:O2	2.63	0.48
1:A:3049:A:N6	1:A:3050:A:N6	2.61	0.48
1:A:3442:C:H2'	1:A:3443:G:C8	2.48	0.48
1:A:3809:G:P	3:KH:59:ARG:H	2.36	0.48
1:A:4013:C:O3'	1:A:4014:A:O4'	2.31	0.48
2:M:307:PRO:HB2	3:B:47:ARG:HH22	1.79	0.48
3:BA:55:PRO:HD3	3:BA:62:TYR:CE1	2.49	0.48
3:BA:111:GLU:OE2	3:MK:70:ASN:ND2	2.47	0.48
3:BC:91:ASP:OD1	3:BC:91:ASP:O	2.31	0.48
3:BD:11:ILE:HD11	3:JB:111:GLU:N	2.28	0.48
3:BD:60:LYS:N	3:BD:61:ASN:HB3	2.25	0.48
3:BD:122:ILE:HD12	3:JB:109:ARG:NE	2.28	0.48
3:BD:125:ILE:HD11	3:JB:94:PHE:CG	2.48	0.48
3:BH:75:THR:O	3:IM:79:SER:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:66:VAL:CG2	3:HC:121:LEU:HD21	2.41	0.48
3:CC:79:SER:HA	3:HC:76:ALA:HA	1.96	0.48
3:CF:11:ILE:CG1	3:GM:110:THR:HG23	2.44	0.48
3:CF:125:ILE:HG23	3:CF:126:ASP:N	2.29	0.48
3:CH:101:THR:HG23	3:HL:86:ARG:HH22	1.77	0.48
3:CI:21:LEU:HD12	3:CI:21:LEU:N	2.28	0.48
3:CN:132:TYR:O	3:DD:2:LYS:CE	2.61	0.48
3:DA:8:LEU:HD22	3:MM:114:ALA:CB	2.44	0.48
3:DA:97:THR:N	3:DA:100:SER:OG	2.47	0.48
3:DE:3:LEU:HD23	3:EL:132:TYR:CA	2.43	0.48
3:DL:55:PRO:HD3	3:DL:62:TYR:CE1	2.49	0.48
3:DM:99:TYR:H	3:EM:86:ARG:NH2	2.12	0.48
3:DM:120:LEU:HD11	3:EM:2:LYS:O	2.12	0.48
3:EA:105:ARG:CD	3:LM:128:LEU:HD11	2.44	0.48
3:EB:13:LYS:HZ3	3:MJ:103:GLU:HA	1.78	0.48
3:EB:30:ASN:OD1	3:EB:32:VAL:CG2	2.60	0.48
3:EC:3:LEU:CD2	3:LK:131:ALA:HB1	2.39	0.48
3:EC:55:PRO:HB3	3:EC:60:LYS:O	2.13	0.48
3:EF:116:LEU:HD11	3:FA:112:LEU:HB3	1.95	0.48
3:EJ:48:VAL:HG22	3:EJ:68:ILE:HD12	1.95	0.48
3:FB:63:LYS:NZ	3:FB:93:THR:HG23	2.28	0.48
3:FE:11:ILE:HD12	3:KI:110:THR:HB	1.94	0.48
3:FF:75:THR:O	3:LG:79:SER:HA	2.14	0.48
3:GE:128:LEU:HD11	3:HE:105:ARG:CD	2.43	0.48
3:GG:60:LYS:NZ	3:GG:98:GLN:HB2	2.28	0.48
3:GM:48:VAL:HG22	3:GM:68:ILE:HD12	1.95	0.48
3:HB:55:PRO:HD3	3:HB:62:TYR:CE1	2.47	0.48
3:HG:55:PRO:CB	3:HG:60:LYS:CD	2.92	0.48
3:HH:99:TYR:CE1	3:HI:83:SER:HA	2.49	0.48
3:HK:125:ILE:O	3:HK:128:LEU:HD12	2.14	0.48
3:IC:34:SER:C	3:IC:35:LEU:HD22	2.34	0.48
3:IC:56:SER:OG	3:IC:59:ARG:NH1	2.46	0.48
3:IC:60:LYS:HB2	3:IC:61:ASN:CB	2.43	0.48
3:IF:55:PRO:HG3	3:IF:62:TYR:CE1	2.49	0.48
3:IF:105:ARG:CD	3:NI:128:LEU:HD11	2.44	0.48
3:IG:115:LEU:CD2	3:IG:121:LEU:HD11	2.43	0.48
3:IH:102:ASP:OD1	3:IH:102:ASP:C	2.51	0.48
3:II:20:VAL:C	3:II:21:LEU:HD22	2.33	0.48
3:JA:24:ARG:HE	3:JA:36:SER:CB	2.25	0.48
3:JB:34:SER:O	3:JB:35:LEU:HD22	2.12	0.48
3:JF:112:LEU:HD11	3:KA:92:VAL:CG2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JM:122:ILE:HG13	3:JM:126:ASP:OD2	2.13	0.48
3:KC:64:VAL:HG11	3:LC:125:ILE:HD13	1.95	0.48
3:KG:84:VAL:O	3:KG:84:VAL:HG13	2.13	0.48
3:KH:60:LYS:HB2	3:KH:61:ASN:CB	2.44	0.48
3:KJ:8:LEU:CD1	3:LE:114:ALA:HB3	2.38	0.48
3:KM:12:GLY:H	3:MF:110:THR:HG21	1.79	0.48
3:KN:24:ARG:HB2	3:KN:34:SER:OG	2.14	0.48
3:LB:72:THR:HB	3:LB:86:ARG:HB3	1.95	0.48
3:LG:72:THR:OG1	3:LG:86:ARG:HB3	2.13	0.48
3:LL:103:GLU:OE2	3:LL:103:GLU:HA	2.13	0.48
3:LM:119:PRO:HA	3:LM:122:ILE:HD12	1.96	0.48
3:LN:97:THR:OG1	3:MI:86:ARG:NE	2.45	0.48
3:LN:110:THR:OG1	3:MI:11:ILE:HD12	2.14	0.48
3:MF:72:THR:HB	3:MF:86:ARG:HB3	1.95	0.48
3:MM:52:VAL:O	3:MM:52:VAL:CG2	2.60	0.48
3:NB:103:GLU:HA	3:NF:13:LYS:HZ2	1.79	0.48
3:NC:24:ARG:HB3	3:NC:34:SER:O	2.14	0.48
3:NG:65:GLN:CD	3:NG:93:THR:HG1	2.06	0.48
3:NJ:101:THR:HG22	3:NJ:104:GLU:OE2	2.13	0.48
1:A:250:C:H2'	1:A:251:G:C8	2.48	0.48
1:A:930:U:H2'	1:A:931:U:C6	2.49	0.48
1:A:1394:A:H4'	1:A:1395:C:OP2	2.13	0.48
1:A:1537:U:O2'	3:EJ:60:LYS:NZ	2.46	0.48
1:A:2210:C:O2	1:A:2210:C:H2'	2.12	0.48
1:A:2300:U:C2	1:A:2301:A:C8	3.01	0.48
1:A:2523:A:H2'	1:A:2524:G:O4'	2.13	0.48
1:A:2753:A:H2'	1:A:2754:A:C8	2.48	0.48
1:A:3304:A:H2'	1:A:3305:G:H5'	1.96	0.48
1:A:3329:U:O2'	1:A:3331:A:OP1	2.14	0.48
1:A:3617:A:C2	1:A:3622:U:O4	2.66	0.48
1:A:4178:A:C2	1:A:4179:C:O2	2.66	0.48
3:BA:105:ARG:CD	3:MK:128:LEU:HD11	2.43	0.48
3:BE:34:SER:C	3:BE:35:LEU:HD22	2.34	0.48
3:BE:119:PRO:O	3:BE:122:ILE:HB	2.14	0.48
3:BF:86:ARG:HH21	3:IN:101:THR:HG22	1.79	0.48
3:BG:18:THR:C	3:BG:19:LEU:HD22	2.33	0.48
3:BK:3:LEU:HD22	3:HK:131:ALA:HB1	1.96	0.48
3:BM:8:LEU:HD11	3:DJ:115:LEU:CD2	2.44	0.48
3:CA:125:ILE:HD12	3:DH:94:PHE:HD2	1.78	0.48
3:CB:52:VAL:HG12	3:CB:64:VAL:HG22	1.95	0.48
3:CB:84:VAL:O	3:CB:84:VAL:HG13	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:132:TYR:O	3:HA:3:LEU:HD22	2.13	0.48
3:CG:115:LEU:C	3:CG:121:LEU:HD12	2.34	0.48
3:CJ:109:ARG:HG3	3:CJ:110:THR:HG23	1.94	0.48
3:CM:100:SER:CA	3:NA:86:ARG:NH2	2.77	0.48
3:DA:118:SER:O	3:DA:122:ILE:HG12	2.14	0.48
3:DH:24:ARG:NH1	3:EJ:128:LEU:O	2.47	0.48
3:DM:13:LYS:NZ	3:EM:103:GLU:HB3	2.27	0.48
3:EB:67:LYS:O	3:EB:68:ILE:HD13	2.13	0.48
3:EB:103:GLU:HA	3:MJ:13:LYS:HE2	1.96	0.48
3:EB:109:ARG:HH12	3:MJ:126:ASP:H	1.61	0.48
3:EC:27:ASN:OD1	3:EC:29:THR:N	2.36	0.48
3:EG:84:VAL:O	3:EG:84:VAL:HG13	2.14	0.48
3:FB:55:PRO:HB3	3:FB:60:LYS:O	2.13	0.48
3:FD:49:THR:O	3:FD:66:VAL:HG13	2.13	0.48
3:FE:72:THR:HG21	3:FE:86:ARG:HH21	1.77	0.48
3:FF:8:LEU:HD22	3:LF:115:LEU:HG	1.94	0.48
3:FH:60:LYS:HB2	3:FH:61:ASN:CB	2.44	0.48
3:FI:8:LEU:HD21	3:KE:115:LEU:HG	1.95	0.48
3:FI:103:GLU:CA	3:KE:13:LYS:HZ2	2.26	0.48
3:FK:61:ASN:ND2	3:FK:96:PHE:O	2.46	0.48
3:GD:122:ILE:O	3:KF:109:ARG:NH1	2.47	0.48
3:GF:55:PRO:HA	3:GF:60:LYS:O	2.14	0.48
3:GH:101:THR:HG23	3:GH:104:GLU:H	1.79	0.48
3:GH:125:ILE:HG23	3:GH:126:ASP:N	2.29	0.48
3:GI:131:ALA:HB1	3:JC:3:LEU:HD21	1.96	0.48
3:GK:34:SER:C	3:GK:35:LEU:HD22	2.34	0.48
3:GK:55:PRO:HD2	3:GK:62:TYR:CE2	2.49	0.48
3:GK:98:GLN:HG3	3:GL:43:ALA:HB2	1.95	0.48
3:GK:110:THR:OG1	3:JA:11:ILE:HG23	2.13	0.48
3:HA:72:THR:HB	3:HA:86:ARG:HB2	1.96	0.48
3:HF:123:ASP:HB3	3:HF:129:ASN:HD22	1.79	0.48
3:HI:8:LEU:HD12	3:II:114:ALA:HB3	1.96	0.48
3:HK:99:TYR:OH	3:HL:84:VAL:HG12	2.13	0.48
3:HL:20:VAL:O	3:HL:20:VAL:HG23	2.13	0.48
3:HN:81:ASP:OD2	3:IB:99:TYR:CD1	2.67	0.48
3:HN:132:TYR:OXT	3:ID:2:LYS:HE3	2.12	0.48
3:IC:32:VAL:HG22	3:IC:51:SER:OG	2.14	0.48
3:IE:24:ARG:HB2	3:IE:34:SER:OG	2.13	0.48
3:II:101:THR:HG1	3:II:104:GLU:CD	2.17	0.48
3:IJ:122:ILE:CD1	3:NE:109:ARG:HH22	2.27	0.48
3:IN:34:SER:C	3:IN:35:LEU:HD12	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IN:97:THR:HG22	3:IN:98:GLN:N	2.29	0.48
3:JG:68:ILE:HD13	3:LD:112:LEU:HD13	1.96	0.48
3:JL:80:CYS:SG	3:KN:85:THR:HG21	2.54	0.48
3:KC:128:LEU:HD11	3:LC:105:ARG:NE	2.29	0.48
3:KH:126:ASP:O	3:KL:102:ASP:OD1	2.29	0.48
3:KJ:8:LEU:CD2	3:LE:111:GLU:OE2	2.62	0.48
3:KK:102:ASP:OD1	3:MH:126:ASP:HB3	2.13	0.48
3:KM:118:SER:O	3:KM:122:ILE:HG13	2.13	0.48
3:KN:84:VAL:HG23	3:KN:84:VAL:O	2.11	0.48
3:LC:4:GLU:OE1	3:LC:5:THR:O	2.31	0.48
3:LG:22:ASN:HB2	3:LG:23:PRO:HD2	1.96	0.48
3:MI:107:PHE:O	3:MI:111:GLU:HG3	2.13	0.48
3:MK:48:VAL:HG13	3:MK:68:ILE:HD13	1.96	0.48
3:MM:60:LYS:HB2	3:MM:61:ASN:HB2	1.96	0.48
3:NI:112:LEU:CD2	3:NI:116:LEU:HD11	2.44	0.48
3:NJ:59:ARG:HG3	3:NJ:61:ASN:OD1	2.14	0.48
1:A:189:U:C2	1:A:308:C:N3	2.82	0.48
1:A:972:A:H2'	1:A:973:U:O4'	2.13	0.48
1:A:1501:U:H2'	1:A:1502:A:O4'	2.14	0.48
1:A:2490:A:H62	1:A:2585:G:H21	1.62	0.48
1:A:2647:C:H2'	1:A:2648:A:C8	2.49	0.48
1:A:2679:C:O2'	1:A:2680:U:H5'	2.14	0.48
1:A:2776:U:H2'	1:A:2777:U:C2	2.48	0.48
1:A:3954:U:O2	1:A:4044:A:N6	2.46	0.48
1:A:4154:G:O6	1:A:4155:A:N6	2.47	0.48
3:BA:11:ILE:HD11	3:MK:111:GLU:N	2.29	0.48
3:BE:62:TYR:CG	3:CE:128:LEU:CD2	2.96	0.48
3:BE:114:ALA:HB3	3:CE:8:LEU:CG	2.43	0.48
3:BG:61:ASN:HA	3:BG:96:PHE:O	2.13	0.48
3:BL:91:ASP:OD1	3:BL:91:ASP:O	2.31	0.48
3:BM:97:THR:N	3:BM:100:SER:OG	2.46	0.48
3:CD:64:VAL:HG11	3:HA:125:ILE:CD1	2.44	0.48
3:CD:65:GLN:HG2	3:CD:93:THR:HG22	1.96	0.48
3:CG:42:PRO:C	3:CG:45:GLU:OE1	2.52	0.48
3:CI:19:LEU:HD21	3:DI:107:PHE:CZ	2.49	0.48
3:CJ:105:ARG:NE	3:HJ:126:ASP:O	2.47	0.48
3:CK:24:ARG:C	3:NA:129:ASN:OD1	2.51	0.48
3:DA:41:VAL:O	3:DA:45:GLU:OE1	2.32	0.48
3:DH:44:LEU:HD21	3:DH:73:ALA:HB2	1.95	0.48
3:DM:48:VAL:HG22	3:DM:68:ILE:CD1	2.44	0.48
3:DM:92:VAL:HG22	3:EM:92:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:85:THR:HG22	3:EB:85:THR:O	2.12	0.48
3:EB:128:LEU:HD23	3:MJ:62:TYR:CD2	2.49	0.48
3:EC:41:VAL:O	3:EC:45:GLU:OE1	2.31	0.48
3:EE:8:LEU:CG	3:EE:11:ILE:HG13	2.43	0.48
3:EE:123:ASP:HB3	3:EE:129:ASN:HD22	1.79	0.48
3:EF:60:LYS:HG2	3:EF:98:GLN:HG2	1.95	0.48
3:EI:4:GLU:O	3:EI:6:VAL:HG23	2.12	0.48
3:EL:84:VAL:O	3:EL:84:VAL:HG13	2.13	0.48
3:EM:65:GLN:HE22	3:EM:93:THR:HG22	1.79	0.48
3:FD:51:SER:O	3:FD:64:VAL:HG13	2.13	0.48
3:FI:87:GLN:HG3	3:FI:89:TYR:CE1	2.49	0.48
3:GE:111:GLU:OE2	3:HE:19:LEU:HD21	2.13	0.48
3:GF:64:VAL:HG11	3:KD:125:ILE:CD1	2.44	0.48
3:GF:84:VAL:O	3:GF:84:VAL:HG23	2.13	0.48
3:GM:61:ASN:HA	3:GM:96:PHE:O	2.14	0.48
3:HC:54:GLN:NE2	3:HD:24:ARG:HB3	2.29	0.48
3:IB:109:ARG:CZ	3:IK:122:ILE:HD12	2.43	0.48
3:JA:97:THR:O	3:JA:100:SER:OG	2.28	0.48
3:JD:26:VAL:HG23	3:JD:33:ALA:N	2.28	0.48
3:JF:21:LEU:HB3	3:JF:35:LEU:HB3	1.95	0.48
3:JG:6:VAL:HG12	3:JG:8:LEU:HD21	1.96	0.48
3:JG:65:GLN:OE1	3:JG:93:THR:OG1	2.31	0.48
3:KE:119:PRO:HA	3:KE:122:ILE:HG12	1.94	0.48
3:KH:122:ILE:HD13	3:KL:109:ARG:CZ	2.44	0.48
3:KH:126:ASP:C	3:KL:102:ASP:OD1	2.52	0.48
3:KM:90:ALA:HB1	3:MF:94:PHE:CE2	2.48	0.48
3:KN:119:PRO:HA	3:KN:122:ILE:HG12	1.96	0.48
3:LA:59:ARG:HB3	3:LA:61:ASN:OD1	2.14	0.48
3:LL:110:THR:CB	3:MB:11:ILE:HD12	2.43	0.48
3:MA:97:THR:N	3:MA:100:SER:HG	2.12	0.48
3:MJ:21:LEU:HD12	3:MJ:21:LEU:N	2.28	0.48
3:ML:27:ASN:OD1	3:ML:29:THR:HG22	2.14	0.48
3:MM:125:ILE:CG2	3:MM:126:ASP:N	2.76	0.48
3:ND:6:VAL:HG12	3:ND:8:LEU:CD2	2.44	0.48
3:NF:109:ARG:HD3	3:NF:110:THR:N	2.29	0.48
3:NI:47:ARG:CZ	3:NI:47:ARG:HB2	2.44	0.48
1:A:205:C:O4'	1:A:205:C:O2	2.30	0.48
1:A:713:U:H2'	1:A:714:C:C6	2.48	0.48
1:A:1323:A:H2'	1:A:1323:A:N3	2.29	0.48
1:A:1587:G:C6	1:A:1588:A:C6	3.01	0.48
1:A:1869:G:O5'	1:A:1869:G:H8	1.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2598:A:C6	1:A:2655:G:C6	3.02	0.48
1:A:2889:A:H2'	1:A:2890:C:C6	2.47	0.48
1:A:3299:C:H2'	1:A:3300:U:O4'	2.14	0.48
1:A:3706:A:N3	1:A:3733:A:N6	2.61	0.48
1:A:3758:U:P	3:FD:60:LYS:HZ2	2.28	0.48
1:A:3995:U:P	1:A:3997:A:H61	2.37	0.48
2:M:233:ARG:HA	2:M:233:ARG:HH11	1.78	0.48
2:M:351:ASP:OD1	2:M:351:ASP:N	2.45	0.48
3:BB:57:ARG:HG2	3:BB:57:ARG:HH11	1.78	0.48
3:BE:54:GLN:HB2	3:BE:55:PRO:HD2	1.96	0.48
3:BG:41:VAL:HA	3:BG:44:LEU:CD2	2.44	0.48
3:BH:3:LEU:CD1	3:IL:131:ALA:HB1	2.44	0.48
3:BL:102:ASP:OD2	3:CG:126:ASP:O	2.31	0.48
3:BN:79:SER:O	3:DJ:74:CYS:HB3	2.13	0.48
3:CB:91:ASP:OD1	3:CB:91:ASP:O	2.31	0.48
3:CD:125:ILE:HD12	3:HA:94:PHE:CD2	2.47	0.48
3:CN:111:GLU:OE2	3:CN:111:GLU:HA	2.13	0.48
3:DD:62:TYR:HE2	3:DE:42:PRO:CB	2.27	0.48
3:EA:3:LEU:HD23	3:EA:3:LEU:H	1.78	0.48
3:EB:79:SER:HA	3:LM:76:ALA:HA	1.95	0.48
3:EC:8:LEU:HD13	3:LK:115:LEU:HD22	1.93	0.48
3:EG:102:ASP:OD1	3:GC:126:ASP:OD1	2.31	0.48
3:EM:44:LEU:O	3:EM:44:LEU:HD12	2.13	0.48
3:EN:34:SER:C	3:EN:35:LEU:HD22	2.34	0.48
3:FC:96:PHE:HZ	3:GB:125:ILE:HG23	1.79	0.48
3:FI:70:ASN:N	3:FI:87:GLN:OE1	2.46	0.48
3:FJ:132:TYR:OH	3:HF:26:VAL:HG11	2.14	0.48
3:FK:24:ARG:CZ	3:HF:129:ASN:HA	2.44	0.48
3:FN:109:ARG:NH2	3:HB:117:ALA:HA	2.29	0.48
3:GB:115:LEU:HB3	3:GB:121:LEU:HD12	1.96	0.48
3:GC:119:PRO:HA	3:GC:122:ILE:HB	1.96	0.48
3:GF:92:VAL:HG22	3:KD:92:VAL:HG22	1.94	0.48
3:GG:37:GLN:HB2	3:GG:46:LYS:HD3	1.96	0.48
3:GH:128:LEU:HD11	3:KB:105:ARG:NE	2.29	0.48
3:GK:116:LEU:CD1	3:JA:112:LEU:HD22	2.43	0.48
3:IA:75:THR:HG23	3:IA:82:PRO:HG3	1.96	0.48
3:IE:34:SER:C	3:IE:35:LEU:HD12	2.33	0.48
3:IF:18:THR:O	3:IF:19:LEU:HD22	2.14	0.48
3:IH:123:ASP:HB3	3:IH:129:ASN:HD22	1.79	0.48
3:IJ:97:THR:N	3:IJ:100:SER:OG	2.47	0.48
3:IK:43:ALA:C	3:IK:44:LEU:HD22	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IL:56:SER:OG	3:IL:57:ARG:N	2.46	0.48
3:IM:10:ASN:OD1	3:IM:10:ASN:O	2.32	0.48
3:JD:3:LEU:HD12	3:JD:3:LEU:N	2.29	0.48
3:JD:41:VAL:O	3:JD:44:LEU:HG	2.12	0.48
3:JF:53:SER:OG	3:JF:63:LYS:HB3	2.13	0.48
3:JL:101:THR:HG23	3:JL:104:GLU:H	1.79	0.48
3:KN:18:THR:O	3:KN:19:LEU:HD22	2.14	0.48
3:LB:74:CYS:SG	3:LB:85:THR:HG21	2.53	0.48
3:LI:21:LEU:HB3	3:LI:35:LEU:HB3	1.96	0.48
3:LL:116:LEU:HD23	3:LL:116:LEU:C	2.34	0.48
3:MA:24:ARG:HH12	3:NJ:128:LEU:HB2	1.78	0.48
3:MD:44:LEU:HD13	3:MF:98:GLN:NE2	2.29	0.48
3:ME:48:VAL:HG13	3:ME:68:ILE:CD1	2.44	0.48
3:MF:81:ASP:OD1	3:MF:81:ASP:N	2.45	0.48
3:MH:121:LEU:O	3:MH:125:ILE:HD12	2.13	0.48
3:MI:41:VAL:O	3:MI:45:GLU:OE1	2.32	0.48
3:NC:27:ASN:ND2	3:NC:29:THR:OG1	2.46	0.48
1:A:10:C:O3’	1:A:11:U:O4’	2.31	0.48
1:A:37:A:O2’	1:A:38:C:H5’	2.13	0.48
1:A:458:U:H4’	1:A:459:U:OP2	2.12	0.48
1:A:536:A:P	3:CI:67:LYS:NZ	2.87	0.48
1:A:900:C:O2	1:A:900:C:H2’	2.14	0.48
1:A:1088:A:N1	1:A:1194:C:N4	2.62	0.48
1:A:1262:U:H5	1:A:1285:G:O6	1.96	0.48
1:A:1497:U:H4’	1:A:1498:C:C5	2.49	0.48
1:A:1631:G:H1’	3:BG:57:ARG:HH21	1.79	0.48
1:A:1911:U:O3’	1:A:1912:A:H8	1.97	0.48
1:A:2292:A:C8	1:A:2293:A:C5	3.02	0.48
1:A:2361:A:C2	1:A:2362:C:C5	3.01	0.48
1:A:2418:A:H2’	1:A:2419:U:O4’	2.14	0.48
1:A:3208:U:H2’	1:A:3209:C:O4’	2.14	0.48
1:A:3694:U:H2’	1:A:3695:C:H6	1.78	0.48
3:BD:122:ILE:CA	3:JB:105:ARG:NH2	2.77	0.48
3:BD:125:ILE:O	3:JB:105:ARG:HG3	2.14	0.48
3:BH:65:GLN:HA	3:BH:65:GLN:OE1	2.12	0.48
3:BH:79:SER:C	3:BH:80:CYS:SG	2.92	0.48
3:BL:100:SER:OG	3:BL:105:ARG:NH1	2.46	0.48
3:BN:86:ARG:NH1	3:BN:86:ARG:HB3	2.29	0.48
3:CK:65:GLN:N	3:CK:65:GLN:OE1	2.47	0.48
3:DE:116:LEU:HD11	3:EL:109:ARG:CG	2.43	0.48
3:EE:8:LEU:HG	3:EE:11:ILE:HG13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EG:122:ILE:HG22	3:GC:109:ARG:HD2	1.96	0.48
3:EJ:30:ASN:OD1	3:EJ:32:VAL:HG23	2.14	0.48
3:EN:49:THR:OG1	3:EN:67:LYS:CG	2.62	0.48
3:EN:59:ARG:HB3	3:EN:61:ASN:OD1	2.14	0.48
3:FG:110:THR:HB	3:KG:11:ILE:HD12	1.96	0.48
3:FJ:128:LEU:HD11	3:HF:105:ARG:NE	2.29	0.48
3:FM:23:PRO:O	3:FM:24:ARG:HD2	2.13	0.48
3:FN:11:ILE:HG22	3:FN:17:GLN:C	2.34	0.48
3:GA:121:LEU:HA	3:GA:124:ALA:HB3	1.95	0.48
3:GB:8:LEU:HD12	3:GB:19:LEU:HD23	1.96	0.48
3:GC:22:ASN:O	3:GC:24:ARG:NH1	2.47	0.48
3:GG:119:PRO:HA	3:GG:122:ILE:HG12	1.95	0.48
3:GI:115:LEU:C	3:GI:121:LEU:HD12	2.34	0.48
3:GM:55:PRO:HD3	3:GM:62:TYR:CD1	2.49	0.48
3:HA:32:VAL:HG23	3:HA:51:SER:OG	2.14	0.48
3:HB:8:LEU:HD12	3:HB:8:LEU:N	2.29	0.48
3:HE:56:SER:N	3:HE:59:ARG:HB2	2.28	0.48
3:HE:60:LYS:HB2	3:HE:61:ASN:HB2	1.95	0.48
3:HH:127:GLN:HB2	3:HH:129:ASN:OD1	2.14	0.48
3:HN:32:VAL:HG13	3:HN:51:SER:OG	2.14	0.48
3:IB:90:ALA:HB1	3:IK:94:PHE:CE1	2.49	0.48
3:IH:125:ILE:HD11	3:NG:64:VAL:HG11	1.95	0.48
3:IJ:85:THR:HG22	3:IJ:85:THR:O	2.14	0.48
3:IM:3:LEU:CD2	3:JM:131:ALA:HB1	2.44	0.48
3:JD:41:VAL:N	3:JD:42:PRO:CD	2.77	0.48
3:JL:24:ARG:NE	3:JL:36:SER:OG	2.47	0.48
3:KB:96:PHE:CE1	3:KB:105:ARG:HG2	2.49	0.48
3:KE:3:LEU:HD21	3:KE:33:ALA:HB1	1.95	0.48
3:KI:96:PHE:CE2	3:KI:105:ARG:CG	2.97	0.48
3:KK:61:ASN:HA	3:KK:96:PHE:O	2.13	0.48
3:LL:20:VAL:C	3:LL:21:LEU:HD22	2.34	0.48
3:LN:132:TYR:C	3:MI:3:LEU:HD13	2.33	0.48
3:MC:32:VAL:HG12	3:MC:51:SER:HB2	1.95	0.48
3:ME:55:PRO:HD3	3:ME:62:TYR:CD2	2.49	0.48
3:ME:114:ALA:CB	3:NH:8:LEU:HD23	2.43	0.48
3:NB:110:THR:CB	3:NF:11:ILE:HD12	2.43	0.48
3:NI:21:LEU:HD12	3:NI:21:LEU:N	2.29	0.48
3:NI:125:ILE:O	3:NI:128:LEU:HD12	2.14	0.48
1:A:877:C:N3	1:A:923:A:N1	2.62	0.48
1:A:1269:G:C6	1:A:1279:G:C6	3.02	0.48
1:A:1706:G:C6	1:A:1729:U:O4	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1920:G:N2	1:A:1999:G:C5	2.82	0.48
1:A:2195:U:O2'	1:A:2196:G:O4'	2.24	0.48
1:A:2329:C:H2'	1:A:2330:U:H6	1.77	0.48
1:A:2418:A:OP1	2:M:180:ARG:NH2	2.47	0.48
1:A:2604:G:O2'	1:A:2618:A:N6	2.47	0.48
1:A:2635:A:N7	3:GB:56:SER:HA	2.29	0.48
1:A:2641:U:O2'	1:A:2642:G:H5'	2.12	0.48
1:A:2888:U:H2'	1:A:2889:A:O4'	2.14	0.48
1:A:3106:A:H2'	1:A:3107:U:O4'	2.13	0.48
2:M:313:GLU:C	2:M:314:LEU:HD22	2.34	0.48
3:BA:103:GLU:OE1	3:MK:13:LYS:CE	2.61	0.48
3:BA:108:VAL:O	3:BA:111:GLU:HG2	2.13	0.48
3:BC:52:VAL:HG12	3:ND:130:PRO:HA	1.96	0.48
3:BI:126:ASP:N	3:HM:109:ARG:HH22	2.11	0.48
3:BI:129:ASN:OD1	3:HK:24:ARG:HA	2.13	0.48
3:BJ:24:ARG:NH2	3:BJ:43:ALA:O	2.47	0.48
3:BJ:125:ILE:HD11	3:BN:64:VAL:HG11	1.96	0.48
3:CE:41:VAL:O	3:CE:44:LEU:HG	2.13	0.48
3:CK:41:VAL:HG13	3:CK:44:LEU:HD11	1.96	0.48
3:CL:11:ILE:HD12	3:HH:110:THR:OG1	2.14	0.48
3:CM:19:LEU:HD12	3:NA:111:GLU:OE2	2.13	0.48
3:CM:24:ARG:NH2	3:HH:130:PRO:CD	2.76	0.48
3:DB:122:ILE:HD13	3:DK:109:ARG:CZ	2.43	0.48
3:DC:18:THR:O	3:DC:19:LEU:HD22	2.14	0.48
3:DC:124:ALA:O	3:DC:128:LEU:HA	2.13	0.48
3:DD:121:LEU:O	3:DD:125:ILE:HG22	2.13	0.48
3:DE:55:PRO:HB3	3:DE:60:LYS:CD	2.44	0.48
3:DF:11:ILE:HG23	3:DF:17:GLN:HB2	1.96	0.48
3:DI:48:VAL:HG22	3:DI:68:ILE:CD1	2.44	0.48
3:DL:100:SER:HA	3:MN:86:ARG:HH21	1.79	0.48
3:EA:41:VAL:O	3:EA:44:LEU:HG	2.13	0.48
3:EC:127:GLN:C	3:EC:128:LEU:HD12	2.34	0.48
3:FC:105:ARG:HD2	3:GB:128:LEU:HD21	1.95	0.48
3:FF:86:ARG:HH12	3:LF:99:TYR:CB	2.25	0.48
3:FI:79:SER:HA	3:FK:76:ALA:HA	1.95	0.48
3:GA:6:VAL:HG12	3:GA:8:LEU:CD1	2.44	0.48
3:GC:21:LEU:HD23	3:GC:37:GLN:N	2.29	0.48
3:GF:51:SER:HB3	3:GF:65:GLN:HG2	1.95	0.48
3:GG:54:GLN:HB2	3:GG:55:PRO:CD	2.44	0.48
3:GH:79:SER:O	3:GH:80:CYS:SG	2.72	0.48
3:GJ:56:SER:N	3:GJ:59:ARG:HB2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GK:55:PRO:HD2	3:GK:62:TYR:CD2	2.48	0.48
3:GM:118:SER:O	3:GM:122:ILE:HG12	2.14	0.48
3:GM:127:GLN:HA	3:GM:127:GLN:OE1	2.14	0.48
3:HA:116:LEU:HD13	3:HA:121:LEU:CD2	2.44	0.48
3:HB:54:GLN:HA	3:HB:62:TYR:CD1	2.49	0.48
3:HM:56:SER:O	3:HM:60:LYS:HD3	2.13	0.48
3:HN:128:LEU:HD22	3:ID:62:TYR:CD2	2.49	0.48
3:IE:56:SER:O	3:IE:60:LYS:HD3	2.13	0.48
3:IH:105:ARG:NE	3:NG:128:LEU:CD1	2.72	0.48
3:JD:68:ILE:CG2	3:JD:90:ALA:HB3	2.44	0.48
3:JE:101:THR:O	3:JE:104:GLU:HG2	2.14	0.48
3:JG:14:ASP:OD1	3:JG:15:GLY:N	2.47	0.48
3:JL:8:LEU:HD22	3:JL:8:LEU:N	2.29	0.48
3:JM:119:PRO:HA	3:JM:122:ILE:CG2	2.44	0.48
3:JN:79:SER:O	3:JN:80:CYS:CB	2.62	0.48
3:KJ:114:ALA:HB1	3:LE:8:LEU:HD12	1.96	0.48
3:KL:79:SER:O	3:KL:80:CYS:CB	2.61	0.48
3:KM:91:ASP:OD1	3:MF:93:THR:O	2.31	0.48
3:LA:116:LEU:HD23	3:MD:113:ALA:HB2	1.96	0.48
3:LE:55:PRO:HA	3:LE:60:LYS:O	2.13	0.48
3:LL:75:THR:O	3:LL:75:THR:HG23	2.14	0.48
3:MB:67:LYS:NZ	3:MB:91:ASP:HB3	2.29	0.48
3:MB:75:THR:HG22	3:MB:82:PRO:CG	2.44	0.48
3:MB:91:ASP:OD1	3:MB:91:ASP:O	2.32	0.48
3:MC:105:ARG:HH22	3:NJ:127:GLN:C	2.16	0.48
3:MH:11:ILE:CG2	3:MH:17:GLN:HG3	2.42	0.48
3:ML:112:LEU:O	3:ML:116:LEU:HD13	2.13	0.48
3:NC:30:ASN:OD1	3:NC:32:VAL:HG23	2.14	0.48
3:NC:32:VAL:HG22	3:NC:51:SER:HB2	1.95	0.48
3:NE:56:SER:O	3:NE:59:ARG:O	2.31	0.48
1:A:2046:G:H22	3:GG:59:ARG:NE	2.12	0.47
1:A:2247:A:P	3:HE:54:GLN:OE1	2.72	0.47
1:A:2903:G:H2'	1:A:2904:A:H8	1.79	0.47
1:A:3105:A:OP2	1:A:3106:A:N7	2.47	0.47
1:A:3169:U:O2	1:A:3213:G:H5"	2.14	0.47
1:A:3309:A:H2'	1:A:3310:U:O4'	2.14	0.47
1:A:3463:U:C2	1:A:3522:G:C2	3.02	0.47
1:A:3546:A:C5	3:KF:67:LYS:CE	2.97	0.47
1:A:3582:U:H2'	1:A:3582:U:O2	2.14	0.47
1:A:3960:G:C5	1:A:3961:A:N7	2.82	0.47
1:A:4152:G:H2'	1:A:4153:U:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:56:VAL:HG13	2:M:118:ARG:NH2	2.29	0.47
2:M:228:HIS:CD2	2:M:232:GLN:OE1	2.67	0.47
3:D:48:VAL:HG22	3:D:68:ILE:HG23	1.96	0.47
3:BA:24:ARG:HB2	3:BA:34:SER:OG	2.14	0.47
3:BC:2:LYS:HA	3:ND:132:TYR:OXT	2.14	0.47
3:BE:11:ILE:HD11	3:CE:111:GLU:CA	2.44	0.47
3:BG:130:PRO:HB3	3:IA:52:VAL:HG12	1.95	0.47
3:BJ:3:LEU:HG	3:BJ:23:PRO:HB3	1.94	0.47
3:BL:114:ALA:CB	3:CG:8:LEU:HD23	2.44	0.47
3:CH:112:LEU:HD11	3:HL:92:VAL:CG2	2.44	0.47
3:CJ:25:GLY:HA2	3:DI:132:TYR:HE2	1.77	0.47
3:CJ:87:GLN:N	3:CJ:87:GLN:OE1	2.47	0.47
3:CJ:100:SER:HA	3:HJ:86:ARG:HH21	1.78	0.47
3:CM:1:ALA:N	3:NA:123:ASP:OD2	2.38	0.47
3:CM:132:TYR:OH	3:MN:26:VAL:O	2.32	0.47
3:DA:96:PHE:HB3	3:DA:100:SER:OG	2.14	0.47
3:DB:111:GLU:OE2	3:DK:68:ILE:HD13	2.14	0.47
3:DF:4:GLU:N	3:DF:4:GLU:OE1	2.47	0.47
3:DF:118:SER:OG	3:DF:119:PRO:HD2	2.14	0.47
3:DH:74:CYS:O	3:DH:74:CYS:SG	2.72	0.47
3:DL:13:LYS:HD2	3:MN:103:GLU:OE1	2.14	0.47
3:DN:8:LEU:HD21	3:ML:118:SER:HB2	1.96	0.47
3:FB:73:ALA:CB	3:FB:84:VAL:HA	2.43	0.47
3:FD:129:ASN:OD1	3:LF:24:ARG:NE	2.47	0.47
3:FF:86:ARG:NH2	3:LF:99:TYR:C	2.67	0.47
3:FF:125:ILE:HD13	3:LF:64:VAL:HG11	1.95	0.47
3:FH:21:LEU:HD23	3:FH:37:GLN:HA	1.96	0.47
3:FM:119:PRO:O	3:FM:122:ILE:HG12	2.14	0.47
3:FN:122:ILE:HG12	3:HB:109:ARG:HH12	1.79	0.47
3:GE:96:PHE:CD1	3:GE:105:ARG:CD	2.96	0.47
3:GM:60:LYS:HB3	3:GM:61:ASN:CB	2.44	0.47
3:GN:47:ARG:HD3	3:GN:69:GLN:NE2	2.29	0.47
3:HL:55:PRO:HD3	3:HL:62:TYR:CE1	2.49	0.47
3:IA:118:SER:OG	3:IA:119:PRO:HD2	2.14	0.47
3:IC:11:ILE:HD11	3:JN:111:GLU:N	2.29	0.47
3:IH:122:ILE:CD1	3:NG:109:ARG:CZ	2.91	0.47
3:IL:60:LYS:HB2	3:IL:61:ASN:CB	2.44	0.47
3:JD:32:VAL:HG13	3:JD:51:SER:HG	1.77	0.47
3:JI:20:VAL:O	3:JI:20:VAL:HG23	2.14	0.47
3:JI:23:PRO:O	3:JI:24:ARG:NH1	2.47	0.47
3:JN:109:ARG:CG	3:JN:110:THR:N	2.75	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KA:98:GLN:OE1	3:KA:99:TYR:CD2	2.67	0.47
3:KJ:52:VAL:HG12	3:KJ:64:VAL:HG22	1.96	0.47
3:KK:86:ARG:NH1	3:MH:99:TYR:HB2	2.29	0.47
3:LA:126:ASP:O	3:MD:105:ARG:NH2	2.47	0.47
3:LK:103:GLU:O	3:LK:107:PHE:CD2	2.66	0.47
3:MC:130:PRO:HD2	3:NH:25:GLY:CA	2.44	0.47
3:ML:55:PRO:HD3	3:ML:62:TYR:CE2	2.49	0.47
3:MM:6:VAL:HG12	3:MM:8:LEU:HD22	1.96	0.47
3:NA:55:PRO:HA	3:NA:60:LYS:O	2.14	0.47
3:NG:125:ILE:O	3:NG:128:LEU:HD12	2.14	0.47
3:NJ:35:LEU:HD12	3:NJ:35:LEU:N	2.29	0.47
1:A:400:A:C2	3:DJ:89:TYR:CD2	3.02	0.47
1:A:623:A:C2	1:A:626:C:N3	2.83	0.47
1:A:1014:C:OP1	1:A:3195:A:C2	2.66	0.47
1:A:1413:C:H2'	1:A:1414:C:O4'	2.14	0.47
1:A:1655:G:H2'	1:A:1656:G:C8	2.49	0.47
1:A:2359:A:H4'	1:A:2360:G:N7	2.29	0.47
1:A:2924:A:O2'	3:FM:57:ARG:CZ	2.62	0.47
1:A:3371:U:O2'	1:A:3372:C:O4'	2.23	0.47
1:A:3602:G:N2	1:A:3603:A:H62	2.13	0.47
2:M:208:TYR:OH	2:M:306:ASN:O	2.32	0.47
3:BA:60:LYS:N	3:BA:61:ASN:HB3	2.28	0.47
3:BD:41:VAL:HG13	3:BD:44:LEU:HD11	1.95	0.47
3:BK:115:LEU:CD1	3:HK:48:VAL:HG11	2.37	0.47
3:BM:84:VAL:O	3:BM:84:VAL:HG13	2.14	0.47
3:CA:119:PRO:HA	3:CA:122:ILE:CG1	2.44	0.47
3:CC:86:ARG:HH12	3:DF:100:SER:CA	2.26	0.47
3:CC:92:VAL:HG21	3:DF:112:LEU:HD11	1.96	0.47
3:CF:116:LEU:HA	3:CF:121:LEU:HD12	1.94	0.47
3:CH:60:LYS:HB2	3:CH:61:ASN:HB2	1.95	0.47
3:CI:128:LEU:HD11	3:DI:105:ARG:NE	2.29	0.47
3:DA:30:ASN:OD1	3:DA:32:VAL:HG23	2.14	0.47
3:DC:55:PRO:HD3	3:DC:62:TYR:CE2	2.49	0.47
3:DH:32:VAL:HG12	3:DH:51:SER:HB2	1.96	0.47
3:DN:8:LEU:HD13	3:ML:114:ALA:HB3	1.95	0.47
3:EB:32:VAL:HG22	3:EB:51:SER:CB	2.38	0.47
3:ED:30:ASN:OD1	3:ED:30:ASN:C	2.53	0.47
3:EG:115:LEU:CD2	3:GC:8:LEU:HD11	2.44	0.47
3:EI:125:ILE:CD1	3:GA:109:ARG:HG2	2.41	0.47
3:EI:132:TYR:N	3:GA:3:LEU:HD23	2.28	0.47
3:EJ:52:VAL:HG12	3:EJ:64:VAL:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FK:24:ARG:C	3:FK:24:ARG:HE	2.17	0.47
3:FN:46:LYS:HZ1	3:HB:107:PHE:HZ	1.58	0.47
3:GF:42:PRO:HA	3:GF:45:GLU:CD	2.34	0.47
3:GH:74:CYS:SG	3:KC:79:SER:O	2.71	0.47
3:GH:112:LEU:CD2	3:KB:116:LEU:HD11	2.44	0.47
3:GJ:103:GLU:N	3:GJ:103:GLU:OE1	2.31	0.47
3:GK:86:ARG:NH2	3:JA:99:TYR:O	2.47	0.47
3:HC:91:ASP:OD2	3:HC:91:ASP:O	2.31	0.47
3:HJ:11:ILE:HG23	3:HJ:17:GLN:HB2	1.95	0.47
3:HM:55:PRO:HA	3:HM:60:LYS:O	2.13	0.47
3:HM:121:LEU:HA	3:HM:124:ALA:HB3	1.96	0.47
3:ID:21:LEU:HD12	3:ID:37:GLN:N	2.29	0.47
3:IH:115:LEU:HD11	3:IH:121:LEU:CD2	2.43	0.47
3:IJ:119:PRO:HA	3:IJ:122:ILE:HG13	1.96	0.47
3:IK:116:LEU:HD23	3:IK:121:LEU:HD13	1.95	0.47
3:IM:92:VAL:HG22	3:JM:92:VAL:HG22	1.95	0.47
3:IM:97:THR:N	3:IM:100:SER:HG	2.12	0.47
3:IN:11:ILE:CG2	3:IN:17:GLN:HB2	2.43	0.47
3:JF:11:ILE:HD12	3:KA:110:THR:HB	1.97	0.47
3:JL:55:PRO:HB3	3:JL:60:LYS:HB3	1.95	0.47
3:KA:11:ILE:HG23	3:KA:17:GLN:HB3	1.96	0.47
3:LK:68:ILE:HD12	3:LK:68:ILE:N	2.29	0.47
3:LL:96:PHE:CE2	3:LL:105:ARG:HG2	2.50	0.47
3:MA:24:ARG:HB3	3:MA:34:SER:HB2	1.96	0.47
3:MC:97:THR:HG21	3:NJ:86:ARG:HG3	1.95	0.47
3:MJ:60:LYS:H	3:MJ:61:ASN:HB3	1.79	0.47
3:NC:95:SER:O	3:NC:96:PHE:CD1	2.68	0.47
3:NE:97:THR:O	3:NE:100:SER:OG	2.31	0.47
3:NJ:87:GLN:HB3	3:NJ:89:TYR:CZ	2.49	0.47
1:A:123:G:OP1	3:LL:57:ARG:O	2.32	0.47
1:A:864:C:H2'	1:A:864:C:O2	2.14	0.47
1:A:2515:U:H2'	1:A:2516:C:C6	2.49	0.47
1:A:2910:G:C6	1:A:2933:A:N1	2.82	0.47
1:A:3282:G:C5	1:A:3283:A:C5	3.03	0.47
1:A:3582:U:O2	1:A:3583:A:C1'	2.63	0.47
1:A:4008:A:C5	1:A:4009:U:C5	3.02	0.47
1:A:4071:C:H2'	1:A:4072:C:C6	2.49	0.47
2:M:22:LEU:HD11	2:M:81:THR:HA	1.96	0.47
3:BC:6:VAL:HG12	3:BC:8:LEU:HD11	1.96	0.47
3:BE:11:ILE:HD11	3:CE:111:GLU:N	2.29	0.47
3:BH:100:SER:C	3:IL:86:ARG:NH2	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:114:ALA:CB	3:IL:8:LEU:HD12	2.42	0.47
3:BI:56:SER:OG	3:BI:59:ARG:NE	2.47	0.47
3:BI:105:ARG:CD	3:HM:128:LEU:HD11	2.43	0.47
3:BJ:13:LYS:NZ	3:BN:103:GLU:HA	2.28	0.47
3:BJ:96:PHE:CE1	3:BN:125:ILE:HD11	2.49	0.47
3:BK:24:ARG:HB3	3:BK:34:SER:O	2.14	0.47
3:BK:102:ASP:OD2	3:HK:13:LYS:NZ	2.35	0.47
3:BK:111:GLU:OE1	3:HK:68:ILE:CD1	2.61	0.47
3:BM:24:ARG:HB2	3:BM:34:SER:OG	2.14	0.47
3:BM:53:SER:OG	3:BM:63:LYS:HB2	2.15	0.47
3:CC:79:SER:HA	3:HC:75:THR:O	2.15	0.47
3:CG:87:GLN:N	3:CG:87:GLN:OE1	2.48	0.47
3:CH:11:ILE:CG2	3:CH:17:GLN:HG2	2.44	0.47
3:CH:99:TYR:O	3:HL:86:ARG:NH1	2.47	0.47
3:CI:127:GLN:O	3:DJ:24:ARG:NH2	2.39	0.47
3:CL:19:LEU:HD11	3:HH:107:PHE:CZ	2.49	0.47
3:CM:81:ASP:O	3:CM:81:ASP:OD1	2.32	0.47
3:CN:6:VAL:HG12	3:CN:8:LEU:CD2	2.44	0.47
3:DA:99:TYR:OH	3:DB:82:PRO:CD	2.61	0.47
3:DB:112:LEU:HD13	3:DK:68:ILE:HD11	1.94	0.47
3:DD:24:ARG:CZ	3:EN:129:ASN:OD1	2.62	0.47
3:DG:116:LEU:HD12	3:EJ:109:ARG:HG3	1.95	0.47
3:DM:71:PRO:HG3	3:DM:87:GLN:HE22	1.79	0.47
3:DN:115:LEU:HD22	3:ML:8:LEU:HD11	1.95	0.47
3:EA:55:PRO:HD3	3:EA:62:TYR:CD2	2.49	0.47
3:EG:128:LEU:CD2	3:GC:62:TYR:CE2	2.96	0.47
3:EG:130:PRO:HA	3:GC:52:VAL:HG21	1.96	0.47
3:EM:60:LYS:HB2	3:EM:61:ASN:HB2	1.95	0.47
3:EN:119:PRO:O	3:EN:122:ILE:HB	2.14	0.47
3:FC:112:LEU:HD21	3:GB:92:VAL:HG21	1.96	0.47
3:FI:109:ARG:HH22	3:KE:122:ILE:C	2.14	0.47
3:FN:49:THR:OG1	3:FN:67:LYS:HB2	2.14	0.47
3:GA:111:GLU:O	3:GA:115:LEU:HD23	2.14	0.47
3:GA:127:GLN:HB2	3:GA:129:ASN:ND2	2.30	0.47
3:GK:96:PHE:CE1	3:GK:105:ARG:HD2	2.49	0.47
3:HI:112:LEU:HD11	3:II:92:VAL:HG21	1.97	0.47
3:HN:132:TYR:O	3:ID:2:LYS:HD2	2.14	0.47
3:IA:77:ASN:O	3:ID:77:ASN:ND2	2.46	0.47
3:IC:132:TYR:CZ	3:JN:26:VAL:HG11	2.50	0.47
3:ID:26:VAL:HG23	3:ID:32:VAL:C	2.35	0.47
3:IE:105:ARG:CD	3:JL:128:LEU:HD11	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IG:54:GLN:NE2	3:IH:24:ARG:HB3	2.30	0.47
3:IH:37:GLN:HB3	3:IH:45:GLU:OE2	2.14	0.47
3:IJ:49:THR:OG1	3:IJ:67:LYS:HB2	2.15	0.47
3:IJ:110:THR:CB	3:NE:11:ILE:HD12	2.45	0.47
3:JD:22:ASN:OD1	3:JD:23:PRO:N	2.48	0.47
3:JH:102:ASP:OD2	3:JH:103:GLU:N	2.47	0.47
3:JJ:119:PRO:O	3:JJ:122:ILE:HG12	2.14	0.47
3:JJ:131:ALA:O	3:JJ:132:TYR:CD1	2.68	0.47
3:KB:84:VAL:O	3:KB:84:VAL:HG13	2.14	0.47
3:KM:52:VAL:CG2	3:MF:130:PRO:HA	2.43	0.47
3:KM:128:LEU:HD23	3:MF:105:ARG:CZ	2.45	0.47
3:LA:86:ARG:CZ	3:MD:100:SER:HA	2.45	0.47
3:LC:24:ARG:HB2	3:LC:34:SER:OG	2.13	0.47
3:LH:49:THR:HG22	3:LH:67:LYS:HZ3	1.80	0.47
3:LM:63:LYS:HZ1	3:LM:94:PHE:C	2.18	0.47
3:LN:116:LEU:O	3:MI:109:ARG:NE	2.47	0.47
3:MI:55:PRO:HB2	3:MI:60:LYS:HG3	1.96	0.47
3:NA:81:ASP:O	3:NA:81:ASP:OD1	2.33	0.47
3:NB:24:ARG:HB2	3:NB:34:SER:OG	2.15	0.47
3:NB:62:TYR:HD1	3:NF:128:LEU:CD2	2.27	0.47
1:A:71:U:H2'	1:A:72:A:C8	2.49	0.47
1:A:548:U:O2	1:A:549:U:C4	2.67	0.47
1:A:702:C:C2	1:A:703:U:C5	3.02	0.47
1:A:1338:U:H2'	1:A:1339:U:O4'	2.14	0.47
1:A:1594:C:H5'	1:A:1595:C:OP2	2.14	0.47
1:A:1621:U:H2'	1:A:1622:G:H8	1.79	0.47
1:A:1798:C:H2'	1:A:1799:G:C8	2.49	0.47
1:A:2195:U:H2'	1:A:2196:G:C8	2.49	0.47
1:A:2242:C:N4	1:A:2243:A:H62	2.12	0.47
1:A:2445:U:C4	1:A:2479:A:C4	3.02	0.47
1:A:3328:G:H2'	1:A:3329:U:O4'	2.14	0.47
1:A:3480:U:H2'	1:A:3481:A:O4'	2.14	0.47
1:A:3645:U:C4	1:A:3646:G:C5	3.03	0.47
1:A:3990:A:N1	1:A:3991:G:C6	2.82	0.47
1:A:4056:A:C2	1:A:4057:G:C5	3.03	0.47
3:BC:86:ARG:NH2	3:ND:99:TYR:O	2.47	0.47
3:BE:48:VAL:HG22	3:BE:68:ILE:CD1	2.44	0.47
3:BF:56:SER:CB	3:BF:59:ARG:HE	2.24	0.47
3:BF:132:TYR:CG	3:IL:26:VAL:HG12	2.49	0.47
3:BI:43:ALA:C	3:BI:44:LEU:HD22	2.34	0.47
3:BI:62:TYR:HD2	3:HM:128:LEU:CD2	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:2:LYS:O	3:CC:4:GLU:OE1	2.32	0.47
3:CC:100:SER:HA	3:DF:86:ARG:HH21	1.80	0.47
3:CG:6:VAL:CG1	3:CG:8:LEU:HD11	2.34	0.47
3:CJ:44:LEU:O	3:CJ:44:LEU:HG	2.13	0.47
3:CL:97:THR:N	3:CL:100:SER:OG	2.47	0.47
3:CM:11:ILE:CG2	3:CM:17:GLN:HB2	2.45	0.47
3:DE:55:PRO:HG3	3:DE:62:TYR:HE1	1.78	0.47
3:DF:18:THR:O	3:DF:19:LEU:HD22	2.13	0.47
3:DL:114:ALA:HB1	3:MN:8:LEU:HD22	1.95	0.47
3:ED:44:LEU:O	3:ED:44:LEU:HD12	2.14	0.47
3:FD:10:ASN:ND2	3:FD:15:GLY:O	2.37	0.47
3:FG:123:ASP:O	3:FG:127:GLN:HB2	2.14	0.47
3:FI:34:SER:C	3:FI:35:LEU:HD22	2.35	0.47
3:GD:127:GLN:HB2	3:GD:129:ASN:ND2	2.29	0.47
3:GE:109:ARG:NH2	3:HE:126:ASP:CG	2.68	0.47
3:GK:68:ILE:HB	3:GK:90:ALA:HB3	1.97	0.47
3:IA:15:GLY:O	3:IA:16:LYS:HD3	2.13	0.47
3:IB:101:THR:O	3:IB:104:GLU:HG2	2.14	0.47
3:IC:6:VAL:HG12	3:IC:8:LEU:HD22	1.95	0.47
3:IC:32:VAL:HG13	3:IC:51:SER:HG	1.79	0.47
3:IF:110:THR:OG1	3:NI:11:ILE:HD12	2.14	0.47
3:IF:126:ASP:O	3:NI:105:ARG:NH2	2.45	0.47
3:IG:111:GLU:N	3:JJ:11:ILE:HD11	2.28	0.47
3:II:119:PRO:HA	3:II:122:ILE:HG12	1.96	0.47
3:IK:87:GLN:CG	3:IK:89:TYR:CE2	2.97	0.47
3:IL:6:VAL:HG12	3:IL:8:LEU:CD2	2.44	0.47
3:IM:105:ARG:NE	3:JM:128:LEU:HD11	2.30	0.47
3:JA:24:ARG:HB2	3:JA:34:SER:OG	2.14	0.47
3:JD:119:PRO:HA	3:JD:122:ILE:HG12	1.95	0.47
3:JM:34:SER:O	3:JM:35:LEU:HD22	2.14	0.47
3:JM:131:ALA:O	3:JM:132:TYR:CD1	2.67	0.47
3:JN:47:ARG:NH2	3:JN:69:GLN:OE1	2.46	0.47
3:KM:103:GLU:N	3:MF:13:LYS:NZ	2.63	0.47
3:KN:52:VAL:HG23	3:KN:52:VAL:O	2.14	0.47
3:MA:85:THR:HG22	3:MA:85:THR:O	2.13	0.47
3:NJ:20:VAL:O	3:NJ:20:VAL:HG23	2.13	0.47
1:A:895:G:H2'	1:A:896:C:C6	2.49	0.47
1:A:942:U:C2	1:A:945:G:C2	3.02	0.47
1:A:1031:G:O2'	1:A:1033:U:OP2	2.19	0.47
1:A:1295:U:C4	3:BK:57:ARG:CZ	2.98	0.47
1:A:1312:G:H5"	3:GM:60:LYS:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1447:C:H2'	1:A:1448:G:C8	2.50	0.47
1:A:1718:U:O4'	3:IC:60:LYS:NZ	2.43	0.47
1:A:1726:A:H2'	1:A:1727:G:O4'	2.13	0.47
1:A:1874:U:C2'	1:A:1875:U:H5'	2.45	0.47
1:A:1959:G:HO2'	3:JK:57:ARG:H	1.60	0.47
1:A:2394:U:H2'	1:A:2395:U:O4'	2.15	0.47
1:A:2411:C:H4'	1:A:2412:A:OP1	2.14	0.47
1:A:2492:C:O2'	1:A:2493:U:P	2.73	0.47
1:A:2765:A:O2'	1:A:2766:A:OP1	2.31	0.47
1:A:2798:G:C2	1:A:2799:C:C2	3.03	0.47
1:A:2833:C:H2'	1:A:2834:G:C8	2.50	0.47
1:A:2924:A:H2'	1:A:2925:G:C8	2.50	0.47
1:A:3427:A:H2'	1:A:3428:C:C6	2.50	0.47
1:A:3551:C:O2	1:A:3551:C:H2'	2.14	0.47
1:A:4148:A:H2'	1:A:4149:A:O4'	2.14	0.47
1:A:4161:U:C4	1:A:4162:U:C2	3.03	0.47
3:BD:128:LEU:N	3:BD:128:LEU:HD12	2.30	0.47
3:CB:41:VAL:O	3:CB:44:LEU:HG	2.15	0.47
3:CC:79:SER:O	3:CC:80:CYS:HB3	2.15	0.47
3:CD:86:ARG:CZ	3:HA:99:TYR:O	2.63	0.47
3:CF:125:ILE:HG13	3:GM:96:PHE:HE1	1.79	0.47
3:CG:81:ASP:OD1	3:CG:81:ASP:O	2.32	0.47
3:CH:121:LEU:CD2	3:HL:66:VAL:HG21	2.45	0.47
3:CI:54:GLN:OE1	3:CI:54:GLN:N	2.36	0.47
3:CI:105:ARG:CD	3:DI:128:LEU:HD11	2.44	0.47
3:CM:8:LEU:HD13	3:NA:115:LEU:HD22	1.95	0.47
3:DA:3:LEU:CD2	3:MM:131:ALA:HB1	2.44	0.47
3:DA:3:LEU:HD23	3:MM:131:ALA:HB1	1.95	0.47
3:DC:34:SER:O	3:DC:35:LEU:HD22	2.14	0.47
3:DC:111:GLU:O	3:DC:115:LEU:CD1	2.63	0.47
3:DH:52:VAL:HG12	3:DH:64:VAL:HG13	1.97	0.47
3:DJ:46:LYS:HD2	3:DJ:70:ASN:OD1	2.14	0.47
3:DJ:97:THR:N	3:DJ:100:SER:OG	2.47	0.47
3:EB:116:LEU:HD23	3:EB:116:LEU:C	2.34	0.47
3:EC:27:ASN:ND2	3:EC:30:ASN:OD1	2.47	0.47
3:ED:94:PHE:CE1	3:EH:125:ILE:HD11	2.49	0.47
3:EE:11:ILE:HD12	3:LI:110:THR:O	2.15	0.47
3:EI:81:ASP:O	3:EI:83:SER:N	2.47	0.47
3:EI:109:ARG:NH2	3:GA:126:ASP:OD1	2.47	0.47
3:EJ:61:ASN:HA	3:EJ:96:PHE:O	2.13	0.47
3:EM:41:VAL:O	3:EM:44:LEU:HG	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EN:54:GLN:HB3	3:EN:55:PRO:HD2	1.95	0.47
3:FD:21:LEU:HD23	3:FD:37:GLN:HB2	1.96	0.47
3:FE:11:ILE:HG22	3:FE:17:GLN:O	2.15	0.47
3:FF:86:ARG:NH2	3:LF:99:TYR:HB2	2.30	0.47
3:FI:111:GLU:N	3:KE:11:ILE:HD11	2.29	0.47
3:FJ:97:THR:C	3:FJ:100:SER:HG	2.16	0.47
3:FJ:97:THR:N	3:FJ:100:SER:OG	2.48	0.47
3:FK:2:LYS:HD3	3:FK:3:LEU:O	2.14	0.47
3:FN:52:VAL:O	3:FN:52:VAL:HG13	2.14	0.47
3:GD:6:VAL:HG12	3:GD:8:LEU:HD21	1.96	0.47
3:GF:116:LEU:CD1	3:KD:109:ARG:HG3	2.42	0.47
3:GJ:52:VAL:CG2	3:GN:130:PRO:HA	2.45	0.47
3:GK:76:ALA:HA	3:JB:79:SER:HA	1.96	0.47
3:HI:21:LEU:HD23	3:HI:36:SER:C	2.35	0.47
3:HI:98:GLN:NE2	3:HJ:43:ALA:HA	2.29	0.47
3:IA:41:VAL:O	3:IA:41:VAL:HG13	2.14	0.47
3:IA:96:PHE:CZ	3:IA:105:ARG:HG2	2.49	0.47
3:IB:123:ASP:OD2	3:IB:129:ASN:HB3	2.14	0.47
3:IC:71:PRO:CB	3:IC:87:GLN:HE22	2.27	0.47
3:IE:77:ASN:ND2	3:JJ:78:GLY:HA2	2.29	0.47
3:IG:125:ILE:HG13	3:IG:126:ASP:N	2.30	0.47
3:IJ:54:GLN:HB2	3:IJ:55:PRO:HD2	1.97	0.47
3:JH:26:VAL:O	3:LB:132:TYR:OH	2.33	0.47
3:JH:28:PRO:HB3	3:LB:132:TYR:CE1	2.50	0.47
3:JI:92:VAL:HG21	3:LB:112:LEU:HD11	1.96	0.47
3:JI:99:TYR:O	3:LB:86:ARG:NH2	2.46	0.47
3:JI:110:THR:OG1	3:LB:11:ILE:HD12	2.14	0.47
3:JJ:19:LEU:HD21	3:JJ:21:LEU:HD21	1.97	0.47
3:JK:55:PRO:CG	3:JK:62:TYR:HE1	2.27	0.47
3:KH:131:ALA:HB1	3:KL:3:LEU:CD2	2.45	0.47
3:KJ:65:GLN:OE1	3:KJ:93:THR:HG22	2.13	0.47
3:LE:3:LEU:HD23	3:LE:3:LEU:H	1.78	0.47
3:LF:22:ASN:OD1	3:LF:22:ASN:O	2.33	0.47
3:LL:65:GLN:OE1	3:LL:93:THR:HG23	2.15	0.47
3:LM:34:SER:O	3:LM:35:LEU:HD22	2.14	0.47
3:LN:37:GLN:CA	3:LN:45:GLU:OE2	2.63	0.47
3:MC:122:ILE:HA	3:NJ:109:ARG:NH2	2.29	0.47
3:MF:125:ILE:HG23	3:MF:126:ASP:N	2.29	0.47
3:MJ:99:TYR:OH	3:MK:84:VAL:N	2.34	0.47
3:MM:99:TYR:HH	3:MN:84:VAL:N	2.10	0.47
3:NF:84:VAL:HG22	3:NF:87:GLN:HE21	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:377:G:H2'	1:A:378:C:O4'	2.14	0.47
1:A:807:A:C2	1:A:2458:A:N3	2.83	0.47
1:A:916:G:H2'	1:A:917:U:O4'	2.14	0.47
1:A:1130:C:H42	1:A:1152:A:N6	2.12	0.47
1:A:1311:C:H2'	1:A:1312:G:C4	2.50	0.47
1:A:2288:G:H5"	3:GJ:59:ARG:NH2	2.30	0.47
1:A:2557:A:H2'	1:A:2558:U:C2	2.50	0.47
1:A:2611:A:H2'	1:A:2612:U:O4'	2.15	0.47
1:A:2848:A:H2'	1:A:2849:C:C6	2.49	0.47
1:A:3124:A:N1	1:A:3125:G:C6	2.82	0.47
1:A:3247:U:N3	1:A:3249:A:O4'	2.48	0.47
1:A:3341:G:HO2'	1:A:3342:C:C1'	2.23	0.47
1:A:3555:U:HO2'	1:A:3556:A:C5'	2.27	0.47
1:A:3590:U:C4	1:A:3661:G:O6	2.67	0.47
1:A:3697:A:OP2	3:LK:59:ARG:NH2	2.48	0.47
1:A:4191:G:O6	1:A:4192:G:N1	2.48	0.47
2:M:81:THR:O	2:M:383:ARG:NH2	2.47	0.47
2:M:394:LEU:HD21	2:M:396:LEU:HD21	1.96	0.47
3:BA:131:ALA:HB1	3:MK:3:LEU:HD22	1.96	0.47
3:BB:11:ILE:HG23	3:BB:17:GLN:HB2	1.97	0.47
3:BB:118:SER:O	3:BB:122:ILE:HG13	2.14	0.47
3:BD:2:LYS:NZ	3:BD:4:GLU:OE2	2.46	0.47
3:BF:86:ARG:NH1	3:IN:99:TYR:O	2.37	0.47
3:BI:114:ALA:HB1	3:HM:8:LEU:HD12	1.97	0.47
3:BJ:62:TYR:CD1	3:BN:128:LEU:HD23	2.49	0.47
3:BJ:114:ALA:C	3:BN:8:LEU:HD11	2.35	0.47
3:BK:61:ASN:ND2	3:BK:96:PHE:O	2.47	0.47
3:BL:18:THR:C	3:BL:19:LEU:HD12	2.33	0.47
3:BL:114:ALA:HB3	3:CG:8:LEU:HD23	1.96	0.47
3:CD:62:TYR:CD1	3:HA:128:LEU:HD23	2.50	0.47
3:CF:37:GLN:CA	3:CF:45:GLU:OE2	2.61	0.47
3:CH:26:VAL:HG21	3:HJ:132:TYR:CD2	2.49	0.47
3:CI:24:ARG:NH2	3:HL:127:GLN:O	2.41	0.47
3:CK:114:ALA:HB1	3:NC:8:LEU:HD22	1.96	0.47
3:CK:132:TYR:HE1	3:NC:26:VAL:HG11	1.79	0.47
3:CL:116:LEU:HD11	3:HH:109:ARG:HG3	1.95	0.47
3:CN:13:LYS:NZ	3:DD:103:GLU:HG2	2.30	0.47
3:CN:86:ARG:NH2	3:DD:97:THR:HG23	2.30	0.47
3:CN:106:ALA:N	3:DD:126:ASP:OD1	2.47	0.47
3:DA:120:LEU:HD11	3:MM:2:LYS:O	2.15	0.47
3:DA:127:GLN:C	3:DA:128:LEU:HD12	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:41:VAL:HG13	3:DC:44:LEU:HD21	1.97	0.47
3:DE:59:ARG:HG2	3:DE:61:ASN:ND2	2.29	0.47
3:DG:3:LEU:HD22	3:EJ:131:ALA:HB1	1.95	0.47
3:DG:119:PRO:HA	3:DG:122:ILE:HD12	1.97	0.47
3:DL:56:SER:OG	3:DL:57:ARG:N	2.47	0.47
3:DM:11:ILE:HD12	3:EM:110:THR:CB	2.44	0.47
3:DN:3:LEU:HD23	3:ML:132:TYR:CA	2.45	0.47
3:EB:26:VAL:O	3:LK:132:TYR:OH	2.27	0.47
3:EF:24:ARG:NH1	3:LI:129:ASN:HA	2.29	0.47
3:EI:128:LEU:CD2	3:GA:62:TYR:CD1	2.97	0.47
3:EJ:6:VAL:HG12	3:EJ:8:LEU:HD22	1.96	0.47
3:EJ:55:PRO:O	3:EJ:56:SER:OG	2.28	0.47
3:FF:11:ILE:HG13	3:LF:110:THR:CB	2.43	0.47
3:FG:80:CYS:SG	3:LF:85:THR:HG21	2.55	0.47
3:FH:128:LEU:HD23	3:FK:105:ARG:NH1	2.29	0.47
3:FI:26:VAL:HG11	3:KE:132:TYR:CZ	2.49	0.47
3:FI:109:ARG:HH21	3:KE:125:ILE:CG2	2.27	0.47
3:FJ:13:LYS:NZ	3:HF:103:GLU:HA	2.29	0.47
3:FJ:34:SER:O	3:FJ:35:LEU:HD22	2.14	0.47
3:FL:129:ASN:ND2	3:HB:24:ARG:HA	2.29	0.47
3:FM:102:ASP:OD1	3:FM:102:ASP:N	2.48	0.47
3:GF:132:TYR:OH	3:KC:26:VAL:O	2.33	0.47
3:GI:130:PRO:HG2	3:JA:25:GLY:HA3	1.96	0.47
3:GJ:131:ALA:HB1	3:GN:3:LEU:HD22	1.97	0.47
3:GL:26:VAL:HG21	3:HG:132:TYR:HD1	1.79	0.47
3:IC:14:ASP:O	3:IC:14:ASP:OD1	2.32	0.47
3:ID:49:THR:OG1	3:ID:67:LYS:HB3	2.14	0.47
3:IE:125:ILE:HD11	3:JL:64:VAL:HG11	1.96	0.47
3:IF:110:THR:HB	3:NI:11:ILE:HD12	1.97	0.47
3:IG:87:GLN:N	3:IG:87:GLN:OE1	2.48	0.47
3:IH:24:ARG:NH2	3:JJ:129:ASN:HA	2.28	0.47
3:JG:105:ARG:NE	3:LD:128:LEU:HD11	2.29	0.47
3:KH:122:ILE:HA	3:KL:109:ARG:NH1	2.30	0.47
3:KN:26:VAL:HG23	3:KN:32:VAL:C	2.35	0.47
3:KN:121:LEU:O	3:KN:125:ILE:HG22	2.14	0.47
3:LF:31:GLY:O	3:LF:51:SER:OG	2.23	0.47
3:LJ:116:LEU:HD23	3:LJ:116:LEU:C	2.34	0.47
3:LK:5:THR:O	3:LK:5:THR:HG23	2.14	0.47
3:LN:100:SER:HA	3:MI:86:ARG:NH1	2.28	0.47
3:LN:102:ASP:OD1	3:MI:126:ASP:OD1	2.33	0.47
3:MA:81:ASP:OD1	3:MC:99:TYR:CG	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MC:115:LEU:C	3:MC:121:LEU:HD12	2.34	0.47
3:ML:32:VAL:HG12	3:ML:51:SER:HB2	1.97	0.47
3:NH:61:ASN:HA	3:NH:96:PHE:O	2.13	0.47
3:NI:6:VAL:HG12	3:NI:8:LEU:CD2	2.45	0.47
1:A:16:G:H2'	1:A:17:G:H8	1.79	0.47
1:A:105:A:C6	1:A:120:U:N3	2.82	0.47
1:A:141:C:H2'	1:A:142:C:H6	1.80	0.47
1:A:164:C:C2	1:A:165:G:C8	3.03	0.47
1:A:200:A:C2	1:A:201:C:C6	3.02	0.47
1:A:439:G:N7	3:MM:57:ARG:NH1	2.62	0.47
1:A:498:G:H2'	1:A:498:G:N3	2.30	0.47
1:A:705:U:C2	1:A:728:U:C2	3.02	0.47
1:A:877:C:N4	1:A:923:A:H61	2.13	0.47
1:A:1272:U:H2'	1:A:1274:A:O5'	2.15	0.47
1:A:1282:C:H2'	1:A:1283:U:C6	2.50	0.47
1:A:1448:G:H2'	1:A:1449:C:H6	1.80	0.47
1:A:1493:C:OP1	3:BJ:61:ASN:ND2	2.47	0.47
1:A:1981:G:O3'	1:A:1982:G:O4'	2.32	0.47
1:A:2042:U:C2'	1:A:2043:A:O5'	2.63	0.47
1:A:2352:A:O2'	3:FL:67:LYS:NZ	2.40	0.47
1:A:2388:G:C6	1:A:2398:G:O6	2.67	0.47
1:A:2401:G:H2'	1:A:2402:A:C8	2.49	0.47
1:A:2497:A:O2'	1:A:2498:G:H5'	2.15	0.47
1:A:2695:A:O2'	1:A:2697:A:OP1	2.33	0.47
1:A:2751:A:C2	1:A:2814:U:C2	3.03	0.47
1:A:2846:G:C6	1:A:2847:U:C4	3.03	0.47
1:A:2916:G:N1	1:A:2927:U:C4	2.83	0.47
1:A:2963:C:N3	1:A:2964:C:C5	2.83	0.47
1:A:3133:C:C2	1:A:3134:U:C5	3.03	0.47
1:A:3247:U:C2	1:A:3249:A:O4'	2.67	0.47
1:A:3299:C:C3'	3:LD:58:ASN:HD21	2.27	0.47
1:A:3307:A:OP1	3:JG:61:ASN:ND2	2.48	0.47
1:A:3405:U:H2'	1:A:3406:C:C6	2.49	0.47
1:A:3430:A:N1	1:A:3441:C:N3	2.63	0.47
1:A:3456:C:H2'	1:A:3457:C:N1	2.29	0.47
1:A:3556:A:O3'	3:GF:57:ARG:NH1	2.47	0.47
1:A:3558:U:H2'	1:A:3559:C:C6	2.50	0.47
1:A:3609:G:C6	1:A:3645:U:O4	2.68	0.47
1:A:3632:U:C4	1:A:3633:A:C5	3.02	0.47
1:A:3664:U:OP2	3:LH:61:ASN:HA	2.15	0.47
1:A:3771:G:OP1	1:A:3771:G:C8	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3785:C:H3'	1:A:3786:A:O4'	2.14	0.47
1:A:3809:G:C8	3:KH:57:ARG:HB2	2.50	0.47
1:A:3827:G:H2'	1:A:3828:G:C8	2.49	0.47
1:A:3916:A:H2'	1:A:3917:C:O4'	2.15	0.47
1:A:3933:A:H2'	1:A:3934:G:H4'	1.95	0.47
1:A:4058:C:H2'	1:A:4059:C:C5	2.49	0.47
1:A:4104:U:H2'	1:A:4105:C:C6	2.49	0.47
2:M:36:PRO:HD2	2:M:37:TRP:CZ3	2.50	0.47
3:BA:23:PRO:HA	3:BA:35:LEU:HD13	1.96	0.47
3:BA:100:SER:HA	3:MK:86:ARG:NH2	2.30	0.47
3:BB:55:PRO:HD3	3:BB:62:TYR:HE1	1.78	0.47
3:BB:99:TYR:CD2	3:BC:81:ASP:OD2	2.68	0.47
3:BC:6:VAL:HG12	3:BC:8:LEU:CD1	2.43	0.47
3:BD:119:PRO:CA	3:BD:122:ILE:HG22	2.44	0.47
3:BE:10:ASN:O	3:BE:10:ASN:OD1	2.32	0.47
3:BE:125:ILE:CG2	3:BE:126:ASP:N	2.78	0.47
3:BF:132:TYR:CE1	3:IM:28:PRO:HB3	2.49	0.47
3:BH:101:THR:N	3:IL:86:ARG:NH2	2.62	0.47
3:BI:3:LEU:CD1	3:BI:35:LEU:HD21	2.44	0.47
3:BK:32:VAL:HG22	3:BK:51:SER:OG	2.15	0.47
3:BN:59:ARG:O	3:BN:60:LYS:HG2	2.14	0.47
3:CA:11:ILE:HD12	3:DH:110:THR:CB	2.44	0.47
3:CA:52:VAL:HG23	3:CA:64:VAL:HG22	1.96	0.47
3:CB:11:ILE:CG2	3:CB:17:GLN:HB2	2.44	0.47
3:CB:121:LEU:O	3:CB:125:ILE:HG12	2.14	0.47
3:CB:125:ILE:HD11	3:HC:109:ARG:HB2	1.97	0.47
3:CB:125:ILE:HG13	3:CB:126:ASP:N	2.30	0.47
3:CB:126:ASP:OD1	3:HC:106:ALA:CA	2.63	0.47
3:CC:3:LEU:HD21	3:DF:131:ALA:HB1	1.97	0.47
3:CD:105:ARG:CD	3:HA:128:LEU:HD11	2.45	0.47
3:CE:81:ASP:OD1	3:CG:99:TYR:CD2	2.67	0.47
3:CH:116:LEU:HD11	3:HL:112:LEU:HD22	1.96	0.47
3:CI:11:ILE:CG2	3:CI:17:GLN:HB2	2.44	0.47
3:CI:96:PHE:HE2	3:CI:105:ARG:CB	2.27	0.47
3:CJ:11:ILE:HG23	3:HJ:110:THR:OG1	2.14	0.47
3:CK:132:TYR:CE2	3:ND:25:GLY:CA	2.98	0.47
3:CL:107:PHE:CZ	3:HH:19:LEU:HD11	2.50	0.47
3:CM:49:THR:HB	3:CM:67:LYS:HB2	1.97	0.47
3:CN:112:LEU:HD22	3:DD:116:LEU:HD11	1.97	0.47
3:DA:92:VAL:HG22	3:MM:92:VAL:CG2	2.34	0.47
3:DB:110:THR:HB	3:DK:11:ILE:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:32:VAL:HG22	3:DC:51:SER:OG	2.14	0.47
3:DD:26:VAL:HG13	3:DD:26:VAL:O	2.14	0.47
3:DE:48:VAL:HG12	3:DE:68:ILE:HG12	1.95	0.47
3:DI:27:ASN:CG	3:DI:29:THR:HG1	2.17	0.47
3:DI:60:LYS:N	3:DI:61:ASN:HB3	2.29	0.47
3:DL:8:LEU:HD22	3:MN:114:ALA:HB1	1.96	0.47
3:EC:52:VAL:O	3:EC:52:VAL:HG23	2.14	0.47
3:ED:8:LEU:CD1	3:EH:114:ALA:HB3	2.45	0.47
3:EG:7:THR:HG23	3:EG:20:VAL:HG22	1.96	0.47
3:EG:11:ILE:HD12	3:GC:110:THR:CB	2.45	0.47
3:EG:21:LEU:CD1	3:EG:48:VAL:HG21	2.45	0.47
3:EG:37:GLN:OE1	3:EG:42:PRO:HB3	2.15	0.47
3:EG:96:PHE:HE2	3:GC:88:ALA:HB1	1.79	0.47
3:EJ:60:LYS:HB2	3:EJ:61:ASN:HB3	1.96	0.47
3:EK:53:SER:OG	3:EK:63:LYS:CG	2.62	0.47
3:EL:107:PHE:CE2	3:EL:111:GLU:OE2	2.67	0.47
3:EM:37:GLN:HB2	3:EM:46:LYS:HD2	1.96	0.47
3:EM:131:ALA:O	3:EM:132:TYR:CD1	2.68	0.47
3:FF:94:PHE:HB3	3:FF:96:PHE:CE1	2.50	0.47
3:FG:81:ASP:OD2	3:LF:85:THR:OG1	2.30	0.47
3:FG:132:TYR:CA	3:KG:3:LEU:HD23	2.43	0.47
3:FJ:1:ALA:HB2	3:HF:129:ASN:HB2	1.97	0.47
3:FJ:8:LEU:N	3:FJ:8:LEU:HD22	2.29	0.47
3:FJ:44:LEU:O	3:FJ:44:LEU:HD12	2.15	0.47
3:GA:48:VAL:HG22	3:GA:68:ILE:HD12	1.93	0.47
3:GD:11:ILE:HG22	3:GD:17:GLN:O	2.15	0.47
3:GD:106:ALA:HA	3:GD:109:ARG:HG2	1.96	0.47
3:GF:43:ALA:C	3:GF:44:LEU:HD22	2.35	0.47
3:GF:101:THR:HG23	3:GF:104:GLU:H	1.80	0.47
3:GF:115:LEU:HD22	3:KD:48:VAL:HG11	1.97	0.47
3:GG:13:LYS:HZ2	3:JE:106:ALA:CB	2.20	0.47
3:GG:115:LEU:HD13	3:JE:68:ILE:HD11	1.96	0.47
3:GH:112:LEU:O	3:GH:116:LEU:HD13	2.15	0.47
3:GI:129:ASN:OD1	3:JA:24:ARG:HA	2.13	0.47
3:GJ:125:ILE:C	3:GN:105:ARG:HD3	2.35	0.47
3:GJ:126:ASP:C	3:GN:105:ARG:CZ	2.83	0.47
3:GK:67:LYS:HG2	3:GK:91:ASP:OD1	2.15	0.47
3:HD:55:PRO:HG3	3:HD:62:TYR:CE1	2.50	0.47
3:HG:87:GLN:N	3:HG:87:GLN:OE1	2.48	0.47
3:HI:86:ARG:NH2	3:II:100:SER:HA	2.29	0.47
3:HK:60:LYS:H	3:HK:61:ASN:HB3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HL:112:LEU:HD23	3:HL:116:LEU:HD23	1.97	0.47
3:HM:27:ASN:OD1	3:HM:28:PRO:HD2	2.15	0.47
3:IB:128:LEU:HD22	3:IK:62:TYR:CD2	2.49	0.47
3:IF:86:ARG:NH2	3:NI:100:SER:HA	2.29	0.47
3:IG:14:ASP:OD1	3:IG:15:GLY:N	2.48	0.47
3:IG:92:VAL:HG22	3:JJ:92:VAL:HG13	1.97	0.47
3:IH:114:ALA:HB1	3:NG:8:LEU:CD1	2.31	0.47
3:II:98:GLN:OE1	3:IJ:43:ALA:HB2	2.14	0.47
3:IJ:119:PRO:O	3:IJ:122:ILE:HB	2.15	0.47
3:IL:48:VAL:O	3:IL:48:VAL:HG13	2.14	0.47
3:IM:131:ALA:HA	3:JM:1:ALA:HB1	1.96	0.47
3:JA:5:THR:HG22	3:JA:22:ASN:OD1	2.15	0.47
3:JA:69:GLN:HA	3:JA:89:TYR:HB3	1.97	0.47
3:JC:52:VAL:HG12	3:JC:64:VAL:CG2	2.36	0.47
3:JF:55:PRO:CB	3:JF:60:LYS:HD2	2.45	0.47
3:JG:98:GLN:NE2	3:JH:43:ALA:HA	2.29	0.47
3:JH:18:THR:O	3:JH:19:LEU:HD22	2.14	0.47
3:JJ:61:ASN:HA	3:JJ:96:PHE:O	2.14	0.47
3:JL:74:CYS:O	3:JL:74:CYS:SG	2.72	0.47
3:JL:81:ASP:OD1	3:JL:81:ASP:O	2.33	0.47
3:KC:75:THR:HG22	3:KC:82:PRO:HG3	1.95	0.47
3:KK:109:ARG:HH12	3:MH:122:ILE:HA	1.79	0.47
3:KN:27:ASN:ND2	3:KN:29:THR:OG1	2.47	0.47
3:KN:91:ASP:OD1	3:KN:91:ASP:N	2.47	0.47
3:LB:24:ARG:NE	3:LB:36:SER:OG	2.47	0.47
3:LB:24:ARG:NH2	3:LB:36:SER:OG	2.48	0.47
3:LC:44:LEU:HD22	3:LE:98:GLN:O	2.14	0.47
3:LG:11:ILE:HD11	3:MG:111:GLU:CA	2.44	0.47
3:LH:21:LEU:HB3	3:LH:35:LEU:HB3	1.96	0.47
3:LK:101:THR:CG2	3:LK:104:GLU:OE1	2.62	0.47
3:LL:24:ARG:NH2	3:MI:128:LEU:O	2.47	0.47
3:LL:111:GLU:O	3:LL:115:LEU:HG	2.15	0.47
3:MA:19:LEU:HD12	3:MA:20:VAL:N	2.28	0.47
3:MA:55:PRO:HD3	3:MA:62:TYR:CE1	2.49	0.47
3:MC:127:GLN:HB2	3:MC:129:ASN:ND2	2.26	0.47
3:MD:41:VAL:HG23	3:MD:44:LEU:HD11	1.97	0.47
3:MF:104:GLU:O	3:MF:107:PHE:HB3	2.15	0.47
3:MG:118:SER:O	3:MG:122:ILE:HG12	2.15	0.47
3:NA:84:VAL:O	3:NA:84:VAL:HG13	2.15	0.47
3:NC:24:ARG:HH22	3:NF:128:LEU:C	2.18	0.47
3:NE:87:GLN:HG2	3:NE:87:GLN:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NH:26:VAL:HG23	3:NH:32:VAL:C	2.34	0.47
1:A:9:C:H4'	3:CH:60:LYS:NZ	2.30	0.47
1:A:309:C:P	3:CK:59:ARG:NH2	2.88	0.47
1:A:628:U:N3	1:A:641:A:N1	2.63	0.47
1:A:1078:C:N4	1:A:1079:A:H62	2.12	0.47
1:A:1432:C:H2'	1:A:1433:U:O4'	2.15	0.47
1:A:1559:G:C6	1:A:1560:A:C6	3.03	0.47
1:A:2252:U:H2'	1:A:2253:G:C8	2.50	0.47
1:A:2927:U:H2'	1:A:2928:U:C5	2.50	0.47
1:A:3927:C:O3'	3:FG:63:LYS:HE3	2.15	0.47
1:A:3974:C:H2'	1:A:3975:G:C8	2.49	0.47
1:A:4138:U:H2'	1:A:4139:A:O4'	2.15	0.47
2:M:141:ALA:O	2:M:145:LYS:N	2.48	0.47
2:M:160:LEU:O	2:M:164:LEU:HD23	2.14	0.47
3:BB:46:LYS:HD2	3:BB:70:ASN:OD1	2.15	0.47
3:BB:128:LEU:HD12	3:BB:128:LEU:N	2.30	0.47
3:BI:125:ILE:HG21	3:HM:64:VAL:HG11	1.95	0.47
3:BM:53:SER:HB2	3:BM:59:ARG:CZ	2.45	0.47
3:CD:27:ASN:OD1	3:CD:29:THR:N	2.38	0.47
3:CN:86:ARG:NH1	3:DD:99:TYR:HB2	2.30	0.47
3:DL:18:THR:O	3:DL:19:LEU:HD22	2.14	0.47
3:DN:48:VAL:HG11	3:ML:115:LEU:HD21	1.95	0.47
3:DN:127:GLN:N	3:DN:127:GLN:OE1	2.48	0.47
3:ED:41:VAL:HG13	3:ED:44:LEU:HD21	1.97	0.47
3:EE:129:ASN:HB2	3:LI:1:ALA:HB2	1.97	0.47
3:EJ:116:LEU:HA	3:EJ:121:LEU:HD12	1.97	0.47
3:EK:125:ILE:CG2	3:FM:64:VAL:HG11	2.44	0.47
3:EL:127:GLN:N	3:EL:127:GLN:OE1	2.48	0.47
3:EN:75:THR:HG23	3:EN:82:PRO:HG3	1.97	0.47
3:FB:109:ARG:O	3:LJ:116:LEU:HD11	2.15	0.47
3:FF:75:THR:HG23	3:FF:82:PRO:HG3	1.97	0.47
3:FJ:37:GLN:OE1	3:FJ:39:GLY:N	2.36	0.47
3:FJ:106:ALA:CB	3:FJ:109:ARG:NH1	2.78	0.47
3:GD:23:PRO:CA	3:GD:35:LEU:HD13	2.44	0.47
3:GG:128:LEU:HD23	3:JE:62:TYR:CD2	2.49	0.47
3:GH:111:GLU:N	3:KB:11:ILE:HD11	2.29	0.47
3:GL:48:VAL:HG12	3:GL:68:ILE:CG1	2.43	0.47
3:HE:55:PRO:HD3	3:HE:62:TYR:CZ	2.50	0.47
3:HE:127:GLN:N	3:HE:127:GLN:OE1	2.48	0.47
3:HF:41:VAL:HG23	3:HF:44:LEU:HB2	1.97	0.47
3:HH:119:PRO:HA	3:HH:122:ILE:CG2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HI:51:SER:OG	3:HI:65:GLN:HB2	2.15	0.47
3:JA:61:ASN:HA	3:JA:96:PHE:O	2.14	0.47
3:JB:111:GLU:OE2	3:JB:115:LEU:HD21	2.15	0.47
3:JI:65:GLN:OE1	3:JI:93:THR:OG1	2.27	0.47
3:JI:77:ASN:ND2	3:KN:78:GLY:HA2	2.30	0.47
3:JI:103:GLU:HA	3:LB:13:LYS:NZ	2.29	0.47
3:JJ:32:VAL:HA	3:JJ:51:SER:HG	1.79	0.47
3:JJ:128:LEU:HD12	3:JJ:128:LEU:N	2.30	0.47
3:KB:119:PRO:O	3:KB:122:ILE:HG12	2.15	0.47
3:KC:66:VAL:HG21	3:LC:121:LEU:HD22	1.97	0.47
3:KF:102:ASP:HA	3:KF:105:ARG:NH2	2.29	0.47
3:KI:98:GLN:HG3	3:KJ:43:ALA:HB2	1.97	0.47
3:KJ:48:VAL:HG12	3:KJ:68:ILE:HD12	1.97	0.47
3:LD:48:VAL:HG13	3:LD:68:ILE:HD13	1.97	0.47
3:LE:3:LEU:HD12	3:LE:23:PRO:CB	2.45	0.47
3:LG:18:THR:O	3:LG:19:LEU:HD22	2.15	0.47
3:LL:65:GLN:NE2	3:LL:93:THR:HG1	2.11	0.47
3:MB:84:VAL:CG2	3:MB:87:GLN:HE21	2.27	0.47
3:MC:32:VAL:HG12	3:MC:51:SER:CB	2.45	0.47
3:MC:126:ASP:OD1	3:NJ:106:ALA:CA	2.63	0.47
3:MF:14:ASP:OD1	3:MF:14:ASP:C	2.52	0.47
3:MH:43:ALA:O	3:MH:44:LEU:HD22	2.15	0.47
3:MK:49:THR:OG1	3:MK:67:LYS:HB3	2.15	0.47
3:ML:77:ASN:OD1	3:ML:77:ASN:O	2.32	0.47
3:NB:62:TYR:CD1	3:NF:128:LEU:HD22	2.49	0.47
3:NC:117:ALA:O	3:NC:122:ILE:HD11	2.15	0.47
3:NE:97:THR:N	3:NE:100:SER:HG	2.13	0.47
3:NF:57:ARG:O	3:NF:57:ARG:HD2	2.15	0.47
3:NG:13:LYS:H	3:NG:13:LYS:HD3	1.79	0.47
3:NG:34:SER:C	3:NG:35:LEU:HD12	2.35	0.47
3:NJ:23:PRO:HA	3:NJ:35:LEU:HG	1.96	0.47
1:A:257:C:OP1	3:NB:59:ARG:NH1	2.48	0.47
1:A:427:C:O2'	1:A:429:U:OP2	2.24	0.47
1:A:488:U:H2'	1:A:489:U:O4'	2.15	0.47
1:A:526:G:N3	1:A:544:G:C2	2.83	0.47
1:A:933:C:H4'	3:BI:59:ARG:HH11	1.79	0.47
1:A:2205:C:C2	1:A:2206:A:C8	3.03	0.47
1:A:2488:U:H2'	1:A:2489:U:N1	2.29	0.47
1:A:2636:G:N2	3:GB:97:THR:OG1	2.47	0.47
1:A:2924:A:O2'	3:FM:57:ARG:NH2	2.48	0.47
1:A:3572:U:H2'	1:A:3573:A:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3582:U:O4	1:A:3842:U:O4	2.33	0.47
1:A:3923:G:O2'	1:A:3924:U:O4'	2.33	0.47
1:A:4044:A:H2'	1:A:4045:U:O4'	2.15	0.47
1:A:4083:U:O2'	2:M:184:ARG:NH1	2.44	0.47
1:A:4111:A:P	3:D:47:ARG:HH22	2.37	0.47
1:A:4163:A:H2'	1:A:4164:U:O5'	2.15	0.47
2:M:115:PHE:HE2	2:M:252:LEU:HD13	1.80	0.47
3:BF:114:ALA:HB3	3:IN:8:LEU:HD23	1.95	0.47
3:BG:35:LEU:HD11	3:IA:120:LEU:HD13	1.96	0.47
3:BG:96:PHE:CD2	3:BG:105:ARG:HG2	2.50	0.47
3:BL:86:ARG:NH2	3:CG:99:TYR:HB3	2.30	0.47
3:CB:27:ASN:OD1	3:CB:29:THR:N	2.47	0.47
3:CC:105:ARG:NE	3:DF:128:LEU:HD11	2.30	0.47
3:CC:125:ILE:CD1	3:DF:64:VAL:HG11	2.44	0.47
3:CE:56:SER:N	3:CE:59:ARG:O	2.30	0.47
3:CH:2:LYS:HD2	3:CH:4:GLU:OE1	2.15	0.47
3:CN:111:GLU:CA	3:DD:11:ILE:HD11	2.44	0.47
3:DC:27:ASN:OD1	3:DC:29:THR:N	2.48	0.47
3:DC:34:SER:C	3:DC:35:LEU:HD22	2.35	0.47
3:DF:60:LYS:N	3:DF:61:ASN:HB3	2.26	0.47
3:DF:103:GLU:OE1	3:DF:104:GLU:N	2.48	0.47
3:DG:11:ILE:HD12	3:EJ:110:THR:HB	1.97	0.47
3:DN:55:PRO:HB3	3:DN:60:LYS:HG3	1.97	0.47
3:DN:107:PHE:CZ	3:ML:19:LEU:HD11	2.49	0.47
3:EA:56:SER:O	3:EA:59:ARG:O	2.32	0.47
3:EI:101:THR:O	3:EI:105:ARG:HG3	2.15	0.47
3:EI:132:TYR:CZ	3:FN:28:PRO:HB3	2.50	0.47
3:EJ:112:LEU:O	3:EJ:116:LEU:HD13	2.14	0.47
3:EJ:126:ASP:OD1	3:EJ:126:ASP:C	2.53	0.47
3:EL:55:PRO:HA	3:EL:60:LYS:O	2.15	0.47
3:FC:75:THR:HG22	3:FC:82:PRO:HG3	1.97	0.47
3:FF:70:ASN:OD1	3:FF:88:ALA:CB	2.55	0.47
3:GA:25:GLY:HA2	3:HB:132:TYR:CE2	2.50	0.47
3:GC:122:ILE:O	3:GC:126:ASP:HB3	2.14	0.47
3:GE:107:PHE:HE2	3:HE:46:LYS:HZ1	1.61	0.47
3:GH:91:ASP:OD1	3:GH:91:ASP:O	2.33	0.47
3:GJ:131:ALA:HB1	3:GN:3:LEU:CD2	2.44	0.47
3:GN:23:PRO:HA	3:GN:35:LEU:HD23	1.97	0.47
3:HN:81:ASP:OD2	3:IB:99:TYR:CE1	2.68	0.47
3:IA:102:ASP:OD1	3:IA:103:GLU:OE2	2.32	0.47
3:IG:125:ILE:HD11	3:JJ:109:ARG:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:104:GLU:O	3:IH:108:VAL:HG23	2.15	0.47
3:IM:6:VAL:HG12	3:IM:8:LEU:CD2	2.45	0.47
3:JF:94:PHE:CE1	3:KA:90:ALA:HB1	2.50	0.47
3:KJ:51:SER:OG	3:KJ:65:GLN:HB3	2.15	0.47
3:KK:60:LYS:H	3:KK:61:ASN:HB3	1.80	0.47
3:LC:99:TYR:OH	3:LD:83:SER:HA	2.15	0.47
3:LD:44:LEU:O	3:LD:44:LEU:HG	2.15	0.47
3:LD:49:THR:OG1	3:LD:67:LYS:HB3	2.14	0.47
3:MA:60:LYS:HB3	3:MA:61:ASN:HB2	1.97	0.47
3:MA:97:THR:N	3:MA:100:SER:OG	2.48	0.47
3:MD:41:VAL:HG22	3:MD:44:LEU:HD11	1.96	0.47
3:MF:106:ALA:O	3:MF:110:THR:HG22	2.14	0.47
3:MI:8:LEU:N	3:MI:8:LEU:HD22	2.30	0.47
3:MJ:121:LEU:HD12	3:MJ:121:LEU:N	2.30	0.47
3:NE:24:ARG:HB2	3:NE:34:SER:OG	2.14	0.47
3:NE:130:PRO:O	3:NE:130:PRO:HD2	2.15	0.47
3:NJ:54:GLN:HB3	3:NJ:55:PRO:HD3	1.95	0.47
1:A:904:G:H2'	1:A:905:A:O4'	2.15	0.47
1:A:933:C:O2'	3:BI:59:ARG:HD2	2.15	0.47
1:A:945:G:O2'	1:A:946:U:O4'	2.26	0.47
1:A:1228:C:N3	1:A:1229:U:C5	2.82	0.47
1:A:1833:A:C5	1:A:1834:A:N6	2.83	0.47
1:A:2050:U:C2	1:A:2111:G:O6	2.66	0.47
1:A:2151:A:H2'	1:A:2152:U:C6	2.49	0.47
1:A:2193:A:H2'	1:A:2194:U:O4'	2.15	0.47
1:A:2427:G:H5"	1:A:2866:A:H4'	1.97	0.47
1:A:2453:C:N4	1:A:2469:G:O6	2.48	0.47
1:A:2765:A:HO2'	1:A:2766:A:P	2.38	0.47
1:A:3290:U:H2'	1:A:3291:G:C8	2.50	0.47
1:A:3695:C:C2	1:A:3745:A:C2	3.03	0.47
1:A:3769:U:H2'	1:A:3770:C:O4'	2.16	0.47
1:A:3797:G:C2'	3:KK:55:PRO:O	2.63	0.47
3:BB:11:ILE:CD1	3:MA:111:GLU:N	2.78	0.47
3:BE:105:ARG:NH2	3:CE:128:LEU:HD13	2.30	0.47
3:BE:105:ARG:O	3:BE:108:VAL:HG12	2.15	0.47
3:BJ:46:LYS:N	3:BJ:46:LYS:HD2	2.30	0.47
3:BJ:132:TYR:CE2	3:CA:25:GLY:HA2	2.50	0.47
3:CC:79:SER:O	3:CC:80:CYS:CB	2.62	0.47
3:CF:125:ILE:HG12	3:GM:105:ARG:HB3	1.96	0.47
3:CL:11:ILE:HG23	3:CL:17:GLN:HB2	1.96	0.47
3:CM:19:LEU:HD11	3:NA:107:PHE:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:111:GLU:OE2	3:EN:19:LEU:HD22	2.15	0.47
3:DE:59:ARG:NE	3:DE:61:ASN:ND2	2.63	0.47
3:DM:110:THR:OG1	3:EM:11:ILE:HG23	2.15	0.47
3:EB:72:THR:HB	3:EB:86:ARG:HB2	1.98	0.47
3:FE:8:LEU:CD1	3:KI:114:ALA:HB3	2.38	0.47
3:FE:110:THR:CB	3:KI:11:ILE:HG23	2.45	0.47
3:FI:63:LYS:HZ1	3:FI:93:THR:HA	1.79	0.47
3:FM:115:LEU:C	3:FM:121:LEU:HD12	2.36	0.47
3:GL:55:PRO:HB3	3:GL:62:TYR:CE1	2.50	0.47
3:HA:42:PRO:HA	3:HA:45:GLU:OE1	2.14	0.47
3:HB:3:LEU:HD23	3:HB:3:LEU:H	1.79	0.47
3:HD:3:LEU:CD1	3:HD:35:LEU:HD11	2.44	0.47
3:IB:72:THR:HB	3:IB:86:ARG:HG2	1.96	0.47
3:IE:11:ILE:HD11	3:JL:111:GLU:N	2.29	0.47
3:JA:36:SER:HB2	3:JA:46:LYS:O	2.15	0.47
3:JA:59:ARG:C	3:JA:60:LYS:HD3	2.35	0.47
3:JE:80:CYS:HB3	3:JH:74:CYS:HA	1.96	0.47
3:JJ:20:VAL:CG2	3:JJ:38:ALA:HB2	2.44	0.47
3:JK:44:LEU:HD11	3:JK:82:PRO:HB2	1.97	0.47
3:JK:46:LYS:HE3	3:JK:70:ASN:OD1	2.15	0.47
3:JL:48:VAL:HG22	3:JL:68:ILE:HG12	1.97	0.47
3:KB:20:VAL:C	3:KB:21:LEU:HD22	2.36	0.47
3:KG:21:LEU:HD23	3:KG:37:GLN:N	2.30	0.47
3:KH:3:LEU:HD23	3:KH:3:LEU:H	1.80	0.47
3:KK:6:VAL:HG12	3:KK:8:LEU:HD22	1.97	0.47
3:KK:8:LEU:HD22	3:KK:8:LEU:N	2.28	0.47
3:KM:55:PRO:HD3	3:KM:62:TYR:CD2	2.49	0.47
3:LA:98:GLN:HG3	3:LB:43:ALA:HB2	1.96	0.47
3:LE:122:ILE:HG23	3:LE:126:ASP:OD2	2.15	0.47
3:LG:11:ILE:CG2	3:LG:17:GLN:HB2	2.45	0.47
3:MF:52:VAL:HG12	3:MF:64:VAL:HG22	1.96	0.47
3:ML:55:PRO:HB2	3:ML:60:LYS:HE3	1.97	0.47
3:NB:131:ALA:HB1	3:NF:3:LEU:CD2	2.45	0.47
1:A:337:U:C2	1:A:338:U:C5	3.04	0.46
1:A:1312:G:H2'	1:A:1313:U:O5'	2.16	0.46
1:A:1834:A:O2'	1:A:1835:G:H3'	2.15	0.46
1:A:2455:A:H2'	1:A:2456:C:C6	2.50	0.46
1:A:2990:U:C2	1:A:3399:G:C2	3.03	0.46
1:A:2994:A:H61	1:A:3394:A:H61	1.63	0.46
1:A:3108:G:H3'	1:A:3109:A:C8	2.50	0.46
1:A:3424:G:H2'	1:A:3426:G:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3795:G:N2	1:A:3807:G:H1	2.13	0.46
2:M:233:ARG:HA	2:M:233:ARG:NH1	2.30	0.46
3:D:69:GLN:NE2	3:D:88:ALA:O	2.49	0.46
3:BI:110:THR:HB	3:HM:11:ILE:HD12	1.97	0.46
3:BI:127:GLN:HB2	3:BI:129:ASN:ND2	2.30	0.46
3:BJ:114:ALA:HB1	3:BN:8:LEU:HD11	1.97	0.46
3:BK:24:ARG:C	3:BK:24:ARG:NE	2.68	0.46
3:CB:98:GLN:CD	3:CC:43:ALA:HB2	2.36	0.46
3:CB:122:ILE:HG23	3:HC:109:ARG:HH22	1.79	0.46
3:CC:41:VAL:O	3:CC:45:GLU:OE1	2.32	0.46
3:CF:111:GLU:N	3:GM:11:ILE:HD11	2.30	0.46
3:CK:8:LEU:HD21	3:NC:115:LEU:CD2	2.45	0.46
3:CK:132:TYR:CE2	3:ND:25:GLY:HA2	2.50	0.46
3:CM:59:ARG:NE	3:CM:61:ASN:ND2	2.62	0.46
3:CM:101:THR:O	3:CM:104:GLU:HG2	2.14	0.46
3:CN:86:ARG:HH22	3:DD:97:THR:HG23	1.80	0.46
3:CN:128:LEU:HD22	3:DD:62:TYR:CD2	2.50	0.46
3:DH:50:VAL:O	3:DH:50:VAL:HG13	2.15	0.46
3:DI:52:VAL:HG12	3:DI:64:VAL:HG22	1.96	0.46
3:DK:120:LEU:HD23	3:DK:121:LEU:N	2.30	0.46
3:EB:37:GLN:C	3:EB:45:GLU:OE2	2.54	0.46
3:EB:101:THR:HG22	3:EC:41:VAL:HG22	1.96	0.46
3:EE:129:ASN:OD1	3:LJ:24:ARG:CZ	2.63	0.46
3:EG:11:ILE:HD11	3:GC:111:GLU:N	2.30	0.46
3:EJ:34:SER:C	3:EJ:35:LEU:HD22	2.34	0.46
3:EN:11:ILE:HG22	3:EN:17:GLN:C	2.35	0.46
3:EN:11:ILE:HG23	3:EN:17:GLN:HB3	1.97	0.46
3:FC:116:LEU:O	3:GB:109:ARG:HD2	2.14	0.46
3:FD:53:SER:HB2	3:FD:63:LYS:CG	2.45	0.46
3:FH:96:PHE:CE1	3:FH:105:ARG:HG2	2.50	0.46
3:FJ:6:VAL:HG12	3:FJ:8:LEU:HD22	1.97	0.46
3:GF:115:LEU:HG	3:GF:121:LEU:CD1	2.45	0.46
3:HA:11:ILE:HG22	3:HA:17:GLN:C	2.36	0.46
3:HE:98:GLN:HE21	3:HF:43:ALA:CB	2.28	0.46
3:HF:18:THR:O	3:HF:19:LEU:HD22	2.15	0.46
3:HG:19:LEU:O	3:HG:19:LEU:HD12	2.15	0.46
3:HG:120:LEU:O	3:HG:123:ASP:OD1	2.33	0.46
3:HH:60:LYS:N	3:HH:61:ASN:HB2	2.30	0.46
3:HJ:123:ASP:OD1	3:HJ:129:ASN:HB2	2.14	0.46
3:HK:41:VAL:HG13	3:HK:44:LEU:HD11	1.96	0.46
3:HN:128:LEU:HD21	3:ID:62:TYR:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IE:67:LYS:HA	3:IE:67:LYS:HE3	1.97	0.46
3:II:96:PHE:CD2	3:II:105:ARG:HG2	2.50	0.46
3:IJ:23:PRO:HA	3:IJ:35:LEU:HD23	1.98	0.46
3:IJ:48:VAL:HG13	3:IJ:68:ILE:CD1	2.45	0.46
3:IL:23:PRO:HA	3:IL:35:LEU:HG	1.97	0.46
3:JA:59:ARG:HE	3:JA:63:LYS:HZ1	1.62	0.46
3:JA:81:ASP:OD2	3:JC:99:TYR:CE2	2.68	0.46
3:KH:15:GLY:O	3:KH:16:LYS:HE2	2.15	0.46
3:KI:101:THR:O	3:KI:105:ARG:HG3	2.14	0.46
3:KK:52:VAL:O	3:KK:52:VAL:CG2	2.63	0.46
3:KK:125:ILE:HD11	3:MH:64:VAL:HG11	1.97	0.46
3:LA:72:THR:OG1	3:LA:86:ARG:HB3	2.14	0.46
3:LE:68:ILE:CG2	3:LE:90:ALA:HB3	2.45	0.46
3:LG:109:ARG:CZ	3:MG:122:ILE:HD12	2.45	0.46
3:LL:13:LYS:HD3	3:LL:13:LYS:N	2.29	0.46
3:LL:109:ARG:NH2	3:MB:122:ILE:HD12	2.30	0.46
3:LN:91:ASP:OD1	3:MI:93:THR:HB	2.14	0.46
3:LN:111:GLU:OE1	3:MI:68:ILE:HD13	2.15	0.46
3:LN:128:LEU:CD2	3:MI:62:TYR:CD1	2.98	0.46
3:MD:60:LYS:HB2	3:MD:61:ASN:CB	2.41	0.46
3:MG:127:GLN:N	3:MG:127:GLN:OE1	2.49	0.46
3:ML:118:SER:OG	3:ML:119:PRO:HD2	2.15	0.46
3:NB:114:ALA:HB1	3:NF:8:LEU:HD12	1.94	0.46
1:A:190:C:H3'	3:NB:57:ARG:HH22	1.80	0.46
1:A:273:U:H2'	1:A:275:C:H41	1.79	0.46
1:A:627:C:H2'	1:A:628:U:C5	2.50	0.46
1:A:708:U:H2'	1:A:709:G:C8	2.50	0.46
1:A:744:U:C4	1:A:745:C:N4	2.84	0.46
1:A:932:C:H2'	1:A:933:C:O4'	2.16	0.46
1:A:1054:C:HO2'	1:A:1055:U:C5'	2.28	0.46
1:A:1446:U:H2'	1:A:1447:C:C6	2.50	0.46
1:A:1560:A:H2'	1:A:1561:C:C6	2.50	0.46
1:A:1627:U:OP1	1:A:1628:U:C5	2.67	0.46
1:A:2059:C:N4	1:A:2105:U:H2'	2.31	0.46
1:A:2538:C:H42	1:A:2572:A:N6	2.12	0.46
1:A:2573:G:H2'	1:A:2574:A:O4'	2.15	0.46
1:A:2634:A:C2	1:A:2635:A:C6	3.02	0.46
1:A:2706:U:H3'	1:A:2707:U:C6	2.51	0.46
1:A:3111:C:O2'	1:A:3112:A:H5'	2.15	0.46
1:A:3258:A:C5	1:A:3259:G:H1'	2.50	0.46
1:A:3283:A:O2'	1:A:3284:C:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3607:C:H2'	1:A:3608:U:C6	2.50	0.46
3:D:24:ARG:NH2	3:D:45:GLU:OE2	2.48	0.46
3:BA:122:ILE:HG22	3:MK:109:ARG:CZ	2.45	0.46
3:BB:43:ALA:C	3:BB:44:LEU:HD12	2.35	0.46
3:BB:125:ILE:HD11	3:MA:109:ARG:CD	2.40	0.46
3:BB:132:TYR:CD1	3:NJ:132:TYR:CE2	3.03	0.46
3:BC:132:TYR:HA	3:ND:3:LEU:HD23	1.96	0.46
3:BE:105:ARG:CZ	3:CE:128:LEU:HD13	2.46	0.46
3:BH:111:GLU:N	3:IL:11:ILE:HD11	2.29	0.46
3:BK:111:GLU:CD	3:HK:68:ILE:HD11	2.35	0.46
3:BL:62:TYR:CE2	3:BL:98:GLN:OE1	2.68	0.46
3:BL:120:LEU:HD23	3:BL:120:LEU:C	2.35	0.46
3:CB:111:GLU:CA	3:HC:11:ILE:HD11	2.45	0.46
3:CC:120:LEU:O	3:CC:123:ASP:OD1	2.32	0.46
3:CE:27:ASN:ND2	3:CE:30:ASN:OD1	2.48	0.46
3:CH:125:ILE:HD12	3:HL:94:PHE:HD1	1.80	0.46
3:CL:118:SER:O	3:CL:122:ILE:HG12	2.15	0.46
3:DA:104:GLU:O	3:DA:108:VAL:HG12	2.15	0.46
3:DG:125:ILE:HG23	3:DG:126:ASP:N	2.29	0.46
3:DJ:61:ASN:ND2	3:DJ:96:PHE:O	2.48	0.46
3:EA:42:PRO:HA	3:EA:45:GLU:HB2	1.97	0.46
3:ED:99:TYR:HA	3:EE:41:VAL:HG13	1.97	0.46
3:EE:44:LEU:O	3:EE:44:LEU:HG	2.16	0.46
3:EG:3:LEU:HD23	3:EG:3:LEU:H	1.81	0.46
3:EG:102:ASP:OD1	3:GC:126:ASP:O	2.33	0.46
3:EI:92:VAL:HG21	3:GA:112:LEU:HD21	1.97	0.46
3:EI:128:LEU:HD21	3:GA:62:TYR:HD1	1.79	0.46
3:EJ:14:ASP:OD2	3:EJ:14:ASP:C	2.53	0.46
3:EK:76:ALA:HA	3:FN:79:SER:HA	1.97	0.46
3:FJ:32:VAL:HG22	3:FJ:51:SER:HB2	1.97	0.46
3:FJ:48:VAL:HG22	3:FJ:68:ILE:CD1	2.44	0.46
3:FK:70:ASN:OD1	3:FK:70:ASN:C	2.53	0.46
3:FM:60:LYS:O	3:FM:60:LYS:NZ	2.39	0.46
3:GB:60:LYS:HB2	3:GB:61:ASN:HB3	1.97	0.46
3:GD:109:ARG:NH2	3:KF:116:LEU:O	2.48	0.46
3:GE:23:PRO:HA	3:GE:35:LEU:HD23	1.98	0.46
3:GH:52:VAL:O	3:GH:52:VAL:HG23	2.14	0.46
3:GL:52:VAL:CG2	3:HG:130:PRO:HA	2.46	0.46
3:IB:129:ASN:OD1	3:II:25:GLY:CA	2.63	0.46
3:IC:103:GLU:O	3:JN:13:LYS:NZ	2.41	0.46
3:IF:48:VAL:CG1	3:NI:115:LEU:HD21	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IG:62:TYR:CD2	3:JJ:128:LEU:HD22	2.45	0.46
3:IH:111:GLU:N	3:NG:11:ILE:HD11	2.30	0.46
3:IL:11:ILE:CG2	3:IL:17:GLN:HB2	2.45	0.46
3:JD:130:PRO:HB3	3:JH:52:VAL:HG22	1.98	0.46
3:JF:86:ARG:HH12	3:KA:99:TYR:C	2.16	0.46
3:JI:45:GLU:O	3:JI:47:ARG:HD3	2.15	0.46
3:JI:107:PHE:CE2	3:LB:46:LYS:NZ	2.83	0.46
3:JK:32:VAL:HA	3:JK:51:SER:OG	2.14	0.46
3:JL:55:PRO:HB2	3:JL:60:LYS:HD2	1.97	0.46
3:JM:44:LEU:O	3:JM:44:LEU:HD12	2.15	0.46
3:KC:106:ALA:CB	3:LC:13:LYS:HZ2	2.23	0.46
3:KD:52:VAL:O	3:KD:52:VAL:CG2	2.61	0.46
3:KJ:23:PRO:HA	3:KJ:35:LEU:HG	1.97	0.46
3:KM:84:VAL:HG23	3:KM:84:VAL:O	2.16	0.46
3:LG:52:VAL:HG12	3:LG:64:VAL:HG22	1.96	0.46
3:LH:20:VAL:O	3:LH:37:GLN:HG3	2.15	0.46
3:LL:47:ARG:NE	3:LL:69:GLN:OE1	2.47	0.46
3:MA:8:LEU:N	3:MA:8:LEU:HD22	2.29	0.46
3:MJ:48:VAL:HG22	3:MJ:68:ILE:HG13	1.97	0.46
3:ML:7:THR:C	3:ML:8:LEU:HD22	2.36	0.46
3:MM:44:LEU:HD22	3:NA:98:GLN:O	2.15	0.46
3:NB:105:ARG:O	3:NB:108:VAL:HG12	2.15	0.46
3:ND:23:PRO:HA	3:ND:35:LEU:HG	1.96	0.46
3:NH:44:LEU:HD22	3:NJ:98:GLN:O	2.15	0.46
3:NH:122:ILE:HG23	3:NH:123:ASP:N	2.30	0.46
1:A:331:C:C3’	1:A:332:U:H5’	2.45	0.46
1:A:439:G:H2’	1:A:440:A:O4’	2.15	0.46
1:A:525:C:H2’	1:A:526:G:O4’	2.15	0.46
1:A:905:A:O2’	1:A:906:A:H5’	2.15	0.46
1:A:1235:U:H2’	1:A:1236:C:C6	2.50	0.46
1:A:1402:U:H2’	1:A:1403:G:C8	2.50	0.46
1:A:1495:U:H2’	1:A:1496:U:H5’	1.97	0.46
1:A:1542:G:C2	1:A:1543:U:C2	3.04	0.46
1:A:1875:U:H5”	1:A:1876:A:P	2.55	0.46
1:A:2154:U:C4	1:A:2155:A:N7	2.84	0.46
1:A:2157:C:O2’	1:A:2158:U:H5’	2.16	0.46
1:A:2162:G:C5’	1:A:2163:U:H5	2.28	0.46
1:A:2383:U:H2’	1:A:2386:G:OP1	2.15	0.46
1:A:2609:U:H2’	1:A:2610:G:C8	2.49	0.46
1:A:3494:G:H1’	3:KM:67:LYS:HZ1	1.80	0.46
1:A:3578:C:C2	1:A:3848:G:C2	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3581:U:O2	1:A:4167:C:H4'	2.15	0.46
1:A:3698:G:C2	1:A:3742:C:C2	3.04	0.46
1:A:3834:A:O2'	3:LF:59:ARG:NH2	2.48	0.46
1:A:3913:G:C6	1:A:3914:U:C2	3.03	0.46
1:A:3991:G:H2'	1:A:3992:G:C8	2.50	0.46
1:A:3992:G:O5'	3:KN:59:ARG:NH2	2.34	0.46
2:M:62:ARG:NH2	2:M:86:ASP:OD2	2.48	0.46
2:M:213:LEU:HD11	2:M:217:ILE:HD11	1.97	0.46
3:BD:108:VAL:O	3:BD:111:GLU:HG3	2.15	0.46
3:BD:119:PRO:O	3:BD:122:ILE:CG2	2.63	0.46
3:BE:115:LEU:HD22	3:CE:8:LEU:HD12	1.97	0.46
3:BK:21:LEU:HB3	3:BK:35:LEU:HB3	1.97	0.46
3:BN:28:PRO:HB3	3:DH:132:TYR:CZ	2.51	0.46
3:CA:1:ALA:N	3:DH:123:ASP:OD2	2.35	0.46
3:CB:60:LYS:N	3:CB:61:ASN:HB3	2.30	0.46
3:CC:81:ASP:HB3	3:CC:82:PRO:HD3	1.97	0.46
3:CD:130:PRO:HA	3:HA:52:VAL:CG1	2.46	0.46
3:CI:104:GLU:OE2	3:DI:86:ARG:NH2	2.47	0.46
3:CJ:115:LEU:HD12	3:HJ:8:LEU:HD22	1.96	0.46
3:CK:111:GLU:N	3:NC:11:ILE:HD11	2.30	0.46
3:CL:54:GLN:HE22	3:CM:24:ARG:HE	1.63	0.46
3:CM:14:ASP:HB2	3:CM:16:LYS:NZ	2.30	0.46
3:DB:99:TYR:O	3:DK:86:ARG:CZ	2.64	0.46
3:DE:55:PRO:HB3	3:DE:60:LYS:HD3	1.97	0.46
3:DG:128:LEU:HD23	3:EJ:62:TYR:CD2	2.50	0.46
3:DH:55:PRO:HA	3:DH:60:LYS:O	2.15	0.46
3:DM:13:LYS:HZ1	3:EM:103:GLU:HB3	1.81	0.46
3:DN:55:PRO:HB2	3:DN:60:LYS:HG3	1.96	0.46
3:EA:102:ASP:N	3:EA:105:ARG:CZ	2.79	0.46
3:EB:62:TYR:OH	3:EC:42:PRO:HB2	2.14	0.46
3:EG:11:ILE:CG2	3:EG:17:GLN:HB2	2.45	0.46
3:EI:95:SER:OG	3:GA:89:TYR:HB2	2.16	0.46
3:FF:8:LEU:HD11	3:LF:114:ALA:C	2.35	0.46
3:FH:68:ILE:HD11	3:FK:115:LEU:HD13	1.94	0.46
3:FJ:100:SER:N	3:HF:86:ARG:CZ	2.79	0.46
3:FL:121:LEU:HA	3:FL:124:ALA:HB3	1.97	0.46
3:FN:14:ASP:OD1	3:FN:14:ASP:C	2.54	0.46
3:GJ:24:ARG:HG3	3:GJ:25:GLY:N	2.30	0.46
3:GJ:125:ILE:HG22	3:GN:105:ARG:CD	2.40	0.46
3:GK:44:LEU:O	3:GK:44:LEU:HG	2.14	0.46
3:HC:26:VAL:HG13	3:HC:26:VAL:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HH:61:ASN:HA	3:HH:96:PHE:O	2.15	0.46
3:HN:24:ARG:HB2	3:HN:34:SER:OG	2.15	0.46
3:HN:119:PRO:HA	3:HN:122:ILE:HG12	1.96	0.46
3:IG:6:VAL:HG12	3:IG:8:LEU:CD2	2.45	0.46
3:II:54:GLN:O	3:II:59:ARG:HD2	2.16	0.46
3:II:84:VAL:O	3:II:84:VAL:HG13	2.14	0.46
3:II:128:LEU:N	3:II:128:LEU:CD1	2.76	0.46
3:IK:25:GLY:HA2	3:NE:132:TYR:CE2	2.50	0.46
3:IL:51:SER:OG	3:IL:65:GLN:HB2	2.16	0.46
3:IL:108:VAL:HA	3:IL:111:GLU:OE1	2.15	0.46
3:IM:97:THR:N	3:IM:100:SER:OG	2.48	0.46
3:JD:101:THR:O	3:JD:104:GLU:HG2	2.15	0.46
3:JK:100:SER:HA	3:KN:86:ARG:NH1	2.30	0.46
3:JM:20:VAL:C	3:JM:21:LEU:HD22	2.35	0.46
3:KD:65:GLN:HE22	3:KD:67:LYS:HB2	1.80	0.46
3:KJ:24:ARG:HB2	3:KJ:34:SER:OG	2.14	0.46
3:LN:64:VAL:HG11	3:MI:125:ILE:HD13	1.95	0.46
3:LN:96:PHE:HB3	3:LN:100:SER:HB3	1.97	0.46
3:MG:24:ARG:HG3	3:MG:25:GLY:N	2.29	0.46
3:MI:11:ILE:CG2	3:MI:17:GLN:HB2	2.46	0.46
3:MM:27:ASN:OD1	3:MM:29:THR:N	2.48	0.46
3:NB:56:SER:O	3:NB:59:ARG:O	2.32	0.46
1:A:273:U:O4	1:A:276:G:O6	2.34	0.46
1:A:327:A:HO2'	1:A:328:G:C5'	2.19	0.46
1:A:1096:G:H2'	1:A:1097:A:O4'	2.16	0.46
1:A:1224:C:C2	1:A:1225:A:N6	2.84	0.46
1:A:1865:A:H2'	1:A:1866:G:O4'	2.15	0.46
1:A:2035:A:C5	1:A:2036:U:C5	3.03	0.46
1:A:2608:U:H3'	1:A:2609:U:H5"	1.98	0.46
1:A:2617:A:H2'	1:A:2618:A:H5'	1.97	0.46
1:A:2770:G:C6	1:A:2771:A:N6	2.84	0.46
1:A:2916:G:H5"	3:HB:59:ARG:HH22	1.80	0.46
1:A:3145:C:H2'	1:A:3146:C:C6	2.50	0.46
1:A:3268:A:HO2'	1:A:3269:G:H8	1.63	0.46
1:A:3409:A:OP2	1:A:3526:C:H5'	2.15	0.46
1:A:3771:G:O5'	3:LH:32:VAL:CG2	2.63	0.46
1:A:3796:C:H42	1:A:3806:C:H42	1.64	0.46
1:A:4131:G:H2'	1:A:4132:C:C6	2.51	0.46
2:M:181:ALA:O	2:M:184:ARG:HG2	2.16	0.46
3:BA:130:PRO:HG2	3:ML:24:ARG:HA	1.98	0.46
3:BB:102:ASP:OD2	3:MA:13:LYS:HE3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:92:VAL:HG21	3:ND:112:LEU:HD11	1.98	0.46
3:BH:52:VAL:CG1	3:IL:130:PRO:HB3	2.45	0.46
3:BH:101:THR:HG23	3:BH:104:GLU:H	1.80	0.46
3:BI:89:TYR:HB2	3:HM:95:SER:OG	2.15	0.46
3:BK:13:LYS:CE	3:HK:102:ASP:OD1	2.63	0.46
3:CD:12:GLY:N	3:HA:110:THR:HG21	2.30	0.46
3:CE:8:LEU:HD23	3:CE:8:LEU:C	2.36	0.46
3:CE:32:VAL:HG13	3:CE:51:SER:OG	2.16	0.46
3:CE:61:ASN:HA	3:CE:96:PHE:O	2.15	0.46
3:CF:11:ILE:HG21	3:CF:19:LEU:HD23	1.98	0.46
3:CH:16:LYS:HE2	3:CH:16:LYS:HA	1.98	0.46
3:CM:29:THR:HG1	3:CM:30:ASN:H	1.63	0.46
3:CM:55:PRO:HA	3:CM:60:LYS:O	2.14	0.46
3:DD:26:VAL:HG23	3:DD:33:ALA:N	2.29	0.46
3:DL:81:ASP:OD1	3:DN:99:TYR:CG	2.68	0.46
3:DL:115:LEU:HD23	3:MN:8:LEU:HD21	1.98	0.46
3:DM:8:LEU:HD12	3:EM:114:ALA:HB1	1.98	0.46
3:DM:105:ARG:CD	3:EM:128:LEU:HD11	2.45	0.46
3:DN:110:THR:OG1	3:ML:11:ILE:HD12	2.16	0.46
3:EE:3:LEU:H	3:EE:3:LEU:HD12	1.80	0.46
3:EE:8:LEU:HD23	3:EE:19:LEU:HB2	1.97	0.46
3:EH:87:GLN:O	3:EH:87:GLN:HG3	2.15	0.46
3:EK:8:LEU:HD11	3:FM:114:ALA:C	2.35	0.46
3:EL:34:SER:C	3:EL:35:LEU:HD12	2.36	0.46
3:FA:118:SER:OG	3:FA:119:PRO:HD2	2.15	0.46
3:FK:43:ALA:O	3:FK:44:LEU:HD12	2.15	0.46
3:FL:102:ASP:OD1	3:FL:103:GLU:N	2.49	0.46
3:FL:130:PRO:HG2	3:HB:25:GLY:HA3	1.96	0.46
3:GF:103:GLU:N	3:KD:13:LYS:HZ1	2.14	0.46
3:GM:53:SER:HB3	3:GM:59:ARG:HD2	1.97	0.46
3:HJ:17:GLN:HA	3:HJ:17:GLN:OE1	2.16	0.46
3:IB:75:THR:HG23	3:IB:75:THR:O	2.15	0.46
3:IF:56:SER:O	3:IF:59:ARG:O	2.34	0.46
3:IM:109:ARG:HH22	3:JM:122:ILE:HD12	1.80	0.46
3:IN:121:LEU:HA	3:IN:124:ALA:HB3	1.98	0.46
3:JC:60:LYS:HB3	3:JC:98:GLN:CG	2.46	0.46
3:JD:27:ASN:OD1	3:JD:29:THR:N	2.41	0.46
3:JD:98:GLN:HG3	3:JE:43:ALA:HB2	1.97	0.46
3:JD:131:ALA:O	3:JD:132:TYR:HD1	1.98	0.46
3:JE:4:GLU:OE1	3:JE:5:THR:N	2.48	0.46
3:JE:45:GLU:N	3:JE:45:GLU:OE1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JG:44:LEU:HD12	3:JG:44:LEU:O	2.16	0.46
3:JG:61:ASN:HA	3:JG:96:PHE:O	2.16	0.46
3:JG:122:ILE:CA	3:LD:109:ARG:HH12	2.24	0.46
3:KB:44:LEU:HD12	3:KB:44:LEU:O	2.15	0.46
3:KC:54:GLN:HG3	3:KC:62:TYR:HE1	1.80	0.46
3:KJ:109:ARG:HE	3:LE:126:ASP:CG	2.19	0.46
3:KK:41:VAL:N	3:KK:42:PRO:CD	2.78	0.46
3:LL:116:LEU:HD21	3:MB:109:ARG:CG	2.44	0.46
3:MA:60:LYS:HB3	3:MA:61:ASN:CB	2.45	0.46
3:MC:55:PRO:HA	3:MC:60:LYS:O	2.16	0.46
3:MH:14:ASP:N	3:MH:14:ASP:OD1	2.47	0.46
3:MM:19:LEU:HD21	3:MM:21:LEU:HD21	1.97	0.46
3:NI:87:GLN:HB3	3:NI:89:TYR:CE2	2.49	0.46
1:A:180:A:H3'	3:CM:58:ASN:O	2.15	0.46
1:A:434:A:O3'	3:MM:63:LYS:NZ	2.49	0.46
1:A:683:G:H2'	1:A:684:U:O4'	2.15	0.46
1:A:951:U:HO2'	1:A:952:U:H6	1.64	0.46
1:A:1358:G:C2	1:A:1359:A:C5	3.03	0.46
1:A:1765:G:C2	1:A:1819:C:C2	3.04	0.46
1:A:2244:U:C2	1:A:2245:C:C5	3.03	0.46
1:A:2552:G:H2'	1:A:2553:A:C8	2.50	0.46
1:A:2596:U:C2	1:A:2657:A:N1	2.84	0.46
1:A:2604:G:HO2'	1:A:2618:A:N6	2.14	0.46
1:A:3092:G:H2'	1:A:3093:G:C8	2.50	0.46
1:A:3099:G:H2'	1:A:3100:A:C8	2.50	0.46
1:A:3402:U:H2'	1:A:3403:C:C6	2.49	0.46
1:A:3488:U:OP1	3:MF:59:ARG:NH1	2.49	0.46
1:A:3504:A:C2	1:A:3505:A:C5	3.03	0.46
1:A:3582:U:H2'	1:A:3583:A:O4'	2.15	0.46
1:A:3589:G:C5	1:A:3663:G:N2	2.83	0.46
1:A:3779:C:C2	1:A:3838:A:C2	3.03	0.46
1:A:3808:G:H1'	3:KH:58:ASN:HA	1.98	0.46
1:A:3955:C:H2'	1:A:3956:U:H6	1.81	0.46
1:A:4072:C:C2	1:A:4080:G:N2	2.83	0.46
1:A:4135:C:O3'	3:KE:59:ARG:CZ	2.63	0.46
2:M:149:MET:HA	2:M:152:GLU:HG3	1.98	0.46
2:M:223:ASP:OD1	2:M:227:ARG:NE	2.48	0.46
3:D:54:GLN:NE2	3:D:56:SER:OG	2.49	0.46
3:BA:24:ARG:HA	3:ND:129:ASN:ND2	2.30	0.46
3:BB:39:GLY:N	3:BB:45:GLU:OE2	2.48	0.46
3:BB:52:VAL:CG1	3:MA:130:PRO:HG3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:130:PRO:HA	3:ND:52:VAL:HG22	1.98	0.46
3:BG:102:ASP:OD2	3:IA:126:ASP:O	2.34	0.46
3:BH:128:LEU:HD11	3:IL:105:ARG:NE	2.30	0.46
3:BI:13:LYS:HE3	3:HM:106:ALA:HB3	1.96	0.46
3:BN:127:GLN:HB2	3:BN:129:ASN:ND2	2.31	0.46
3:CB:100:SER:N	3:HC:86:ARG:NH2	2.63	0.46
3:CF:13:LYS:NZ	3:GM:102:ASP:OD1	2.46	0.46
3:CJ:109:ARG:CG	3:CJ:110:THR:N	2.77	0.46
3:DH:55:PRO:HG3	3:DH:62:TYR:CZ	2.50	0.46
3:DN:126:ASP:OD1	3:DN:126:ASP:C	2.54	0.46
3:EA:86:ARG:HH11	3:EA:86:ARG:HG2	1.80	0.46
3:EB:11:ILE:HD11	3:MJ:111:GLU:N	2.31	0.46
3:EF:118:SER:O	3:EF:122:ILE:CD1	2.64	0.46
3:EI:13:LYS:HZ3	3:GA:102:ASP:C	2.19	0.46
3:EI:15:GLY:C	3:EI:16:LYS:HD2	2.36	0.46
3:EJ:55:PRO:HD3	3:EJ:62:TYR:CE1	2.50	0.46
3:FG:55:PRO:HB3	3:FG:60:LYS:HD3	1.96	0.46
3:FG:111:GLU:OE2	3:KG:11:ILE:HG12	2.15	0.46
3:FH:129:ASN:O	3:FH:129:ASN:OD1	2.34	0.46
3:GA:11:ILE:CD1	3:GA:19:LEU:HG	2.46	0.46
3:GA:37:GLN:OE1	3:GA:46:LYS:HD2	2.16	0.46
3:GF:48:VAL:HG22	3:GF:68:ILE:HD12	1.98	0.46
3:GH:79:SER:OG	3:JE:76:ALA:HA	2.15	0.46
3:GI:3:LEU:HB3	3:GI:23:PRO:HB3	1.98	0.46
3:GL:53:SER:OG	3:GL:63:LYS:HB3	2.14	0.46
3:GL:114:ALA:HB1	3:HG:8:LEU:CG	2.46	0.46
3:HD:42:PRO:CD	3:HD:43:ALA:N	2.79	0.46
3:HG:53:SER:OG	3:HG:63:LYS:HB2	2.15	0.46
3:HJ:101:THR:CG2	3:HJ:104:GLU:OE1	2.63	0.46
3:IB:52:VAL:CG1	3:IK:130:PRO:HA	2.45	0.46
3:IC:118:SER:OG	3:IC:119:PRO:HD2	2.16	0.46
3:ID:3:LEU:HD23	3:ID:3:LEU:N	2.30	0.46
3:ID:79:SER:O	3:ID:80:CYS:CB	2.64	0.46
3:IE:19:LEU:HD21	3:IE:21:LEU:HD21	1.98	0.46
3:IL:41:VAL:N	3:IL:42:PRO:CD	2.79	0.46
3:IN:55:PRO:HA	3:IN:60:LYS:O	2.16	0.46
3:JD:84:VAL:O	3:JD:84:VAL:HG13	2.15	0.46
3:JF:8:LEU:CD1	3:KA:115:LEU:HD22	2.45	0.46
3:JF:86:ARG:NH1	3:KA:99:TYR:O	2.38	0.46
3:JM:49:THR:OG1	3:JM:67:LYS:HB2	2.16	0.46
3:KA:48:VAL:HG23	3:KA:68:ILE:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KK:66:VAL:CG2	3:KK:92:VAL:CG1	2.93	0.46
3:KM:55:PRO:CD	3:KM:62:TYR:CE2	2.98	0.46
3:LA:72:THR:HB	3:LA:86:ARG:HB3	1.97	0.46
3:LJ:30:ASN:OD1	3:LJ:32:VAL:HG12	2.16	0.46
3:LL:86:ARG:NH1	3:MB:97:THR:HG23	2.30	0.46
3:LM:118:SER:O	3:LM:122:ILE:HG13	2.15	0.46
3:LN:110:THR:HB	3:MI:11:ILE:HD12	1.95	0.46
3:MB:116:LEU:HD12	3:MB:116:LEU:O	2.15	0.46
3:MD:56:SER:O	3:MD:59:ARG:O	2.33	0.46
3:ME:106:ALA:HB3	3:NH:13:LYS:HD3	1.96	0.46
3:NE:27:ASN:O	3:NE:31:GLY:N	2.41	0.46
1:A:293:U:H2'	1:A:294:U:O4'	2.15	0.46
1:A:339:C:H2'	1:A:340:U:O4'	2.16	0.46
1:A:1098:C:C2	1:A:1099:G:C8	3.04	0.46
1:A:2631:G:C5	1:A:2632:A:C5	3.04	0.46
1:A:3373:G:H4'	1:A:3374:U:O5'	2.16	0.46
1:A:3536:G:HO2'	1:A:3537:U:H6	1.60	0.46
1:A:3573:A:C2	1:A:3914:U:H2'	2.51	0.46
1:A:3580:U:N3	1:A:3845:A:N6	2.63	0.46
1:A:3629:G:O2'	1:A:3630:A:H5'	2.16	0.46
1:A:4049:G:H2'	1:A:4050:U:O4'	2.15	0.46
2:M:232:GLN:CG	2:M:337:LEU:HD21	2.45	0.46
2:M:315:THR:O	2:M:315:THR:HG23	2.15	0.46
3:BD:122:ILE:CD1	3:JB:109:ARG:CZ	2.93	0.46
3:BE:3:LEU:HD13	3:BE:23:PRO:CB	2.42	0.46
3:BH:52:VAL:HG12	3:IL:130:PRO:HB3	1.97	0.46
3:BI:55:PRO:HB3	3:BI:60:LYS:CD	2.45	0.46
3:CG:42:PRO:CA	3:CG:45:GLU:OE1	2.64	0.46
3:CI:51:SER:OG	3:CI:65:GLN:HB2	2.16	0.46
3:CI:79:SER:HA	3:HL:76:ALA:HA	1.97	0.46
3:CL:93:THR:HB	3:HH:91:ASP:OD2	2.16	0.46
3:CN:102:ASP:N	3:CN:102:ASP:OD1	2.48	0.46
3:DC:32:VAL:HG13	3:DC:51:SER:OG	2.16	0.46
3:DC:109:ARG:HH12	3:EN:122:ILE:HA	1.81	0.46
3:DE:116:LEU:CD1	3:EL:109:ARG:HG3	2.46	0.46
3:DK:117:ALA:O	3:DK:122:ILE:HD11	2.15	0.46
3:DL:34:SER:C	3:DL:35:LEU:HD22	2.36	0.46
3:DL:111:GLU:N	3:MN:11:ILE:HD11	2.30	0.46
3:EA:37:GLN:OE1	3:EA:39:GLY:N	2.36	0.46
3:EA:55:PRO:HD3	3:EA:62:TYR:CE2	2.50	0.46
3:EB:106:ALA:HA	3:EB:109:ARG:NE	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:111:GLU:CA	3:MJ:11:ILE:HD11	2.46	0.46
3:ED:22:ASN:O	3:ED:35:LEU:HD13	2.15	0.46
3:EE:122:ILE:O	3:EE:126:ASP:HB3	2.15	0.46
3:EF:44:LEU:HG	3:EF:44:LEU:O	2.15	0.46
3:EF:46:LYS:HZ3	3:FA:111:GLU:HG2	1.80	0.46
3:EF:87:GLN:N	3:EF:87:GLN:OE1	2.48	0.46
3:EL:52:VAL:CG2	3:EL:64:VAL:HG22	2.42	0.46
3:FA:29:THR:OG1	3:FA:30:ASN:N	2.48	0.46
3:GA:41:VAL:HG11	3:GA:44:LEU:HG	1.97	0.46
3:GC:21:LEU:HD11	3:GC:48:VAL:CG2	2.45	0.46
3:GF:126:ASP:OD1	3:KD:106:ALA:HB2	2.16	0.46
3:GH:53:SER:HB3	3:GH:63:LYS:HB2	1.97	0.46
3:GI:84:VAL:O	3:GI:84:VAL:HG13	2.15	0.46
3:HH:54:GLN:HB3	3:HH:55:PRO:CD	2.46	0.46
3:IF:60:LYS:HB2	3:IF:61:ASN:CB	2.44	0.46
3:IF:97:THR:OG1	3:NI:86:ARG:CZ	2.63	0.46
3:IG:105:ARG:NH1	3:JJ:126:ASP:CA	2.77	0.46
3:IL:101:THR:OG1	3:IL:103:GLU:OE2	2.33	0.46
3:IN:55:PRO:HB2	3:IN:60:LYS:HZ1	1.81	0.46
3:JA:8:LEU:HD22	3:JA:8:LEU:N	2.31	0.46
3:JF:81:ASP:N	3:JF:81:ASP:OD2	2.49	0.46
3:JH:17:GLN:HG3	3:JH:18:THR:N	2.30	0.46
3:JJ:6:VAL:HG12	3:JJ:8:LEU:HD22	1.98	0.46
3:JJ:13:LYS:N	3:JJ:13:LYS:CD	2.78	0.46
3:KA:96:PHE:HB3	3:KA:100:SER:HB3	1.97	0.46
3:KE:111:GLU:O	3:KE:115:LEU:HG	2.15	0.46
3:KF:99:TYR:OH	3:KG:82:PRO:N	2.48	0.46
3:KL:118:SER:O	3:KL:122:ILE:HG13	2.16	0.46
3:KN:44:LEU:CD1	3:LB:98:GLN:HE21	2.29	0.46
3:KN:101:THR:O	3:KN:105:ARG:HG3	2.16	0.46
3:LA:105:ARG:NE	3:MD:128:LEU:HD11	2.29	0.46
3:LG:105:ARG:O	3:LG:108:VAL:HG22	2.14	0.46
3:LI:76:ALA:O	3:LI:78:GLY:N	2.48	0.46
3:LJ:27:ASN:HB3	3:LJ:32:VAL:HG12	1.97	0.46
3:LL:60:LYS:HB2	3:LL:61:ASN:HB2	1.98	0.46
3:LL:86:ARG:CZ	3:MB:100:SER:HA	2.46	0.46
3:LN:61:ASN:O	3:LN:63:LYS:CE	2.64	0.46
3:MC:13:LYS:NZ	3:NJ:103:GLU:HA	2.31	0.46
3:MD:34:SER:C	3:MD:35:LEU:HD22	2.35	0.46
3:NB:30:ASN:CG	3:NB:32:VAL:HG23	2.35	0.46
3:NH:66:VAL:O	3:NH:66:VAL:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NJ:70:ASN:HB2	3:NJ:88:ALA:HB3	1.97	0.46
3:NJ:84:VAL:HG12	3:NJ:87:GLN:NE2	2.31	0.46
1:A:189:U:O2	1:A:308:C:C2	2.68	0.46
1:A:253:A:OP1	1:A:254:C:H4'	2.16	0.46
1:A:454:U:H2'	1:A:455:U:O4'	2.14	0.46
1:A:975:C:N3	1:A:976:A:N7	2.64	0.46
1:A:1267:U:H2'	1:A:1268:C:O4'	2.16	0.46
1:A:1301:U:O2	1:A:1301:U:H2'	2.16	0.46
1:A:1655:G:C2	1:A:1656:G:C4	3.04	0.46
1:A:1874:U:C5	1:A:2842:G:H2'	2.51	0.46
1:A:2105:U:OP1	3:JD:59:ARG:CZ	2.64	0.46
1:A:2117:G:OP1	1:A:2119:A:N6	2.49	0.46
1:A:2250:G:N2	1:A:2251:G:C4	2.84	0.46
1:A:2356:C:OP1	3:FL:61:ASN:ND2	2.48	0.46
1:A:2386:G:H2'	1:A:2387:C:O4'	2.16	0.46
1:A:2511:U:C2	1:A:2512:C:C6	3.04	0.46
1:A:2607:A:OP1	3:EI:61:ASN:ND2	2.49	0.46
1:A:3243:G:H2'	1:A:3243:G:N3	2.30	0.46
1:A:3585:A:H3'	1:A:3586:U:C5	2.51	0.46
1:A:3769:U:C3'	1:A:3770:C:O4'	2.63	0.46
1:A:4173:C:H4'	3:FI:99:TYR:HE1	1.81	0.46
2:M:132:VAL:N	2:M:133:PRO:CD	2.79	0.46
2:M:228:HIS:O	2:M:232:GLN:CD	2.54	0.46
2:M:247:VAL:HG12	2:M:248:GLU:N	2.30	0.46
3:BF:93:THR:HB	3:IN:91:ASP:OD2	2.15	0.46
3:BH:55:PRO:HD3	3:BH:62:TYR:HE2	1.81	0.46
3:BI:24:ARG:HE	3:IL:130:PRO:HD3	1.81	0.46
3:BJ:86:ARG:CZ	3:BN:100:SER:HA	2.45	0.46
3:BJ:102:ASP:OD1	3:BN:13:LYS:NZ	2.40	0.46
3:BM:89:TYR:O	3:DJ:95:SER:OG	2.30	0.46
3:CA:95:SER:OG	3:DH:89:TYR:HB2	2.15	0.46
3:CA:109:ARG:CZ	3:DH:122:ILE:HD13	2.44	0.46
3:CB:4:GLU:HG3	3:CB:5:THR:N	2.30	0.46
3:CC:42:PRO:O	3:CC:47:ARG:NH1	2.48	0.46
3:CD:132:TYR:CZ	3:GN:28:PRO:HB3	2.51	0.46
3:CE:24:ARG:HB2	3:CE:34:SER:OG	2.16	0.46
3:CE:81:ASP:OD2	3:CG:99:TYR:CZ	2.68	0.46
3:CI:118:SER:O	3:CI:122:ILE:HG13	2.16	0.46
3:CJ:106:ALA:HA	3:CJ:109:ARG:CD	2.46	0.46
3:CL:24:ARG:NH2	3:NC:127:GLN:O	2.49	0.46
3:CN:97:THR:N	3:CN:100:SER:OG	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:111:GLU:OE2	3:DK:68:ILE:CG2	2.60	0.46
3:DE:131:ALA:HB1	3:EL:3:LEU:CD2	2.46	0.46
3:ED:109:ARG:NE	3:ED:110:THR:HG23	2.29	0.46
3:ED:128:LEU:HD11	3:EH:105:ARG:CD	2.46	0.46
3:EE:72:THR:OG1	3:EE:86:ARG:HB2	2.16	0.46
3:EG:75:THR:O	3:EG:75:THR:HG23	2.16	0.46
3:EK:125:ILE:CG1	3:FM:109:ARG:CZ	2.93	0.46
3:EM:121:LEU:HD12	3:EM:121:LEU:N	2.30	0.46
3:FC:24:ARG:HG3	3:FC:36:SER:HB3	1.98	0.46
3:FC:79:SER:HA	3:LJ:75:THR:O	2.16	0.46
3:FC:96:PHE:CD1	3:FC:105:ARG:HG2	2.51	0.46
3:GD:116:LEU:C	3:GD:116:LEU:HD23	2.36	0.46
3:GI:22:ASN:OD1	3:GI:23:PRO:HD2	2.15	0.46
3:HN:21:LEU:HD21	3:HN:48:VAL:HG21	1.96	0.46
3:IE:3:LEU:HD13	3:JL:132:TYR:CA	2.46	0.46
3:IH:32:VAL:HG12	3:IH:51:SER:CB	2.46	0.46
3:IH:109:ARG:CZ	3:NG:122:ILE:CD1	2.94	0.46
3:IJ:62:TYR:HD1	3:NE:128:LEU:CG	2.29	0.46
3:IJ:109:ARG:HD3	3:NE:125:ILE:HG21	1.98	0.46
3:IK:102:ASP:OD1	3:IK:103:GLU:N	2.49	0.46
3:JA:23:PRO:C	3:JA:24:ARG:HD2	2.36	0.46
3:JA:41:VAL:N	3:JA:42:PRO:CD	2.79	0.46
3:JB:119:PRO:O	3:JB:122:ILE:HB	2.15	0.46
3:JD:14:ASP:HB2	3:JD:16:LYS:HZ1	1.81	0.46
3:JG:122:ILE:HA	3:LD:109:ARG:CZ	2.46	0.46
3:JH:99:TYR:HD1	3:JI:81:ASP:OD2	1.98	0.46
3:KF:41:VAL:O	3:KF:45:GLU:OE2	2.34	0.46
3:LE:60:LYS:HE2	3:LE:98:GLN:HB3	1.97	0.46
3:LG:106:ALA:CB	3:MG:13:LYS:HZ2	2.27	0.46
3:ME:100:SER:HA	3:NH:86:ARG:CZ	2.46	0.46
3:NJ:97:THR:OG1	3:NJ:98:GLN:N	2.48	0.46
1:A:1705:U:C4	1:A:1706:G:O6	2.69	0.46
1:A:2603:A:H3'	1:A:2604:G:C8	2.51	0.46
1:A:2896:G:H3'	1:A:2897:G:H8	1.80	0.46
1:A:2922:A:H3'	1:A:2923:G:O4'	2.16	0.46
1:A:2928:U:H5"	1:A:2929:C:OP2	2.16	0.46
1:A:3002:G:O6	1:A:3389:A:C5	2.68	0.46
1:A:3034:G:OP1	3:BB:59:ARG:NH1	2.49	0.46
1:A:3264:C:H2'	1:A:3265:C:C6	2.50	0.46
1:A:3470:A:N3	1:A:3514:U:O4	2.49	0.46
1:A:3492:A:H62	3:MF:89:TYR:HD1	1.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3599:A:H2'	1:A:3600:G:H8	1.81	0.46
1:A:3605:U:H3	1:A:3648:G:H1	1.64	0.46
1:A:3934:G:C2'	1:A:3935:G:O5'	2.64	0.46
1:A:3993:A:H61	1:A:3999:C:N4	2.13	0.46
1:A:3994:G:H2'	1:A:3996:A:OP2	2.16	0.46
2:M:6:GLY:C	2:M:7:LEU:HD22	2.35	0.46
3:B:8:LEU:HD22	3:D:111:GLU:OE2	2.16	0.46
3:BA:106:ALA:HB3	3:MK:13:LYS:CD	2.45	0.46
3:BD:56:SER:O	3:BD:59:ARG:O	2.34	0.46
3:BG:96:PHE:CE2	3:BG:105:ARG:HG2	2.51	0.46
3:BG:130:PRO:O	3:IA:1:ALA:HB3	2.15	0.46
3:BH:11:ILE:CD1	3:IL:110:THR:OG1	2.64	0.46
3:BH:86:ARG:CZ	3:IL:100:SER:HA	2.45	0.46
3:BJ:96:PHE:HE1	3:BN:125:ILE:CD1	2.28	0.46
3:BJ:110:THR:OG1	3:BN:11:ILE:CD1	2.61	0.46
3:BN:119:PRO:O	3:BN:122:ILE:HB	2.16	0.46
3:CB:20:VAL:C	3:CB:21:LEU:HD22	2.36	0.46
3:CF:11:ILE:HD11	3:GM:111:GLU:HA	1.97	0.46
3:CL:2:LYS:HD2	3:HH:132:TYR:O	2.15	0.46
3:CL:105:ARG:CD	3:HH:128:LEU:HD11	2.46	0.46
3:DE:55:PRO:HG3	3:DE:62:TYR:CE1	2.51	0.46
3:DE:111:GLU:N	3:EL:11:ILE:HD11	2.31	0.46
3:DH:118:SER:O	3:DH:122:ILE:HG12	2.16	0.46
3:DL:34:SER:O	3:DL:35:LEU:HD22	2.15	0.46
3:DM:99:TYR:HA	3:DN:41:VAL:HG13	1.97	0.46
3:ED:131:ALA:HB1	3:EH:3:LEU:HD21	1.97	0.46
3:EG:61:ASN:OD1	3:EG:61:ASN:C	2.54	0.46
3:EG:111:GLU:O	3:EG:115:LEU:HG	2.16	0.46
3:EK:87:GLN:HB2	3:EK:89:TYR:CE1	2.50	0.46
3:EM:65:GLN:NE2	3:EM:93:THR:HG22	2.31	0.46
3:EM:127:GLN:N	3:EM:127:GLN:OE1	2.49	0.46
3:EN:87:GLN:HB3	3:EN:89:TYR:CE1	2.51	0.46
3:FG:11:ILE:HG22	3:FG:17:GLN:C	2.36	0.46
3:FI:55:PRO:HD3	3:FI:62:TYR:CD1	2.51	0.46
3:FJ:99:TYR:HB2	3:HF:86:ARG:HH21	1.81	0.46
3:FJ:106:ALA:HA	3:FJ:109:ARG:CZ	2.46	0.46
3:FL:14:ASP:OD2	3:FL:16:LYS:NZ	2.42	0.46
3:FL:99:TYR:O	3:HD:86:ARG:NH2	2.48	0.46
3:GC:67:LYS:HD2	3:GC:68:ILE:N	2.31	0.46
3:GD:34:SER:C	3:GD:35:LEU:HD22	2.36	0.46
3:GE:48:VAL:HG13	3:GE:68:ILE:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GG:101:THR:O	3:GG:105:ARG:HG3	2.16	0.46
3:GH:97:THR:HG21	3:KB:86:ARG:HG3	1.98	0.46
3:GI:125:ILE:HG23	3:GI:126:ASP:N	2.31	0.46
3:GM:55:PRO:HD3	3:GM:62:TYR:CE1	2.50	0.46
3:GN:61:ASN:OD1	3:GN:96:PHE:O	2.33	0.46
3:HD:55:PRO:HA	3:HD:60:LYS:O	2.16	0.46
3:HH:41:VAL:O	3:HH:44:LEU:HG	2.16	0.46
3:HK:55:PRO:HB3	3:HK:60:LYS:O	2.16	0.46
3:IB:103:GLU:HA	3:IK:13:LYS:NZ	2.31	0.46
3:IH:3:LEU:HD12	3:IH:35:LEU:HD21	1.97	0.46
3:IH:72:THR:HB	3:IH:86:ARG:CB	2.46	0.46
3:II:101:THR:OG1	3:II:104:GLU:CD	2.54	0.46
3:IL:35:LEU:HB2	3:IL:48:VAL:CG1	2.45	0.46
3:JB:91:ASP:OD1	3:JB:91:ASP:O	2.34	0.46
3:JM:21:LEU:HD13	3:JM:36:SER:C	2.36	0.46
3:KA:87:GLN:N	3:KA:87:GLN:OE1	2.49	0.46
3:KH:8:LEU:N	3:KH:8:LEU:HD22	2.31	0.46
3:KH:79:SER:OG	3:KH:80:CYS:N	2.48	0.46
3:KJ:76:ALA:O	3:KJ:79:SER:OG	2.30	0.46
3:LA:2:LYS:HA	3:LA:2:LYS:HE3	1.98	0.46
3:LA:10:ASN:OD1	3:LA:10:ASN:C	2.54	0.46
3:LA:72:THR:CB	3:LA:86:ARG:HB3	2.45	0.46
3:LC:30:ASN:OD1	3:LC:30:ASN:N	2.47	0.46
3:LE:126:ASP:HB2	3:LE:127:GLN:OE1	2.15	0.46
3:LJ:119:PRO:HA	3:LJ:122:ILE:HB	1.97	0.46
3:MC:110:THR:HB	3:NJ:11:ILE:HD12	1.98	0.46
3:MG:11:ILE:CG2	3:MG:17:GLN:HG2	2.45	0.46
3:MK:52:VAL:O	3:MK:52:VAL:HG13	2.14	0.46
3:NA:101:THR:CG2	3:NA:104:GLU:OE1	2.64	0.46
3:NB:41:VAL:HG13	3:NB:44:LEU:HD11	1.97	0.46
3:NG:121:LEU:O	3:NG:125:ILE:HG22	2.16	0.46
3:NI:35:LEU:HD12	3:NI:35:LEU:N	2.30	0.46
1:A:735:G:H2'	1:A:736:C:C6	2.51	0.46
1:A:1018:U:H2'	1:A:1019:U:C6	2.51	0.46
1:A:1226:A:O2'	1:A:1227:U:P	2.73	0.46
1:A:1366:C:P	3:CD:63:LYS:NZ	2.88	0.46
1:A:1367:U:C4	1:A:1368:U:H1'	2.51	0.46
1:A:1473:G:H2'	1:A:1474:C:H6	1.81	0.46
1:A:1508:G:H2'	1:A:1509:C:H5	1.81	0.46
1:A:1626:U:H3'	1:A:1627:U:H5"	1.98	0.46
1:A:1639:A:H2'	1:A:1640:G:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1839:A:C4'	3:GJ:57:ARG:HH12	2.29	0.46
1:A:1969:G:H2'	1:A:1970:C:O4'	2.16	0.46
1:A:2324:U:O4'	1:A:4076:C:C5	2.69	0.46
1:A:2570:C:H2'	1:A:2571:G:O4'	2.16	0.46
1:A:2655:G:C2	1:A:2656:A:N7	2.83	0.46
1:A:2707:U:C5	3:DD:89:TYR:HE1	2.34	0.46
1:A:2708:C:H4'	3:DD:67:LYS:HZ2	1.81	0.46
1:A:2835:A:C4'	1:A:2836:A:OP2	2.64	0.46
1:A:3082:U:O2	1:A:3083:G:O6	2.33	0.46
1:A:3395:C:C4	1:A:3396:U:C4	3.04	0.46
1:A:3747:G:C2	1:A:3748:G:C4	3.03	0.46
1:A:3771:G:H2'	1:A:3772:G:O5'	2.15	0.46
1:A:3992:G:O3'	3:KN:60:LYS:HE2	2.16	0.46
1:A:4020:A:H2'	1:A:4021:C:O4'	2.15	0.46
1:A:4079:G:H2'	1:A:4080:G:C8	2.51	0.46
2:M:158:LYS:CE	2:M:406:VAL:HG22	2.45	0.46
2:M:262:LYS:O	2:M:360:LYS:N	2.40	0.46
3:BA:132:TYR:O	3:MK:2:LYS:CE	2.64	0.46
3:BD:41:VAL:N	3:BD:42:PRO:CD	2.79	0.46
3:BE:6:VAL:HG12	3:BE:8:LEU:CD2	2.46	0.46
3:BE:60:LYS:O	3:BE:61:ASN:ND2	2.49	0.46
3:BE:92:VAL:HG22	3:CE:92:VAL:HG22	1.97	0.46
3:BE:116:LEU:HD23	3:CE:113:ALA:HB2	1.98	0.46
3:BG:13:LYS:NZ	3:IA:103:GLU:OE1	2.49	0.46
3:BH:128:LEU:HD11	3:IL:105:ARG:CD	2.45	0.46
3:CG:101:THR:O	3:CG:105:ARG:HG3	2.16	0.46
3:CG:115:LEU:O	3:CG:121:LEU:HD12	2.15	0.46
3:CH:72:THR:HB	3:CH:86:ARG:HB2	1.98	0.46
3:CH:119:PRO:O	3:CH:122:ILE:HG12	2.16	0.46
3:CI:84:VAL:O	3:CI:84:VAL:HG13	2.16	0.46
3:CK:68:ILE:HD11	3:NC:111:GLU:HG3	1.98	0.46
3:CK:130:PRO:HA	3:NC:52:VAL:HG21	1.98	0.46
3:DG:95:SER:O	3:DG:96:PHE:CD1	2.69	0.46
3:DG:109:ARG:NH1	3:EJ:122:ILE:O	2.48	0.46
3:DJ:87:GLN:HB2	3:DJ:89:TYR:CE1	2.50	0.46
3:DN:103:GLU:HA	3:ML:13:LYS:HZ2	1.81	0.46
3:EE:21:LEU:HD11	3:EE:48:VAL:HG21	1.97	0.46
3:EG:11:ILE:HG23	3:EG:17:GLN:HB2	1.97	0.46
3:EM:119:PRO:O	3:EM:122:ILE:HG12	2.15	0.46
3:EM:131:ALA:O	3:EM:132:TYR:HD1	1.98	0.46
3:EN:23:PRO:HA	3:EN:35:LEU:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EN:97:THR:N	3:EN:100:SER:OG	2.49	0.46
3:FE:94:PHE:HB3	3:FE:96:PHE:CZ	2.51	0.46
3:FE:100:SER:N	3:KI:86:ARG:NH2	2.63	0.46
3:FF:70:ASN:ND2	3:LF:108:VAL:CG1	2.78	0.46
3:FH:115:LEU:CG	3:FK:8:LEU:HD11	2.45	0.46
3:FN:121:LEU:HA	3:FN:124:ALA:HB3	1.97	0.46
3:GD:112:LEU:CD2	3:KF:116:LEU:HD11	2.46	0.46
3:GI:54:GLN:HB3	3:GI:55:PRO:CD	2.45	0.46
3:GJ:14:ASP:OD1	3:GJ:16:LYS:N	2.47	0.46
3:GJ:105:ARG:NE	3:GN:126:ASP:O	2.44	0.46
3:GK:49:THR:OG1	3:GK:67:LYS:HB2	2.16	0.46
3:GL:68:ILE:HD11	3:HG:111:GLU:CD	2.36	0.46
3:GN:47:ARG:HB2	3:GN:69:GLN:HE21	1.81	0.46
3:HB:26:VAL:HG23	3:HB:32:VAL:C	2.36	0.46
3:HB:119:PRO:HA	3:HB:122:ILE:HG22	1.97	0.46
3:HH:11:ILE:HG21	3:HH:19:LEU:HD13	1.98	0.46
3:HI:21:LEU:HD11	3:HI:48:VAL:HG21	1.97	0.46
3:HI:103:GLU:HA	3:II:13:LYS:CE	2.45	0.46
3:IA:28:PRO:HB3	3:IK:132:TYR:CE1	2.51	0.46
3:IB:52:VAL:HG12	3:IK:130:PRO:HA	1.98	0.46
3:IE:109:ARG:CZ	3:JL:122:ILE:HD13	2.45	0.46
3:IG:11:ILE:CG2	3:IG:17:GLN:HB2	2.46	0.46
3:IM:39:GLY:HA3	3:IM:45:GLU:OE1	2.15	0.46
3:JA:106:ALA:C	3:JA:109:ARG:HB3	2.35	0.46
3:JB:18:THR:O	3:JB:19:LEU:HD22	2.15	0.46
3:JC:55:PRO:HA	3:JC:60:LYS:O	2.16	0.46
3:JF:13:LYS:HZ1	3:KA:103:GLU:CB	2.29	0.46
3:JF:13:LYS:HZ2	3:KA:103:GLU:HA	1.81	0.46
3:JI:109:ARG:HD3	3:LB:125:ILE:HG21	1.98	0.46
3:JL:27:ASN:OD1	3:JL:30:ASN:N	2.47	0.46
3:JM:99:TYR:OH	3:JN:84:VAL:N	2.41	0.46
3:KB:7:THR:O	3:KB:7:THR:OG1	2.34	0.46
3:KG:34:SER:O	3:KG:35:LEU:HD12	2.16	0.46
3:KI:95:SER:O	3:KI:96:PHE:HD1	1.98	0.46
3:KJ:109:ARG:HB2	3:LE:125:ILE:HD11	1.98	0.46
3:KL:6:VAL:HG12	3:KL:8:LEU:CD1	2.46	0.46
3:KN:27:ASN:O	3:KN:31:GLY:N	2.47	0.46
3:LB:24:ARG:NH1	3:MD:129:ASN:OD1	2.48	0.46
3:LK:7:THR:O	3:LK:7:THR:HG23	2.16	0.46
3:LL:109:ARG:HG2	3:MB:116:LEU:CD1	2.46	0.46
3:LL:109:ARG:HG2	3:MB:116:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MC:55:PRO:HG3	3:MC:62:TYR:CE1	2.51	0.46
3:MD:24:ARG:HB2	3:MD:34:SER:HB3	1.98	0.46
3:MI:59:ARG:HG2	3:MI:60:LYS:H	1.80	0.46
3:MJ:11:ILE:CG2	3:MJ:17:GLN:HB2	2.46	0.46
3:NE:63:LYS:NZ	3:NE:65:GLN:OE1	2.49	0.46
3:NH:41:VAL:O	3:NH:44:LEU:HG	2.16	0.46
1:A:534:A:O4'	3:CI:89:TYR:CZ	2.69	0.46
1:A:537:A:H2'	1:A:538:U:C6	2.51	0.46
1:A:964:G:O6	1:A:1047:U:C4	2.69	0.46
1:A:976:A:N6	1:A:1038:G:C6	2.84	0.46
1:A:1421:G:C5	1:A:1422:G:C6	3.04	0.46
1:A:1423:U:O2'	1:A:2603:A:C6	2.66	0.46
1:A:1450:U:C4	1:A:1458:G:N1	2.84	0.46
1:A:1455:C:OP2	1:A:1456:A:N1	2.49	0.46
1:A:1499:G:C5	1:A:1500:G:N7	2.84	0.46
1:A:2266:U:H2'	1:A:2266:U:O2	2.16	0.46
1:A:2292:A:HO2'	1:A:2293:A:C1'	2.24	0.46
1:A:2383:U:C2	1:A:2383:U:OP1	2.69	0.46
1:A:2438:C:H4'	1:A:2439:G:O5'	2.14	0.46
1:A:2539:C:C2	1:A:2572:A:N6	2.84	0.46
1:A:2836:A:C4	1:A:2857:C:N4	2.83	0.46
1:A:3118:U:C2	1:A:3119:A:C8	3.03	0.46
1:A:3438:U:C2	1:A:3439:U:C5	3.04	0.46
1:A:3467:G:C2	1:A:3468:G:N7	2.84	0.46
1:A:3540:U:OP2	3:GD:57:ARG:CG	2.64	0.46
1:A:3580:U:C5'	1:A:3581:U:OP2	2.63	0.46
1:A:3597:A:N6	1:A:3654:A:H61	2.13	0.46
1:A:4135:C:O5'	3:KE:63:LYS:HE2	2.15	0.46
1:A:4156:A:C4	1:A:4162:U:N3	2.84	0.46
2:M:218:ARG:O	2:M:222:LEU:HD13	2.15	0.46
2:M:232:GLN:HE21	2:M:337:LEU:HD21	1.80	0.46
3:B:92:VAL:HG22	3:D:92:VAL:HG13	1.98	0.46
3:BA:15:GLY:O	3:BA:16:LYS:HE2	2.16	0.46
3:BB:109:ARG:NE	3:MA:122:ILE:HG22	2.25	0.46
3:BC:8:LEU:HD21	3:ND:115:LEU:CD2	2.46	0.46
3:BC:117:ALA:O	3:BC:122:ILE:HD11	2.15	0.46
3:BM:30:ASN:OD1	3:BM:30:ASN:N	2.48	0.46
3:BM:132:TYR:O	3:DJ:2:LYS:HD2	2.15	0.46
3:CB:13:LYS:HZ1	3:HC:103:GLU:HA	1.76	0.46
3:CB:48:VAL:HG13	3:CB:68:ILE:HD11	1.97	0.46
3:CB:93:THR:O	3:HC:91:ASP:OD2	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:122:ILE:HA	3:DF:109:ARG:NH2	2.31	0.46
3:CD:49:THR:HB	3:CD:67:LYS:HB2	1.98	0.46
3:CG:24:ARG:HB2	3:CG:34:SER:OG	2.16	0.46
3:CH:92:VAL:CG2	3:HL:112:LEU:HD11	2.45	0.46
3:CI:101:THR:HG1	3:CI:104:GLU:CD	2.14	0.46
3:CL:22:ASN:O	3:CL:35:LEU:HD23	2.16	0.46
3:DA:26:VAL:HG11	3:MM:132:TYR:OH	2.14	0.46
3:DC:111:GLU:N	3:EN:11:ILE:CD1	2.79	0.46
3:DF:87:GLN:N	3:DF:87:GLN:OE1	2.49	0.46
3:DJ:91:ASP:OD1	3:DJ:91:ASP:O	2.34	0.46
3:DK:102:ASP:HA	3:DK:105:ARG:HE	1.81	0.46
3:DM:105:ARG:NE	3:EM:128:LEU:HD11	2.31	0.46
3:EA:94:PHE:HD2	3:LM:125:ILE:HD12	1.75	0.46
3:ED:109:ARG:O	3:EH:116:LEU:HD11	2.16	0.46
3:EE:79:SER:O	3:EH:74:CYS:HB3	2.16	0.46
3:EH:18:THR:O	3:EH:19:LEU:HD22	2.15	0.46
3:EH:63:LYS:HD2	3:EH:93:THR:HG23	1.98	0.46
3:EI:131:ALA:HB1	3:GA:3:LEU:CD2	2.38	0.46
3:FF:92:VAL:HG22	3:LF:92:VAL:CG2	2.40	0.46
3:FG:116:LEU:HD22	3:KG:109:ARG:HG3	1.97	0.46
3:FH:107:PHE:CZ	3:FK:70:ASN:ND2	2.84	0.46
3:FI:3:LEU:HB3	3:FI:23:PRO:HB3	1.97	0.46
3:FJ:18:THR:O	3:FJ:19:LEU:HD22	2.15	0.46
3:GA:101:THR:CG2	3:GA:104:GLU:OE1	2.64	0.46
3:GD:2:LYS:O	3:KF:120:LEU:HD11	2.17	0.46
3:GD:125:ILE:HG21	3:KF:64:VAL:HG11	1.96	0.46
3:GF:115:LEU:HG	3:GF:121:LEU:HD11	1.97	0.46
3:GH:128:LEU:HD11	3:KB:105:ARG:CD	2.46	0.46
3:HA:7:THR:O	3:HA:7:THR:HG23	2.15	0.46
3:HA:24:ARG:HB2	3:HA:34:SER:OG	2.16	0.46
3:HB:27:ASN:ND2	3:HB:30:ASN:OD1	2.49	0.46
3:HB:122:ILE:HG13	3:HB:126:ASP:OD2	2.16	0.46
3:HH:98:GLN:CD	3:HI:43:ALA:HB2	2.36	0.46
3:HI:101:THR:HB	3:HI:103:GLU:OE1	2.16	0.46
3:HJ:119:PRO:HA	3:HJ:122:ILE:HB	1.98	0.46
3:HK:11:ILE:CG2	3:HK:17:GLN:HB2	2.45	0.46
3:IF:55:PRO:HD3	3:IF:62:TYR:HE1	1.81	0.46
3:IG:11:ILE:HD11	3:JJ:111:GLU:CA	2.46	0.46
3:IG:117:ALA:HA	3:JJ:109:ARG:HH22	1.81	0.46
3:II:87:GLN:O	3:II:87:GLN:HG3	2.15	0.46
3:IJ:14:ASP:CG	3:IJ:16:LYS:HG3	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IL:41:VAL:O	3:IL:44:LEU:N	2.40	0.46
3:IL:53:SER:OG	3:IL:59:ARG:CD	2.64	0.46
3:IN:37:GLN:NE2	3:IN:38:ALA:O	2.49	0.46
3:JC:127:GLN:N	3:JC:127:GLN:OE1	2.49	0.46
3:JE:101:THR:HG22	3:JF:41:VAL:HG22	1.97	0.46
3:JF:111:GLU:OE2	3:JF:115:LEU:HD11	2.15	0.46
3:JI:123:ASP:OD1	3:JI:129:ASN:ND2	2.36	0.46
3:KC:37:GLN:CB	3:KC:45:GLU:OE2	2.64	0.46
3:KC:103:GLU:HA	3:LC:13:LYS:NZ	2.31	0.46
3:KF:79:SER:O	3:KF:80:CYS:CB	2.64	0.46
3:KF:95:SER:O	3:KF:96:PHE:CD2	2.69	0.46
3:KH:24:ARG:C	3:LE:129:ASN:OD1	2.54	0.46
3:KM:128:LEU:HD23	3:MF:105:ARG:NH1	2.30	0.46
3:LD:37:GLN:O	3:LD:45:GLU:OE2	2.33	0.46
3:LL:25:GLY:CA	3:MI:129:ASN:OD1	2.64	0.46
3:LN:132:TYR:CA	3:MI:3:LEU:HD13	2.46	0.46
3:MA:99:TYR:OH	3:MB:84:VAL:HG12	2.15	0.46
3:NC:8:LEU:HD12	3:NC:19:LEU:HD23	1.97	0.46
3:NF:14:ASP:OD1	3:NF:14:ASP:N	2.49	0.46
3:NH:115:LEU:C	3:NH:121:LEU:HD12	2.37	0.46
1:A:956:A:H5”	1:A:957:G:H5’	1.97	0.45
1:A:1145:G:H2’	1:A:1146:U:C6	2.50	0.45
1:A:1167:U:O2’	1:A:1168:A:P	2.73	0.45
1:A:1707:C:H2’	1:A:1708:U:O4’	2.16	0.45
1:A:1833:A:H2	1:A:1839:A:C2	2.34	0.45
1:A:2543:U:C2	1:A:2566:A:P	3.09	0.45
1:A:2639:C:P	3:EG:61:ASN:ND2	2.89	0.45
1:A:2708:C:H4’	3:DD:67:LYS:CE	2.46	0.45
1:A:3040:U:H5”	3:BB:89:TYR:CE2	2.51	0.45
1:A:3303:G:HO2’	1:A:3304:A:C4’	2.19	0.45
1:A:3926:G:H2’	1:A:3927:C:O4’	2.16	0.45
2:M:337:LEU:O	2:M:338:TYR:HD2	1.98	0.45
3:BH:43:ALA:C	3:BH:44:LEU:HD22	2.36	0.45
3:BH:44:LEU:HD11	3:BH:73:ALA:HA	1.97	0.45
3:BK:127:GLN:O	3:HL:24:ARG:NH2	2.34	0.45
3:BN:14:ASP:OD1	3:BN:15:GLY:N	2.49	0.45
3:CA:54:GLN:HB3	3:CA:55:PRO:CD	2.47	0.45
3:CA:109:ARG:HH12	3:DH:122:ILE:HA	1.81	0.45
3:CB:125:ILE:CD1	3:HC:109:ARG:HB2	2.46	0.45
3:CC:68:ILE:HB	3:CC:90:ALA:HB3	1.97	0.45
3:CI:49:THR:OG1	3:CI:67:LYS:HB2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:60:LYS:C	3:CJ:61:ASN:OD1	2.55	0.45
3:CK:116:LEU:HD11	3:NC:94:PHE:HZ	1.81	0.45
3:CN:8:LEU:N	3:CN:8:LEU:HD22	2.30	0.45
3:DA:43:ALA:C	3:DA:44:LEU:HD12	2.35	0.45
3:DA:106:ALA:HB2	3:MM:126:ASP:CG	2.37	0.45
3:DB:52:VAL:HG23	3:DK:130:PRO:HG3	1.99	0.45
3:DD:26:VAL:HG23	3:DD:32:VAL:O	2.16	0.45
3:DD:106:ALA:O	3:DD:109:ARG:HG2	2.16	0.45
3:DG:3:LEU:CD2	3:EJ:131:ALA:HB1	2.46	0.45
3:DI:27:ASN:O	3:DI:31:GLY:N	2.46	0.45
3:DL:20:VAL:C	3:DL:21:LEU:HD22	2.37	0.45
3:DN:8:LEU:HD23	3:DN:8:LEU:HA	1.86	0.45
3:EA:96:PHE:CE2	3:EA:105:ARG:CG	2.99	0.45
3:EB:79:SER:HA	3:LM:75:THR:O	2.15	0.45
3:EC:119:PRO:HA	3:EC:122:ILE:HB	1.98	0.45
3:ED:26:VAL:HG13	3:ED:32:VAL:C	2.36	0.45
3:ED:109:ARG:HG2	3:EH:116:LEU:HD21	1.97	0.45
3:ED:120:LEU:O	3:ED:123:ASP:OD1	2.33	0.45
3:EE:37:GLN:CG	3:EE:46:LYS:HB2	2.47	0.45
3:EG:68:ILE:HD11	3:GC:112:LEU:HD13	1.98	0.45
3:EG:92:VAL:HG21	3:GC:112:LEU:HD21	1.98	0.45
3:EJ:60:LYS:HB2	3:EJ:61:ASN:CB	2.47	0.45
3:EK:11:ILE:CG2	3:EK:17:GLN:HB2	2.45	0.45
3:EL:11:ILE:CG2	3:EL:17:GLN:HB2	2.45	0.45
3:FB:34:SER:OG	3:FB:49:THR:HG22	2.16	0.45
3:FK:24:ARG:NH2	3:HF:129:ASN:HA	2.32	0.45
3:FK:121:LEU:O	3:FK:125:ILE:HG22	2.16	0.45
3:FL:101:THR:HG22	3:FL:104:GLU:OE1	2.17	0.45
3:GG:125:ILE:HD11	3:JE:64:VAL:HG11	1.98	0.45
3:GH:44:LEU:HD21	3:GH:82:PRO:HB2	1.99	0.45
3:GK:79:SER:O	3:GK:80:CYS:HB3	2.16	0.45
3:GL:3:LEU:HD23	3:HG:132:TYR:CA	2.46	0.45
3:GL:11:ILE:HD12	3:HG:110:THR:CB	2.46	0.45
3:GN:50:VAL:HG22	3:GN:51:SER:N	2.30	0.45
3:HH:102:ASP:N	3:HH:102:ASP:OD1	2.50	0.45
3:HL:41:VAL:HG13	3:HL:44:LEU:HB3	1.97	0.45
3:HN:105:ARG:NH2	3:ID:126:ASP:O	2.41	0.45
3:HN:130:PRO:HG2	3:IE:24:ARG:HA	1.98	0.45
3:IA:97:THR:N	3:IA:100:SER:OG	2.49	0.45
3:IB:86:ARG:NH2	3:IK:100:SER:HA	2.31	0.45
3:IE:8:LEU:HD12	3:IE:8:LEU:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:52:VAL:O	3:IF:52:VAL:CG2	2.64	0.45
3:IJ:11:ILE:HD12	3:NE:110:THR:OG1	2.16	0.45
3:JA:52:VAL:O	3:JA:54:GLN:OE1	2.33	0.45
3:JA:59:ARG:NE	3:JA:63:LYS:NZ	2.64	0.45
3:JA:119:PRO:CA	3:JA:122:ILE:HG12	2.46	0.45
3:JD:56:SER:O	3:JD:59:ARG:O	2.35	0.45
3:JF:121:LEU:O	3:JF:125:ILE:HG22	2.16	0.45
3:JG:25:GLY:N	3:LB:129:ASN:OD1	2.49	0.45
3:JJ:57:ARG:NE	3:JJ:57:ARG:HA	2.32	0.45
3:JK:75:THR:O	3:LA:79:SER:HA	2.16	0.45
3:JN:21:LEU:HD12	3:JN:21:LEU:N	2.31	0.45
3:KK:101:THR:N	3:KK:104:GLU:OE2	2.39	0.45
3:KM:122:ILE:CG1	3:MF:109:ARG:HH22	2.29	0.45
3:KM:130:PRO:HA	3:MF:52:VAL:HG22	1.98	0.45
3:LG:1:ALA:O	3:MG:131:ALA:HA	2.15	0.45
3:LL:109:ARG:NH1	3:MB:122:ILE:HA	2.31	0.45
3:LM:87:GLN:N	3:LM:87:GLN:OE1	2.49	0.45
3:MI:55:PRO:CB	3:MI:60:LYS:HG3	2.47	0.45
3:MN:96:PHE:CE1	3:MN:105:ARG:HG2	2.51	0.45
3:NH:6:VAL:HG12	3:NH:8:LEU:HD11	1.98	0.45
1:A:45:G:C6	1:A:473:A:C6	3.04	0.45
1:A:271:G:H2'	1:A:272:U:O4'	2.16	0.45
1:A:729:A:H2'	1:A:730:G:O4'	2.16	0.45
1:A:914:C:H2'	1:A:915:U:O4'	2.16	0.45
1:A:1130:C:O5'	1:A:1131:U:OP2	2.34	0.45
1:A:1369:U:H2'	1:A:1370:A:C4	2.51	0.45
1:A:1393:A:O5'	1:A:1394:A:H5"	2.15	0.45
1:A:1394:A:H3'	3:DF:58:ASN:HB2	1.96	0.45
1:A:1435:A:H2'	1:A:1436:C:O4'	2.15	0.45
1:A:1904:G:H2'	1:A:1905:C:O4'	2.17	0.45
1:A:2106:C:OP2	3:JD:58:ASN:ND2	2.48	0.45
1:A:2205:C:OP1	3:GL:59:ARG:NH1	2.50	0.45
1:A:2491:A:O3'	1:A:2585:G:N1	2.49	0.45
1:A:2557:A:H2'	1:A:2558:U:C6	2.52	0.45
1:A:2891:G:C4	1:A:2892:C:C5	3.04	0.45
1:A:2901:U:P	1:A:2902:U:OP1	2.75	0.45
1:A:3804:C:H2'	1:A:3805:G:C8	2.51	0.45
2:M:37:TRP:O	2:M:114:ASP:HB3	2.16	0.45
2:M:331:LEU:HD23	2:M:334:GLN:NE2	2.30	0.45
3:BA:52:VAL:HG23	3:BA:52:VAL:O	2.16	0.45
3:BC:19:LEU:HD12	3:BC:19:LEU:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:92:VAL:HG22	3:JB:92:VAL:HG13	1.98	0.45
3:BG:41:VAL:HA	3:BG:44:LEU:HD23	1.99	0.45
3:BJ:46:LYS:HE3	3:BJ:70:ASN:OD1	2.17	0.45
3:BJ:100:SER:HA	3:BN:86:ARG:CZ	2.46	0.45
3:BK:74:CYS:SG	3:HL:79:SER:O	2.74	0.45
3:BM:103:GLU:HG3	3:DJ:13:LYS:NZ	2.31	0.45
3:CB:37:GLN:OE1	3:CB:39:GLY:N	2.41	0.45
3:CB:55:PRO:CD	3:CB:62:TYR:CE1	2.97	0.45
3:CC:130:PRO:HA	3:DF:52:VAL:HG12	1.98	0.45
3:CF:23:PRO:HA	3:CF:35:LEU:HD13	1.98	0.45
3:CH:130:PRO:HD3	3:HM:24:ARG:HE	1.81	0.45
3:CI:18:THR:O	3:CI:19:LEU:HD22	2.16	0.45
3:CK:41:VAL:N	3:CK:42:PRO:CD	2.79	0.45
3:CL:55:PRO:HD3	3:CL:62:TYR:CE1	2.51	0.45
3:CM:110:THR:OG1	3:NA:11:ILE:HD12	2.16	0.45
3:DB:11:ILE:CG2	3:DB:17:GLN:HB2	2.44	0.45
3:DG:13:LYS:HD2	3:EJ:106:ALA:HB3	1.96	0.45
3:DH:37:GLN:C	3:DH:45:GLU:OE2	2.55	0.45
3:EB:74:CYS:HA	3:MK:80:CYS:HB3	1.97	0.45
3:EC:105:ARG:HH12	3:LK:128:LEU:HD12	1.77	0.45
3:EC:107:PHE:CE2	3:EC:111:GLU:OE2	2.69	0.45
3:ED:127:GLN:HB2	3:ED:129:ASN:ND2	2.32	0.45
3:EE:97:THR:C	3:EE:100:SER:HG	2.18	0.45
3:EF:120:LEU:HD21	3:FA:50:VAL:HG21	1.98	0.45
3:EI:109:ARG:CZ	3:GA:122:ILE:HA	2.46	0.45
3:EL:55:PRO:HB3	3:EL:60:LYS:HB3	1.97	0.45
3:EM:44:LEU:HD22	3:FA:98:GLN:O	2.15	0.45
3:FB:23:PRO:HA	3:FB:35:LEU:HD23	1.97	0.45
3:FC:74:CYS:SG	3:FC:85:THR:HB	2.57	0.45
3:FD:102:ASP:N	3:FD:102:ASP:OD1	2.50	0.45
3:FG:62:TYR:CE2	3:KG:128:LEU:HD13	2.51	0.45
3:FH:3:LEU:HD23	3:FH:3:LEU:H	1.81	0.45
3:FH:122:ILE:HA	3:FK:109:ARG:NH2	2.31	0.45
3:FL:101:THR:HG23	3:FL:104:GLU:OE1	2.15	0.45
3:FL:111:GLU:N	3:HD:11:ILE:HD11	2.30	0.45
3:FN:112:LEU:CD2	3:HB:68:ILE:CD1	2.94	0.45
3:GA:25:GLY:HA2	3:HB:132:TYR:HE2	1.81	0.45
3:GD:13:LYS:HE2	3:KF:103:GLU:HA	1.98	0.45
3:GH:24:ARG:NH2	3:GH:24:ARG:O	2.50	0.45
3:GH:58:ASN:O	3:GH:59:ARG:NH2	2.49	0.45
3:GI:62:TYR:CD1	3:JC:128:LEU:CD2	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GK:120:LEU:HD12	3:GK:120:LEU:N	2.30	0.45
3:GL:52:VAL:HG23	3:GL:52:VAL:O	2.16	0.45
3:GL:54:GLN:HB3	3:GL:55:PRO:CD	2.46	0.45
3:GM:32:VAL:HG22	3:GM:51:SER:HG	1.80	0.45
3:GN:119:PRO:HA	3:GN:122:ILE:HD12	1.99	0.45
3:HB:61:ASN:HA	3:HB:96:PHE:O	2.16	0.45
3:HE:11:ILE:CG2	3:HE:17:GLN:HB2	2.46	0.45
3:IC:84:VAL:CG2	3:IC:87:GLN:NE2	2.79	0.45
3:IE:4:GLU:HG3	3:IE:5:THR:N	2.31	0.45
3:IE:125:ILE:HD13	3:JL:64:VAL:HG11	1.98	0.45
3:IF:97:THR:O	3:IF:100:SER:OG	2.22	0.45
3:IF:99:TYR:OH	3:IG:84:VAL:HG12	2.17	0.45
3:IG:111:GLU:CA	3:JJ:11:ILE:HD11	2.45	0.45
3:II:6:VAL:HG12	3:II:8:LEU:HD22	1.98	0.45
3:II:20:VAL:HG13	3:II:20:VAL:O	2.17	0.45
3:JC:32:VAL:HG12	3:JC:51:SER:HB2	1.98	0.45
3:JD:3:LEU:HD21	3:JD:33:ALA:HB1	1.97	0.45
3:JD:115:LEU:HD21	3:JH:8:LEU:HD11	1.97	0.45
3:KA:103:GLU:OE1	3:KA:104:GLU:HG3	2.17	0.45
3:KA:118:SER:O	3:KA:122:ILE:HG13	2.17	0.45
3:KG:94:PHE:HB3	3:KG:96:PHE:CZ	2.51	0.45
3:KK:19:LEU:CD2	3:KK:21:LEU:HD21	2.38	0.45
3:KM:12:GLY:N	3:MF:110:THR:HG21	2.31	0.45
3:LA:79:SER:O	3:LA:80:CYS:CB	2.64	0.45
3:LE:101:THR:HG23	3:LE:103:GLU:HB2	1.98	0.45
3:LF:99:TYR:HE2	3:LG:83:SER:HA	1.82	0.45
3:LI:99:TYR:OH	3:LJ:83:SER:HA	2.15	0.45
3:LK:6:VAL:HG12	3:LK:8:LEU:CD2	2.46	0.45
3:LN:117:ALA:O	3:LN:122:ILE:HD11	2.16	0.45
3:MB:98:GLN:NE2	3:MC:43:ALA:HA	2.32	0.45
3:MJ:58:ASN:OD1	3:MJ:59:ARG:N	2.49	0.45
3:MK:79:SER:O	3:MK:80:CYS:HB3	2.16	0.45
3:MM:97:THR:N	3:MM:100:SER:OG	2.50	0.45
3:MN:14:ASP:OD1	3:MN:15:GLY:N	2.49	0.45
3:NA:32:VAL:HG12	3:NA:51:SER:HB2	1.98	0.45
3:NA:103:GLU:OE1	3:NA:104:GLU:N	2.49	0.45
3:NB:119:PRO:HA	3:NB:122:ILE:HG22	1.97	0.45
3:NC:96:PHE:CD2	3:NC:105:ARG:CD	2.99	0.45
3:NF:55:PRO:HD3	3:NF:62:TYR:CD2	2.52	0.45
3:NG:121:LEU:HA	3:NG:124:ALA:HB3	1.98	0.45
1:A:41:C:N4	1:A:523:C:OP1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:82:C:N4	1:A:161:A:C8	2.85	0.45
1:A:698:C:C2	1:A:735:G:C2	3.05	0.45
1:A:1069:C:P	3:ID:59:ARG:NH2	2.89	0.45
1:A:1463:U:H2'	1:A:1463:U:O2	2.15	0.45
1:A:1507:A:H3'	1:A:1508:G:H5"	1.98	0.45
1:A:1587:G:H2'	1:A:1588:A:C8	2.51	0.45
1:A:1600:C:C2	1:A:1601:U:C6	3.05	0.45
1:A:2244:U:O2	1:A:2248:G:C2	2.70	0.45
1:A:2293:A:O4'	3:GN:89:TYR:CZ	2.69	0.45
1:A:3336:U:C2'	1:A:3338:C:H41	2.28	0.45
1:A:3505:A:H2'	1:A:3506:A:C8	2.52	0.45
1:A:3620:A:C4	1:A:3622:U:OP2	2.68	0.45
1:A:3648:G:C5	1:A:3649:C:C5	3.04	0.45
1:A:3928:C:H2'	1:A:3929:U:C6	2.50	0.45
3:BA:52:VAL:CG2	3:MK:130:PRO:HA	2.46	0.45
3:BE:125:ILE:HG23	3:BE:126:ASP:N	2.31	0.45
3:BH:13:LYS:NZ	3:IL:103:GLU:HA	2.31	0.45
3:BH:51:SER:OG	3:BH:65:GLN:HB3	2.16	0.45
3:BJ:114:ALA:HB3	3:BN:8:LEU:HD11	1.97	0.45
3:BJ:127:GLN:HB2	3:BJ:129:ASN:ND2	2.31	0.45
3:CD:52:VAL:HG12	3:HA:130:PRO:HA	1.97	0.45
3:CE:123:ASP:OD1	3:CE:123:ASP:C	2.54	0.45
3:CH:118:SER:OG	3:CH:119:PRO:HD2	2.17	0.45
3:CJ:111:GLU:HG3	3:HJ:11:ILE:HD11	1.98	0.45
3:CK:105:ARG:CZ	3:NC:128:LEU:HD11	2.46	0.45
3:CL:13:LYS:HZ3	3:HH:103:GLU:HA	1.82	0.45
3:CM:64:VAL:HG11	3:NA:125:ILE:HD11	1.97	0.45
3:DC:105:ARG:O	3:DC:108:VAL:HG22	2.17	0.45
3:DI:56:SER:O	3:DI:59:ARG:O	2.34	0.45
3:DK:98:GLN:OE1	3:DK:99:TYR:CD1	2.69	0.45
3:EA:6:VAL:HG12	3:EA:8:LEU:HD21	1.98	0.45
3:EB:48:VAL:HG13	3:EB:68:ILE:HD13	1.98	0.45
3:EB:99:TYR:CD1	3:EC:81:ASP:OD2	2.70	0.45
3:EE:47:ARG:CZ	3:EE:47:ARG:HB3	2.47	0.45
3:EG:125:ILE:CG2	3:GC:105:ARG:NE	2.79	0.45
3:EL:111:GLU:O	3:EL:115:LEU:HD23	2.17	0.45
3:EM:34:SER:C	3:EM:35:LEU:HD22	2.37	0.45
3:FB:126:ASP:OD1	3:LJ:106:ALA:CA	2.64	0.45
3:FF:48:VAL:HG22	3:FF:68:ILE:CD1	2.44	0.45
3:FF:91:ASP:O	3:LF:92:VAL:HA	2.16	0.45
3:FJ:5:THR:O	3:FJ:5:THR:HG23	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GB:72:THR:HG21	3:GB:86:ARG:HH21	1.82	0.45
3:GF:3:LEU:HD23	3:KD:132:TYR:CA	2.47	0.45
3:GM:123:ASP:OD2	3:GM:129:ASN:HB2	2.17	0.45
3:HD:23:PRO:HA	3:HD:35:LEU:HG	1.97	0.45
3:HE:116:LEU:HD12	3:HE:116:LEU:O	2.16	0.45
3:HG:54:GLN:HB3	3:HG:55:PRO:CD	2.47	0.45
3:HM:127:GLN:C	3:HM:128:LEU:HD12	2.37	0.45
3:IE:67:LYS:HZ2	3:IE:91:ASP:HB2	1.81	0.45
3:IE:116:LEU:HD12	3:JL:116:LEU:HD12	1.98	0.45
3:IH:100:SER:HA	3:IH:104:GLU:OE2	2.17	0.45
3:II:41:VAL:N	3:II:42:PRO:CD	2.80	0.45
3:JA:85:THR:HG22	3:JA:85:THR:O	2.17	0.45
3:JG:25:GLY:CA	3:LB:130:PRO:HD2	2.45	0.45
3:JG:90:ALA:HB1	3:LD:94:PHE:CE2	2.52	0.45
3:JI:103:GLU:HA	3:LB:13:LYS:HZ2	1.81	0.45
3:JJ:13:LYS:HD2	3:JJ:13:LYS:H	1.81	0.45
3:KG:17:GLN:N	3:KG:17:GLN:OE1	2.49	0.45
3:KH:112:LEU:HD22	3:KL:116:LEU:CD2	2.46	0.45
3:KJ:20:VAL:C	3:KJ:21:LEU:HD22	2.37	0.45
3:KL:49:THR:OG1	3:KL:67:LYS:HB2	2.16	0.45
3:KL:109:ARG:HG3	3:KL:109:ARG:HH11	1.81	0.45
3:KM:53:SER:OG	3:KM:63:LYS:HB3	2.16	0.45
3:LL:112:LEU:HD11	3:MB:92:VAL:HG21	1.97	0.45
3:LN:37:GLN:O	3:LN:45:GLU:CD	2.54	0.45
3:MC:105:ARG:NH2	3:NJ:126:ASP:C	2.70	0.45
3:MI:84:VAL:O	3:MI:84:VAL:HG13	2.16	0.45
3:MJ:60:LYS:CB	3:MJ:61:ASN:HB3	2.46	0.45
1:A:98:A:H2'	1:A:98:A:N3	2.30	0.45
1:A:134:U:C6	3:MB:53:SER:HB2	2.51	0.45
1:A:387:G:H2'	1:A:388:A:O4'	2.17	0.45
1:A:401:A:H5"	3:DI:57:ARG:HD2	1.96	0.45
1:A:475:G:H2'	1:A:476:C:O4'	2.16	0.45
1:A:484:G:O2'	1:A:485:C:H5'	2.15	0.45
1:A:1495:U:O2	1:A:1498:C:C2	2.69	0.45
1:A:1945:A:O2'	1:A:1946:U:O4'	2.27	0.45
1:A:2327:U:O2'	3:HC:57:ARG:NH2	2.50	0.45
1:A:2435:C:N3	1:A:2791:G:O6	2.49	0.45
1:A:2661:G:C6	1:A:2662:C:C4	3.04	0.45
1:A:2680:U:H6	1:A:2680:U:OP2	1.99	0.45
1:A:3241:A:H2'	1:A:3242:G:C1'	2.47	0.45
1:A:3305:G:N1	1:A:3306:A:C6	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3439:U:C2	1:A:3440:A:C8	3.04	0.45
1:A:3780:C:H2'	1:A:3781:U:O4'	2.16	0.45
1:A:3932:U:O4	3:KG:89:TYR:HB3	2.17	0.45
1:A:3934:G:C2	1:A:3935:G:C5	3.04	0.45
1:A:4092:A:C6	1:A:4093:C:C4	3.05	0.45
2:M:210:LEU:HB2	2:M:214:PHE:CZ	2.51	0.45
3:BA:11:ILE:HD12	3:MK:110:THR:CB	2.46	0.45
3:BA:68:ILE:HD12	3:MK:111:GLU:CD	2.36	0.45
3:BC:110:THR:OG1	3:ND:11:ILE:HD12	2.16	0.45
3:BE:30:ASN:CG	3:BE:32:VAL:HG23	2.37	0.45
3:BJ:11:ILE:HD11	3:BN:111:GLU:N	2.31	0.45
3:BK:24:ARG:CZ	3:BN:130:PRO:HD3	2.46	0.45
3:BL:11:ILE:CG2	3:BL:17:GLN:HB2	2.46	0.45
3:CC:99:TYR:O	3:DF:86:ARG:NH2	2.49	0.45
3:CC:128:LEU:HD11	3:DF:105:ARG:NE	2.32	0.45
3:CD:3:LEU:CD2	3:HA:131:ALA:HB1	2.44	0.45
3:CF:62:TYR:HE2	3:CG:42:PRO:HB2	1.80	0.45
3:CI:26:VAL:HG13	3:HJ:132:TYR:OH	2.17	0.45
3:CM:86:ARG:CZ	3:NA:99:TYR:O	2.64	0.45
3:DB:13:LYS:NZ	3:DK:103:GLU:CA	2.79	0.45
3:DE:3:LEU:HD23	3:EL:132:TYR:N	2.31	0.45
3:DF:81:ASP:OD1	3:DH:99:TYR:CD2	2.69	0.45
3:DG:6:VAL:HG12	3:DG:8:LEU:HD22	1.98	0.45
3:DJ:109:ARG:HG2	3:DJ:110:THR:N	2.31	0.45
3:DK:101:THR:HG23	3:DK:104:GLU:H	1.80	0.45
3:DL:102:ASP:HB2	3:MN:126:ASP:OD1	2.17	0.45
3:EB:98:GLN:NE2	3:EC:43:ALA:HA	2.31	0.45
3:EB:101:THR:HG23	3:MJ:86:ARG:HH12	1.81	0.45
3:EG:41:VAL:O	3:EG:44:LEU:HG	2.17	0.45
3:EI:73:ALA:HB1	3:EI:83:SER:O	2.17	0.45
3:EJ:84:VAL:O	3:EJ:84:VAL:HG13	2.17	0.45
3:EM:23:PRO:CA	3:EM:35:LEU:HD13	2.46	0.45
3:EN:97:THR:O	3:EN:100:SER:OG	2.22	0.45
3:FD:130:PRO:HA	3:LH:52:VAL:HG21	1.98	0.45
3:FE:86:ARG:NH1	3:KI:99:TYR:O	2.50	0.45
3:FE:114:ALA:HB1	3:KI:8:LEU:HD22	1.97	0.45
3:FG:46:LYS:HE3	3:FG:70:ASN:HB3	1.98	0.45
3:FH:55:PRO:HG3	3:FH:62:TYR:CE2	2.52	0.45
3:FH:104:GLU:OE1	3:FH:107:PHE:CE1	2.68	0.45
3:FI:62:TYR:CE2	3:KE:128:LEU:HD11	2.50	0.45
3:FI:128:LEU:HD11	3:KE:105:ARG:NE	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FK:118:SER:O	3:FK:122:ILE:HG13	2.17	0.45
3:FN:13:LYS:NZ	3:HB:103:GLU:CA	2.79	0.45
3:FN:94:PHE:CD2	3:HB:90:ALA:HB2	2.50	0.45
3:FN:107:PHE:O	3:FN:111:GLU:HG3	2.16	0.45
3:GA:24:ARG:N	3:GA:34:SER:O	2.29	0.45
3:GE:28:PRO:HA	3:KD:132:TYR:OH	2.16	0.45
3:GE:92:VAL:HG22	3:HE:92:VAL:HG22	1.98	0.45
3:GH:18:THR:C	3:GH:19:LEU:HD23	2.37	0.45
3:GH:52:VAL:HG21	3:KB:130:PRO:HG3	1.99	0.45
3:GH:101:THR:O	3:GH:105:ARG:HG3	2.16	0.45
3:GK:72:THR:HB	3:GK:86:ARG:HB2	1.98	0.45
3:GL:121:LEU:O	3:GL:125:ILE:HG22	2.14	0.45
3:HF:52:VAL:O	3:HF:52:VAL:HG23	2.17	0.45
3:HG:6:VAL:HG12	3:HG:8:LEU:HD23	1.98	0.45
3:HH:11:ILE:HG23	3:HH:17:GLN:HB2	1.98	0.45
3:HL:47:ARG:CZ	3:HL:47:ARG:HB2	2.46	0.45
3:HN:132:TYR:HE1	3:ID:26:VAL:HG21	1.82	0.45
3:IM:23:PRO:HA	3:IM:35:LEU:HD23	1.98	0.45
3:JG:97:THR:O	3:JG:100:SER:OG	2.27	0.45
3:JI:21:LEU:HB3	3:JI:35:LEU:HB3	1.99	0.45
3:JI:54:GLN:HB3	3:JI:55:PRO:CD	2.46	0.45
3:JI:119:PRO:CA	3:JI:122:ILE:HD12	2.44	0.45
3:JK:128:LEU:HD11	3:KN:105:ARG:CD	2.46	0.45
3:JM:96:PHE:CE2	3:JM:105:ARG:HG3	2.52	0.45
3:KC:26:VAL:HG21	3:LC:132:TYR:OH	2.17	0.45
3:KH:68:ILE:CD1	3:KL:111:GLU:OE1	2.64	0.45
3:KJ:54:GLN:HB3	3:KJ:55:PRO:CD	2.46	0.45
3:KN:81:ASP:HB3	3:LB:99:TYR:CE1	2.51	0.45
3:LG:9:GLY:O	3:LG:11:ILE:HB	2.16	0.45
3:LG:21:LEU:HD11	3:LG:48:VAL:HG21	1.97	0.45
3:LG:75:THR:OG1	3:LG:82:PRO:HG3	2.17	0.45
3:LH:26:VAL:HG22	3:LH:33:ALA:HA	1.97	0.45
3:LH:110:THR:HG23	3:LH:111:GLU:N	2.31	0.45
3:LL:24:ARG:HG3	3:LL:25:GLY:N	2.32	0.45
3:LL:85:THR:HG23	3:LL:86:ARG:HG3	1.98	0.45
3:LL:98:GLN:NE2	3:LM:43:ALA:HA	2.32	0.45
3:LN:116:LEU:C	3:MI:109:ARG:NH2	2.69	0.45
3:MI:7:THR:C	3:MI:8:LEU:HD22	2.37	0.45
3:MM:23:PRO:HA	3:MM:35:LEU:HD23	1.99	0.45
3:NB:60:LYS:CB	3:NB:61:ASN:CB	2.94	0.45
1:A:112:A:H3'	1:A:113:A:C8	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:431:A:O5'	1:A:431:A:H8	2.00	0.45
1:A:836:A:H2'	1:A:836:A:N3	2.31	0.45
1:A:1129:U:H2'	1:A:1130:C:C6	2.51	0.45
1:A:1420:G:C2	1:A:1421:G:C5	3.04	0.45
1:A:2225:U:H3	1:A:2264:G:H22	1.65	0.45
1:A:2328:G:N2	1:A:2342:G:H22	2.14	0.45
1:A:2332:A:C2	1:A:2333:G:C4	3.05	0.45
1:A:2347:A:N3	1:A:2348:A:N7	2.64	0.45
1:A:2357:U:H3'	1:A:2358:A:H8	1.82	0.45
1:A:2622:G:C6	1:A:2623:U:C4	3.04	0.45
1:A:3599:A:N1	1:A:3654:A:C2	2.84	0.45
1:A:3627:U:C4	1:A:3628:U:C4	3.05	0.45
1:A:3698:G:OP2	3:LK:59:ARG:CZ	2.65	0.45
1:A:3768:G:H4'	1:A:3769:U:C5'	2.47	0.45
1:A:3808:G:O2'	3:KH:57:ARG:HA	2.17	0.45
1:A:3935:G:C6	1:A:3936:G:C5	3.04	0.45
1:A:3944:G:H4'	1:A:3945:G:OP2	2.17	0.45
3:BB:105:ARG:CD	3:MA:128:LEU:HD11	2.46	0.45
3:BE:109:ARG:HH22	3:CE:122:ILE:CD1	2.30	0.45
3:BF:73:ALA:HB1	3:BF:83:SER:O	2.16	0.45
3:BJ:8:LEU:CD1	3:BN:114:ALA:HB3	2.45	0.45
3:BJ:27:ASN:O	3:BJ:31:GLY:N	2.44	0.45
3:CB:81:ASP:CG	3:CD:99:TYR:CD1	2.90	0.45
3:CB:125:ILE:HG22	3:HC:64:VAL:HG11	1.98	0.45
3:CE:118:SER:O	3:CE:122:ILE:HG12	2.17	0.45
3:CF:103:GLU:HA	3:CF:103:GLU:OE2	2.17	0.45
3:CG:98:GLN:OE1	3:CG:99:TYR:CE1	2.70	0.45
3:CL:48:VAL:HG13	3:CL:68:ILE:CD1	2.46	0.45
3:CM:42:PRO:HD2	3:CM:43:ALA:N	2.30	0.45
3:CN:84:VAL:O	3:CN:84:VAL:HG13	2.16	0.45
3:CN:87:GLN:N	3:CN:87:GLN:OE1	2.49	0.45
3:DA:44:LEU:HD21	3:DA:82:PRO:HB2	1.98	0.45
3:DA:99:TYR:CZ	3:DB:81:ASP:OD2	2.70	0.45
3:DA:109:ARG:C	3:DA:109:ARG:HD2	2.36	0.45
3:DB:81:ASP:OD2	3:DB:81:ASP:C	2.54	0.45
3:DB:132:TYR:CE1	3:DJ:28:PRO:HB3	2.51	0.45
3:DH:26:VAL:HG12	3:DH:33:ALA:HB2	1.99	0.45
3:DK:67:LYS:HE3	3:DK:91:ASP:OD1	2.16	0.45
3:EA:96:PHE:CE2	3:EA:105:ARG:HD2	2.51	0.45
3:EB:105:ARG:O	3:EB:108:VAL:HG12	2.16	0.45
3:ED:62:TYR:CD2	3:EH:128:LEU:HD22	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EH:11:ILE:HD11	3:EH:19:LEU:CD2	2.45	0.45
3:EJ:62:TYR:OH	3:EK:42:PRO:CB	2.64	0.45
3:EL:123:ASP:OD2	3:EL:129:ASN:HB3	2.17	0.45
3:EM:55:PRO:HG3	3:EM:62:TYR:CE2	2.52	0.45
3:FA:103:GLU:OE2	3:FA:103:GLU:HA	2.16	0.45
3:FB:94:PHE:CE1	3:LJ:90:ALA:HB1	2.51	0.45
3:FF:1:ALA:O	3:LF:131:ALA:HA	2.17	0.45
3:FL:86:ARG:CZ	3:HD:100:SER:HA	2.46	0.45
3:FN:74:CYS:SG	3:HC:79:SER:O	2.74	0.45
3:GF:86:ARG:HG3	3:KD:97:THR:HG21	1.99	0.45
3:GF:102:ASP:C	3:KD:13:LYS:HZ1	2.20	0.45
3:GH:58:ASN:OD1	3:GH:59:ARG:HG2	2.17	0.45
3:GN:120:LEU:O	3:GN:123:ASP:OD1	2.35	0.45
3:HE:122:ILE:HG13	3:HE:123:ASP:N	2.31	0.45
3:HJ:52:VAL:CG2	3:HJ:64:VAL:HG22	2.45	0.45
3:HJ:71:PRO:HA	3:HJ:87:GLN:OE1	2.17	0.45
3:IA:8:LEU:N	3:IA:8:LEU:HD22	2.32	0.45
3:IA:28:PRO:HB3	3:IK:132:TYR:CZ	2.52	0.45
3:IA:79:SER:O	3:ID:74:CYS:SG	2.74	0.45
3:IC:55:PRO:HG3	3:IC:62:TYR:CE2	2.51	0.45
3:IJ:122:ILE:HD13	3:NE:109:ARG:HH22	1.81	0.45
3:JB:128:LEU:HD12	3:JB:128:LEU:N	2.32	0.45
3:JD:122:ILE:HB	3:JH:109:ARG:CZ	2.47	0.45
3:JE:97:THR:HG22	3:JE:100:SER:OG	2.16	0.45
3:JG:125:ILE:CD1	3:LD:94:PHE:CD1	2.97	0.45
3:JK:37:GLN:OE1	3:JK:45:GLU:OE1	2.35	0.45
3:JK:62:TYR:HE2	3:JL:42:PRO:CB	2.29	0.45
3:KC:109:ARG:HG3	3:LC:116:LEU:CD1	2.47	0.45
3:KD:29:THR:OG1	3:KD:30:ASN:N	2.49	0.45
3:KE:104:GLU:O	3:KE:108:VAL:HG23	2.16	0.45
3:KJ:69:GLN:OE1	3:KJ:89:TYR:CD2	2.70	0.45
3:KK:97:THR:HG23	3:MH:86:ARG:NH2	2.31	0.45
3:KN:101:THR:O	3:KN:104:GLU:HG2	2.17	0.45
3:LG:122:ILE:HA	3:MG:109:ARG:NH2	2.32	0.45
3:LG:125:ILE:O	3:MG:105:ARG:HD2	2.16	0.45
3:LL:64:VAL:HG11	3:MB:125:ILE:HG13	1.98	0.45
3:MB:121:LEU:O	3:MB:125:ILE:HD12	2.17	0.45
3:MD:72:THR:HG21	3:MD:86:ARG:NH2	2.31	0.45
3:MH:32:VAL:HG22	3:MH:51:SER:HB3	1.99	0.45
3:ML:127:GLN:HB2	3:ML:129:ASN:ND2	2.32	0.45
3:MN:14:ASP:HB2	3:MN:16:LYS:NZ	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NC:115:LEU:C	3:NC:121:LEU:HD12	2.36	0.45
3:NI:10:ASN:OD1	3:NI:10:ASN:O	2.34	0.45
3:NJ:4:GLU:N	3:NJ:4:GLU:OE1	2.50	0.45
1:A:76:C:N4	1:A:77:G:O6	2.50	0.45
1:A:623:A:HO2'	1:A:624:G:H8	1.60	0.45
1:A:895:G:C5'	1:A:899:A:OP2	2.65	0.45
1:A:1525:A:C6	1:A:1526:G:N7	2.85	0.45
1:A:1629:U:H1'	3:BH:89:TYR:CD2	2.52	0.45
1:A:1797:C:H2'	1:A:1798:C:C6	2.52	0.45
1:A:1825:G:C6	1:A:1847:C:N3	2.85	0.45
1:A:2157:C:P	3:HE:59:ARG:NE	2.86	0.45
1:A:2430:G:C2	1:A:2862:U:N3	2.85	0.45
1:A:2437:U:H2'	1:A:2438:C:C6	2.52	0.45
1:A:2447:C:N3	1:A:2476:G:N2	2.64	0.45
1:A:2636:G:OP1	1:A:2636:G:C4	2.69	0.45
1:A:2783:C:H2'	1:A:2784:G:C8	2.51	0.45
1:A:2926:C:C4	1:A:2927:U:O4	2.69	0.45
1:A:3308:G:C5	1:A:3309:A:N6	2.85	0.45
1:A:3353:U:H2'	1:A:3354:A:O4'	2.16	0.45
1:A:3540:U:H5	3:GD:57:ARG:HH22	1.65	0.45
1:A:3937:G:H2'	1:A:3937:G:N3	2.31	0.45
1:A:4001:U:H2'	1:A:4002:A:C8	2.51	0.45
1:A:4155:A:H2'	1:A:4156:A:H5'	1.99	0.45
3:B:108:VAL:O	3:B:112:LEU:HD23	2.16	0.45
3:BD:8:LEU:HD22	3:JB:114:ALA:CB	2.47	0.45
3:BI:121:LEU:C	3:HM:109:ARG:HH21	2.16	0.45
3:BK:37:GLN:CA	3:BK:45:GLU:OE2	2.63	0.45
3:CB:116:LEU:HA	3:CB:121:LEU:HD12	1.98	0.45
3:CB:126:ASP:CG	3:HC:106:ALA:HB2	2.37	0.45
3:CC:32:VAL:HG22	3:CC:51:SER:HB3	1.98	0.45
3:CC:86:ARG:NH2	3:DF:99:TYR:CB	2.73	0.45
3:CD:98:GLN:OE1	3:CD:99:TYR:CE2	2.69	0.45
3:CG:4:GLU:O	3:CG:6:VAL:HG23	2.16	0.45
3:CG:74:CYS:SG	3:CG:74:CYS:O	2.74	0.45
3:CI:101:THR:O	3:CI:105:ARG:HG3	2.17	0.45
3:CK:117:ALA:O	3:CK:122:ILE:HD11	2.17	0.45
3:CM:84:VAL:O	3:CM:84:VAL:HG13	2.15	0.45
3:CN:27:ASN:O	3:CN:31:GLY:N	2.49	0.45
3:CN:60:LYS:HB2	3:CN:61:ASN:HB3	1.98	0.45
3:DB:102:ASP:C	3:DK:13:LYS:HZ2	2.20	0.45
3:DD:52:VAL:HG12	3:DD:64:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:98:GLN:HE22	3:DE:43:ALA:CA	2.28	0.45
3:DG:109:ARG:HH11	3:EJ:122:ILE:HA	1.81	0.45
3:DL:24:ARG:HB2	3:DL:34:SER:OG	2.17	0.45
3:DN:60:LYS:HD3	3:DN:98:GLN:HE21	1.82	0.45
3:DN:112:LEU:CD2	3:ML:116:LEU:HD21	2.41	0.45
3:EA:24:ARG:HB2	3:EA:34:SER:OG	2.16	0.45
3:EB:128:LEU:HD11	3:MJ:105:ARG:CD	2.47	0.45
3:ED:125:ILE:HD13	3:EH:94:PHE:HE1	1.81	0.45
3:ED:131:ALA:HB1	3:EH:3:LEU:HD22	1.98	0.45
3:EE:47:ARG:NH2	3:EE:49:THR:HG22	2.32	0.45
3:EF:129:ASN:ND2	3:EM:24:ARG:HA	2.32	0.45
3:EG:119:PRO:HA	3:EG:122:ILE:HG12	1.99	0.45
3:EL:128:LEU:HD12	3:EL:128:LEU:N	2.32	0.45
3:EM:103:GLU:HG2	3:EM:104:GLU:N	2.32	0.45
3:FA:56:SER:OG	3:FA:61:ASN:ND2	2.49	0.45
3:FG:11:ILE:CD1	3:KG:111:GLU:N	2.80	0.45
3:FG:59:ARG:O	3:FG:60:LYS:HB3	2.17	0.45
3:FI:96:PHE:CE2	3:FI:105:ARG:HB2	2.51	0.45
3:FK:94:PHE:HB3	3:FK:96:PHE:CE2	2.49	0.45
3:FL:86:ARG:NH1	3:HD:100:SER:HA	2.32	0.45
3:FN:125:ILE:CG2	3:FN:126:ASP:N	2.79	0.45
3:GE:21:LEU:CD1	3:GE:48:VAL:HG21	2.46	0.45
3:GF:2:LYS:CE	3:KD:132:TYR:OXT	2.65	0.45
3:GF:129:ASN:HD22	3:KB:24:ARG:HA	1.81	0.45
3:GH:117:ALA:O	3:GH:122:ILE:HD11	2.16	0.45
3:GK:48:VAL:HG13	3:GK:68:ILE:HD13	1.99	0.45
3:GN:11:ILE:CG2	3:GN:17:GLN:HB2	2.47	0.45
3:GN:22:ASN:N	3:GN:36:SER:O	2.41	0.45
3:HI:30:ASN:OD1	3:HI:30:ASN:C	2.55	0.45
3:HN:13:LYS:CE	3:ID:106:ALA:HB3	2.47	0.45
3:HN:13:LYS:CD	3:HN:13:LYS:H	2.28	0.45
3:IF:68:ILE:CG2	3:IF:90:ALA:HB3	2.46	0.45
3:IH:101:THR:HG23	3:IH:103:GLU:HB3	1.99	0.45
3:IL:81:ASP:OD1	3:IN:99:TYR:CG	2.70	0.45
3:IM:11:ILE:CG2	3:IM:17:GLN:HB3	2.47	0.45
3:JA:49:THR:OG1	3:JA:67:LYS:HB2	2.16	0.45
3:KB:11:ILE:HG21	3:KB:19:LEU:HD23	1.98	0.45
3:KB:30:ASN:OD1	3:KB:32:VAL:HG23	2.17	0.45
3:KH:115:LEU:O	3:KH:121:LEU:HD13	2.16	0.45
3:LA:62:TYR:OH	3:LB:47:ARG:NH2	2.49	0.45
3:LA:126:ASP:OD1	3:MD:102:ASP:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LB:54:GLN:HB3	3:LB:55:PRO:CD	2.47	0.45
3:LG:11:ILE:HD11	3:MG:111:GLU:N	2.31	0.45
3:LG:109:ARG:CZ	3:MG:122:ILE:CD1	2.94	0.45
3:LL:132:TYR:CZ	3:MB:26:VAL:HG11	2.51	0.45
3:LM:11:ILE:CG2	3:LM:17:GLN:HB2	2.45	0.45
3:LM:54:GLN:HB3	3:LM:55:PRO:HD2	1.97	0.45
3:MC:91:ASP:OD1	3:NJ:93:THR:O	2.34	0.45
3:MC:126:ASP:O	3:NJ:105:ARG:NE	2.43	0.45
3:ME:101:THR:O	3:ME:104:GLU:HG2	2.16	0.45
3:MI:55:PRO:HB3	3:MI:60:LYS:CG	2.46	0.45
3:MI:60:LYS:HZ1	3:MI:98:GLN:HB2	1.82	0.45
3:MM:56:SER:O	3:MM:59:ARG:O	2.34	0.45
3:NB:102:ASP:OD1	3:NF:126:ASP:O	2.35	0.45
1:A:185:A:H2'	1:A:186:G:O3'	2.17	0.45
1:A:227:A:C5	1:A:228:U:H1'	2.51	0.45
1:A:330:A:N1	1:A:355:G:O6	2.49	0.45
1:A:403:G:C2	1:A:404:A:C5	3.04	0.45
1:A:709:G:H2'	1:A:710:A:O4'	2.17	0.45
1:A:1328:U:C2	1:A:1594:C:O2	2.70	0.45
1:A:1399:C:O2	1:A:1543:U:N3	2.50	0.45
1:A:1408:U:C2	1:A:1535:G:N1	2.85	0.45
1:A:1727:G:H2'	1:A:1728:C:O4'	2.17	0.45
1:A:1865:A:N6	1:A:1890:A:N1	2.64	0.45
1:A:2065:U:H2'	1:A:2066:U:C6	2.52	0.45
1:A:2320:U:O2	1:A:2343:A:C8	2.70	0.45
1:A:2383:U:O2	1:A:2383:U:H3'	2.16	0.45
1:A:2507:U:C2'	1:A:2508:A:H3'	2.46	0.45
1:A:2702:G:N1	1:A:2703:G:N2	2.65	0.45
1:A:2779:C:H2'	1:A:2780:G:C8	2.52	0.45
1:A:2856:C:O2'	1:A:2857:C:H5	2.00	0.45
1:A:2921:C:C4	3:FM:54:GLN:OE1	2.70	0.45
1:A:3231:G:H1'	1:A:3267:A:N6	2.32	0.45
1:A:3259:G:O3'	3:KM:57:ARG:NH1	2.50	0.45
1:A:3442:C:H2'	1:A:3443:G:H8	1.81	0.45
1:A:3609:G:O6	1:A:3645:U:O4	2.33	0.45
1:A:3668:G:H2'	1:A:3840:C:C5	2.52	0.45
1:A:3989:U:O4'	1:A:4005:A:C6	2.70	0.45
1:A:4014:A:H2'	1:A:4015:G:H8	1.82	0.45
1:A:4062:G:C6	1:A:4092:A:N6	2.85	0.45
2:M:58:GLY:O	2:M:118:ARG:NH1	2.43	0.45
3:BI:55:PRO:HB3	3:BI:60:LYS:HD3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:86:ARG:NH2	3:BN:100:SER:N	2.65	0.45
3:BK:109:ARG:CZ	3:HK:122:ILE:HD13	2.47	0.45
3:BM:121:LEU:O	3:BM:121:LEU:HD12	2.16	0.45
3:BM:131:ALA:HB1	3:DJ:3:LEU:HD23	1.99	0.45
3:CC:103:GLU:HA	3:DF:13:LYS:HE2	1.97	0.45
3:CD:95:SER:OG	3:HA:89:TYR:HB2	2.17	0.45
3:CF:11:ILE:HD12	3:GM:110:THR:OG1	2.17	0.45
3:CH:41:VAL:N	3:CH:42:PRO:CD	2.80	0.45
3:CI:96:PHE:CE2	3:CI:105:ARG:CG	2.97	0.45
3:CK:52:VAL:O	3:CK:52:VAL:CG2	2.65	0.45
3:CL:74:CYS:SG	3:HI:79:SER:O	2.75	0.45
3:CL:92:VAL:HG22	3:HH:92:VAL:HG22	1.99	0.45
3:DF:56:SER:O	3:DF:59:ARG:O	2.34	0.45
3:DF:119:PRO:HA	3:DF:122:ILE:HG22	1.97	0.45
3:DH:55:PRO:HB2	3:DH:60:LYS:HD2	1.99	0.45
3:DI:24:ARG:HB2	3:DI:34:SER:OG	2.17	0.45
3:DL:52:VAL:HG21	3:MN:130:PRO:HA	1.97	0.45
3:DL:122:ILE:HG23	3:MN:109:ARG:HH12	1.78	0.45
3:DM:72:THR:HB	3:DM:86:ARG:HB2	1.99	0.45
3:DM:72:THR:CB	3:DM:86:ARG:HD3	2.47	0.45
3:EA:123:ASP:OD1	3:EA:129:ASN:HB2	2.17	0.45
3:EG:110:THR:HG21	3:GC:12:GLY:H	1.82	0.45
3:EH:74:CYS:HB2	3:EH:85:THR:OG1	2.15	0.45
3:EI:109:ARG:NH2	3:GA:126:ASP:H	2.14	0.45
3:EK:112:LEU:O	3:EK:116:LEU:HD13	2.16	0.45
3:FG:128:LEU:HD21	3:KG:105:ARG:CD	2.46	0.45
3:FH:1:ALA:N	3:FK:123:ASP:OD2	2.47	0.45
3:FJ:129:ASN:HA	3:HG:24:ARG:NH1	2.32	0.45
3:FM:84:VAL:O	3:FM:84:VAL:HG13	2.16	0.45
3:GI:132:TYR:CZ	3:JB:28:PRO:HB3	2.51	0.45
3:GJ:27:ASN:OD1	3:GJ:29:THR:OG1	2.29	0.45
3:GJ:86:ARG:CZ	3:GN:104:GLU:OE2	2.64	0.45
3:GK:11:ILE:HD12	3:JA:110:THR:CB	2.46	0.45
3:GL:128:LEU:HD11	3:HG:105:ARG:CD	2.47	0.45
3:HD:112:LEU:O	3:HD:116:LEU:HG	2.17	0.45
3:HI:106:ALA:HB3	3:II:13:LYS:CE	2.47	0.45
3:IC:56:SER:O	3:IC:59:ARG:O	2.35	0.45
3:II:98:GLN:CD	3:IJ:43:ALA:HB2	2.37	0.45
3:KB:60:LYS:N	3:KB:61:ASN:HB3	2.30	0.45
3:KG:60:LYS:O	3:KG:61:ASN:C	2.54	0.45
3:KH:60:LYS:CA	3:KH:61:ASN:HB3	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KK:61:ASN:HA	3:KK:97:THR:HA	1.98	0.45
3:KM:94:PHE:CD1	3:MF:125:ILE:HD13	2.52	0.45
3:KM:95:SER:OG	3:MF:89:TYR:HB2	2.17	0.45
3:LA:102:ASP:OD1	3:LA:102:ASP:N	2.48	0.45
3:LA:125:ILE:O	3:MD:105:ARG:NH2	2.49	0.45
3:LC:40:ALA:CB	3:LE:101:THR:OG1	2.65	0.45
3:LG:99:TYR:OH	3:LH:84:VAL:HG23	2.17	0.45
3:LG:126:ASP:OD1	3:MG:102:ASP:HB2	2.17	0.45
3:LH:23:PRO:HA	3:LH:35:LEU:HG	1.99	0.45
3:MA:98:GLN:HE22	3:MB:43:ALA:CA	2.29	0.45
3:MM:82:PRO:O	3:NA:99:TYR:CZ	2.69	0.45
3:NB:116:LEU:HD11	3:NF:112:LEU:HD23	1.98	0.45
3:NE:65:GLN:OE1	3:NE:93:THR:HG22	2.17	0.45
3:NH:122:ILE:CG2	3:NH:123:ASP:N	2.80	0.45
1:A:926:A:H2'	1:A:927:C:O4'	2.17	0.45
1:A:1123:C:OP1	1:A:1151:G:OP2	2.35	0.45
1:A:1328:U:H2'	1:A:1329:U:O4'	2.16	0.45
1:A:1497:U:O4	3:BN:65:GLN:O	2.34	0.45
1:A:1512:U:C2	1:A:1513:C:C5	3.05	0.45
1:A:1847:C:H2'	1:A:1848:U:C6	2.52	0.45
1:A:2172:G:C2	1:A:2173:C:N4	2.85	0.45
1:A:2377:A:C2	1:A:2403:G:N3	2.84	0.45
1:A:2426:U:O2	1:A:2867:G:O6	2.34	0.45
1:A:2644:C:H2'	1:A:2645:A:C8	2.52	0.45
1:A:2680:U:OP1	3:DE:56:SER:OG	2.30	0.45
1:A:3299:C:O3'	3:LD:58:ASN:ND2	2.41	0.45
1:A:3393:G:H2'	1:A:3394:A:C4	2.52	0.45
1:A:3663:G:C4'	3:LH:97:THR:HG22	2.47	0.45
1:A:3786:A:O4'	1:A:3786:A:OP2	2.35	0.45
1:A:3917:C:N4	1:A:3944:G:C6	2.85	0.45
1:A:3991:G:O2'	1:A:3992:G:O4'	2.33	0.45
1:A:4051:G:H2'	1:A:4052:C:O4'	2.17	0.45
3:BA:60:LYS:HB2	3:BA:61:ASN:HB3	1.99	0.45
3:BA:131:ALA:O	3:MK:3:LEU:CD2	2.65	0.45
3:BD:100:SER:CA	3:JB:86:ARG:HH22	2.23	0.45
3:BJ:55:PRO:HD3	3:BJ:62:TYR:CE1	2.52	0.45
3:CB:115:LEU:HD11	3:HC:48:VAL:HG11	1.99	0.45
3:CC:86:ARG:NH2	3:DF:97:THR:HG23	2.32	0.45
3:CC:121:LEU:HA	3:CC:124:ALA:HB3	1.99	0.45
3:CG:119:PRO:O	3:CG:122:ILE:HB	2.16	0.45
3:CH:11:ILE:HD12	3:HL:110:THR:HG23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:19:LEU:CD1	3:HL:111:GLU:OE1	2.62	0.45
3:CI:3:LEU:HD21	3:CI:33:ALA:HB1	1.98	0.45
3:CJ:112:LEU:HD11	3:HJ:92:VAL:HG21	1.99	0.45
3:CK:131:ALA:HB1	3:NC:3:LEU:CD2	2.47	0.45
3:CK:131:ALA:HB1	3:NC:3:LEU:HD22	1.98	0.45
3:DC:53:SER:OG	3:DC:59:ARG:NE	2.50	0.45
3:DJ:21:LEU:CD1	3:DJ:48:VAL:HG21	2.47	0.45
3:DK:55:PRO:HA	3:DK:60:LYS:O	2.17	0.45
3:DM:14:ASP:OD1	3:DM:14:ASP:N	2.49	0.45
3:DM:32:VAL:HG23	3:DM:51:SER:OG	2.16	0.45
3:EC:99:TYR:C	3:LK:86:ARG:HH12	2.19	0.45
3:ED:91:ASP:OD1	3:EH:93:THR:HB	2.16	0.45
3:EE:92:VAL:HG22	3:LI:92:VAL:HG22	1.99	0.45
3:EF:103:GLU:HA	3:FA:13:LYS:HZ1	1.82	0.45
3:EH:24:ARG:NH2	3:GC:127:GLN:O	2.31	0.45
3:EI:122:ILE:CA	3:GA:109:ARG:HH12	2.30	0.45
3:EL:81:ASP:OD1	3:EL:81:ASP:N	2.47	0.45
3:EN:34:SER:O	3:EN:35:LEU:HD22	2.17	0.45
3:FB:128:LEU:O	3:FB:128:LEU:HG	2.16	0.45
3:FC:96:PHE:CZ	3:GB:125:ILE:HG23	2.52	0.45
3:FC:121:LEU:HD13	3:GB:66:VAL:HG21	1.98	0.45
3:FF:102:ASP:OD1	3:FF:103:GLU:OE1	2.35	0.45
3:FG:64:VAL:HG11	3:KG:125:ILE:CG1	2.46	0.45
3:FH:52:VAL:CG1	3:FK:130:PRO:HA	2.47	0.45
3:GA:84:VAL:HG12	3:GA:87:GLN:HE21	1.82	0.45
3:GC:59:ARG:HB3	3:GC:61:ASN:OD1	2.17	0.45
3:GE:101:THR:O	3:GE:105:ARG:HG3	2.17	0.45
3:GE:109:ARG:NH1	3:HE:122:ILE:HB	2.31	0.45
3:GG:4:GLU:N	3:GG:4:GLU:OE1	2.50	0.45
3:GG:52:VAL:HG13	3:GG:64:VAL:HG22	1.98	0.45
3:GG:67:LYS:HD3	3:GG:91:ASP:OD1	2.17	0.45
3:GH:11:ILE:CG2	3:GH:17:GLN:HB2	2.47	0.45
3:GI:120:LEU:CD1	3:JC:6:VAL:HG21	2.46	0.45
3:GK:77:ASN:ND2	3:JB:77:ASN:O	2.50	0.45
3:GK:86:ARG:CZ	3:JA:99:TYR:O	2.65	0.45
3:GN:11:ILE:HG23	3:GN:17:GLN:HB2	1.99	0.45
3:HC:51:SER:OG	3:HC:65:GLN:HB2	2.16	0.45
3:HE:60:LYS:HB2	3:HE:61:ASN:CB	2.47	0.45
3:HJ:55:PRO:HA	3:HJ:60:LYS:O	2.17	0.45
3:HN:52:VAL:O	3:HN:54:GLN:OE1	2.35	0.45
3:IB:128:LEU:HD11	3:IK:105:ARG:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JC:11:ILE:CG2	3:JC:17:GLN:HB3	2.47	0.45
3:JF:132:TYR:O	3:KA:3:LEU:HD13	2.16	0.45
3:JG:71:PRO:HA	3:JG:87:GLN:HA	1.98	0.45
3:JH:79:SER:O	3:JH:80:CYS:CB	2.64	0.45
3:JK:112:LEU:HD23	3:KN:116:LEU:HD11	1.99	0.45
3:JN:44:LEU:O	3:JN:44:LEU:HG	2.17	0.45
3:KB:59:ARG:HA	3:KB:59:ARG:NE	2.31	0.45
3:KE:119:PRO:HA	3:KE:122:ILE:HD11	1.99	0.45
3:KH:101:THR:OG1	3:KH:104:GLU:HG2	2.17	0.45
3:KH:110:THR:CB	3:KL:11:ILE:HD12	2.47	0.45
3:KM:3:LEU:HD13	3:MF:132:TYR:O	2.17	0.45
3:LA:23:PRO:HA	3:LA:35:LEU:HD13	1.99	0.45
3:LA:37:GLN:O	3:LA:45:GLU:OE1	2.34	0.45
3:LA:49:THR:OG1	3:LA:67:LYS:HB2	2.17	0.45
3:LA:107:PHE:O	3:LA:111:GLU:HG3	2.17	0.45
3:LN:45:GLU:OE2	3:LN:46:LYS:O	2.35	0.45
3:LN:128:LEU:CD2	3:MI:62:TYR:HD1	2.30	0.45
3:MC:52:VAL:CG2	3:MC:64:VAL:HG22	2.46	0.45
3:MD:123:ASP:OD1	3:MD:123:ASP:C	2.55	0.45
3:MG:40:ALA:CB	3:MI:101:THR:OG1	2.64	0.45
3:MH:75:THR:HG22	3:MH:82:PRO:HG3	1.96	0.45
3:MJ:60:LYS:CA	3:MJ:61:ASN:HB3	2.47	0.45
3:MN:4:GLU:CD	3:MN:5:THR:N	2.70	0.45
3:NA:97:THR:HG22	3:NA:100:SER:OG	2.17	0.45
3:NB:119:PRO:O	3:NB:122:ILE:HG22	2.16	0.45
1:A:199:A:C3'	1:A:200:A:C2	3.00	0.45
1:A:223:C:H2'	1:A:224:C:N1	2.32	0.45
1:A:312:U:H2'	1:A:313:C:C6	2.52	0.45
1:A:865:G:C2	1:A:866:A:N1	2.85	0.45
1:A:1015:A:N3	1:A:1016:G:N7	2.65	0.45
1:A:1128:A:H2'	1:A:1129:U:C6	2.52	0.45
1:A:1176:U:N3	1:A:1177:G:N7	2.65	0.45
1:A:1367:U:N3	1:A:1368:U:H1'	2.31	0.45
1:A:1587:G:H2'	1:A:1588:A:O4'	2.17	0.45
1:A:1927:U:C2	1:A:1993:A:C6	3.05	0.45
1:A:2066:U:H2'	1:A:2067:G:H8	1.81	0.45
1:A:2070:A:H2'	1:A:2071:C:C6	2.52	0.45
1:A:2073:G:C6	1:A:2092:A:C6	3.05	0.45
1:A:2255:U:H2'	1:A:2256:G:C8	2.52	0.45
1:A:2300:U:N3	1:A:2301:A:N7	2.64	0.45
1:A:2406:G:H2'	1:A:2407:C:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2629:G:C6	1:A:2630:G:C6	3.05	0.45
1:A:2650:A:P	3:EH:57:ARG:HE	2.40	0.45
1:A:2651:G:H2'	1:A:2652:G:C1'	2.47	0.45
1:A:2681:C:H2'	1:A:2682:U:O4'	2.17	0.45
1:A:2903:G:H2'	1:A:2904:A:C8	2.52	0.45
1:A:3244:U:O5'	3:KK:57:ARG:CZ	2.65	0.45
1:A:3264:C:C2	1:A:3265:C:C5	3.04	0.45
1:A:3339:G:H2'	1:A:3340:A:C8	2.52	0.45
1:A:3423:G:N2	1:A:3425:A:H61	2.14	0.45
1:A:3809:G:O2'	1:A:3810:U:P	2.75	0.45
3:BB:109:ARG:CZ	3:MA:116:LEU:O	2.65	0.45
3:BC:103:GLU:HA	3:ND:13:LYS:HE2	1.99	0.45
3:BD:116:LEU:HD12	3:JB:116:LEU:HD12	1.98	0.45
3:BD:130:PRO:HD2	3:JC:23:PRO:O	2.16	0.45
3:BF:125:ILE:HG23	3:BF:126:ASP:N	2.32	0.45
3:BG:41:VAL:N	3:BG:42:PRO:CD	2.79	0.45
3:BI:3:LEU:HB3	3:BI:23:PRO:HB3	1.99	0.45
3:BJ:49:THR:OG1	3:BJ:67:LYS:HB2	2.17	0.45
3:CA:109:ARG:HD3	3:DH:116:LEU:O	2.17	0.45
3:CB:100:SER:HA	3:HC:86:ARG:NH1	2.32	0.45
3:CC:64:VAL:CG1	3:DF:125:ILE:HD11	2.42	0.45
3:CC:105:ARG:CZ	3:DF:128:LEU:HD11	2.46	0.45
3:CF:8:LEU:HD22	3:GM:114:ALA:HB3	1.97	0.45
3:CK:65:GLN:HG3	3:CK:93:THR:HG22	1.99	0.45
3:DA:11:ILE:HD12	3:MM:110:THR:HB	1.97	0.45
3:DA:59:ARG:NH2	3:DA:63:LYS:HZ3	2.14	0.45
3:DE:1:ALA:HB3	3:EL:131:ALA:HA	1.98	0.45
3:DH:81:ASP:OD1	3:DH:81:ASP:N	2.50	0.45
3:DI:60:LYS:HB2	3:DI:61:ASN:HB2	1.98	0.45
3:EA:30:ASN:OD1	3:EA:32:VAL:HG23	2.17	0.45
3:EE:8:LEU:HD11	3:LI:114:ALA:HB3	1.93	0.45
3:EM:41:VAL:HG13	3:EM:44:LEU:HD11	1.98	0.45
3:FC:62:TYR:CE1	3:GB:128:LEU:CD2	2.99	0.45
3:FC:125:ILE:HG12	3:GB:64:VAL:HG11	1.99	0.45
3:FD:57:ARG:HG2	3:FD:58:ASN:OD1	2.17	0.45
3:FF:49:THR:OG1	3:FF:67:LYS:HB2	2.16	0.45
3:FH:101:THR:OG1	3:FH:104:GLU:HG2	2.17	0.45
3:FI:114:ALA:HB1	3:KE:8:LEU:HD22	1.98	0.45
3:FJ:62:TYR:CE2	3:HF:128:LEU:HD22	2.52	0.45
3:FL:132:TYR:CA	3:HD:3:LEU:HD23	2.47	0.45
3:FM:49:THR:OG1	3:FM:67:LYS:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GD:8:LEU:HD22	3:GD:8:LEU:N	2.32	0.45
3:GD:26:VAL:O	3:GD:26:VAL:HG13	2.16	0.45
3:GE:98:GLN:O	3:GF:42:PRO:HD2	2.16	0.45
3:GJ:60:LYS:HB2	3:GJ:61:ASN:HB2	1.98	0.45
3:GK:112:LEU:O	3:GK:116:LEU:HG	2.17	0.45
3:HI:54:GLN:HB3	3:HI:55:PRO:HD2	1.98	0.45
3:HN:60:LYS:HB2	3:HN:61:ASN:HB2	1.97	0.45
3:HN:81:ASP:OD1	3:IB:99:TYR:CG	2.70	0.45
3:IA:6:VAL:HG12	3:IA:8:LEU:HD21	1.95	0.45
3:IA:11:ILE:HG21	3:IA:19:LEU:HD23	1.99	0.45
3:IE:73:ALA:HB1	3:IE:83:SER:O	2.17	0.45
3:JC:24:ARG:N	3:JC:34:SER:O	2.43	0.45
3:JE:14:ASP:OD1	3:JE:14:ASP:N	2.48	0.45
3:JH:101:THR:HG22	3:JI:41:VAL:HG22	1.98	0.45
3:KK:62:TYR:C	3:KK:63:LYS:HD2	2.37	0.45
3:KM:74:CYS:SG	3:KM:74:CYS:O	2.75	0.45
3:KN:30:ASN:CG	3:KN:32:VAL:HG23	2.36	0.45
3:LA:75:THR:O	3:ME:79:SER:HA	2.16	0.45
3:LG:11:ILE:CG1	3:MG:110:THR:HG23	2.46	0.45
3:LG:18:THR:C	3:LG:19:LEU:HD22	2.38	0.45
3:LG:116:LEU:HA	3:LG:121:LEU:HD23	1.99	0.45
3:LN:109:ARG:HH12	3:MI:122:ILE:HA	1.82	0.45
3:MA:101:THR:O	3:MA:105:ARG:HG3	2.17	0.45
3:MB:65:GLN:OE1	3:MB:92:VAL:O	2.35	0.45
3:MF:52:VAL:O	3:MF:52:VAL:CG2	2.65	0.45
3:MK:30:ASN:OD1	3:MK:32:VAL:HG23	2.16	0.45
3:ND:52:VAL:HG12	3:ND:64:VAL:CG2	2.44	0.45
3:NF:6:VAL:HG12	3:NF:8:LEU:HD22	1.99	0.45
3:NG:39:GLY:CA	3:NG:45:GLU:OE1	2.64	0.45
3:NI:6:VAL:HG12	3:NI:8:LEU:HD22	1.98	0.45
1:A:24:C:C2	1:A:25:U:C6	3.05	0.45
1:A:104:A:N6	1:A:105:A:H62	2.15	0.45
1:A:267:C:H2'	1:A:268:A:C8	2.51	0.45
1:A:269:C:H2'	1:A:270:C:O4'	2.17	0.45
1:A:532:A:OP2	1:A:532:A:C8	2.70	0.45
1:A:841:A:HO2'	1:A:842:A:H8	1.64	0.45
1:A:868:C:C4	1:A:1233:G:C6	3.05	0.45
1:A:1092:U:H4'	3:IG:89:TYR:CD2	2.52	0.45
1:A:1220:C:C3'	1:A:1221:G:H5"	2.47	0.45
1:A:1499:G:O6	1:A:1500:G:O6	2.35	0.45
1:A:1730:G:OP1	3:IM:59:ARG:NH2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1925:A:H2'	1:A:1926:C:C6	2.52	0.45
1:A:2025:U:C2	1:A:2137:A:C2	3.05	0.45
1:A:2073:G:C6	1:A:2092:A:N1	2.85	0.45
1:A:2293:A:N7	1:A:2294:A:C8	2.85	0.45
1:A:2486:A:C6	1:A:2487:U:O4	2.70	0.45
1:A:2542:A:H2'	1:A:2544:G:N7	2.32	0.45
1:A:3563:C:H2'	1:A:3564:G:H8	1.82	0.45
1:A:3926:G:C4	1:A:3927:C:C6	3.05	0.45
2:M:116:LEU:C	2:M:116:LEU:HD12	2.36	0.45
3:B:8:LEU:HD12	3:B:9:GLY:N	2.25	0.45
3:BA:123:ASP:OD2	3:MK:1:ALA:N	2.48	0.45
3:BG:11:ILE:CG2	3:IA:110:THR:OG1	2.65	0.45
3:BG:128:LEU:HD11	3:IA:105:ARG:CD	2.47	0.45
3:BJ:8:LEU:HD11	3:BN:114:ALA:CB	2.47	0.45
3:BJ:23:PRO:HA	3:BJ:35:LEU:HD13	1.98	0.45
3:BJ:52:VAL:O	3:BJ:52:VAL:CG2	2.64	0.45
3:BK:68:ILE:HD12	3:BK:68:ILE:N	2.32	0.45
3:BM:126:ASP:HB3	3:DJ:102:ASP:OD1	2.16	0.45
3:CB:126:ASP:O	3:HC:105:ARG:NH2	2.42	0.45
3:CC:112:LEU:HD23	3:CC:112:LEU:C	2.37	0.45
3:CE:48:VAL:HG22	3:CE:68:ILE:CD1	2.46	0.45
3:CH:55:PRO:HD3	3:CH:62:TYR:CE2	2.52	0.45
3:CK:111:GLU:CA	3:NC:11:ILE:HD11	2.46	0.45
3:CM:2:LYS:NZ	3:NA:132:TYR:OXT	2.50	0.45
3:CM:64:VAL:HG11	3:NA:125:ILE:HD13	1.99	0.45
3:CM:132:TYR:CE1	3:MN:28:PRO:HB3	2.52	0.45
3:DC:14:ASP:OD2	3:DC:16:LYS:HD2	2.17	0.45
3:DE:91:ASP:CG	3:EL:93:THR:OG1	2.55	0.45
3:DE:95:SER:OG	3:EL:89:TYR:HB2	2.16	0.45
3:DG:61:ASN:ND2	3:DG:96:PHE:O	2.50	0.45
3:DH:84:VAL:HG22	3:DH:87:GLN:NE2	2.32	0.45
3:DK:66:VAL:HB	3:DK:92:VAL:HB	1.98	0.45
3:DL:116:LEU:HD23	3:DL:116:LEU:C	2.37	0.45
3:EB:13:LYS:HE2	3:MJ:103:GLU:HG3	1.99	0.45
3:EB:115:LEU:HD22	3:MJ:8:LEU:HD21	1.98	0.45
3:EE:111:GLU:N	3:LI:11:ILE:HD11	2.31	0.45
3:EF:27:ASN:OD1	3:EF:29:THR:N	2.36	0.45
3:EF:103:GLU:HG2	3:FA:13:LYS:NZ	2.31	0.45
3:EF:104:GLU:HA	3:EF:104:GLU:OE2	2.16	0.45
3:EF:105:ARG:HD3	3:FA:128:LEU:HD11	1.98	0.45
3:EG:126:ASP:HA	3:GC:105:ARG:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EI:126:ASP:O	3:GA:105:ARG:NH2	2.49	0.45
3:EJ:11:ILE:CG2	3:EJ:17:GLN:HB2	2.47	0.45
3:EL:118:SER:OG	3:EL:119:PRO:HD2	2.17	0.45
3:EM:118:SER:OG	3:EM:119:PRO:HD2	2.17	0.45
3:FA:46:LYS:HZ2	3:FA:70:ASN:HB3	1.82	0.45
3:FB:32:VAL:HG22	3:FB:51:SER:HB2	1.99	0.45
3:FE:63:LYS:HZ2	3:FE:65:GLN:HB2	1.81	0.45
3:GF:132:TYR:CD2	3:KB:26:VAL:HB	2.52	0.45
3:GG:23:PRO:O	3:GG:24:ARG:HD2	2.17	0.45
3:GG:94:PHE:HB3	3:GG:96:PHE:CZ	2.51	0.45
3:GI:101:THR:HG23	3:GI:104:GLU:H	1.82	0.45
3:GK:64:VAL:HG11	3:JA:125:ILE:HD13	1.99	0.45
3:HB:109:ARG:HG3	3:HB:110:THR:N	2.32	0.45
3:HJ:3:LEU:HD12	3:HJ:35:LEU:HD11	1.99	0.45
3:IA:11:ILE:HG23	3:IA:17:GLN:HB2	1.99	0.45
3:IB:112:LEU:HD11	3:IK:92:VAL:HG21	1.98	0.45
3:IC:25:GLY:H	3:JL:130:PRO:HD2	1.81	0.45
3:ID:21:LEU:CD2	3:ID:35:LEU:HB2	2.47	0.45
3:IF:62:TYR:CD2	3:NI:128:LEU:HD21	2.52	0.45
3:IF:116:LEU:HD11	3:NI:112:LEU:HD22	1.99	0.45
3:IG:91:ASP:OD1	3:JJ:93:THR:O	2.35	0.45
3:JC:73:ALA:HB1	3:JC:83:SER:O	2.17	0.45
3:JD:59:ARG:HA	3:JD:59:ARG:NE	2.32	0.45
3:JF:55:PRO:HA	3:JF:60:LYS:O	2.16	0.45
3:JK:79:SER:C	3:JK:80:CYS:SG	2.94	0.45
3:JN:52:VAL:HG12	3:JN:64:VAL:HG22	1.97	0.45
3:KJ:56:SER:OG	3:KJ:59:ARG:HG2	2.16	0.45
3:KK:86:ARG:NH2	3:MH:97:THR:HG23	2.32	0.45
3:KM:101:THR:HG22	3:KM:104:GLU:CD	2.37	0.45
3:KN:102:ASP:N	3:KN:102:ASP:OD1	2.45	0.45
3:LD:121:LEU:HD12	3:LD:121:LEU:N	2.31	0.45
3:LI:119:PRO:O	3:LI:122:ILE:HG12	2.17	0.45
3:LL:110:THR:OG1	3:MB:11:ILE:CD1	2.65	0.45
3:LM:95:SER:O	3:LM:96:PHE:CD1	2.70	0.45
3:LN:110:THR:OG1	3:MI:11:ILE:CD1	2.65	0.45
3:MC:1:ALA:H1	3:NJ:129:ASN:ND2	2.15	0.45
3:MC:112:LEU:O	3:MC:116:LEU:HD13	2.17	0.45
3:ME:48:VAL:HG13	3:ME:68:ILE:HD13	1.98	0.45
3:ME:91:ASP:O	3:NH:92:VAL:HA	2.17	0.45
3:ME:109:ARG:NH2	3:NH:122:ILE:HD12	2.31	0.45
3:MF:68:ILE:HG22	3:MF:90:ALA:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MK:118:SER:O	3:MK:122:ILE:HG13	2.17	0.45
3:NA:37:GLN:NE2	3:NA:38:ALA:O	2.50	0.45
3:NB:4:GLU:N	3:NB:4:GLU:OE1	2.50	0.45
3:ND:24:ARG:HB2	3:ND:34:SER:OG	2.17	0.45
3:NE:61:ASN:HA	3:NE:96:PHE:O	2.17	0.45
3:NG:77:ASN:OD1	3:NG:77:ASN:O	2.34	0.45
3:NH:60:LYS:N	3:NH:61:ASN:HB3	2.30	0.45
3:NI:98:GLN:NE2	3:NJ:43:ALA:HA	2.32	0.45
1:A:244:G:H2'	1:A:245:U:C6	2.52	0.44
1:A:500:A:H3'	1:A:501:U:O4'	2.17	0.44
1:A:1296:U:H3'	1:A:1297:U:C5	2.51	0.44
1:A:1296:U:H3'	1:A:1297:U:C6	2.52	0.44
1:A:1300:U:H5"	1:A:1302:A:N1	2.33	0.44
1:A:1927:U:C2	1:A:1993:A:N1	2.85	0.44
1:A:2399:C:H2'	1:A:2400:C:O4'	2.17	0.44
1:A:2497:A:C6	1:A:2498:G:C5	3.05	0.44
1:A:2542:A:OP2	1:A:2543:U:C2	2.70	0.44
1:A:2929:C:O5'	1:A:2930:U:OP1	2.35	0.44
1:A:2933:A:H3'	1:A:2934:C:H5"	1.99	0.44
1:A:3563:C:C2	1:A:3564:G:C8	3.04	0.44
1:A:3609:G:C6	1:A:3610:C:C4	3.05	0.44
1:A:3678:G:H2'	1:A:3679:C:C6	2.52	0.44
1:A:4152:G:O2'	1:A:4153:U:O5'	2.35	0.44
1:A:4201:U:OP2	2:M:353:ARG:CZ	2.64	0.44
1:A:4202:G:C8	2:M:80:VAL:HG13	2.52	0.44
3:BA:21:LEU:HD23	3:BA:35:LEU:HB3	2.00	0.44
3:BF:7:THR:HG23	3:BF:7:THR:O	2.17	0.44
3:BH:34:SER:C	3:BH:35:LEU:HD23	2.37	0.44
3:BL:77:ASN:O	3:BL:77:ASN:OD1	2.34	0.44
3:CH:44:LEU:O	3:CH:44:LEU:HD12	2.17	0.44
3:CJ:32:VAL:HG12	3:CJ:51:SER:HB2	1.99	0.44
3:CN:94:PHE:CD1	3:DD:125:ILE:HD12	2.52	0.44
3:DE:32:VAL:HG12	3:DE:51:SER:CB	2.47	0.44
3:DF:121:LEU:N	3:DF:121:LEU:HD22	2.32	0.44
3:DG:105:ARG:CZ	3:EJ:126:ASP:O	2.64	0.44
3:DL:97:THR:N	3:DL:100:SER:HG	2.15	0.44
3:DN:3:LEU:CD1	3:DN:35:LEU:HD11	2.43	0.44
3:EA:51:SER:HB3	3:EA:65:GLN:HE21	1.82	0.44
3:EB:2:LYS:CE	3:MJ:132:TYR:O	2.65	0.44
3:EB:54:GLN:CG	3:EB:55:PRO:HD2	2.47	0.44
3:EC:3:LEU:HD23	3:LK:132:TYR:CA	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:48:VAL:HG22	3:ED:68:ILE:HD12	1.97	0.44
3:ED:49:THR:OG1	3:ED:67:LYS:HB3	2.18	0.44
3:EG:132:TYR:CZ	3:GC:26:VAL:HG21	2.52	0.44
3:FB:112:LEU:HD21	3:LJ:92:VAL:CG2	2.47	0.44
3:FD:98:GLN:OE1	3:FD:99:TYR:CD1	2.70	0.44
3:FD:132:TYR:HD1	3:LH:26:VAL:CG2	2.30	0.44
3:FE:122:ILE:HG13	3:FE:123:ASP:N	2.31	0.44
3:FI:8:LEU:HD21	3:KE:115:LEU:CG	2.47	0.44
3:FI:128:LEU:HD12	3:FI:128:LEU:N	2.32	0.44
3:FJ:103:GLU:CA	3:HF:13:LYS:NZ	2.80	0.44
3:FK:126:ASP:O	3:FK:128:LEU:HD12	2.17	0.44
3:FM:22:ASN:O	3:FM:35:LEU:HD12	2.17	0.44
3:GE:19:LEU:HD11	3:GE:37:GLN:CG	2.46	0.44
3:GE:97:THR:HG22	3:HE:86:ARG:NH2	2.32	0.44
3:GH:110:THR:HB	3:KB:11:ILE:HD12	1.98	0.44
3:GI:126:ASP:HB2	3:GI:127:GLN:OE1	2.17	0.44
3:HI:108:VAL:HA	3:HI:111:GLU:OE1	2.17	0.44
3:HL:75:THR:HG23	3:HL:82:PRO:HG3	1.99	0.44
3:HM:118:SER:OG	3:HM:119:PRO:HD2	2.17	0.44
3:IB:23:PRO:HA	3:IB:35:LEU:HD22	1.98	0.44
3:IC:54:GLN:HB3	3:IC:55:PRO:CD	2.47	0.44
3:IH:111:GLU:OE2	3:NG:19:LEU:HD23	2.16	0.44
3:JD:128:LEU:CD2	3:JH:62:TYR:CD1	3.00	0.44
3:JF:8:LEU:HD13	3:KA:115:LEU:HD22	1.99	0.44
3:JF:13:LYS:HZ2	3:KA:103:GLU:HG2	1.82	0.44
3:JI:52:VAL:HG12	3:JI:64:VAL:CG1	2.47	0.44
3:JK:62:TYR:CD2	3:KN:128:LEU:HD22	2.52	0.44
3:JK:122:ILE:HD13	3:KN:109:ARG:NH1	2.31	0.44
3:JM:24:ARG:HB2	3:JM:34:SER:HB2	1.98	0.44
3:KA:51:SER:OG	3:KA:65:GLN:HB3	2.17	0.44
3:KC:59:ARG:O	3:KC:60:LYS:HG2	2.17	0.44
3:KD:91:ASP:OD2	3:KD:91:ASP:O	2.34	0.44
3:KH:118:SER:O	3:KH:122:ILE:HG12	2.16	0.44
3:KI:34:SER:O	3:KI:35:LEU:HD23	2.16	0.44
3:KK:130:PRO:CG	3:MH:52:VAL:HG11	2.46	0.44
3:KN:11:ILE:HG23	3:KN:17:GLN:HB2	1.99	0.44
3:LA:37:GLN:HB3	3:LA:45:GLU:OE1	2.17	0.44
3:LA:92:VAL:CG2	3:MD:112:LEU:HD11	2.47	0.44
3:LC:56:SER:OG	3:LC:57:ARG:N	2.50	0.44
3:LE:81:ASP:O	3:LE:83:SER:N	2.47	0.44
3:LF:21:LEU:HB3	3:LF:35:LEU:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:104:GLU:O	3:LF:108:VAL:HG22	2.17	0.44
3:LG:91:ASP:O	3:MG:92:VAL:HA	2.16	0.44
3:LI:60:LYS:HB3	3:LI:61:ASN:OD1	2.16	0.44
3:LL:86:ARG:NH2	3:MB:100:SER:HA	2.33	0.44
3:MA:30:ASN:CG	3:MA:32:VAL:HG23	2.38	0.44
3:MC:127:GLN:HA	3:MC:127:GLN:OE1	2.17	0.44
3:ME:60:LYS:HE2	3:ME:60:LYS:HA	1.99	0.44
3:MI:54:GLN:OE1	3:MI:55:PRO:HD3	2.18	0.44
3:ND:32:VAL:O	3:ND:32:VAL:HG23	2.16	0.44
3:NH:84:VAL:O	3:NH:84:VAL:HG23	2.16	0.44
1:A:462:U:H2'	1:A:463:C:C6	2.52	0.44
1:A:491:A:H2'	1:A:492:U:O4'	2.16	0.44
1:A:732:C:C2'	1:A:733:U:O5'	2.65	0.44
1:A:960:G:OP2	1:A:1050:C:C4	2.70	0.44
1:A:1197:U:C2	1:A:1198:U:C6	3.06	0.44
1:A:1367:U:OP1	3:CD:61:ASN:CG	2.55	0.44
1:A:1422:G:H2'	1:A:1423:U:C6	2.52	0.44
1:A:1842:U:H2'	1:A:1843:G:O4'	2.17	0.44
1:A:1906:C:N3	1:A:2010:A:N6	2.65	0.44
1:A:2052:G:H22	1:A:2056:C:H41	1.64	0.44
1:A:2249:C:C2	1:A:2250:G:O6	2.70	0.44
1:A:2389:C:H42	1:A:2390:A:N6	2.16	0.44
1:A:2427:G:H5"	1:A:2866:A:C5'	2.47	0.44
1:A:2483:G:H2'	1:A:2484:C:C6	2.53	0.44
1:A:2492:C:C4	1:A:2584:A:C2	3.05	0.44
1:A:2495:U:C2	1:A:2524:G:N2	2.85	0.44
1:A:2520:C:H2'	1:A:2521:C:H6	1.82	0.44
1:A:2547:U:N3	1:A:2568:G:N1	2.66	0.44
1:A:2637:U:C2	1:A:2638:U:C5	3.05	0.44
1:A:2766:A:O2'	1:A:2767:U:O2	2.32	0.44
1:A:3002:G:O6	1:A:3389:A:C4	2.71	0.44
1:A:3039:A:H2'	1:A:3040:U:O4'	2.18	0.44
1:A:3809:G:C5	3:KH:58:ASN:ND2	2.85	0.44
2:M:324:PHE:O	2:M:414:THR:HG21	2.17	0.44
3:B:27:ASN:O	3:B:29:THR:N	2.44	0.44
3:BA:64:VAL:HG11	3:MK:125:ILE:HG12	1.99	0.44
3:BB:11:ILE:HD11	3:MA:111:GLU:HB3	1.98	0.44
3:BB:26:VAL:HG11	3:MA:132:TYR:HE1	1.76	0.44
3:BE:97:THR:N	3:BE:100:SER:OG	2.50	0.44
3:BF:27:ASN:OD1	3:BF:29:THR:N	2.36	0.44
3:BF:29:THR:OG1	3:BF:30:ASN:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:125:ILE:HD13	3:IL:94:PHE:HE2	1.82	0.44
3:CB:61:ASN:HA	3:CB:96:PHE:O	2.16	0.44
3:CH:111:GLU:O	3:CH:115:LEU:HG	2.17	0.44
3:CK:63:LYS:HG3	3:CK:65:GLN:OE1	2.17	0.44
3:CK:128:LEU:HD23	3:NC:62:TYR:CD1	2.52	0.44
3:CN:55:PRO:HD3	3:CN:62:TYR:CD1	2.52	0.44
3:CN:131:ALA:HA	3:DD:1:ALA:HB3	1.99	0.44
3:DG:100:SER:N	3:EJ:86:ARG:HH12	2.15	0.44
3:DK:14:ASP:OD2	3:DK:16:LYS:HB3	2.17	0.44
3:DL:111:GLU:CA	3:MN:11:ILE:HD11	2.48	0.44
3:DM:79:SER:HA	3:MN:75:THR:O	2.18	0.44
3:EA:86:ARG:NH1	3:EA:86:ARG:HG2	2.32	0.44
3:EA:110:THR:CB	3:LM:11:ILE:HD12	2.47	0.44
3:ED:21:LEU:CD1	3:ED:48:VAL:HG21	2.47	0.44
3:EH:116:LEU:HD23	3:EH:116:LEU:C	2.38	0.44
3:EJ:55:PRO:CG	3:EJ:62:TYR:CE1	3.00	0.44
3:FA:108:VAL:HA	3:FA:111:GLU:OE1	2.17	0.44
3:FD:105:ARG:NE	3:LH:126:ASP:O	2.47	0.44
3:FF:79:SER:O	3:FF:80:CYS:CB	2.65	0.44
3:FI:64:VAL:CG2	3:KE:125:ILE:HD12	2.47	0.44
3:FJ:106:ALA:CA	3:FJ:109:ARG:NH1	2.81	0.44
3:FK:24:ARG:NH2	3:FK:24:ARG:O	2.51	0.44
3:FK:43:ALA:C	3:FK:44:LEU:HD12	2.38	0.44
3:FN:8:LEU:HB2	3:FN:19:LEU:HB3	1.99	0.44
3:GB:53:SER:HB3	3:GB:59:ARG:NH1	2.32	0.44
3:GC:62:TYR:CE2	3:GC:64:VAL:HG23	2.53	0.44
3:GD:13:LYS:NZ	3:KF:103:GLU:HA	2.32	0.44
3:GD:60:LYS:O	3:GD:98:GLN:CG	2.65	0.44
3:GD:109:ARG:HD2	3:KF:125:ILE:HG21	1.98	0.44
3:GD:128:LEU:HD23	3:KF:62:TYR:CG	2.51	0.44
3:GF:111:GLU:N	3:KD:11:ILE:HD11	2.32	0.44
3:GG:128:LEU:O	3:JF:24:ARG:NH1	2.51	0.44
3:GK:11:ILE:HD11	3:JA:111:GLU:N	2.32	0.44
3:GL:68:ILE:HG22	3:GL:90:ALA:HB3	1.98	0.44
3:GM:34:SER:C	3:GM:35:LEU:HD22	2.38	0.44
3:HM:127:GLN:HB2	3:HM:129:ASN:OD1	2.17	0.44
3:IF:131:ALA:O	3:IF:132:TYR:CD1	2.71	0.44
3:II:96:PHE:CE2	3:II:105:ARG:HG2	2.53	0.44
3:IJ:103:GLU:HA	3:NE:13:LYS:NZ	2.32	0.44
3:IJ:111:GLU:CG	3:NE:68:ILE:HD11	2.47	0.44
3:IL:37:GLN:HB2	3:IL:46:LYS:HE2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JA:97:THR:N	3:JA:100:SER:OG	2.50	0.44
3:JK:30:ASN:OD1	3:JK:32:VAL:HG23	2.17	0.44
3:KA:24:ARG:HB2	3:KA:34:SER:O	2.16	0.44
3:KB:81:ASP:OD1	3:KD:99:TYR:CD2	2.70	0.44
3:KB:121:LEU:O	3:KB:125:ILE:HG12	2.17	0.44
3:KH:95:SER:OG	3:KL:89:TYR:HB2	2.17	0.44
3:KH:115:LEU:HG	3:KL:8:LEU:HD21	1.98	0.44
3:KK:96:PHE:CD1	3:KK:105:ARG:HG2	2.52	0.44
3:LF:107:PHE:O	3:LF:110:THR:OG1	2.29	0.44
3:LH:24:ARG:C	3:MG:130:PRO:HG2	2.38	0.44
3:LJ:87:GLN:O	3:LJ:89:TYR:CE1	2.71	0.44
3:LL:13:LYS:HD3	3:MB:106:ALA:HB3	1.99	0.44
3:LM:120:LEU:O	3:LM:123:ASP:OD2	2.36	0.44
3:LN:109:ARG:HD3	3:MI:116:LEU:O	2.17	0.44
3:LN:130:PRO:HA	3:MI:52:VAL:HG12	1.99	0.44
3:MA:6:VAL:CG1	3:MA:8:LEU:HD21	2.46	0.44
3:ME:110:THR:OG1	3:NH:11:ILE:HD12	2.17	0.44
3:MF:123:ASP:OD2	3:MF:123:ASP:O	2.35	0.44
3:MK:96:PHE:HB3	3:MK:100:SER:OG	2.17	0.44
3:MN:32:VAL:HG22	3:MN:51:SER:OG	2.17	0.44
3:NE:44:LEU:HD22	3:NG:98:GLN:O	2.17	0.44
1:A:359:A:H4'	1:A:360:C:OP2	2.17	0.44
1:A:934:C:H4'	3:BI:61:ASN:ND2	2.33	0.44
1:A:968:C:N4	1:A:1045:G:H1'	2.32	0.44
1:A:1217:A:H5'	3:HN:59:ARG:HH22	1.82	0.44
1:A:1253:A:O2'	1:A:1254:U:OP1	2.28	0.44
1:A:1300:U:H5"	1:A:1301:U:H5'	1.99	0.44
1:A:1317:G:N2	1:A:1318:C:C2	2.85	0.44
1:A:1374:A:H2'	1:A:1375:A:C8	2.53	0.44
1:A:1767:G:C6	1:A:1817:G:O6	2.71	0.44
1:A:1882:C:C2	1:A:1883:U:C5	3.05	0.44
1:A:2158:U:H5"	3:HE:60:LYS:HE3	1.99	0.44
1:A:2181:U:H2'	1:A:2182:C:C6	2.53	0.44
1:A:2214:G:H2'	1:A:2215:G:C8	2.50	0.44
1:A:3012:U:P	1:A:3068:U:OP1	2.75	0.44
1:A:3146:C:C2	1:A:3168:G:N2	2.85	0.44
1:A:3169:U:H1'	1:A:3213:G:H5"	1.99	0.44
1:A:3171:G:H2'	1:A:3172:A:C8	2.52	0.44
1:A:3297:A:H8	1:A:3297:A:O5'	2.01	0.44
1:A:3473:U:H2'	1:A:3474:U:C6	2.53	0.44
1:A:3507:A:O2'	3:KJ:56:SER:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3630:A:H2'	1:A:3631:A:N9	2.32	0.44
1:A:3682:A:N1	1:A:3759:G:C6	2.86	0.44
1:A:4134:C:H2'	1:A:4135:C:O4'	2.17	0.44
1:A:4163:A:H3'	1:A:4164:U:H5	1.82	0.44
2:M:159:TYR:CE2	2:M:220:VAL:HG21	2.52	0.44
3:BC:44:LEU:HD11	3:BC:73:ALA:HB3	1.98	0.44
3:BD:26:VAL:O	3:BD:26:VAL:HG13	2.17	0.44
3:BD:132:TYR:O	3:JB:2:LYS:HE2	2.17	0.44
3:BH:11:ILE:HD12	3:IL:110:THR:CB	2.47	0.44
3:BL:62:TYR:CZ	3:BL:98:GLN:OE1	2.70	0.44
3:CB:95:SER:OG	3:HC:89:TYR:HB2	2.17	0.44
3:CB:111:GLU:HA	3:HC:11:ILE:HD11	1.99	0.44
3:CE:21:LEU:HB3	3:CE:35:LEU:HB3	1.99	0.44
3:CI:120:LEU:HD23	3:CI:121:LEU:HD23	1.99	0.44
3:CJ:74:CYS:O	3:CJ:74:CYS:SG	2.76	0.44
3:CJ:130:PRO:HA	3:HJ:52:VAL:HG12	1.98	0.44
3:CM:131:ALA:HB1	3:NA:3:LEU:HD21	1.99	0.44
3:DA:99:TYR:O	3:DA:99:TYR:CD1	2.70	0.44
3:DB:35:LEU:HD12	3:DB:35:LEU:N	2.32	0.44
3:DC:44:LEU:CD2	3:DE:98:GLN:O	2.65	0.44
3:DD:11:ILE:CG2	3:DD:17:GLN:HB2	2.48	0.44
3:DD:46:LYS:HG2	3:DD:70:ASN:OD1	2.17	0.44
3:DF:2:LYS:O	3:DF:4:GLU:OE1	2.35	0.44
3:DK:84:VAL:HG23	3:DK:84:VAL:O	2.17	0.44
3:DK:127:GLN:HB2	3:DK:129:ASN:OD1	2.17	0.44
3:DN:132:TYR:OH	3:MK:26:VAL:O	2.33	0.44
3:EA:106:ALA:HB3	3:LM:13:LYS:HD3	1.99	0.44
3:EB:87:GLN:HB2	3:EB:89:TYR:CE1	2.53	0.44
3:EC:3:LEU:HD23	3:LK:132:TYR:N	2.32	0.44
3:EC:116:LEU:O	3:LK:109:ARG:HD3	2.17	0.44
3:ED:81:ASP:OD1	3:EF:99:TYR:CG	2.71	0.44
3:EI:60:LYS:HZ3	3:EI:98:GLN:HB2	1.81	0.44
3:EK:122:ILE:O	3:EK:126:ASP:HB2	2.16	0.44
3:EN:98:GLN:HE21	3:FA:43:ALA:HA	1.81	0.44
3:FA:4:GLU:CD	3:FA:5:THR:N	2.71	0.44
3:FE:128:LEU:HD11	3:KI:105:ARG:NE	2.33	0.44
3:FF:74:CYS:HA	3:LG:80:CYS:HB3	1.98	0.44
3:FH:37:GLN:NE2	3:FH:46:LYS:HE3	2.33	0.44
3:FI:63:LYS:HZ1	3:FI:93:THR:CA	2.29	0.44
3:FI:106:ALA:HB2	3:KE:126:ASP:OD1	2.17	0.44
3:FM:11:ILE:CG2	3:FM:17:GLN:HB2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FM:122:ILE:HG13	3:FM:123:ASP:N	2.32	0.44
3:FN:63:LYS:HE2	3:FN:63:LYS:HA	2.00	0.44
3:FN:120:LEU:O	3:FN:123:ASP:OD1	2.35	0.44
3:GD:55:PRO:HB3	3:GD:60:LYS:O	2.17	0.44
3:GD:110:THR:OG1	3:KF:11:ILE:CG2	2.63	0.44
3:GE:99:TYR:HB2	3:HE:86:ARG:NH1	2.33	0.44
3:GE:106:ALA:N	3:HE:126:ASP:OD1	2.51	0.44
3:GE:112:LEU:HD11	3:HE:92:VAL:HG21	2.00	0.44
3:GH:100:SER:HA	3:GH:104:GLU:OE2	2.17	0.44
3:GJ:111:GLU:HA	3:GN:8:LEU:HD21	2.00	0.44
3:GK:62:TYR:CD2	3:JA:128:LEU:HD11	2.52	0.44
3:GK:100:SER:C	3:JA:86:ARG:NH2	2.71	0.44
3:HD:32:VAL:HG12	3:HD:51:SER:HB2	1.99	0.44
3:HI:79:SER:O	3:HI:80:CYS:CB	2.65	0.44
3:HI:86:ARG:HH22	3:II:101:THR:HG23	1.82	0.44
3:HM:101:THR:CG2	3:HM:103:GLU:HB2	2.47	0.44
3:IB:105:ARG:CD	3:IK:128:LEU:HD11	2.48	0.44
3:IF:130:PRO:HB2	3:IF:132:TYR:CE2	2.52	0.44
3:II:3:LEU:HD21	3:IK:2:LYS:HD2	2.00	0.44
3:IJ:11:ILE:CG2	3:IJ:17:GLN:HB2	2.46	0.44
3:IJ:111:GLU:N	3:NE:11:ILE:HD11	2.33	0.44
3:JA:6:VAL:CG1	3:JA:8:LEU:HD21	2.47	0.44
3:JD:8:LEU:HD11	3:JH:114:ALA:HB1	1.99	0.44
3:JD:115:LEU:CD2	3:JH:8:LEU:HD11	2.46	0.44
3:JG:19:LEU:HD21	3:LD:107:PHE:CZ	2.52	0.44
3:JG:110:THR:CB	3:LD:11:ILE:HD12	2.47	0.44
3:JG:127:GLN:N	3:JG:127:GLN:OE1	2.50	0.44
3:JJ:32:VAL:HA	3:JJ:51:SER:OG	2.18	0.44
3:JK:125:ILE:HD13	3:KN:64:VAL:HG11	1.99	0.44
3:KC:91:ASP:O	3:LC:92:VAL:HA	2.17	0.44
3:KC:105:ARG:CD	3:LC:128:LEU:HD11	2.46	0.44
3:KE:19:LEU:HD12	3:KE:37:GLN:HE22	1.82	0.44
3:KG:22:ASN:HB3	3:KG:23:PRO:HD2	1.99	0.44
3:KH:30:ASN:OD1	3:KH:32:VAL:HG23	2.16	0.44
3:LD:6:VAL:HG12	3:LD:8:LEU:CD2	2.47	0.44
3:LG:76:ALA:HA	3:MH:79:SER:HA	2.00	0.44
3:LJ:55:PRO:HD3	3:LJ:62:TYR:CD1	2.52	0.44
3:MD:55:PRO:HD3	3:MD:62:TYR:CE2	2.51	0.44
3:ME:26:VAL:HG21	3:NH:132:TYR:HE2	1.82	0.44
3:ME:106:ALA:HB3	3:NH:13:LYS:CD	2.47	0.44
3:MI:3:LEU:HD23	3:MI:23:PRO:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NA:101:THR:HG23	3:NA:104:GLU:OE1	2.17	0.44
3:NA:120:LEU:N	3:NA:120:LEU:HD22	2.32	0.44
3:NB:62:TYR:HD1	3:NF:128:LEU:HD23	1.82	0.44
3:NB:98:GLN:HE22	3:NC:42:PRO:HB2	1.82	0.44
3:NH:11:ILE:CG2	3:NH:17:GLN:HB2	2.47	0.44
1:A:230:U:C5	1:A:231:A:N7	2.85	0.44
1:A:316:U:H4'	1:A:360:C:H2'	2.00	0.44
1:A:711:C:C2	1:A:712:A:C8	3.06	0.44
1:A:1022:U:O4	3:NG:59:ARG:NH2	2.50	0.44
1:A:1226:A:N7	1:A:1227:U:N3	2.65	0.44
1:A:1363:U:H2'	1:A:1364:U:C6	2.53	0.44
1:A:1494:G:C2	1:A:1495:U:C2	3.06	0.44
1:A:1508:G:O5'	1:A:1509:C:OP1	2.36	0.44
1:A:1994:U:C2	1:A:1995:U:C5	3.04	0.44
1:A:2024:U:C2	1:A:2025:U:C6	3.06	0.44
1:A:2207:C:C2	1:A:2208:G:C8	3.06	0.44
1:A:2502:G:C6	1:A:2517:A:N1	2.85	0.44
1:A:2923:G:C6	1:A:2924:A:C6	3.05	0.44
1:A:2931:A:H2'	1:A:2932:C:O4'	2.17	0.44
1:A:3040:U:H4'	1:A:3043:U:C4	2.53	0.44
1:A:3300:U:O2	1:A:3320:G:C6	2.68	0.44
1:A:3513:U:O2	1:A:3515:U:O4	2.36	0.44
1:A:3684:U:C2	1:A:3756:G:N1	2.85	0.44
1:A:3705:A:N6	1:A:3733:A:N7	2.65	0.44
1:A:3955:C:H2'	1:A:3956:U:O4'	2.18	0.44
1:A:4133:G:C6	1:A:4134:C:C4	3.05	0.44
1:A:4156:A:H5"	1:A:4157:U:OP1	2.18	0.44
3:BA:24:ARG:HA	3:ND:129:ASN:HD22	1.82	0.44
3:BB:79:SER:HA	3:MK:75:THR:O	2.18	0.44
3:BD:11:ILE:HD12	3:JB:110:THR:HB	1.98	0.44
3:BG:97:THR:HG22	3:BG:100:SER:OG	2.17	0.44
3:BN:104:GLU:OE2	3:BN:104:GLU:HA	2.17	0.44
3:CA:56:SER:OG	3:CA:59:ARG:HG3	2.18	0.44
3:CA:123:ASP:OD1	3:CA:129:ASN:HB2	2.16	0.44
3:CB:86:ARG:NH1	3:HC:100:SER:HA	2.32	0.44
3:CH:112:LEU:O	3:CH:112:LEU:HD23	2.17	0.44
3:CI:4:GLU:OE1	3:CI:5:THR:N	2.50	0.44
3:CI:52:VAL:HB	3:DI:130:PRO:HG3	1.99	0.44
3:CI:60:LYS:HE2	3:CI:60:LYS:HA	2.00	0.44
3:CJ:55:PRO:HG3	3:CJ:62:TYR:CZ	2.53	0.44
3:CK:132:TYR:CE1	3:NC:26:VAL:HG11	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:67:LYS:O	3:CL:68:ILE:HD13	2.18	0.44
3:CL:132:TYR:HE1	3:HJ:2:LYS:HZ1	1.65	0.44
3:CM:109:ARG:CZ	3:NA:122:ILE:HG12	2.47	0.44
3:DB:92:VAL:HA	3:DK:91:ASP:O	2.18	0.44
3:DC:68:ILE:HD11	3:EN:111:GLU:CD	2.37	0.44
3:DC:112:LEU:HD11	3:EN:92:VAL:HG21	1.98	0.44
3:DD:120:LEU:HD23	3:DD:120:LEU:C	2.37	0.44
3:DG:13:LYS:HZ3	3:EJ:103:GLU:CA	2.21	0.44
3:DG:52:VAL:CG1	3:EJ:130:PRO:HG3	2.47	0.44
3:DJ:115:LEU:HB3	3:DJ:121:LEU:CD1	2.48	0.44
3:DL:67:LYS:HG3	3:DL:91:ASP:OD1	2.17	0.44
3:ED:66:VAL:HG21	3:EH:121:LEU:HD22	1.98	0.44
3:ED:119:PRO:HA	3:ED:122:ILE:CG1	2.46	0.44
3:EH:79:SER:O	3:GC:74:CYS:HB3	2.18	0.44
3:EI:122:ILE:HA	3:GA:109:ARG:HH12	1.82	0.44
3:EK:125:ILE:H	3:FM:109:ARG:HH22	1.64	0.44
3:EN:99:TYR:HD2	3:FA:81:ASP:OD1	2.01	0.44
3:FB:63:LYS:CE	3:FB:93:THR:HG23	2.48	0.44
3:FC:41:VAL:HG11	3:FC:44:LEU:HD13	1.99	0.44
3:FE:8:LEU:HD22	3:KI:115:LEU:HD21	1.98	0.44
3:FE:103:GLU:HA	3:KI:13:LYS:HZ3	1.80	0.44
3:FH:61:ASN:HA	3:FH:96:PHE:O	2.17	0.44
3:FJ:107:PHE:CZ	3:HF:19:LEU:HD21	2.53	0.44
3:FL:13:LYS:HZ2	3:HD:102:ASP:C	2.20	0.44
3:FL:69:GLN:OE1	3:FL:71:PRO:HD3	2.17	0.44
3:FL:116:LEU:HD11	3:HD:109:ARG:HG3	2.00	0.44
3:GA:123:ASP:N	3:GA:123:ASP:OD1	2.49	0.44
3:GC:23:PRO:HA	3:GC:35:LEU:HD23	1.99	0.44
3:GD:55:PRO:HD3	3:GD:62:TYR:CE2	2.53	0.44
3:GG:13:LYS:HZ3	3:JE:103:GLU:HA	1.82	0.44
3:GH:107:PHE:C	3:GH:111:GLU:OE1	2.56	0.44
3:GK:115:LEU:O	3:GK:115:LEU:HD12	2.17	0.44
3:HE:114:ALA:O	3:HE:118:SER:OG	2.19	0.44
3:HG:123:ASP:HA	3:HG:127:GLN:OE1	2.18	0.44
3:HN:49:THR:OG1	3:HN:67:LYS:HB2	2.17	0.44
3:ID:6:VAL:HG12	3:ID:8:LEU:HD22	2.00	0.44
3:IG:121:LEU:O	3:IG:125:ILE:HG12	2.17	0.44
3:IH:88:ALA:HB2	3:NG:104:GLU:OE1	2.17	0.44
3:IL:65:GLN:OE1	3:IL:93:THR:HG23	2.18	0.44
3:IM:84:VAL:HG13	3:IM:87:GLN:OE1	2.17	0.44
3:JF:84:VAL:O	3:JF:84:VAL:HG13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JF:102:ASP:OD1	3:JF:102:ASP:C	2.56	0.44
3:JK:23:PRO:HA	3:JK:35:LEU:HD23	1.99	0.44
3:KE:60:LYS:CB	3:KE:61:ASN:CB	2.94	0.44
3:KE:106:ALA:HA	3:KE:109:ARG:HG2	1.98	0.44
3:KM:129:ASN:ND2	3:MD:24:ARG:HE	2.16	0.44
3:LA:48:VAL:HG11	3:MD:115:LEU:HD21	1.99	0.44
3:LB:59:ARG:HG3	3:LB:61:ASN:OD1	2.18	0.44
3:LC:23:PRO:HA	3:LC:35:LEU:HD23	2.00	0.44
3:LC:55:PRO:HD3	3:LC:62:TYR:CE1	2.51	0.44
3:LD:121:LEU:O	3:LD:125:ILE:HG22	2.17	0.44
3:LF:120:LEU:HD12	3:LF:120:LEU:N	2.32	0.44
3:LL:114:ALA:CB	3:MB:8:LEU:CD2	2.95	0.44
3:LM:63:LYS:NZ	3:LM:94:PHE:O	2.50	0.44
3:MC:116:LEU:HD21	3:NJ:112:LEU:CD2	2.45	0.44
3:MG:56:SER:OG	3:MG:59:ARG:NE	2.51	0.44
3:ML:4:GLU:O	3:ML:6:VAL:HG23	2.17	0.44
3:NC:96:PHE:CE2	3:NC:105:ARG:CG	3.00	0.44
3:NF:41:VAL:HB	3:NF:44:LEU:HD13	1.98	0.44
3:NF:47:ARG:HG3	3:NF:47:ARG:HH11	1.82	0.44
3:NG:6:VAL:HG12	3:NG:8:LEU:HD23	2.00	0.44
3:NH:102:ASP:OD1	3:NI:40:ALA:HB1	2.17	0.44
1:A:64:C:H2'	1:A:65:C:C6	2.52	0.44
1:A:100:A:H5'	1:A:113:A:H2	1.83	0.44
1:A:396:C:H2'	1:A:397:A:C8	2.52	0.44
1:A:707:A:C6	1:A:726:G:C6	3.05	0.44
1:A:739:A:O2'	1:A:740:A:O5'	2.36	0.44
1:A:759:A:H2	1:A:760:C:H41	1.65	0.44
1:A:1024:G:H2'	1:A:1025:U:O4'	2.17	0.44
1:A:1122:G:H2'	1:A:1123:C:O4'	2.16	0.44
1:A:1226:A:H2'	1:A:1227:U:O4'	2.17	0.44
1:A:1459:C:H2'	1:A:1460:G:C8	2.53	0.44
1:A:1470:C:H2'	1:A:1471:C:O4'	2.17	0.44
1:A:1593:U:H3'	1:A:1594:C:C5'	2.47	0.44
1:A:1631:G:C6	1:A:1632:U:C4	3.05	0.44
1:A:1765:G:H2'	1:A:1766:U:O4'	2.17	0.44
1:A:2058:A:O2'	1:A:2059:C:O4'	2.35	0.44
1:A:2447:C:C5	1:A:2448:A:N7	2.85	0.44
1:A:2488:U:C2'	1:A:2489:U:O4'	2.63	0.44
1:A:2766:A:OP2	3:EN:59:ARG:O	2.35	0.44
1:A:2914:U:C4	1:A:2915:A:N7	2.86	0.44
1:A:3120:A:O4'	1:A:3120:A:OP2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3468:G:H22	3:KI:57:ARG:NE	2.15	0.44
1:A:3539:G:N3	1:A:3539:G:H2'	2.32	0.44
1:A:3545:C:O2'	1:A:3546:A:P	2.76	0.44
1:A:3658:A:H2'	1:A:3659:C:C6	2.53	0.44
1:A:3722:G:HO2'	1:A:3723:C:P	2.39	0.44
1:A:3744:G:N1	1:A:3745:A:C5	2.86	0.44
1:A:3796:C:N4	1:A:3806:C:H42	2.16	0.44
1:A:3798:A:C4	1:A:3800:A:OP2	2.70	0.44
1:A:3923:G:C2	1:A:3924:U:C2	3.05	0.44
1:A:3951:G:C6	1:A:3952:A:C5	3.06	0.44
1:A:4166:A:H2'	1:A:4167:C:O4'	2.18	0.44
2:M:30:GLU:OE1	2:M:32:SER:OG	2.27	0.44
3:B:8:LEU:HD13	3:D:114:ALA:HB3	2.00	0.44
3:BA:74:CYS:SG	3:BA:85:THR:HG21	2.58	0.44
3:BB:96:PHE:HB3	3:BB:100:SER:OG	2.18	0.44
3:BD:97:THR:O	3:BD:100:SER:N	2.49	0.44
3:BE:37:GLN:O	3:BE:45:GLU:OE1	2.36	0.44
3:BI:11:ILE:HD11	3:HM:111:GLU:N	2.32	0.44
3:BI:34:SER:C	3:BI:35:LEU:HD22	2.37	0.44
3:BJ:86:ARG:NH2	3:BN:100:SER:HA	2.33	0.44
3:BK:97:THR:N	3:BK:100:SER:OG	2.50	0.44
3:BM:116:LEU:HD23	3:BM:116:LEU:C	2.38	0.44
3:CA:132:TYR:CE2	3:CC:132:TYR:CE1	3.06	0.44
3:CC:109:ARG:CZ	3:DF:122:ILE:HD13	2.48	0.44
3:CK:24:ARG:NE	3:CK:24:ARG:HA	2.32	0.44
3:DB:3:LEU:HD23	3:DK:132:TYR:N	2.33	0.44
3:DB:32:VAL:HG23	3:DB:51:SER:HB3	1.98	0.44
3:DK:37:GLN:O	3:DK:45:GLU:OE1	2.36	0.44
3:EC:11:ILE:HG12	3:LK:111:GLU:OE1	2.17	0.44
3:EF:46:LYS:NZ	3:FA:107:PHE:CE2	2.85	0.44
3:EJ:6:VAL:HG12	3:EJ:8:LEU:CD2	2.48	0.44
3:EJ:81:ASP:OD1	3:EL:99:TYR:CD1	2.71	0.44
3:EJ:112:LEU:O	3:EJ:116:LEU:CD1	2.66	0.44
3:FB:107:PHE:O	3:FB:111:GLU:HG2	2.17	0.44
3:FC:62:TYR:CE2	3:GB:128:LEU:HB3	2.52	0.44
3:FD:19:LEU:HD12	3:FD:37:GLN:CD	2.38	0.44
3:FG:13:LYS:HD2	3:KG:103:GLU:HA	2.00	0.44
3:FG:22:ASN:OD1	3:FG:23:PRO:HD2	2.18	0.44
3:FG:54:GLN:HB3	3:FG:55:PRO:HD2	1.99	0.44
3:FI:55:PRO:HB3	3:FI:61:ASN:N	2.32	0.44
3:FJ:116:LEU:HD11	3:HF:109:ARG:HG2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FJ:128:LEU:HD11	3:HF:105:ARG:CD	2.48	0.44
3:FK:96:PHE:CE1	3:FK:105:ARG:CB	3.00	0.44
3:FL:13:LYS:NZ	3:HD:102:ASP:O	2.51	0.44
3:FN:125:ILE:HD12	3:HB:94:PHE:HD2	1.77	0.44
3:GF:120:LEU:HD12	3:GF:120:LEU:N	2.33	0.44
3:GH:115:LEU:HB3	3:GH:121:LEU:HD11	1.99	0.44
3:GI:111:GLU:OE1	3:JC:19:LEU:HD22	2.17	0.44
3:GJ:105:ARG:O	3:GJ:108:VAL:HG12	2.18	0.44
3:GL:127:GLN:HB2	3:GL:129:ASN:OD1	2.17	0.44
3:GN:32:VAL:HA	3:GN:51:SER:OG	2.17	0.44
3:GN:55:PRO:CD	3:GN:62:TYR:CE2	3.00	0.44
3:HA:56:SER:N	3:HA:60:LYS:HA	2.33	0.44
3:HB:84:VAL:O	3:HB:84:VAL:HG23	2.18	0.44
3:HC:100:SER:OG	3:HC:105:ARG:NH1	2.40	0.44
3:HE:132:TYR:HH	3:KD:132:TYR:HH	1.56	0.44
3:HF:6:VAL:HG12	3:HF:8:LEU:CD2	2.48	0.44
3:HH:122:ILE:HG23	3:HH:123:ASP:N	2.33	0.44
3:HN:128:LEU:CD2	3:ID:62:TYR:CD2	3.01	0.44
3:IB:52:VAL:CG2	3:IB:64:VAL:HG22	2.46	0.44
3:IB:107:PHE:CZ	3:IK:19:LEU:HD21	2.53	0.44
3:IC:81:ASP:CG	3:IE:99:TYR:CD2	2.90	0.44
3:IC:132:TYR:C	3:JN:2:LYS:HZ3	2.18	0.44
3:ID:62:TYR:HE2	3:IE:42:PRO:HG2	1.83	0.44
3:IF:62:TYR:HE2	3:IG:42:PRO:HG2	1.82	0.44
3:IH:115:LEU:HD23	3:NG:68:ILE:HD11	1.99	0.44
3:IJ:125:ILE:CG2	3:IJ:126:ASP:N	2.80	0.44
3:JC:60:LYS:HB3	3:JC:98:GLN:CD	2.37	0.44
3:JF:55:PRO:HB3	3:JF:60:LYS:HD2	2.00	0.44
3:JG:91:ASP:OD1	3:JG:91:ASP:O	2.35	0.44
3:JI:122:ILE:CG1	3:LB:109:ARG:HH12	2.31	0.44
3:JK:55:PRO:HD3	3:JK:62:TYR:CE1	2.52	0.44
3:JK:64:VAL:HG11	3:KN:125:ILE:HD13	1.99	0.44
3:JK:78:GLY:O	3:JK:80:CYS:N	2.49	0.44
3:JK:111:GLU:OE1	3:KN:8:LEU:HD23	2.18	0.44
3:JM:60:LYS:H	3:JM:61:ASN:CB	2.24	0.44
3:KC:105:ARG:NE	3:LC:128:LEU:HD11	2.33	0.44
3:KH:91:ASP:OD1	3:KH:91:ASP:O	2.36	0.44
3:KL:120:LEU:HD23	3:KL:120:LEU:C	2.38	0.44
3:KN:59:ARG:HA	3:KN:59:ARG:NE	2.32	0.44
3:LA:48:VAL:HG13	3:LA:68:ILE:HD13	1.99	0.44
3:ME:111:GLU:OE2	3:ME:115:LEU:CD2	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MG:56:SER:OG	3:MG:59:ARG:CZ	2.66	0.44
3:MJ:27:ASN:ND2	3:MJ:30:ASN:OD1	2.51	0.44
3:MK:11:ILE:CG2	3:MK:17:GLN:HB2	2.47	0.44
3:MK:48:VAL:HG13	3:MK:68:ILE:HD11	1.96	0.44
3:NB:8:LEU:HD11	3:NF:115:LEU:HD22	2.00	0.44
3:NI:98:GLN:OE1	3:NI:99:TYR:CE1	2.70	0.44
1:A:96:C:H2'	1:A:97:G:C8	2.52	0.44
1:A:97:G:O2'	3:MJ:57:ARG:CD	2.65	0.44
1:A:128:U:H2'	1:A:129:C:C6	2.52	0.44
1:A:132:G:H2'	1:A:133:U:O2	2.17	0.44
1:A:1058:C:H2'	1:A:1059:U:C6	2.53	0.44
1:A:1231:C:HO2'	1:A:1232:C:P	2.38	0.44
1:A:1435:A:C2	1:A:1436:C:H1'	2.52	0.44
1:A:1572:G:H2'	1:A:1573:C:O4'	2.18	0.44
1:A:1625:C:H2'	1:A:1626:U:O4'	2.17	0.44
1:A:1947:G:H2'	1:A:1948:U:O4'	2.18	0.44
1:A:2155:A:C6	1:A:2168:A:N6	2.85	0.44
1:A:2283:G:O5'	3:GN:58:ASN:O	2.36	0.44
1:A:2576:C:H2'	1:A:2577:A:N9	2.32	0.44
1:A:2633:G:H4'	3:GC:67:LYS:CE	2.48	0.44
1:A:2919:C:C2	1:A:2920:U:C6	3.06	0.44
1:A:3106:A:C5	1:A:3107:U:C5	3.06	0.44
1:A:3238:U:O2'	1:A:3239:U:O5'	2.33	0.44
1:A:3580:U:O3'	1:A:3582:U:C6	2.71	0.44
1:A:3705:A:C6	1:A:3734:U:O4	2.69	0.44
1:A:3857:G:H2'	1:A:3858:C:O4'	2.17	0.44
1:A:4052:C:H2'	1:A:4053:A:C8	2.52	0.44
1:A:4064:U:O2	1:A:4090:G:C6	2.71	0.44
1:A:4150:U:H2'	1:A:4151:U:C6	2.53	0.44
2:M:250:ASP:OD2	2:M:250:ASP:C	2.55	0.44
3:BH:109:ARG:HD3	3:IL:125:ILE:HG21	1.99	0.44
3:BI:11:ILE:CD1	3:HM:110:THR:OG1	2.62	0.44
3:BJ:92:VAL:HG11	3:BJ:94:PHE:CZ	2.53	0.44
3:BL:11:ILE:CD1	3:CG:111:GLU:N	2.80	0.44
3:BM:109:ARG:HD3	3:DJ:125:ILE:HD12	1.99	0.44
3:CB:52:VAL:O	3:CB:52:VAL:CG2	2.65	0.44
3:CD:42:PRO:HD2	3:CD:43:ALA:H	1.80	0.44
3:CE:123:ASP:OD1	3:CE:129:ASN:ND2	2.51	0.44
3:CI:96:PHE:CD2	3:CI:105:ARG:HG2	2.52	0.44
3:CL:125:ILE:HG23	3:CL:126:ASP:N	2.32	0.44
3:CM:56:SER:O	3:CM:60:LYS:HD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:54:GLN:HB3	3:DA:55:PRO:HD2	1.99	0.44
3:DB:92:VAL:HG22	3:DK:92:VAL:HG22	2.00	0.44
3:DG:11:ILE:HG23	3:DG:17:GLN:HB2	1.99	0.44
3:DH:52:VAL:O	3:DH:52:VAL:CG2	2.62	0.44
3:EA:41:VAL:N	3:EA:42:PRO:CD	2.81	0.44
3:EA:58:ASN:OD1	3:EA:59:ARG:N	2.50	0.44
3:EA:62:TYR:CD2	3:LM:128:LEU:HD23	2.53	0.44
3:EE:8:LEU:HD12	3:LI:114:ALA:HB3	1.97	0.44
3:EE:119:PRO:HA	3:EE:122:ILE:HD12	1.99	0.44
3:EJ:26:VAL:HG12	3:EJ:33:ALA:HA	2.00	0.44
3:EL:101:THR:CG2	3:EL:104:GLU:OE1	2.66	0.44
3:EN:115:LEU:HD23	3:EN:121:LEU:HD11	1.99	0.44
3:EN:115:LEU:HD23	3:EN:121:LEU:HD12	2.00	0.44
3:FB:96:PHE:CZ	3:LJ:88:ALA:HB1	2.52	0.44
3:FE:103:GLU:HA	3:KI:13:LYS:HE2	2.00	0.44
3:FF:11:ILE:HG23	3:LF:107:PHE:CE1	2.53	0.44
3:FF:79:SER:O	3:FF:80:CYS:HB3	2.16	0.44
3:FM:44:LEU:HD22	3:GA:98:GLN:O	2.17	0.44
3:FM:125:ILE:CG2	3:FM:126:ASP:N	2.80	0.44
3:GH:26:VAL:HG11	3:KB:132:TYR:OH	2.18	0.44
3:GJ:2:LYS:O	3:GN:120:LEU:HD11	2.18	0.44
3:GJ:102:ASP:OD1	3:GJ:103:GLU:OE1	2.35	0.44
3:GK:94:PHE:HB3	3:GK:96:PHE:CE1	2.53	0.44
3:GK:96:PHE:HB3	3:GK:100:SER:OG	2.17	0.44
3:GL:37:GLN:O	3:GL:45:GLU:CG	2.65	0.44
3:GL:125:ILE:CG2	3:GL:126:ASP:N	2.80	0.44
3:HH:108:VAL:HA	3:HH:111:GLU:CG	2.48	0.44
3:HM:11:ILE:HG23	3:HM:17:GLN:HB2	1.98	0.44
3:IH:46:LYS:HD3	3:IH:70:ASN:OD1	2.17	0.44
3:IN:24:ARG:NH1	3:JM:129:ASN:OD1	2.51	0.44
3:JA:122:ILE:HG13	3:JA:123:ASP:N	2.32	0.44
3:JC:44:LEU:HD21	3:JC:73:ALA:HB2	2.00	0.44
3:JJ:91:ASP:O	3:JJ:91:ASP:OD1	2.36	0.44
3:JK:54:GLN:HB3	3:JK:55:PRO:HD2	1.98	0.44
3:KH:101:THR:O	3:KH:104:GLU:HG2	2.18	0.44
3:KJ:98:GLN:OE1	3:KJ:99:TYR:CE1	2.71	0.44
3:KK:64:VAL:HG11	3:MH:125:ILE:HG13	1.98	0.44
3:KK:110:THR:CB	3:MH:11:ILE:HD12	2.47	0.44
3:KN:11:ILE:CG2	3:KN:17:GLN:HB2	2.47	0.44
3:KN:32:VAL:HG22	3:KN:51:SER:OG	2.18	0.44
3:KN:97:THR:N	3:KN:100:SER:OG	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LA:19:LEU:HD23	3:MD:111:GLU:OE1	2.18	0.44
3:LB:24:ARG:CZ	3:LB:36:SER:OG	2.65	0.44
3:LD:11:ILE:CG2	3:LD:17:GLN:HB2	2.48	0.44
3:LG:11:ILE:O	3:LG:17:GLN:OE1	2.34	0.44
3:LG:86:ARG:NH2	3:MG:99:TYR:O	2.50	0.44
3:LN:20:VAL:O	3:LN:37:GLN:HG2	2.18	0.44
3:ME:55:PRO:HD3	3:ME:62:TYR:CE2	2.53	0.44
3:MF:128:LEU:HD12	3:MF:128:LEU:N	2.32	0.44
3:MG:108:VAL:O	3:MG:112:LEU:HD23	2.18	0.44
3:MM:30:ASN:CG	3:MM:32:VAL:HG23	2.38	0.44
3:MN:74:CYS:SG	3:MN:85:THR:OG1	2.65	0.44
3:NB:98:GLN:HE21	3:NC:43:ALA:HA	1.82	0.44
3:NC:119:PRO:HA	3:NC:122:ILE:HD12	1.99	0.44
3:ND:97:THR:N	3:ND:100:SER:HG	2.15	0.44
3:NG:48:VAL:HG23	3:NG:48:VAL:O	2.18	0.44
1:A:38:C:H5"	1:A:39:U:OP1	2.17	0.44
1:A:77:G:OP1	3:BC:59:ARG:NH1	2.51	0.44
1:A:438:U:N3	3:MM:57:ARG:NH1	2.65	0.44
1:A:512:U:H2'	1:A:513:C:C1'	2.48	0.44
1:A:945:G:H2'	1:A:946:U:C6	2.53	0.44
1:A:1240:A:O2'	1:A:1243:C:O5'	2.31	0.44
1:A:1321:U:N3	1:A:1322:G:N7	2.65	0.44
1:A:1385:A:N1	1:A:1555:A:N3	2.65	0.44
1:A:1407:C:N3	3:EJ:57:ARG:NH1	2.65	0.44
1:A:1605:C:HO2'	1:A:1606:A:P	2.41	0.44
1:A:1662:G:C6	1:A:1663:C:C4	3.06	0.44
1:A:1954:U:HO2'	1:A:1955:C:H5	1.64	0.44
1:A:2128:C:H2'	1:A:2129:U:O4'	2.18	0.44
1:A:2300:U:N3	1:A:2301:A:C5	2.86	0.44
1:A:2427:G:H5"	1:A:2866:A:H5'	2.00	0.44
1:A:2581:C:H2'	1:A:2582:G:H8	1.83	0.44
1:A:2937:U:H2'	1:A:2938:U:C6	2.53	0.44
1:A:3306:A:C2	1:A:3312:U:C2	3.06	0.44
1:A:3467:G:H2'	1:A:3468:G:H8	1.83	0.44
1:A:3541:G:OP1	3:GD:57:ARG:HB2	2.17	0.44
1:A:3585:A:H3'	1:A:3586:U:H5	1.81	0.44
1:A:3608:U:C2	1:A:3646:G:N2	2.86	0.44
1:A:4035:A:H3'	1:A:4036:U:H5"	1.99	0.44
1:A:4143:C:H2'	1:A:4144:G:C8	2.52	0.44
3:D:62:TYR:CE2	3:D:98:GLN:HA	2.53	0.44
3:BC:132:TYR:OXT	3:ND:2:LYS:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:100:SER:HB3	3:BD:105:ARG:HH11	1.83	0.44
3:BE:41:VAL:O	3:BE:45:GLU:HG2	2.18	0.44
3:BE:118:SER:O	3:BE:122:ILE:HG12	2.16	0.44
3:BL:44:LEU:HD11	3:BL:73:ALA:HB2	2.00	0.44
3:BL:131:ALA:HA	3:CG:1:ALA:HB3	2.00	0.44
3:BM:122:ILE:HA	3:DJ:109:ARG:HH11	1.81	0.44
3:BN:65:GLN:HG2	3:BN:93:THR:HG22	2.00	0.44
3:CA:19:LEU:CD2	3:DH:111:GLU:OE2	2.66	0.44
3:CD:3:LEU:HD11	3:CD:35:LEU:HD11	1.99	0.44
3:CD:29:THR:OG1	3:CD:30:ASN:N	2.50	0.44
3:CD:48:VAL:HG23	3:CD:68:ILE:CG1	2.47	0.44
3:CF:105:ARG:CD	3:GM:128:LEU:HD11	2.48	0.44
3:CF:110:THR:HG23	3:GM:11:ILE:HD12	2.00	0.44
3:CI:94:PHE:HB3	3:CI:96:PHE:CE1	2.53	0.44
3:CJ:8:LEU:HA	3:CJ:8:LEU:HD12	1.67	0.44
3:CK:97:THR:N	3:CK:100:SER:OG	2.51	0.44
3:CN:112:LEU:CD2	3:DD:116:LEU:HD11	2.47	0.44
3:DA:32:VAL:HG22	3:DA:51:SER:OG	2.17	0.44
3:DB:60:LYS:O	3:DB:61:ASN:C	2.55	0.44
3:DB:105:ARG:CD	3:DK:128:LEU:HD11	2.48	0.44
3:DC:24:ARG:HB3	3:DC:34:SER:OG	2.17	0.44
3:DC:95:SER:OG	3:EN:89:TYR:HB2	2.17	0.44
3:DE:1:ALA:H1	3:EL:129:ASN:ND2	2.15	0.44
3:DK:96:PHE:CE2	3:DK:105:ARG:HD2	2.53	0.44
3:DL:97:THR:HG21	3:MN:86:ARG:HG2	2.00	0.44
3:DM:21:LEU:HD12	3:DM:21:LEU:N	2.33	0.44
3:DM:72:THR:HG21	3:DM:86:ARG:HD3	1.99	0.44
3:DN:120:LEU:N	3:DN:120:LEU:HD22	2.33	0.44
3:EB:103:GLU:OE2	3:MJ:13:LYS:HE2	2.18	0.44
3:EC:52:VAL:CG2	3:LK:130:PRO:HA	2.48	0.44
3:ED:128:LEU:CD2	3:EH:62:TYR:CD2	3.01	0.44
3:EF:8:LEU:HD21	3:FA:111:GLU:HA	1.98	0.44
3:EF:122:ILE:HD12	3:EF:122:ILE:H	1.82	0.44
3:EG:56:SER:N	3:EG:59:ARG:O	2.29	0.44
3:EN:120:LEU:HD23	3:EN:121:LEU:N	2.32	0.44
3:FC:21:LEU:HD23	3:FC:37:GLN:N	2.33	0.44
3:FC:68:ILE:CD1	3:GB:112:LEU:HD13	2.47	0.44
3:FD:39:GLY:O	3:GB:127:GLN:NE2	2.51	0.44
3:FH:58:ASN:OD1	3:FH:59:ARG:HG2	2.18	0.44
3:FH:86:ARG:CZ	3:FK:104:GLU:OE2	2.66	0.44
3:FH:128:LEU:CD2	3:FK:105:ARG:NH1	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FI:76:ALA:O	3:FI:78:GLY:N	2.46	0.44
3:FI:79:SER:HA	3:FK:75:THR:O	2.18	0.44
3:FJ:8:LEU:HD12	3:HF:114:ALA:HB3	1.98	0.44
3:FJ:118:SER:OG	3:FJ:119:PRO:HD2	2.17	0.44
3:FM:60:LYS:H	3:FM:61:ASN:CB	2.27	0.44
3:FN:2:LYS:HD2	3:HB:132:TYR:O	2.17	0.44
3:GB:3:LEU:HD21	3:GB:33:ALA:HB1	2.00	0.44
3:GD:95:SER:OG	3:KF:89:TYR:HB2	2.17	0.44
3:GD:110:THR:O	3:KF:11:ILE:HD12	2.17	0.44
3:GE:117:ALA:O	3:GE:122:ILE:HD11	2.17	0.44
3:GF:105:ARG:O	3:GF:108:VAL:HG12	2.18	0.44
3:GG:60:LYS:HB3	3:GG:61:ASN:CG	2.37	0.44
3:GH:48:VAL:HG13	3:GH:68:ILE:CD1	2.48	0.44
3:GH:101:THR:HG22	3:KB:86:ARG:NH2	2.33	0.44
3:GH:120:LEU:O	3:GH:123:ASP:OD1	2.36	0.44
3:GK:122:ILE:HD13	3:JA:109:ARG:HE	1.83	0.44
3:HG:29:THR:OG1	3:HG:30:ASN:N	2.51	0.44
3:HJ:55:PRO:HG3	3:HJ:62:TYR:CZ	2.53	0.44
3:HN:11:ILE:O	3:HN:17:GLN:OE1	2.35	0.44
3:HN:132:TYR:CZ	3:ID:26:VAL:HG21	2.52	0.44
3:IC:13:LYS:NZ	3:JN:102:ASP:OD1	2.51	0.44
3:IE:128:LEU:HD11	3:JL:105:ARG:HD3	2.00	0.44
3:IE:132:TYR:OXT	3:JL:2:LYS:HD3	2.18	0.44
3:IK:11:ILE:CG2	3:IK:17:GLN:HB2	2.48	0.44
3:IK:70:ASN:N	3:IK:87:GLN:OE1	2.51	0.44
3:IK:76:ALA:O	3:IK:79:SER:OG	2.29	0.44
3:IL:107:PHE:CD1	3:IL:111:GLU:OE2	2.71	0.44
3:JA:108:VAL:O	3:JA:111:GLU:HG3	2.18	0.44
3:JB:3:LEU:HD12	3:JB:35:LEU:HD21	2.00	0.44
3:JB:48:VAL:HG22	3:JB:68:ILE:CD1	2.46	0.44
3:JD:64:VAL:HG11	3:JH:125:ILE:CD1	2.47	0.44
3:JE:55:PRO:HD3	3:JE:62:TYR:CZ	2.52	0.44
3:JH:48:VAL:HG22	3:JH:68:ILE:CD1	2.47	0.44
3:JI:92:VAL:HG13	3:LB:92:VAL:HG22	2.00	0.44
3:JJ:52:VAL:O	3:JJ:52:VAL:CG2	2.64	0.44
3:KA:54:GLN:HB3	3:KA:55:PRO:CD	2.47	0.44
3:KB:54:GLN:HB3	3:KB:55:PRO:CD	2.48	0.44
3:KF:96:PHE:CE1	3:KF:105:ARG:HG2	2.52	0.44
3:KI:24:ARG:NH2	3:KL:128:LEU:O	2.51	0.44
3:LB:26:VAL:HG23	3:LB:32:VAL:C	2.38	0.44
3:LJ:68:ILE:HB	3:LJ:90:ALA:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LL:24:ARG:C	3:MI:129:ASN:OD1	2.54	0.44
3:LN:52:VAL:HG23	3:LN:64:VAL:CG2	2.45	0.44
3:LN:68:ILE:HD11	3:MI:111:GLU:OE1	2.17	0.44
3:MA:60:LYS:N	3:MA:61:ASN:HB3	2.27	0.44
3:MD:81:ASP:OD2	3:MF:99:TYR:CZ	2.71	0.44
3:MG:20:VAL:CG2	3:MG:38:ALA:HB2	2.48	0.44
3:MH:48:VAL:HG22	3:MH:68:ILE:HD12	2.00	0.44
3:MK:18:THR:C	3:MK:19:LEU:HD22	2.38	0.44
1:A:138:A:H2'	1:A:139:G:C8	2.53	0.44
1:A:202:G:C2	1:A:252:C:N4	2.86	0.44
1:A:272:U:P	1:A:293:U:OP1	2.75	0.44
1:A:488:U:C4	1:A:510:G:C6	3.05	0.44
1:A:532:A:OP1	3:DI:59:ARG:CZ	2.65	0.44
1:A:1341:A:H1'	1:A:1755:A:H61	1.83	0.44
1:A:1579:G:O2'	1:A:1581:U:OP1	2.35	0.44
1:A:1898:A:C6	1:A:2019:C:O4'	2.71	0.44
1:A:1909:U:O2	1:A:2006:U:O4	2.36	0.44
1:A:2062:A:H2'	1:A:2063:U:C6	2.53	0.44
1:A:2063:U:C2'	1:A:2064:C:H5'	2.48	0.44
1:A:2336:A:C5	1:A:2337:C:H1'	2.52	0.44
1:A:2348:A:C4	1:A:2349:U:C6	3.06	0.44
1:A:2389:C:O5'	3:FH:59:ARG:NH2	2.48	0.44
1:A:2756:A:C6	1:A:2757:G:O6	2.71	0.44
1:A:2930:U:H3'	1:A:2931:A:C8	2.53	0.44
1:A:2960:U:O2	1:A:2960:U:O4'	2.36	0.44
1:A:2962:G:N2	1:A:2963:C:H1'	2.32	0.44
1:A:3349:C:P	3:MD:59:ARG:NH2	2.91	0.44
1:A:3466:G:C6	1:A:3467:G:C6	3.06	0.44
1:A:3599:A:H61	1:A:3653:A:H61	1.64	0.44
1:A:3810:U:OP2	3:KH:56:SER:HB3	2.18	0.44
1:A:3822:G:H3'	1:A:3823:U:H6	1.83	0.44
1:A:3862:C:HO2'	1:A:3863:U:C5'	2.28	0.44
1:A:4093:C:H2'	1:A:4094:G:C8	2.53	0.44
1:A:4202:G:OP1	2:M:381:TYR:OH	2.32	0.44
2:M:83:VAL:HG23	2:M:383:ARG:HH21	1.82	0.44
2:M:207:ARG:NE	2:M:312:TRP:CD1	2.85	0.44
3:BF:13:LYS:NZ	3:IN:103:GLU:N	2.66	0.44
3:BF:129:ASN:OD1	3:IL:24:ARG:C	2.56	0.44
3:BG:125:ILE:HG23	3:BG:126:ASP:OD1	2.18	0.44
3:BG:132:TYR:OH	3:IA:26:VAL:HG11	2.18	0.44
3:BH:116:LEU:HD11	3:IL:112:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:13:LYS:N	3:BI:13:LYS:CD	2.81	0.44
3:BI:132:TYR:OH	3:HL:28:PRO:HD3	2.17	0.44
3:BL:73:ALA:HB1	3:BL:83:SER:O	2.17	0.44
3:BL:84:VAL:O	3:BL:84:VAL:HG13	2.18	0.44
3:BL:132:TYR:CZ	3:CF:28:PRO:HB3	2.53	0.44
3:BM:118:SER:O	3:BM:122:ILE:HG12	2.18	0.44
3:BN:26:VAL:HG23	3:BN:32:VAL:C	2.38	0.44
3:CB:98:GLN:OE1	3:CC:43:ALA:HB2	2.18	0.44
3:CC:11:ILE:CG2	3:CC:17:GLN:HB2	2.47	0.44
3:CC:54:GLN:HB2	3:CC:55:PRO:HD2	1.99	0.44
3:CD:12:GLY:H	3:HA:110:THR:HG21	1.83	0.44
3:CG:11:ILE:HG23	3:CG:17:GLN:HG2	1.99	0.44
3:DB:16:LYS:HG3	3:DB:17:GLN:OE1	2.17	0.44
3:DB:132:TYR:OXT	3:DK:2:LYS:NZ	2.47	0.44
3:DH:101:THR:HG23	3:DH:103:GLU:HG3	2.00	0.44
3:DM:115:LEU:HD22	3:EM:8:LEU:HD11	1.98	0.44
3:EC:116:LEU:HD23	3:LK:113:ALA:CA	2.48	0.44
3:EE:115:LEU:HD21	3:LI:8:LEU:HD11	1.99	0.44
3:EG:60:LYS:CB	3:EG:61:ASN:HB3	2.48	0.44
3:EJ:81:ASP:OD1	3:EL:99:TYR:CG	2.71	0.44
3:EM:102:ASP:OD1	3:EM:103:GLU:OE1	2.36	0.44
3:EM:122:ILE:HG13	3:EM:123:ASP:N	2.33	0.44
3:FB:73:ALA:HA	3:FB:84:VAL:HA	1.98	0.44
3:FB:99:TYR:HD1	3:LJ:86:ARG:HD3	1.82	0.44
3:FD:132:TYR:CD1	3:LH:26:VAL:HB	2.53	0.44
3:FH:11:ILE:HD12	3:FK:107:PHE:CE1	2.53	0.44
3:FI:109:ARG:NE	3:KE:125:ILE:HG23	2.33	0.44
3:FJ:6:VAL:CG1	3:FJ:8:LEU:HD21	2.46	0.44
3:FJ:48:VAL:HG13	3:FJ:68:ILE:HD13	2.00	0.44
3:FN:3:LEU:HD23	3:FN:3:LEU:H	1.83	0.44
3:FN:56:SER:CB	3:FN:59:ARG:NH1	2.81	0.44
3:FN:104:GLU:OE2	3:FN:104:GLU:HA	2.17	0.44
3:FN:131:ALA:HA	3:HB:1:ALA:HB1	2.00	0.44
3:GE:77:ASN:O	3:KF:77:ASN:ND2	2.51	0.44
3:GF:42:PRO:HA	3:GF:45:GLU:OE1	2.18	0.44
3:GF:74:CYS:SG	3:GF:74:CYS:O	2.76	0.44
3:GF:129:ASN:HD21	3:KB:24:ARG:NH1	2.16	0.44
3:GG:63:LYS:NZ	3:GG:93:THR:HG21	2.32	0.44
3:GH:24:ARG:CZ	3:JE:129:ASN:HA	2.48	0.44
3:GI:91:ASP:OD1	3:GI:91:ASP:C	2.56	0.44
3:GJ:1:ALA:HB1	3:GN:131:ALA:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GJ:3:LEU:CD1	3:GJ:35:LEU:HD11	2.47	0.44
3:GJ:85:THR:HG21	3:HA:80:CYS:SG	2.57	0.44
3:GK:11:ILE:CD1	3:JA:111:GLU:N	2.81	0.44
3:GM:97:THR:CA	3:GM:100:SER:HG	2.30	0.44
3:HB:27:ASN:ND2	3:HB:29:THR:OG1	2.51	0.44
3:HF:4:GLU:O	3:HF:6:VAL:HG23	2.18	0.44
3:HI:129:ASN:OD1	3:IJ:24:ARG:CZ	2.66	0.44
3:HM:71:PRO:HA	3:HM:87:GLN:OE1	2.17	0.44
3:IA:67:LYS:O	3:IA:68:ILE:HD13	2.18	0.44
3:IE:84:VAL:O	3:IE:84:VAL:HG13	2.18	0.44
3:IF:99:TYR:HB2	3:NI:86:ARG:NH1	2.33	0.44
3:IG:2:LYS:HD2	3:IG:2:LYS:N	2.33	0.44
3:IH:81:ASP:O	3:IH:83:SER:N	2.51	0.44
3:IM:99:TYR:CD2	3:IM:99:TYR:N	2.83	0.44
3:JH:79:SER:O	3:LD:74:CYS:SG	2.76	0.44
3:JH:102:ASP:OD1	3:JI:40:ALA:HA	2.18	0.44
3:JH:127:GLN:C	3:JH:128:LEU:HD12	2.38	0.44
3:JJ:99:TYR:HH	3:JK:84:VAL:HG22	1.81	0.44
3:JK:97:THR:CG2	3:KN:86:ARG:HH21	2.31	0.44
3:JK:125:ILE:CD1	3:KN:64:VAL:HG11	2.48	0.44
3:KB:101:THR:O	3:KB:105:ARG:HG3	2.17	0.44
3:KC:122:ILE:CG1	3:LC:109:ARG:HH12	2.31	0.44
3:KE:98:GLN:OE1	3:KF:43:ALA:HB2	2.18	0.44
3:KF:102:ASP:OD1	3:KG:40:ALA:HA	2.17	0.44
3:KK:130:PRO:HG3	3:MH:52:VAL:CG1	2.47	0.44
3:KN:125:ILE:HG23	3:KN:126:ASP:N	2.32	0.44
3:LA:86:ARG:NE	3:MD:97:THR:OG1	2.51	0.44
3:LA:119:PRO:O	3:LA:122:ILE:HB	2.18	0.44
3:LK:11:ILE:HG23	3:LK:17:GLN:HB2	1.99	0.44
3:LL:107:PHE:CE2	3:MB:46:LYS:NZ	2.85	0.44
3:MA:56:SER:O	3:MA:59:ARG:O	2.36	0.44
3:MK:59:ARG:O	3:MK:60:LYS:HG2	2.17	0.44
3:ML:55:PRO:HB3	3:ML:60:LYS:O	2.18	0.44
3:MN:117:ALA:O	3:MN:122:ILE:HD11	2.18	0.44
3:NE:37:GLN:HG3	3:NE:46:LYS:HB2	2.00	0.44
1:A:418:A:C6	1:A:419:C:C4	3.05	0.44
1:A:497:A:N7	3:HK:89:TYR:OH	2.36	0.44
1:A:511:A:H2'	1:A:512:U:O4'	2.17	0.44
1:A:532:A:P	1:A:532:A:H8	2.41	0.44
1:A:844:C:H2'	1:A:845:U:O4'	2.17	0.44
1:A:986:A:O2'	1:A:3194:U:OP1	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1344:A:O4'	1:A:1761:G:O6	2.35	0.44
1:A:1397:A:N1	1:A:1545:A:C6	2.85	0.44
1:A:1874:U:H2'	1:A:1875:U:H5'	2.00	0.44
1:A:2037:G:C2	1:A:2038:G:C5	3.06	0.44
1:A:2110:A:C2	1:A:2111:G:C5	3.06	0.44
1:A:2158:U:H2'	1:A:2159:U:O4'	2.17	0.44
1:A:2302:U:H4'	1:A:2303:U:H5	1.83	0.44
1:A:2514:U:O5'	3:EE:59:ARG:NH2	2.49	0.44
1:A:2708:C:H4'	3:DD:67:LYS:NZ	2.33	0.44
1:A:2910:G:H2'	1:A:2911:U:O4'	2.18	0.44
1:A:2921:C:C5	3:FM:54:GLN:HB2	2.52	0.44
1:A:2921:C:H5'	3:FN:47:ARG:HH12	1.83	0.44
1:A:2990:U:H2'	1:A:2991:A:O4'	2.18	0.44
1:A:3531:A:H2'	1:A:3532:G:C8	2.53	0.44
1:A:3540:U:H3'	3:GD:57:ARG:HD3	2.00	0.44
1:A:3927:C:H4'	3:FG:63:LYS:NZ	2.33	0.44
1:A:3939:C:O2'	1:A:3940:C:H5'	2.18	0.44
1:A:4116:G:H2'	1:A:4117:C:O4'	2.18	0.44
2:M:165:ARG:NH1	2:M:165:ARG:HB2	2.33	0.44
3:B:58:ASN:C	3:B:59:ARG:HD2	2.38	0.44
3:BA:1:ALA:O	3:MK:132:TYR:N	2.50	0.44
3:BB:32:VAL:HG22	3:BB:51:SER:OG	2.18	0.44
3:BC:52:VAL:HG23	3:BC:64:VAL:CG2	2.48	0.44
3:BG:59:ARG:HA	3:BG:59:ARG:NE	2.32	0.44
3:BG:63:LYS:HE3	3:BG:93:THR:HB	1.99	0.44
3:BJ:103:GLU:OE1	3:BJ:104:GLU:N	2.50	0.44
3:BL:20:VAL:C	3:BL:21:LEU:HD22	2.38	0.44
3:CE:85:THR:HG23	3:CE:86:ARG:HG3	2.00	0.44
3:CK:30:ASN:CG	3:CK:32:VAL:HG23	2.38	0.44
3:CL:111:GLU:N	3:HH:11:ILE:HD11	2.33	0.44
3:CM:8:LEU:HD22	3:NA:114:ALA:CB	2.42	0.44
3:CN:44:LEU:HD13	3:DB:98:GLN:O	2.18	0.44
3:DA:65:GLN:HG2	3:DA:93:THR:HG22	1.99	0.44
3:DA:79:SER:O	3:DA:80:CYS:HB3	2.17	0.44
3:DB:65:GLN:OE1	3:DB:91:ASP:OD1	2.35	0.44
3:DE:3:LEU:HD12	3:DE:35:LEU:HD21	1.98	0.44
3:DI:69:GLN:NE2	3:DI:87:GLN:OE1	2.51	0.44
3:DN:81:ASP:O	3:DN:81:ASP:OD1	2.36	0.44
3:EA:72:THR:HB	3:EA:86:ARG:HB2	1.99	0.44
3:EB:111:GLU:OE2	3:MJ:68:ILE:HD13	2.17	0.44
3:ED:18:THR:O	3:ED:19:LEU:HD22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:116:LEU:HD21	3:EH:109:ARG:HD2	1.99	0.44
3:EK:13:LYS:HZ1	3:FM:103:GLU:N	2.15	0.44
3:EN:98:GLN:NE2	3:FA:43:ALA:CA	2.81	0.44
3:FB:81:ASP:HB3	3:FD:99:TYR:CE2	2.53	0.44
3:FD:68:ILE:HD11	3:LH:115:LEU:HD12	2.00	0.44
3:FE:106:ALA:HB3	3:KI:13:LYS:HE3	2.00	0.44
3:FG:114:ALA:HB1	3:KG:8:LEU:HD11	2.00	0.44
3:FI:107:PHE:CD1	3:KE:11:ILE:HG13	2.53	0.44
3:FL:74:CYS:SG	3:FL:74:CYS:O	2.76	0.44
3:GD:131:ALA:HA	3:KF:1:ALA:O	2.17	0.44
3:GE:109:ARG:HG3	3:HE:116:LEU:CD1	2.46	0.44
3:GF:3:LEU:CD2	3:KD:131:ALA:HB1	2.48	0.44
3:GH:114:ALA:HB1	3:KB:8:LEU:HD22	2.00	0.44
3:GI:11:ILE:HD11	3:JC:111:GLU:N	2.32	0.44
3:GI:35:LEU:HD12	3:GI:35:LEU:N	2.33	0.44
3:GL:37:GLN:O	3:GL:45:GLU:OE2	2.36	0.44
3:GM:27:ASN:O	3:GM:31:GLY:N	2.46	0.44
3:HB:11:ILE:HG23	3:HB:17:GLN:HB2	2.00	0.44
3:HB:100:SER:OG	3:HB:105:ARG:NH1	2.51	0.44
3:HB:128:LEU:HD12	3:HB:128:LEU:N	2.33	0.44
3:HC:11:ILE:CG2	3:HC:17:GLN:HB2	2.47	0.44
3:HF:54:GLN:HB2	3:HF:55:PRO:HD2	2.00	0.44
3:HH:105:ARG:O	3:HH:108:VAL:HG12	2.18	0.44
3:HL:72:THR:HB	3:HL:86:ARG:HB2	2.00	0.44
3:HM:132:TYR:HE1	3:IL:132:TYR:HH	1.66	0.44
3:HN:112:LEU:O	3:HN:116:LEU:HD13	2.18	0.44
3:IB:129:ASN:OD1	3:II:24:ARG:C	2.54	0.44
3:IC:55:PRO:HD3	3:IC:62:TYR:HE2	1.82	0.44
3:IE:3:LEU:HD13	3:JL:132:TYR:HA	2.00	0.44
3:IL:37:GLN:OE1	3:IL:42:PRO:HB2	2.18	0.44
3:IM:6:VAL:HG12	3:IM:8:LEU:HD22	2.00	0.44
3:JC:125:ILE:O	3:JC:128:LEU:HD12	2.17	0.44
3:JG:34:SER:C	3:JG:35:LEU:HD12	2.38	0.44
3:JI:107:PHE:CZ	3:LB:11:ILE:HG12	2.53	0.44
3:JJ:11:ILE:CG2	3:JJ:17:GLN:HB2	2.48	0.44
3:JK:111:GLU:CG	3:KN:68:ILE:HD11	2.48	0.44
3:KC:106:ALA:HB3	3:LC:13:LYS:CE	2.47	0.44
3:KE:58:ASN:OD1	3:KE:59:ARG:N	2.51	0.44
3:KI:59:ARG:HH12	3:KI:63:LYS:HD2	1.81	0.44
3:KJ:132:TYR:O	3:LE:3:LEU:CD2	2.65	0.44
3:KL:13:LYS:HG3	3:KL:14:ASP:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:102:ASP:OD1	3:LD:102:ASP:N	2.50	0.44
3:LJ:14:ASP:OD1	3:LJ:15:GLY:N	2.50	0.44
3:MB:52:VAL:O	3:MB:52:VAL:HG23	2.18	0.44
3:MD:61:ASN:HA	3:MD:96:PHE:O	2.18	0.44
3:ME:110:THR:CB	3:NH:11:ILE:HD12	2.47	0.44
3:ME:121:LEU:HD12	3:ME:121:LEU:N	2.33	0.44
3:MM:122:ILE:HG13	3:MM:123:ASP:N	2.32	0.44
3:NA:52:VAL:CG2	3:NA:64:VAL:HG22	2.47	0.44
3:NB:11:ILE:HD11	3:NF:111:GLU:N	2.32	0.44
3:NJ:2:LYS:O	3:NJ:4:GLU:OE1	2.35	0.44
3:NJ:41:VAL:HG12	3:NJ:43:ALA:H	1.82	0.44
1:A:10:C:C6	1:A:10:C:OP2	2.72	0.43
1:A:51:A:H2'	1:A:52:A:C8	2.53	0.43
1:A:222:A:N6	1:A:231:A:N1	2.65	0.43
1:A:402:U:C2	1:A:403:G:C8	3.06	0.43
1:A:536:A:N6	3:CH:55:PRO:O	2.50	0.43
1:A:709:G:H2'	1:A:710:A:H8	1.83	0.43
1:A:1571:U:P	1:A:1572:G:N7	2.91	0.43
1:A:1829:A:H2'	1:A:1830:G:O4'	2.18	0.43
1:A:1831:G:C6	1:A:1832:U:C4	3.06	0.43
1:A:1905:C:H2'	1:A:1906:C:H6	1.83	0.43
1:A:2112:G:H8	1:A:2112:G:O5'	2.01	0.43
1:A:2359:A:N7	3:HD:67:LYS:HD2	2.33	0.43
1:A:2536:C:H2'	1:A:2537:C:O4'	2.18	0.43
1:A:2928:U:C5	1:A:2929:C:C6	3.06	0.43
1:A:2990:U:C5	1:A:3948:U:C2	3.06	0.43
1:A:3589:G:H8	1:A:3589:G:O5'	2.01	0.43
1:A:3695:C:H2'	1:A:3696:A:C8	2.53	0.43
1:A:3929:U:O4	1:A:3934:G:O6	2.36	0.43
1:A:4168:A:N1	1:A:4169:A:C6	2.86	0.43
2:M:251:ASN:OD1	2:M:262:LYS:HG2	2.18	0.43
3:BA:103:GLU:OE1	3:MK:13:LYS:HE3	2.17	0.43
3:BC:111:GLU:OE2	3:ND:68:ILE:CD1	2.66	0.43
3:BF:111:GLU:O	3:BF:115:LEU:HD13	2.17	0.43
3:BF:116:LEU:HD11	3:IN:109:ARG:HG3	2.00	0.43
3:BI:13:LYS:CE	3:HM:102:ASP:O	2.66	0.43
3:BJ:109:ARG:HD3	3:BN:116:LEU:O	2.17	0.43
3:BK:112:LEU:HD11	3:HK:92:VAL:HG21	1.99	0.43
3:BM:8:LEU:HD11	3:DJ:115:LEU:HD21	2.00	0.43
3:CB:128:LEU:O	3:HD:24:ARG:NH1	2.51	0.43
3:CD:70:ASN:ND2	3:HA:107:PHE:CE2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:122:ILE:HA	3:GM:109:ARG:HH22	1.80	0.43
3:CJ:103:GLU:N	3:HJ:13:LYS:HZ1	2.15	0.43
3:CK:97:THR:N	3:CK:100:SER:HG	2.16	0.43
3:CM:8:LEU:HD11	3:NA:115:LEU:HD22	2.00	0.43
3:CM:107:PHE:CZ	3:NA:19:LEU:HD21	2.54	0.43
3:CN:13:LYS:HE3	3:DD:103:GLU:HA	2.00	0.43
3:DB:84:VAL:O	3:DB:84:VAL:HG13	2.17	0.43
3:DH:59:ARG:NE	3:DH:61:ASN:ND2	2.65	0.43
3:EA:60:LYS:HB2	3:EA:61:ASN:CB	2.48	0.43
3:EB:99:TYR:CE1	3:EC:81:ASP:OD2	2.71	0.43
3:EC:107:PHE:CD2	3:EC:111:GLU:OE2	2.71	0.43
3:EF:21:LEU:HB3	3:EF:35:LEU:HB3	1.98	0.43
3:EF:55:PRO:HB3	3:EF:60:LYS:O	2.18	0.43
3:EI:54:GLN:HB3	3:EI:55:PRO:CD	2.47	0.43
3:EI:122:ILE:HA	3:GA:109:ARG:NH2	2.33	0.43
3:FB:131:ALA:HA	3:LJ:1:ALA:O	2.18	0.43
3:FC:75:THR:O	3:GC:79:SER:HA	2.17	0.43
3:FE:92:VAL:HG22	3:KI:92:VAL:CG2	2.39	0.43
3:FE:125:ILE:CG2	3:FE:126:ASP:N	2.81	0.43
3:FF:8:LEU:HA	3:FF:8:LEU:HD12	1.80	0.43
3:FF:11:ILE:HD11	3:LF:111:GLU:HG3	1.99	0.43
3:FG:44:LEU:HD11	3:FG:82:PRO:HG2	2.00	0.43
3:FG:107:PHE:O	3:FG:111:GLU:HG2	2.18	0.43
3:FH:71:PRO:HB3	3:FH:87:GLN:HE22	1.83	0.43
3:FH:104:GLU:O	3:FH:107:PHE:CD1	2.71	0.43
3:FL:49:THR:O	3:FL:66:VAL:HG13	2.17	0.43
3:FM:112:LEU:O	3:FM:116:LEU:HD23	2.18	0.43
3:GH:19:LEU:HD11	3:KB:107:PHE:CZ	2.54	0.43
3:GH:44:LEU:HD12	3:GH:44:LEU:N	2.33	0.43
3:GL:116:LEU:HD11	3:HG:112:LEU:HD23	1.99	0.43
3:HB:41:VAL:O	3:HB:44:LEU:HG	2.17	0.43
3:HB:104:GLU:OE2	3:HB:104:GLU:HA	2.18	0.43
3:HC:79:SER:O	3:HC:80:CYS:CB	2.66	0.43
3:HD:42:PRO:CD	3:HD:43:ALA:H	2.29	0.43
3:HH:44:LEU:HD22	3:HJ:98:GLN:O	2.18	0.43
3:HH:81:ASP:OD2	3:HJ:99:TYR:CE2	2.71	0.43
3:HI:62:TYR:HD2	3:II:128:LEU:HD22	1.83	0.43
3:HI:75:THR:HG23	3:HI:82:PRO:HG3	2.00	0.43
3:IB:55:PRO:HG3	3:IB:62:TYR:CE1	2.52	0.43
3:IG:79:SER:HA	3:NI:76:ALA:HA	1.99	0.43
3:IJ:86:ARG:HH12	3:NE:100:SER:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IL:26:VAL:HG23	3:IL:32:VAL:C	2.38	0.43
3:IL:60:LYS:HB2	3:IL:61:ASN:HB3	2.00	0.43
3:JA:27:ASN:OD1	3:JA:27:ASN:C	2.57	0.43
3:JA:120:LEU:CD2	3:JA:121:LEU:HD23	2.47	0.43
3:JG:97:THR:N	3:JG:100:SER:OG	2.51	0.43
3:KI:59:ARG:HH11	3:KI:59:ARG:HG3	1.82	0.43
3:KK:111:GLU:CA	3:MH:11:ILE:HD11	2.48	0.43
3:LH:72:THR:HB	3:LH:86:ARG:HD3	1.98	0.43
3:LK:59:ARG:HB2	3:LK:61:ASN:OD1	2.18	0.43
3:MA:116:LEU:HA	3:MA:121:LEU:HD12	2.00	0.43
3:ME:118:SER:O	3:ME:122:ILE:HG12	2.17	0.43
3:ME:125:ILE:HD12	3:NH:94:PHE:HD2	1.82	0.43
3:MF:87:GLN:N	3:MF:87:GLN:OE1	2.51	0.43
3:MI:107:PHE:CE2	3:MI:111:GLU:OE2	2.71	0.43
3:MK:79:SER:O	3:MK:80:CYS:CB	2.65	0.43
3:MK:119:PRO:HA	3:MK:122:ILE:HD12	1.99	0.43
3:MM:60:LYS:N	3:MM:61:ASN:HB3	2.26	0.43
1:A:187:G:N3	1:A:311:U:H1'	2.33	0.43
1:A:199:A:H3'	1:A:200:A:C2	2.53	0.43
1:A:499:U:OP2	1:A:500:A:C6	2.71	0.43
1:A:541:C:H2'	1:A:542:U:C5	2.53	0.43
1:A:541:C:C2	1:A:542:U:C5	3.06	0.43
1:A:712:A:N1	1:A:721:G:C6	2.87	0.43
1:A:872:G:H2'	1:A:873:U:C6	2.53	0.43
1:A:996:U:H2'	1:A:997:U:O4'	2.17	0.43
1:A:1062:A:H2'	1:A:1063:C:C6	2.52	0.43
1:A:1073:U:N3	1:A:1208:G:N1	2.65	0.43
1:A:1081:A:N1	1:A:1200:A:N6	2.66	0.43
1:A:1271:U:N3	1:A:1276:C:C2	2.83	0.43
1:A:1383:A:H2'	1:A:1384:A:H8	1.83	0.43
1:A:1980:U:O2'	1:A:1981:G:H5'	2.19	0.43
1:A:2245:C:C6	1:A:2248:G:N2	2.86	0.43
1:A:2248:G:H2'	1:A:2249:C:C4'	2.48	0.43
1:A:2268:G:C6	1:A:2269:A:N7	2.86	0.43
1:A:2621:U:H2'	1:A:2622:G:C8	2.53	0.43
1:A:2812:U:C2	1:A:2813:U:C5	3.07	0.43
1:A:3101:U:N3	1:A:3102:C:C5	2.86	0.43
1:A:3104:G:N2	1:A:3105:A:N7	2.66	0.43
1:A:3138:G:N2	1:A:3139:A:N1	2.66	0.43
1:A:3171:G:H4'	1:A:3211:G:OP2	2.18	0.43
1:A:3574:C:H2'	1:A:3575:U:O4'	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3769:U:H5"	1:A:3770:C:OP2	2.18	0.43
1:A:3809:G:H2'	3:KH:57:ARG:N	2.33	0.43
1:A:3845:A:C4	1:A:3846:A:C8	3.07	0.43
1:A:4053:A:H2'	1:A:4054:G:C8	2.53	0.43
1:A:4143:C:H2'	1:A:4144:G:O4'	2.19	0.43
1:A:4168:A:C6	1:A:4169:A:N6	2.86	0.43
2:M:96:ALA:CB	2:M:372:ALA:HB2	2.48	0.43
2:M:208:TYR:O	3:B:29:THR:HG21	2.18	0.43
2:M:308:HIS:NE2	3:B:47:ARG:CD	2.81	0.43
3:BA:53:SER:OG	3:BA:63:LYS:HB3	2.17	0.43
3:BB:86:ARG:NH2	3:MA:99:TYR:O	2.51	0.43
3:BD:127:GLN:O	3:BD:128:LEU:HB2	2.17	0.43
3:BE:79:SER:HA	3:JB:75:THR:O	2.18	0.43
3:BE:86:ARG:NH1	3:CE:99:TYR:C	2.72	0.43
3:BI:106:ALA:O	3:BI:109:ARG:HG2	2.18	0.43
3:BK:110:THR:OG1	3:HK:11:ILE:HD12	2.18	0.43
3:BL:131:ALA:HB1	3:CG:3:LEU:HD11	2.00	0.43
3:BM:116:LEU:HA	3:BM:121:LEU:HD23	2.00	0.43
3:CB:94:PHE:HD1	3:HC:125:ILE:HD12	1.82	0.43
3:CB:105:ARG:NE	3:HC:128:LEU:HD11	2.32	0.43
3:CE:55:PRO:HD3	3:CE:62:TYR:CE1	2.54	0.43
3:CF:2:LYS:CE	3:GM:132:TYR:O	2.66	0.43
3:CH:13:LYS:HE3	3:HL:103:GLU:OE2	2.18	0.43
3:CM:3:LEU:CD2	3:NA:132:TYR:O	2.67	0.43
3:CN:105:ARG:NE	3:DD:128:LEU:HD11	2.33	0.43
3:DB:120:LEU:N	3:DB:120:LEU:HD22	2.34	0.43
3:DE:13:LYS:NZ	3:EL:103:GLU:OE2	2.45	0.43
3:DE:132:TYR:CE2	3:DG:132:TYR:CE1	3.06	0.43
3:DG:95:SER:O	3:DG:96:PHE:HD1	2.01	0.43
3:EE:1:ALA:O	3:LI:131:ALA:HA	2.18	0.43
3:EE:127:GLN:HB2	3:EE:129:ASN:ND2	2.32	0.43
3:EG:96:PHE:CE2	3:GC:88:ALA:HB1	2.53	0.43
3:EN:98:GLN:NE2	3:FA:43:ALA:N	2.67	0.43
3:FD:60:LYS:O	3:FD:61:ASN:C	2.56	0.43
3:FE:100:SER:HB3	3:KI:86:ARG:NH1	2.33	0.43
3:FG:11:ILE:HD12	3:KG:110:THR:OG1	2.18	0.43
3:FJ:121:LEU:HD22	3:HF:66:VAL:HG21	2.00	0.43
3:FK:44:LEU:HD21	3:FK:82:PRO:HB2	1.98	0.43
3:FN:23:PRO:HA	3:FN:35:LEU:HD23	1.99	0.43
3:FN:95:SER:O	3:FN:96:PHE:HD1	2.01	0.43
3:GD:118:SER:O	3:GD:122:ILE:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GF:132:TYR:CE1	3:KC:28:PRO:HB3	2.53	0.43
3:GG:86:ARG:HH22	3:JE:101:THR:HG23	1.83	0.43
3:GH:8:LEU:HD22	3:KB:114:ALA:CB	2.47	0.43
3:GH:24:ARG:C	3:GH:24:ARG:HE	2.21	0.43
3:GH:48:VAL:HG13	3:GH:68:ILE:HD13	1.99	0.43
3:GK:75:THR:HB	3:GK:82:PRO:HG3	2.00	0.43
3:GL:102:ASP:C	3:HG:13:LYS:HZ3	2.21	0.43
3:HB:60:LYS:N	3:HB:61:ASN:HB3	2.32	0.43
3:HB:127:GLN:C	3:HB:128:LEU:HD12	2.38	0.43
3:HI:62:TYR:HD2	3:II:128:LEU:HD23	1.83	0.43
3:HL:54:GLN:HB3	3:HL:55:PRO:HD2	2.00	0.43
3:IB:129:ASN:ND2	3:IK:1:ALA:N	2.65	0.43
3:IC:62:TYR:HD1	3:JN:128:LEU:CD2	2.29	0.43
3:IH:132:TYR:CE1	3:NF:28:PRO:HB3	2.53	0.43
3:IK:44:LEU:HD22	3:IK:44:LEU:N	2.33	0.43
3:IL:128:LEU:HD12	3:IL:128:LEU:N	2.33	0.43
3:JA:22:ASN:O	3:JA:24:ARG:NH1	2.51	0.43
3:JD:27:ASN:ND2	3:JD:29:THR:OG1	2.49	0.43
3:JF:13:LYS:HZ1	3:KA:103:GLU:HB2	1.83	0.43
3:JF:23:PRO:O	3:JF:24:ARG:NE	2.50	0.43
3:JG:125:ILE:CG2	3:LD:109:ARG:NH1	2.82	0.43
3:JL:84:VAL:O	3:JL:84:VAL:HG23	2.17	0.43
3:KB:68:ILE:O	3:KB:89:TYR:HB2	2.17	0.43
3:KC:27:ASN:OD1	3:KC:27:ASN:C	2.57	0.43
3:KF:72:THR:HG22	3:KF:73:ALA:N	2.33	0.43
3:KK:49:THR:OG1	3:KK:67:LYS:HB2	2.18	0.43
3:KK:81:ASP:O	3:KK:81:ASP:OD1	2.36	0.43
3:KM:100:SER:CB	3:KM:105:ARG:HH11	2.32	0.43
3:KN:41:VAL:N	3:KN:42:PRO:CD	2.80	0.43
3:KN:69:GLN:HG2	3:KN:89:TYR:HB3	1.99	0.43
3:LG:86:ARG:NH2	3:MG:99:TYR:HB2	2.28	0.43
3:LM:42:PRO:O	3:LM:47:ARG:CZ	2.65	0.43
3:MC:20:VAL:O	3:MC:20:VAL:HG13	2.17	0.43
3:ME:2:LYS:HD2	3:NH:132:TYR:O	2.18	0.43
3:MM:60:LYS:HB2	3:MM:61:ASN:HB3	2.00	0.43
3:NG:8:LEU:HD22	3:NG:8:LEU:N	2.32	0.43
3:NI:65:GLN:OE1	3:NI:93:THR:OG1	2.29	0.43
3:NJ:4:GLU:O	3:NJ:6:VAL:HG23	2.19	0.43
1:A:714:C:H2'	1:A:715:A:C5'	2.48	0.43
1:A:904:G:C2	1:A:905:A:C2	3.06	0.43
1:A:1339:U:C2'	1:A:1350:A:H61	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1396:A:H5"	3:DF:59:ARG:NH1	2.32	0.43
1:A:1399:C:N3	1:A:1543:U:C4	2.87	0.43
1:A:1433:U:H2'	1:A:1434:A:C4	2.53	0.43
1:A:1563:G:C5	1:A:1578:G:N2	2.86	0.43
1:A:1710:A:H5'	3:JM:59:ARG:NH2	2.34	0.43
1:A:1710:A:N1	1:A:1725:C:N4	2.66	0.43
1:A:1980:U:C2	1:A:1981:G:C8	3.05	0.43
1:A:2187:A:OP1	1:A:2188:G:N7	2.51	0.43
1:A:2243:A:C6	1:A:2250:G:O6	2.69	0.43
1:A:2511:U:H2'	1:A:2512:C:O4'	2.18	0.43
1:A:2599:G:C6	1:A:2600:C:C4	3.07	0.43
1:A:2763:C:H2'	1:A:2764:U:C5'	2.48	0.43
1:A:2767:U:O4'	1:A:2767:U:O2	2.34	0.43
1:A:2848:A:C2'	1:A:2849:C:O4'	2.66	0.43
1:A:3306:A:H2'	1:A:3312:U:H3	1.84	0.43
1:A:3417:G:C6	1:A:3452:A:C6	3.06	0.43
1:A:3538:C:N3	1:A:3539:G:C5	2.87	0.43
1:A:3631:A:C8	1:A:3632:U:C1'	3.00	0.43
1:A:3689:G:C6	1:A:3751:A:C6	3.06	0.43
1:A:3803:C:C4	3:KK:57:ARG:NH2	2.87	0.43
1:A:3809:G:O2'	1:A:3810:U:OP2	2.33	0.43
1:A:4140:U:H2'	1:A:4141:G:H8	1.83	0.43
2:M:132:VAL:HG12	2:M:133:PRO:HD3	2.00	0.43
3:BE:8:LEU:CG	3:CE:115:LEU:HD22	2.49	0.43
3:BG:26:VAL:HG13	3:BG:33:ALA:N	2.32	0.43
3:BI:52:VAL:HB	3:HM:130:PRO:HB3	2.00	0.43
3:BK:10:ASN:OD1	3:BK:10:ASN:N	2.49	0.43
3:BK:86:ARG:HG2	3:HK:97:THR:HG21	2.01	0.43
3:BM:126:ASP:CA	3:DJ:109:ARG:HH22	2.31	0.43
3:CB:115:LEU:HD23	3:CB:115:LEU:O	2.19	0.43
3:CC:11:ILE:HD11	3:DF:111:GLU:CA	2.47	0.43
3:CD:110:THR:OG1	3:HA:11:ILE:HD12	2.18	0.43
3:CE:56:SER:O	3:CE:59:ARG:O	2.36	0.43
3:CH:27:ASN:OD1	3:CH:29:THR:N	2.50	0.43
3:CH:97:THR:N	3:CH:100:SER:HG	2.17	0.43
3:CJ:105:ARG:CZ	3:HJ:128:LEU:CD1	2.97	0.43
3:CJ:132:TYR:C	3:HJ:3:LEU:HD23	2.39	0.43
3:CM:126:ASP:HB3	3:CM:127:GLN:NE2	2.33	0.43
3:DB:86:ARG:HG3	3:DK:97:THR:HG21	2.00	0.43
3:DB:100:SER:HA	3:DK:86:ARG:NH2	2.33	0.43
3:DF:61:ASN:HA	3:DF:96:PHE:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DG:117:ALA:O	3:DG:122:ILE:HD11	2.18	0.43
3:DH:97:THR:OG1	3:DH:100:SER:N	2.51	0.43
3:DJ:97:THR:N	3:DJ:100:SER:HG	2.15	0.43
3:DK:32:VAL:O	3:DK:32:VAL:HG23	2.18	0.43
3:DL:125:ILE:HD11	3:MN:96:PHE:HE2	1.83	0.43
3:EI:122:ILE:N	3:GA:109:ARG:HH22	2.15	0.43
3:EJ:11:ILE:HG23	3:EJ:17:GLN:HB2	2.00	0.43
3:FB:107:PHE:HA	3:LJ:12:GLY:HA2	1.99	0.43
3:FE:92:VAL:HG21	3:KI:112:LEU:HD11	1.99	0.43
3:FF:67:LYS:O	3:FF:68:ILE:HD13	2.19	0.43
3:FH:94:PHE:HB3	3:FH:96:PHE:CE2	2.53	0.43
3:FI:109:ARG:HH22	3:KE:126:ASP:H	1.66	0.43
3:FL:46:LYS:CD	3:FL:70:ASN:OD1	2.66	0.43
3:FN:96:PHE:CE2	3:FN:105:ARG:HD2	2.53	0.43
3:GG:26:VAL:CG2	3:JC:132:TYR:CD2	3.01	0.43
3:GH:105:ARG:NE	3:KB:126:ASP:O	2.44	0.43
3:GJ:60:LYS:HB2	3:GJ:61:ASN:HB3	1.99	0.43
3:HC:98:GLN:HG2	3:HC:99:TYR:CD2	2.53	0.43
3:HE:85:THR:HG23	3:HE:86:ARG:HG3	1.99	0.43
3:HE:128:LEU:HD12	3:HE:128:LEU:N	2.34	0.43
3:HI:14:ASP:OD1	3:HI:15:GLY:N	2.51	0.43
3:HI:102:ASP:O	3:II:13:LYS:CE	2.65	0.43
3:IA:24:ARG:CZ	3:ID:127:GLN:O	2.65	0.43
3:IA:79:SER:O	3:IA:80:CYS:CB	2.66	0.43
3:IA:118:SER:OG	3:IA:119:PRO:CD	2.67	0.43
3:IN:51:SER:HB3	3:IN:65:GLN:HB2	2.01	0.43
3:JA:30:ASN:CG	3:JA:32:VAL:HG23	2.38	0.43
3:JC:52:VAL:O	3:JC:52:VAL:CG2	2.67	0.43
3:JD:56:SER:N	3:JD:59:ARG:HB2	2.33	0.43
3:JD:128:LEU:HD11	3:JH:105:ARG:CD	2.48	0.43
3:JF:105:ARG:CD	3:KA:128:LEU:HD11	2.48	0.43
3:JG:52:VAL:O	3:JG:52:VAL:CG2	2.67	0.43
3:JG:80:CYS:SG	3:JG:81:ASP:N	2.91	0.43
3:JJ:46:LYS:HE2	3:JJ:71:PRO:HD2	1.99	0.43
3:JK:76:ALA:HA	3:LA:79:SER:HA	2.01	0.43
3:KA:96:PHE:CZ	3:KA:105:ARG:HG2	2.53	0.43
3:KB:124:ALA:O	3:KB:128:LEU:HA	2.18	0.43
3:KC:11:ILE:HD11	3:LC:111:GLU:CA	2.48	0.43
3:KD:11:ILE:CG2	3:KD:17:GLN:HB2	2.48	0.43
3:KH:22:ASN:OD1	3:KH:23:PRO:CD	2.66	0.43
3:KN:32:VAL:HG13	3:KN:51:SER:OG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LE:123:ASP:O	3:LE:129:ASN:HB3	2.18	0.43
3:LF:107:PHE:CE2	3:LF:111:GLU:OE2	2.71	0.43
3:LG:37:GLN:OE1	3:LG:46:LYS:HG3	2.19	0.43
3:LG:53:SER:HB2	3:LG:63:LYS:CG	2.48	0.43
3:LM:24:ARG:NH2	3:MB:128:LEU:O	2.50	0.43
3:MC:32:VAL:HG12	3:MC:51:SER:OG	2.17	0.43
3:MC:110:THR:OG1	3:NJ:11:ILE:HD12	2.19	0.43
3:MJ:76:ALA:O	3:MJ:79:SER:OG	2.29	0.43
3:NC:49:THR:OG1	3:NC:67:LYS:HB3	2.19	0.43
3:NE:97:THR:N	3:NE:100:SER:OG	2.50	0.43
3:NF:32:VAL:HG22	3:NF:51:SER:OG	2.18	0.43
3:NG:19:LEU:HD12	3:NG:37:GLN:NE2	2.33	0.43
3:NH:14:ASP:OD2	3:NH:16:LYS:N	2.52	0.43
1:A:513:C:P	1:A:513:C:H6	2.42	0.43
1:A:904:G:C2'	1:A:905:A:O4'	2.67	0.43
1:A:997:U:O2	1:A:1013:A:H2	2.01	0.43
1:A:1359:A:C6	1:A:1360:C:C5	3.06	0.43
1:A:1395:C:OP2	1:A:1395:C:H6	2.02	0.43
1:A:1422:G:O2'	1:A:1423:U:H5'	2.18	0.43
1:A:2034:A:H2'	1:A:2035:A:C8	2.53	0.43
1:A:2218:U:H2'	1:A:2219:G:C8	2.54	0.43
1:A:2385:A:H2'	1:A:2386:G:O4'	2.19	0.43
1:A:3216:C:HO2'	1:A:3217:U:H5	1.64	0.43
1:A:3241:A:H2'	1:A:3242:G:O4'	2.18	0.43
1:A:3246:C:H2'	1:A:3247:U:O4'	2.19	0.43
1:A:3559:C:H2'	1:A:3560:U:C6	2.53	0.43
1:A:3689:G:N1	1:A:3690:U:C4	2.86	0.43
1:A:3916:A:C6	1:A:3917:C:C4	3.06	0.43
1:A:3986:C:N4	1:A:4008:A:C6	2.83	0.43
1:A:3992:G:OP1	3:KN:63:LYS:HD3	2.17	0.43
1:A:4036:U:H4'	1:A:4036:U:OP1	2.17	0.43
1:A:4083:U:O2'	1:A:4084:U:O4'	2.36	0.43
2:M:6:GLY:O	2:M:7:LEU:HD22	2.17	0.43
2:M:213:LEU:CD1	2:M:217:ILE:HD11	2.48	0.43
3:BD:2:LYS:NZ	3:BD:3:LEU:O	2.52	0.43
3:BG:109:ARG:HH12	3:IA:122:ILE:HA	1.82	0.43
3:BI:53:SER:OG	3:BI:63:LYS:HB3	2.19	0.43
3:BK:15:GLY:C	3:BK:16:LYS:HD2	2.39	0.43
3:BK:125:ILE:CD1	3:HK:64:VAL:HG11	2.48	0.43
3:BM:103:GLU:HA	3:DJ:13:LYS:HZ2	1.84	0.43
3:CA:93:THR:O	3:DH:91:ASP:OD2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:86:ARG:HH22	3:DF:99:TYR:N	2.17	0.43
3:CC:122:ILE:HG23	3:DF:109:ARG:HH12	1.83	0.43
3:DB:13:LYS:HZ2	3:DK:103:GLU:CA	2.30	0.43
3:DE:60:LYS:HB3	3:DE:98:GLN:CD	2.38	0.43
3:DE:127:GLN:N	3:DE:127:GLN:OE1	2.51	0.43
3:DG:103:GLU:CA	3:EJ:13:LYS:NZ	2.71	0.43
3:DG:109:ARG:CZ	3:EJ:125:ILE:CG1	2.96	0.43
3:DL:53:SER:HB3	3:DL:59:ARG:HH11	1.83	0.43
3:DM:30:ASN:OD1	3:DM:32:VAL:HG12	2.18	0.43
3:DM:132:TYR:CE2	3:EN:26:VAL:HG23	2.53	0.43
3:EA:91:ASP:OD1	3:EA:91:ASP:N	2.51	0.43
3:EI:122:ILE:HA	3:GA:109:ARG:CZ	2.48	0.43
3:EK:75:THR:CG2	3:EK:82:PRO:HG3	2.49	0.43
3:EK:101:THR:N	3:EK:104:GLU:OE1	2.47	0.43
3:EK:125:ILE:HG22	3:FM:64:VAL:CG2	2.37	0.43
3:EM:72:THR:HB	3:EM:86:ARG:HB2	1.98	0.43
3:FF:120:LEU:HD13	3:LF:2:LYS:O	2.18	0.43
3:FJ:55:PRO:CG	3:FJ:62:TYR:HE1	2.31	0.43
3:FN:76:ALA:O	3:FN:78:GLY:N	2.51	0.43
3:GB:119:PRO:HA	3:GB:122:ILE:HG12	1.99	0.43
3:GC:51:SER:OG	3:GC:65:GLN:HB2	2.19	0.43
3:GE:105:ARG:NE	3:HE:128:LEU:HD11	2.33	0.43
3:GF:8:LEU:HD21	3:GF:11:ILE:HD13	2.00	0.43
3:GI:4:GLU:CD	3:GI:5:THR:N	2.71	0.43
3:GI:102:ASP:OD1	3:GI:102:ASP:N	2.51	0.43
3:HH:104:GLU:HA	3:HH:104:GLU:OE2	2.18	0.43
3:HI:65:GLN:OE1	3:HI:65:GLN:HA	2.18	0.43
3:HK:34:SER:O	3:HK:35:LEU:HD22	2.18	0.43
3:HL:41:VAL:HG13	3:HL:41:VAL:O	2.17	0.43
3:IB:107:PHE:CZ	3:IK:46:LYS:HE3	2.54	0.43
3:IC:97:THR:O	3:IC:100:SER:OG	2.25	0.43
3:IC:107:PHE:CE2	3:JN:19:LEU:HD11	2.53	0.43
3:ID:101:THR:OG1	3:ID:104:GLU:HG2	2.19	0.43
3:IF:8:LEU:HD22	3:NI:114:ALA:HB3	2.01	0.43
3:IJ:2:LYS:CE	3:NE:132:TYR:O	2.66	0.43
3:JC:24:ARG:CZ	3:JC:36:SER:OG	2.66	0.43
3:JF:122:ILE:HA	3:KA:109:ARG:HH11	1.83	0.43
3:JI:93:THR:HB	3:LB:91:ASP:OD2	2.17	0.43
3:JK:111:GLU:OE1	3:KN:8:LEU:CD2	2.67	0.43
3:KA:102:ASP:OD1	3:KA:103:GLU:N	2.51	0.43
3:KD:102:ASP:OD1	3:KD:102:ASP:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KI:65:GLN:N	3:KI:65:GLN:OE1	2.51	0.43
3:KK:120:LEU:O	3:KK:123:ASP:OD1	2.36	0.43
3:KL:79:SER:O	3:MH:74:CYS:SG	2.76	0.43
3:KM:3:LEU:HD13	3:MF:132:TYR:CA	2.48	0.43
3:LA:26:VAL:HG11	3:MD:132:TYR:CE2	2.54	0.43
3:LC:14:ASP:HB2	3:LC:16:LYS:NZ	2.33	0.43
3:LH:122:ILE:O	3:LH:126:ASP:HB3	2.19	0.43
3:LI:44:LEU:HD22	3:LK:98:GLN:O	2.19	0.43
3:LL:94:PHE:CE2	3:MB:90:ALA:HB1	2.53	0.43
3:LN:91:ASP:OD1	3:LN:91:ASP:O	2.36	0.43
3:ME:100:SER:CA	3:NH:86:ARG:NH2	2.81	0.43
3:MG:84:VAL:HG23	3:MG:84:VAL:O	2.17	0.43
3:MH:8:LEU:N	3:MH:8:LEU:HD22	2.34	0.43
3:MJ:27:ASN:ND2	3:MJ:29:THR:HG1	2.17	0.43
3:NB:8:LEU:HD11	3:NF:115:LEU:CD2	2.47	0.43
3:NG:14:ASP:OD2	3:NG:16:LYS:HG2	2.19	0.43
3:NG:55:PRO:HB3	3:NG:60:LYS:CD	2.49	0.43
3:NG:60:LYS:HG2	3:NG:98:GLN:HB3	1.99	0.43
1:A:279:U:H5”	1:A:643:U:O2’	2.19	0.43
1:A:449:A:H2’	1:A:450:C:C6	2.53	0.43
1:A:770:G:H2’	1:A:771:G:O4’	2.19	0.43
1:A:1342:U:H2’	1:A:1343:C:O4’	2.19	0.43
1:A:1365:A:C6	1:A:1366:C:C4	3.06	0.43
1:A:1723:A:H2’	1:A:1724:U:C6	2.53	0.43
1:A:1733:C:C5	1:A:1734:C:C5	3.07	0.43
1:A:1779:A:O5’	1:A:1779:A:N3	2.51	0.43
1:A:1780:A:N6	3:BF:55:PRO:HD2	2.33	0.43
1:A:1797:C:OP1	1:A:1810:U:O4’	2.37	0.43
1:A:1909:U:O2	1:A:2006:U:C4	2.72	0.43
1:A:1958:A:N1	1:A:1964:U:O4	2.52	0.43
1:A:2046:G:O6	3:GG:57:ARG:N	2.43	0.43
1:A:2123:U:O2’	1:A:2125:G:C8	2.71	0.43
1:A:2238:G:C2	1:A:2254:G:C6	3.07	0.43
1:A:2238:G:N1	1:A:2254:G:C6	2.87	0.43
1:A:2481:U:C2	1:A:2482:C:C5	3.06	0.43
1:A:2657:A:H2’	1:A:2658:U:N1	2.33	0.43
1:A:2927:U:H2’	1:A:2928:U:C6	2.54	0.43
1:A:3038:U:OP2	3:MA:59:ARG:NH2	2.52	0.43
1:A:3123:C:N4	1:A:3124:A:H62	2.16	0.43
1:A:3368:C:H5”	1:A:3369:G:OP1	2.19	0.43
1:A:3389:A:H2’	1:A:3390:C:O4’	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3479:G:P	1:A:3480:U:OP1	2.75	0.43
1:A:3491:U:O2	1:A:3491:U:O4'	2.35	0.43
1:A:3564:G:C6	1:A:3565:U:C4	3.06	0.43
1:A:3610:C:N3	1:A:3611:C:C5	2.86	0.43
1:A:3654:A:C2	1:A:3655:U:C6	3.07	0.43
1:A:3681:C:C4	1:A:3760:G:N2	2.87	0.43
1:A:3796:C:H2'	1:A:3797:G:H5'	2.01	0.43
1:A:3880:U:C4	3:EA:45:GLU:HG2	2.53	0.43
1:A:4173:C:H4'	3:FI:99:TYR:CE1	2.53	0.43
1:A:4201:U:H4'	2:M:381:TYR:CE2	2.54	0.43
3:BA:60:LYS:CB	3:BA:61:ASN:CB	2.96	0.43
3:BE:11:ILE:CG2	3:BE:17:GLN:HB2	2.49	0.43
3:BE:110:THR:OG1	3:CE:11:ILE:HG23	2.18	0.43
3:BF:110:THR:OG1	3:IN:11:ILE:HD12	2.19	0.43
3:BH:93:THR:O	3:BH:93:THR:CG2	2.65	0.43
3:BI:73:ALA:HB1	3:BI:83:SER:O	2.18	0.43
3:BJ:86:ARG:NH1	3:BN:100:SER:HA	2.33	0.43
3:BJ:116:LEU:HA	3:BJ:121:LEU:HD12	2.00	0.43
3:CA:4:GLU:OE1	3:CA:5:THR:O	2.37	0.43
3:CA:52:VAL:HG11	3:DH:130:PRO:CA	2.48	0.43
3:CI:13:LYS:NZ	3:DI:103:GLU:CA	2.82	0.43
3:CL:121:LEU:HD21	3:HH:66:VAL:HG21	2.01	0.43
3:DA:109:ARG:HD2	3:DA:110:THR:N	2.34	0.43
3:DB:103:GLU:HA	3:DK:13:LYS:HZ2	1.82	0.43
3:DD:54:GLN:HB3	3:DD:55:PRO:HD2	2.00	0.43
3:DE:21:LEU:N	3:DE:21:LEU:HD22	2.34	0.43
3:DG:107:PHE:CE2	3:EJ:70:ASN:ND2	2.87	0.43
3:DG:110:THR:OG1	3:EJ:11:ILE:CD1	2.67	0.43
3:DI:27:ASN:ND2	3:DI:29:THR:HG1	2.17	0.43
3:DM:11:ILE:CG2	3:DM:17:GLN:HB3	2.48	0.43
3:EC:104:GLU:O	3:EC:108:VAL:HG23	2.18	0.43
3:ED:19:LEU:HD21	3:EH:107:PHE:CE1	2.54	0.43
3:ED:86:ARG:NH2	3:EH:99:TYR:CB	2.80	0.43
3:EG:21:LEU:HD23	3:EG:37:GLN:HA	1.99	0.43
3:EJ:55:PRO:HG3	3:EJ:62:TYR:CD1	2.54	0.43
3:EK:112:LEU:HD11	3:FM:92:VAL:HG21	1.99	0.43
3:EN:44:LEU:O	3:EN:44:LEU:HG	2.18	0.43
3:FB:103:GLU:HA	3:LJ:13:LYS:HD2	2.01	0.43
3:FC:37:GLN:OE1	3:FC:45:GLU:OE1	2.37	0.43
3:FE:107:PHE:CE2	3:FE:111:GLU:OE2	2.72	0.43
3:FF:52:VAL:HB	3:LF:130:PRO:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FJ:112:LEU:HD12	3:FJ:112:LEU:O	2.19	0.43
3:FN:11:ILE:HD11	3:HB:111:GLU:N	2.34	0.43
3:GC:62:TYR:CE2	3:GC:64:VAL:CG2	3.02	0.43
3:GD:60:LYS:HB2	3:GD:61:ASN:HB2	2.00	0.43
3:GD:119:PRO:HA	3:GD:122:ILE:HG12	2.00	0.43
3:GE:109:ARG:NH2	3:HE:126:ASP:H	2.17	0.43
3:GG:95:SER:OG	3:JE:89:TYR:HB2	2.19	0.43
3:GH:59:ARG:HB3	3:GH:61:ASN:OD1	2.17	0.43
3:HC:97:THR:HG1	3:HC:98:GLN:H	1.65	0.43
3:HH:21:LEU:HD13	3:HH:36:SER:C	2.39	0.43
3:HH:108:VAL:HA	3:HH:111:GLU:HG3	2.00	0.43
3:HN:99:TYR:O	3:ID:86:ARG:CZ	2.67	0.43
3:IB:34:SER:O	3:IB:35:LEU:HD23	2.18	0.43
3:IB:122:ILE:HD13	3:IK:109:ARG:NE	2.34	0.43
3:ID:6:VAL:HG12	3:ID:8:LEU:CD2	2.48	0.43
3:ID:8:LEU:HD22	3:ID:8:LEU:N	2.32	0.43
3:IE:127:GLN:CB	3:IE:129:ASN:OD1	2.67	0.43
3:IE:132:TYR:CA	3:JL:3:LEU:HD13	2.48	0.43
3:IF:94:PHE:CE1	3:NI:90:ALA:HB1	2.53	0.43
3:IF:102:ASP:OD2	3:IF:102:ASP:C	2.56	0.43
3:IG:68:ILE:HD11	3:JJ:115:LEU:CD1	2.48	0.43
3:IG:100:SER:OG	3:IG:101:THR:N	2.51	0.43
3:IM:11:ILE:HD11	3:JM:111:GLU:CA	2.47	0.43
3:IM:111:GLU:N	3:JM:11:ILE:HD11	2.34	0.43
3:JD:121:LEU:O	3:JD:125:ILE:HG22	2.18	0.43
3:JK:119:PRO:O	3:JK:122:ILE:HB	2.17	0.43
3:JN:22:ASN:OD1	3:JN:36:SER:O	2.36	0.43
3:KC:11:ILE:HD11	3:LC:111:GLU:HA	1.99	0.43
3:KC:110:THR:OG1	3:LC:11:ILE:HG23	2.18	0.43
3:KC:128:LEU:HD12	3:KC:128:LEU:N	2.33	0.43
3:KD:32:VAL:HG21	3:KD:49:THR:CG2	2.48	0.43
3:KF:44:LEU:O	3:KF:44:LEU:HG	2.18	0.43
3:KH:125:ILE:HD13	3:KL:64:VAL:HG11	2.00	0.43
3:KK:109:ARG:HE	3:KK:110:THR:HG23	1.83	0.43
3:KK:122:ILE:HA	3:MH:109:ARG:NH2	2.33	0.43
3:LB:121:LEU:HA	3:LB:124:ALA:HB3	2.00	0.43
3:LJ:44:LEU:O	3:LJ:44:LEU:HG	2.18	0.43
3:MA:118:SER:OG	3:MA:119:PRO:HD2	2.18	0.43
3:MJ:30:ASN:OD1	3:MJ:32:VAL:HG23	2.18	0.43
3:MJ:131:ALA:O	3:MJ:132:TYR:CD1	2.71	0.43
3:NE:11:ILE:CG2	3:NE:17:GLN:HB3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NF:59:ARG:HB3	3:NF:61:ASN:OD1	2.19	0.43
1:A:100:A:H62	1:A:115:G:C5'	2.32	0.43
1:A:656:C:H2'	1:A:657:U:C6	2.53	0.43
1:A:710:A:C5	1:A:711:C:C5	3.06	0.43
1:A:721:G:C2	1:A:722:U:C4	3.06	0.43
1:A:1064:A:C8	1:A:1216:C:N4	2.87	0.43
1:A:1069:C:P	3:ID:59:ARG:HH21	2.41	0.43
1:A:1109:G:C2	1:A:1110:A:C8	3.07	0.43
1:A:1335:A:N7	1:A:1583:U:O2'	2.48	0.43
1:A:1381:G:C2	1:A:1558:C:C2	3.06	0.43
1:A:1400:U:C5	1:A:1401:C:C5	3.06	0.43
1:A:1423:U:O3'	1:A:1424:A:C2	2.70	0.43
1:A:1539:C:H2'	1:A:1540:A:C8	2.54	0.43
1:A:1774:G:N1	1:A:1775:G:C5	2.87	0.43
1:A:1912:A:H2'	1:A:1913:U:O4'	2.19	0.43
1:A:1930:A:C2	1:A:1990:G:C2	3.06	0.43
1:A:2163:U:C2	1:A:2164:C:C6	3.07	0.43
1:A:2316:G:C2	1:A:2317:U:C6	3.07	0.43
1:A:2389:C:N4	1:A:2390:A:H62	2.15	0.43
1:A:2865:A:H5'	1:A:2890:C:N3	2.32	0.43
1:A:2870:U:H2'	1:A:2871:G:C8	2.53	0.43
1:A:3471:G:H1'	1:A:3514:U:C4	2.53	0.43
1:A:3481:A:H2'	1:A:3482:U:O4'	2.18	0.43
1:A:3547:A:H2'	1:A:3548:G:C1'	2.48	0.43
1:A:3761:U:H2'	1:A:3762:G:O4'	2.19	0.43
1:A:3767:C:O2	1:A:3769:U:O4	2.36	0.43
3:B:32:VAL:HG22	3:B:51:SER:HB2	2.00	0.43
3:BA:120:LEU:HD22	3:BA:120:LEU:N	2.34	0.43
3:BB:68:ILE:CG2	3:MA:111:GLU:OE2	2.66	0.43
3:BB:128:LEU:CD2	3:MA:62:TYR:CD2	3.00	0.43
3:BK:55:PRO:HG3	3:BK:62:TYR:CE1	2.54	0.43
3:BL:7:THR:C	3:BL:8:LEU:HD22	2.38	0.43
3:BL:19:LEU:HD11	3:CG:107:PHE:CZ	2.54	0.43
3:BM:1:ALA:HB1	3:DJ:131:ALA:HA	2.01	0.43
3:CB:41:VAL:N	3:CB:42:PRO:CD	2.80	0.43
3:CF:11:ILE:HG13	3:GM:110:THR:CG2	2.48	0.43
3:CN:20:VAL:C	3:CN:21:LEU:HD22	2.39	0.43
3:DE:102:ASP:OD1	3:DE:102:ASP:C	2.56	0.43
3:DF:60:LYS:HB2	3:DF:61:ASN:CB	2.48	0.43
3:DG:106:ALA:O	3:DG:109:ARG:HG2	2.18	0.43
3:DH:37:GLN:CB	3:DH:45:GLU:OE2	2.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:54:GLN:OE1	3:EE:62:TYR:HE2	2.02	0.43
3:EF:55:PRO:HG3	3:EF:62:TYR:CZ	2.53	0.43
3:EI:59:ARG:HG2	3:EI:60:LYS:H	1.84	0.43
3:EJ:41:VAL:N	3:EJ:42:PRO:CD	2.82	0.43
3:EJ:62:TYR:OH	3:EK:42:PRO:HB3	2.19	0.43
3:FE:110:THR:HG21	3:KI:12:GLY:O	2.19	0.43
3:FK:102:ASP:OD2	3:FL:40:ALA:HA	2.18	0.43
3:FL:2:LYS:CE	3:HD:132:TYR:OXT	2.67	0.43
3:FL:46:LYS:HE3	3:HD:107:PHE:CE2	2.54	0.43
3:FL:91:ASP:OD1	3:FL:91:ASP:N	2.50	0.43
3:FL:132:TYR:CG	3:HB:26:VAL:HG12	2.54	0.43
3:GE:48:VAL:HG22	3:GE:68:ILE:CD1	2.46	0.43
3:GF:126:ASP:HB3	3:GF:127:GLN:OE1	2.18	0.43
3:GH:10:ASN:OD1	3:GH:15:GLY:C	2.56	0.43
3:GK:128:LEU:HD11	3:JA:105:ARG:NE	2.34	0.43
3:HB:92:VAL:HG12	3:HB:94:PHE:CE1	2.53	0.43
3:HC:14:ASP:O	3:HC:16:LYS:NZ	2.42	0.43
3:HE:131:ALA:C	3:HE:132:TYR:HD1	2.22	0.43
3:HG:118:SER:O	3:HG:122:ILE:HG13	2.17	0.43
3:HI:3:LEU:HD21	3:II:131:ALA:O	2.18	0.43
3:HJ:55:PRO:HB2	3:HJ:60:LYS:HD3	2.01	0.43
3:IB:11:ILE:HG23	3:IB:17:GLN:HB2	2.01	0.43
3:IB:125:ILE:CG2	3:IB:126:ASP:N	2.82	0.43
3:II:18:THR:O	3:II:19:LEU:HD22	2.19	0.43
3:II:98:GLN:NE2	3:IJ:43:ALA:HB2	2.34	0.43
3:IJ:8:LEU:HA	3:IJ:8:LEU:HD23	1.77	0.43
3:JJ:122:ILE:HG13	3:JJ:123:ASP:N	2.33	0.43
3:JN:3:LEU:HD11	3:JN:33:ALA:HB1	2.01	0.43
3:JN:125:ILE:O	3:JN:128:LEU:CD1	2.67	0.43
3:KB:27:ASN:O	3:KB:31:GLY:N	2.51	0.43
3:KC:23:PRO:HA	3:KC:35:LEU:CD2	2.48	0.43
3:KC:49:THR:OG1	3:KC:67:LYS:HB3	2.17	0.43
3:KH:101:THR:O	3:KH:105:ARG:HG3	2.19	0.43
3:KJ:52:VAL:HG22	3:LE:130:PRO:HA	2.00	0.43
3:LA:126:ASP:H	3:MD:109:ARG:NH2	2.17	0.43
3:LF:42:PRO:HA	3:LF:45:GLU:CG	2.48	0.43
3:LL:19:LEU:HD21	3:MB:107:PHE:CE1	2.54	0.43
3:MA:41:VAL:N	3:MA:42:PRO:CD	2.82	0.43
3:MG:56:SER:OG	3:MG:59:ARG:HB2	2.19	0.43
3:MG:56:SER:O	3:MG:59:ARG:O	2.37	0.43
3:MN:79:SER:O	3:MN:80:CYS:CB	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NG:11:ILE:CG2	3:NG:17:GLN:HB2	2.48	0.43
3:NI:21:LEU:HB3	3:NI:35:LEU:HB3	2.01	0.43
3:NJ:52:VAL:CG1	3:NJ:64:VAL:HG22	2.43	0.43
1:A:270:C:H2'	1:A:271:G:N7	2.33	0.43
1:A:388:A:H2'	1:A:389:A:C8	2.53	0.43
1:A:532:A:P	3:DI:59:ARG:HH22	2.41	0.43
1:A:797:A:C2	1:A:821:A:N6	2.87	0.43
1:A:895:G:N7	1:A:900:C:P	2.92	0.43
1:A:1080:U:H2'	1:A:1081:A:C1'	2.49	0.43
1:A:1191:U:H2'	1:A:1192:G:H8	1.83	0.43
1:A:1216:C:H2'	1:A:1218:U:O4	2.19	0.43
1:A:1312:G:OP2	3:GM:63:LYS:CE	2.66	0.43
1:A:1371:G:O2'	3:GN:57:ARG:CZ	2.66	0.43
1:A:1623:A:OP1	3:IL:57:ARG:NH1	2.52	0.43
1:A:1769:C:H2'	1:A:1770:U:C6	2.54	0.43
1:A:1944:G:H3'	1:A:1945:A:O4'	2.19	0.43
1:A:2014:C:H2'	1:A:2015:G:C8	2.54	0.43
1:A:2214:G:O2'	1:A:2215:G:O5'	2.36	0.43
1:A:2240:U:H2'	1:A:2241:C:O4'	2.18	0.43
1:A:2539:C:H2'	1:A:2540:G:C8	2.54	0.43
1:A:2606:U:O3'	3:EI:59:ARG:NH1	2.52	0.43
1:A:2677:G:C2	1:A:2775:G:N1	2.86	0.43
1:A:2803:A:H2'	1:A:2804:C:C6	2.53	0.43
1:A:2906:G:H2'	1:A:2907:U:O4'	2.19	0.43
1:A:3024:G:C6	1:A:3060:G:C6	3.06	0.43
1:A:3271:G:C2	1:A:3272:G:C5	3.07	0.43
1:A:3343:U:H2'	1:A:3344:C:C6	2.53	0.43
1:A:3394:A:OP2	1:A:3394:A:C8	2.72	0.43
1:A:3555:U:O2'	1:A:3556:A:C5'	2.67	0.43
1:A:3887:C:H2'	1:A:3888:C:C6	2.54	0.43
1:A:3897:C:H2'	1:A:3898:G:O4'	2.18	0.43
1:A:3999:C:C2'	1:A:4000:C:O4'	2.66	0.43
1:A:4131:G:P	3:FI:59:ARG:HH22	2.42	0.43
1:A:4141:G:H8	1:A:4141:G:O5'	2.01	0.43
3:BB:52:VAL:HG11	3:MA:130:PRO:HG3	2.01	0.43
3:BD:25:GLY:N	3:IN:129:ASN:OD1	2.52	0.43
3:BD:27:ASN:O	3:BD:31:GLY:N	2.49	0.43
3:BG:25:GLY:HA3	3:HM:130:PRO:O	2.18	0.43
3:BH:47:ARG:HB2	3:BH:69:GLN:HG2	2.00	0.43
3:BL:109:ARG:HD3	3:CG:116:LEU:O	2.19	0.43
3:BM:128:LEU:HD12	3:BM:128:LEU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CA:11:ILE:HD12	3:DH:110:THR:OG1	2.17	0.43
3:CA:23:PRO:HA	3:CA:35:LEU:CD2	2.49	0.43
3:CA:24:ARG:HB2	3:CA:34:SER:OG	2.19	0.43
3:CA:62:TYR:OH	3:CA:98:GLN:NE2	2.49	0.43
3:CD:32:VAL:HG12	3:CD:51:SER:CB	2.48	0.43
3:CF:11:ILE:HG21	3:CF:19:LEU:CD2	2.49	0.43
3:CF:49:THR:OG1	3:CF:67:LYS:HB2	2.19	0.43
3:CF:62:TYR:CG	3:GM:128:LEU:CD2	3.02	0.43
3:CH:115:LEU:O	3:CH:121:LEU:HD13	2.18	0.43
3:CK:32:VAL:HG22	3:CK:51:SER:HB3	2.00	0.43
3:CK:84:VAL:CG1	3:CK:87:GLN:OE1	2.67	0.43
3:CM:3:LEU:HD12	3:CM:23:PRO:CB	2.49	0.43
3:CN:13:LYS:CE	3:DD:103:GLU:HG2	2.48	0.43
3:CN:49:THR:OG1	3:CN:67:LYS:HB2	2.18	0.43
3:DA:79:SER:O	3:DA:80:CYS:CB	2.66	0.43
3:DB:24:ARG:HA	3:MM:130:PRO:CG	2.49	0.43
3:DC:81:ASP:OD2	3:DE:99:TYR:CE2	2.72	0.43
3:DE:55:PRO:CB	3:DE:60:LYS:HD3	2.49	0.43
3:DF:21:LEU:HD13	3:DF:36:SER:C	2.38	0.43
3:DG:58:ASN:OD1	3:DG:59:ARG:HG2	2.19	0.43
3:DG:109:ARG:CD	3:EJ:122:ILE:HD12	2.49	0.43
3:DL:102:ASP:OD1	3:DL:102:ASP:N	2.51	0.43
3:ED:24:ARG:HA	3:ED:24:ARG:CZ	2.48	0.43
3:ED:81:ASP:OD2	3:EF:99:TYR:CD2	2.72	0.43
3:ED:114:ALA:HB1	3:EH:8:LEU:CD1	2.49	0.43
3:ED:122:ILE:CG2	3:EH:109:ARG:NH1	2.76	0.43
3:EE:67:LYS:HZ3	3:EE:89:TYR:CB	2.31	0.43
3:EF:55:PRO:HB2	3:EF:60:LYS:HD2	2.00	0.43
3:EG:19:LEU:HD21	3:EG:21:LEU:HD21	2.01	0.43
3:EG:119:PRO:O	3:EG:122:ILE:HG12	2.18	0.43
3:EI:8:LEU:HD22	3:EI:8:LEU:N	2.34	0.43
3:EL:77:ASN:OD1	3:EL:77:ASN:O	2.37	0.43
3:FB:19:LEU:HG	3:FB:37:GLN:OE1	2.18	0.43
3:FB:110:THR:HB	3:LJ:11:ILE:HG13	1.99	0.43
3:FC:121:LEU:CD1	3:GB:66:VAL:HG21	2.48	0.43
3:FE:13:LYS:NZ	3:KI:102:ASP:OD2	2.48	0.43
3:FH:123:ASP:HB3	3:FH:129:ASN:HD21	1.83	0.43
3:FI:119:PRO:O	3:FI:122:ILE:HB	2.19	0.43
3:FJ:101:THR:HB	3:FJ:103:GLU:HG2	2.00	0.43
3:FK:132:TYR:OH	3:KE:132:TYR:CE2	2.71	0.43
3:FL:55:PRO:HG3	3:FL:62:TYR:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GD:107:PHE:CE1	3:KF:17:GLN:NE2	2.87	0.43
3:GG:53:SER:O	3:GG:59:ARG:NH2	2.52	0.43
3:GG:106:ALA:HB3	3:JE:13:LYS:HE3	1.98	0.43
3:GG:119:PRO:O	3:GG:122:ILE:HG12	2.19	0.43
3:GL:2:LYS:O	3:GL:4:GLU:OE1	2.36	0.43
3:GL:91:ASP:OD2	3:HG:93:THR:HB	2.18	0.43
3:HA:48:VAL:O	3:HA:48:VAL:HG13	2.17	0.43
3:HB:56:SER:O	3:HB:59:ARG:O	2.37	0.43
3:HC:6:VAL:HG12	3:HC:8:LEU:HD22	2.00	0.43
3:HG:84:VAL:O	3:HG:84:VAL:HG13	2.19	0.43
3:HI:34:SER:C	3:HI:35:LEU:HD22	2.39	0.43
3:HI:68:ILE:HG23	3:II:111:GLU:OE2	2.18	0.43
3:IB:32:VAL:O	3:IB:32:VAL:HG23	2.19	0.43
3:IC:27:ASN:OD1	3:IC:29:THR:N	2.50	0.43
3:IC:99:TYR:OH	3:ID:84:VAL:HG12	2.18	0.43
3:IC:128:LEU:HD11	3:JN:105:ARG:NE	2.34	0.43
3:IC:130:PRO:CA	3:JN:52:VAL:HG21	2.49	0.43
3:ID:54:GLN:OE1	3:ID:55:PRO:HD2	2.18	0.43
3:IE:56:SER:HG	3:IE:61:ASN:CG	2.19	0.43
3:IL:24:ARG:HB2	3:IL:34:SER:OG	2.19	0.43
3:JA:54:GLN:HB3	3:JA:55:PRO:HD2	2.00	0.43
3:JI:32:VAL:HG12	3:JI:51:SER:CB	2.49	0.43
3:JM:56:SER:OG	3:JM:57:ARG:N	2.52	0.43
3:KC:37:GLN:C	3:KC:45:GLU:OE2	2.57	0.43
3:KC:79:SER:O	3:KC:80:CYS:CB	2.66	0.43
3:KG:49:THR:HB	3:KG:67:LYS:CG	2.48	0.43
3:KK:59:ARG:CG	3:KK:63:LYS:HG2	2.48	0.43
3:KM:122:ILE:HG13	3:MF:109:ARG:HH22	1.83	0.43
3:LB:32:VAL:HG12	3:LB:51:SER:HB3	2.00	0.43
3:LD:79:SER:O	3:LD:80:CYS:CB	2.66	0.43
3:LE:32:VAL:HG12	3:LE:51:SER:HB2	2.00	0.43
3:MC:111:GLU:CA	3:NJ:11:ILE:HD11	2.49	0.43
3:MJ:11:ILE:HG21	3:MJ:19:LEU:HD23	2.00	0.43
3:MJ:55:PRO:HD3	3:MJ:62:TYR:CD2	2.54	0.43
3:MM:41:VAL:N	3:MM:42:PRO:CD	2.81	0.43
3:NB:100:SER:OG	3:NB:105:ARG:NH1	2.52	0.43
3:ND:101:THR:HG23	3:ND:104:GLU:H	1.83	0.43
3:NG:14:ASP:OD1	3:NG:14:ASP:N	2.51	0.43
3:NH:52:VAL:O	3:NH:52:VAL:CG2	2.66	0.43
1:A:189:U:OP1	1:A:260:A:C8	2.72	0.43
1:A:268:A:H2'	1:A:269:C:H6	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:276:G:C2	1:A:296:G:O6	2.71	0.43
1:A:435:G:H8	1:A:435:G:OP2	2.02	0.43
1:A:846:G:H22	1:A:847:A:H62	1.65	0.43
1:A:986:A:C6	1:A:1024:G:C6	3.07	0.43
1:A:1062:A:C2'	1:A:1063:C:O4'	2.66	0.43
1:A:1366:C:H2'	1:A:1367:U:C6	2.54	0.43
1:A:1493:C:H2'	1:A:1494:G:C8	2.54	0.43
1:A:1656:G:O6	1:A:1657:A:N6	2.52	0.43
1:A:1747:C:H2'	1:A:1748:A:C8	2.54	0.43
1:A:1999:G:O4'	3:GI:56:SER:HA	2.19	0.43
1:A:2030:U:C4	1:A:2031:G:N7	2.86	0.43
1:A:2034:A:C2	1:A:2127:G:O6	2.72	0.43
1:A:2051:U:H1'	1:A:2053:A:H61	1.84	0.43
1:A:2246:C:C3'	3:HF:47:ARG:HH12	2.32	0.43
1:A:2249:C:O2	1:A:2250:G:O6	2.37	0.43
1:A:2274:A:H2'	1:A:2275:C:O4'	2.18	0.43
1:A:2317:U:O2	1:A:2317:U:H2'	2.18	0.43
1:A:2429:A:O2'	1:A:2892:C:H4'	2.19	0.43
1:A:2484:C:N4	1:A:2590:A:H61	2.16	0.43
1:A:2557:A:O3'	1:A:2558:U:O4'	2.37	0.43
1:A:2723:C:C1'	1:A:2807:C:O2'	2.66	0.43
1:A:2810:A:H2'	1:A:2812:U:OP2	2.19	0.43
1:A:2914:U:C2	1:A:2929:C:O2	2.72	0.43
1:A:3123:C:N4	1:A:3124:A:N6	2.66	0.43
1:A:3205:C:O5'	1:A:3205:C:H6	2.01	0.43
1:A:3618:A:O3'	1:A:3619:U:O4'	2.35	0.43
1:A:3714:C:O2	1:A:3723:C:N4	2.52	0.43
1:A:3716:U:H3'	1:A:3718:A:OP2	2.18	0.43
1:A:3759:G:O6	3:FD:58:ASN:CG	2.56	0.43
1:A:3808:G:O3'	3:KH:57:ARG:C	2.57	0.43
1:A:3930:C:C4	1:A:3931:U:C4	3.06	0.43
1:A:4095:A:O2'	1:A:4097:G:OP2	2.35	0.43
1:A:4098:G:N1	1:A:4123:C:N3	2.66	0.43
1:A:4138:U:H2'	1:A:4139:A:C8	2.54	0.43
1:A:4164:U:O5'	1:A:4164:U:H6	2.01	0.43
3:B:8:LEU:HD21	3:B:11:ILE:CD1	2.34	0.43
3:BA:24:ARG:HD2	3:ND:129:ASN:HD21	1.83	0.43
3:BC:97:THR:HG21	3:ND:86:ARG:HG3	2.00	0.43
3:BC:108:VAL:O	3:BC:111:GLU:HG3	2.19	0.43
3:BD:55:PRO:HD3	3:BD:62:TYR:CE2	2.54	0.43
3:BD:132:TYR:O	3:JB:2:LYS:CE	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:116:LEU:HG	3:IN:113:ALA:HB2	2.00	0.43
3:BF:132:TYR:OXT	3:IN:2:LYS:HA	2.19	0.43
3:BI:132:TYR:HD1	3:HM:26:VAL:CG1	2.31	0.43
3:BK:53:SER:HB3	3:BK:63:LYS:HE2	2.01	0.43
3:BL:8:LEU:HD22	3:BL:8:LEU:N	2.33	0.43
3:BL:56:SER:O	3:BL:60:LYS:CD	2.66	0.43
3:BL:56:SER:O	3:BL:60:LYS:HD2	2.19	0.43
3:BL:71:PRO:O	3:BL:72:THR:OG1	2.28	0.43
3:BL:103:GLU:CA	3:CG:13:LYS:HZ2	2.31	0.43
3:BL:128:LEU:CD2	3:CG:62:TYR:HD2	2.30	0.43
3:CA:51:SER:OG	3:CA:65:GLN:OE1	2.14	0.43
3:CB:54:GLN:HA	3:CB:62:TYR:CD1	2.53	0.43
3:CC:74:CYS:SG	3:DG:79:SER:O	2.76	0.43
3:CC:96:PHE:HB3	3:CC:100:SER:OG	2.19	0.43
3:CF:3:LEU:CD2	3:GM:131:ALA:HB1	2.48	0.43
3:CF:122:ILE:CD1	3:GM:109:ARG:NH1	2.82	0.43
3:CK:58:ASN:O	3:CK:59:ARG:CZ	2.66	0.43
3:CL:122:ILE:CD1	3:HH:109:ARG:CZ	2.96	0.43
3:DC:56:SER:O	3:DC:59:ARG:O	2.37	0.43
3:DC:126:ASP:HB2	3:DC:127:GLN:OE1	2.18	0.43
3:DF:13:LYS:CD	3:DF:13:LYS:H	2.31	0.43
3:DG:74:CYS:HA	3:EK:80:CYS:HB3	2.00	0.43
3:DM:13:LYS:NZ	3:EM:103:GLU:CB	2.82	0.43
3:DM:115:LEU:HD22	3:EM:8:LEU:CD1	2.48	0.43
3:EA:60:LYS:HB2	3:EA:61:ASN:HB3	2.01	0.43
3:EB:79:SER:O	3:EB:80:CYS:CB	2.66	0.43
3:ED:99:TYR:CZ	3:EE:43:ALA:HB1	2.54	0.43
3:EI:24:ARG:HB2	3:EI:34:SER:OG	2.18	0.43
3:EL:14:ASP:OD1	3:EL:15:GLY:N	2.52	0.43
3:EN:115:LEU:CD2	3:EN:121:LEU:HD11	2.48	0.43
3:FA:102:ASP:N	3:FA:102:ASP:OD1	2.52	0.43
3:FB:102:ASP:HB2	3:LJ:126:ASP:O	2.18	0.43
3:FC:101:THR:O	3:FC:105:ARG:HG3	2.19	0.43
3:FC:107:PHE:CE2	3:FC:111:GLU:OE1	2.72	0.43
3:FE:52:VAL:O	3:FE:52:VAL:CG2	2.64	0.43
3:FG:55:PRO:CG	3:FG:60:LYS:HD2	2.49	0.43
3:FG:125:ILE:O	3:FG:128:LEU:HD23	2.19	0.43
3:FL:13:LYS:NZ	3:HD:103:GLU:HA	2.33	0.43
3:FL:52:VAL:CG2	3:HD:130:PRO:HA	2.48	0.43
3:GA:32:VAL:HG12	3:GA:51:SER:HB2	2.01	0.43
3:GE:86:ARG:O	3:GE:87:GLN:NE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GE:111:GLU:N	3:HE:11:ILE:HD11	2.33	0.43
3:GG:93:THR:O	3:JE:91:ASP:OD2	2.36	0.43
3:GI:56:SER:N	3:GI:60:LYS:HA	2.33	0.43
3:GJ:130:PRO:HB3	3:GN:52:VAL:HG12	2.00	0.43
3:GL:73:ALA:HB1	3:GL:83:SER:O	2.19	0.43
3:HD:4:GLU:OE1	3:HD:5:THR:O	2.37	0.43
3:HE:97:THR:N	3:HE:100:SER:HG	2.17	0.43
3:HK:81:ASP:O	3:HK:81:ASP:OD1	2.36	0.43
3:IA:55:PRO:HD3	3:IA:62:TYR:CE2	2.53	0.43
3:IB:86:ARG:CZ	3:IK:100:SER:HA	2.48	0.43
3:ID:62:TYR:OH	3:IE:42:PRO:HB2	2.19	0.43
3:IF:41:VAL:O	3:IF:44:LEU:N	2.43	0.43
3:IF:125:ILE:CD1	3:NI:64:VAL:HG11	2.49	0.43
3:IG:1:ALA:HB3	3:JJ:131:ALA:HA	2.01	0.43
3:IL:4:GLU:OE1	3:IL:5:THR:O	2.37	0.43
3:IM:30:ASN:OD1	3:IM:32:VAL:HG23	2.19	0.43
3:JA:120:LEU:HD23	3:JA:121:LEU:N	2.34	0.43
3:JC:126:ASP:HB2	3:JC:127:GLN:OE1	2.18	0.43
3:JD:41:VAL:HG13	3:JD:44:LEU:HD11	1.99	0.43
3:JE:32:VAL:HG13	3:JE:50:VAL:O	2.19	0.43
3:JF:132:TYR:OXT	3:KA:2:LYS:HA	2.19	0.43
3:KB:34:SER:O	3:KB:35:LEU:HD12	2.19	0.43
3:KC:102:ASP:OD1	3:KC:103:GLU:OE1	2.37	0.43
3:KG:55:PRO:HB3	3:KG:60:LYS:HB3	2.01	0.43
3:KH:11:ILE:HD11	3:KL:107:PHE:O	2.18	0.43
3:KJ:112:LEU:HD21	3:LE:92:VAL:HG21	1.99	0.43
3:KM:126:ASP:O	3:KM:127:GLN:NE2	2.51	0.43
3:LC:32:VAL:HG22	3:LC:51:SER:HB3	2.01	0.43
3:LF:11:ILE:HG13	3:LF:17:GLN:HB2	2.00	0.43
3:LG:106:ALA:HB3	3:MG:13:LYS:HE3	2.01	0.43
3:LJ:22:ASN:O	3:LJ:35:LEU:HD23	2.18	0.43
3:LL:49:THR:OG1	3:LL:67:LYS:HB2	2.19	0.43
3:LL:52:VAL:O	3:LL:52:VAL:HG13	2.18	0.43
3:LL:107:PHE:CD2	3:MB:46:LYS:NZ	2.87	0.43
3:LN:74:CYS:SG	3:LN:74:CYS:O	2.77	0.43
3:LN:102:ASP:O	3:MI:13:LYS:CE	2.67	0.43
3:MD:122:ILE:HG13	3:MD:123:ASP:N	2.34	0.43
3:ML:55:PRO:HB3	3:ML:60:LYS:HG3	2.00	0.43
3:NG:24:ARG:HA	3:NG:24:ARG:NE	2.34	0.43
3:NG:125:ILE:CG2	3:NG:126:ASP:N	2.81	0.43
1:A:544:G:C2	1:A:545:G:N7	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:851:G:N2	1:A:853:G:OP1	2.52	0.43
1:A:865:G:O2'	1:A:866:A:O4'	2.30	0.43
1:A:975:C:N4	1:A:976:A:H62	2.17	0.43
1:A:1013:A:H2'	1:A:1014:C:O4'	2.18	0.43
1:A:1043:U:H2'	1:A:1044:U:C2	2.54	0.43
1:A:1078:C:N4	1:A:1079:A:N6	2.66	0.43
1:A:1104:U:C4	3:NH:58:ASN:OD1	2.71	0.43
1:A:1433:U:H2'	1:A:1434:A:C5	2.54	0.43
1:A:1450:U:C2	1:A:1451:U:C5	3.07	0.43
1:A:1672:G:N2	1:A:1743:U:N3	2.66	0.43
1:A:1794:A:N3	1:A:1794:A:O5'	2.51	0.43
1:A:1838:U:C2	1:A:1839:A:C8	3.07	0.43
1:A:1865:A:N6	1:A:1890:A:C6	2.87	0.43
1:A:1897:G:N7	1:A:2019:C:OP1	2.51	0.43
1:A:2044:U:C2	1:A:2120:A:O2'	2.68	0.43
1:A:2236:G:H2'	1:A:2237:C:H6	1.84	0.43
1:A:2328:G:N1	1:A:2343:A:H2	2.17	0.43
1:A:2403:G:C5	1:A:2404:C:C6	3.07	0.43
1:A:2630:G:C6	1:A:2631:G:C5	3.06	0.43
1:A:2778:C:H3'	1:A:2779:C:C6	2.54	0.43
1:A:3044:U:C5	1:A:3045:U:H1'	2.54	0.43
1:A:3174:C:N3	1:A:3175:U:O4	2.52	0.43
1:A:3392:G:H2'	1:A:3393:G:C8	2.54	0.43
1:A:3542:C:N4	3:GD:58:ASN:O	2.50	0.43
1:A:3709:U:C2	1:A:3728:A:C2	3.07	0.43
1:A:3724:U:OP1	3:ML:56:SER:HB3	2.19	0.43
1:A:3941:A:H2'	1:A:3942:U:H6	1.84	0.43
1:A:3995:U:O2	1:A:3995:U:H5"	2.17	0.43
1:A:4008:A:C4	1:A:4009:U:C6	3.07	0.43
3:B:47:ARG:HB3	3:B:69:GLN:HB2	2.01	0.43
3:BA:32:VAL:HG22	3:BA:51:SER:OG	2.18	0.43
3:BA:60:LYS:CB	3:BA:61:ASN:HB3	2.48	0.43
3:BA:101:THR:OG1	3:BA:104:GLU:HG2	2.19	0.43
3:BA:128:LEU:HD11	3:MK:105:ARG:NE	2.34	0.43
3:BC:128:LEU:O	3:NB:24:ARG:NH2	2.43	0.43
3:BF:91:ASP:OD1	3:IN:93:THR:HB	2.18	0.43
3:BF:123:ASP:O	3:BF:123:ASP:OD1	2.36	0.43
3:BK:19:LEU:HD11	3:BK:37:GLN:HG3	2.00	0.43
3:BK:45:GLU:OE2	3:BK:46:LYS:O	2.36	0.43
3:BK:86:ARG:HH22	3:HK:101:THR:HG23	1.82	0.43
3:BL:50:VAL:HG22	3:BL:66:VAL:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:6:VAL:HG12	3:CD:8:LEU:CD2	2.49	0.43
3:CE:123:ASP:OD1	3:CE:123:ASP:O	2.36	0.43
3:CF:59:ARG:HG2	3:CF:61:ASN:O	2.18	0.43
3:CG:8:LEU:N	3:CG:8:LEU:CD1	2.81	0.43
3:CJ:130:PRO:HD2	3:HH:25:GLY:H	1.84	0.43
3:CN:120:LEU:HD22	3:CN:121:LEU:HD23	2.01	0.43
3:DB:68:ILE:HD11	3:DK:111:GLU:CD	2.40	0.43
3:DH:22:ASN:N	3:DH:36:SER:O	2.38	0.43
3:DK:118:SER:O	3:DK:122:ILE:HG13	2.18	0.43
3:DL:3:LEU:HD23	3:MN:132:TYR:CA	2.48	0.43
3:DM:21:LEU:CD2	3:DM:48:VAL:HG21	2.49	0.43
3:DM:115:LEU:C	3:DM:121:LEU:HD12	2.38	0.43
3:DM:122:ILE:HG12	3:EM:109:ARG:HH12	1.84	0.43
3:EA:58:ASN:OD1	3:EA:59:ARG:HG2	2.18	0.43
3:ED:115:LEU:O	3:ED:121:LEU:HD13	2.19	0.43
3:ED:122:ILE:HG13	3:ED:123:ASP:N	2.34	0.43
3:EF:42:PRO:CA	3:EF:45:GLU:OE1	2.67	0.43
3:EI:11:ILE:O	3:EI:17:GLN:OE1	2.37	0.43
3:EI:128:LEU:HD12	3:GA:105:ARG:NH1	2.33	0.43
3:EK:14:ASP:OD1	3:EK:15:GLY:N	2.52	0.43
3:EN:101:THR:OG1	3:EN:104:GLU:HG2	2.18	0.43
3:FA:119:PRO:HA	3:FA:122:ILE:HB	2.00	0.43
3:FE:68:ILE:HD11	3:KI:111:GLU:CG	2.48	0.43
3:FI:74:CYS:SG	3:FI:74:CYS:O	2.77	0.43
3:FL:53:SER:OG	3:FL:63:LYS:HB2	2.19	0.43
3:GE:99:TYR:C	3:HE:86:ARG:NH1	2.72	0.43
3:GG:59:ARG:HG2	3:GG:60:LYS:N	2.34	0.43
3:GH:43:ALA:C	3:GH:44:LEU:HD12	2.39	0.43
3:GH:48:VAL:HG22	3:GH:68:ILE:HD12	1.99	0.43
3:GL:111:GLU:CD	3:HG:19:LEU:HD22	2.38	0.43
3:GM:123:ASP:OD2	3:GM:129:ASN:ND2	2.52	0.43
3:HA:109:ARG:HH11	3:HA:109:ARG:HG2	1.84	0.43
3:HC:54:GLN:HB3	3:HC:55:PRO:CD	2.48	0.43
3:HD:117:ALA:O	3:HD:122:ILE:HD11	2.19	0.43
3:HH:54:GLN:O	3:HH:59:ARG:CD	2.67	0.43
3:HH:130:PRO:HB2	3:HH:132:TYR:CD1	2.54	0.43
3:HJ:55:PRO:HG3	3:HJ:62:TYR:CE2	2.53	0.43
3:HL:11:ILE:CG2	3:HL:17:GLN:HB2	2.49	0.43
3:HN:41:VAL:N	3:HN:42:PRO:CD	2.82	0.43
3:IC:45:GLU:HB3	3:IC:71:PRO:HG2	2.01	0.43
3:IF:72:THR:HB	3:IF:86:ARG:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:II:58:ASN:OD1	3:II:59:ARG:N	2.52	0.43
3:IJ:14:ASP:OD1	3:IJ:14:ASP:C	2.56	0.43
3:IM:64:VAL:HG11	3:JM:125:ILE:HD11	2.01	0.43
3:JB:92:VAL:HG11	3:JB:94:PHE:CZ	2.53	0.43
3:JD:98:GLN:HE21	3:JE:43:ALA:CA	2.32	0.43
3:JE:48:VAL:HG22	3:JE:68:ILE:CD1	2.48	0.43
3:JI:101:THR:O	3:JI:104:GLU:HG2	2.18	0.43
3:JK:128:LEU:HD23	3:KN:62:TYR:CD2	2.54	0.43
3:JM:37:GLN:OE1	3:JM:46:LYS:CE	2.66	0.43
3:JN:61:ASN:ND2	3:JN:96:PHE:O	2.52	0.43
3:KH:68:ILE:HD12	3:KL:111:GLU:OE2	2.19	0.43
3:KH:112:LEU:HD11	3:KL:92:VAL:CG2	2.48	0.43
3:KJ:11:ILE:HG23	3:KJ:17:GLN:HB2	2.01	0.43
3:KN:4:GLU:N	3:KN:4:GLU:OE1	2.52	0.43
3:KN:18:THR:C	3:KN:19:LEU:HD22	2.38	0.43
3:LA:4:GLU:OE1	3:LA:5:THR:O	2.37	0.43
3:LB:43:ALA:C	3:LB:44:LEU:HD22	2.39	0.43
3:LG:104:GLU:OE2	3:MG:86:ARG:NH2	2.49	0.43
3:LI:60:LYS:HB2	3:LI:61:ASN:HB2	2.00	0.43
3:LI:69:GLN:HG2	3:LI:87:GLN:NE2	2.33	0.43
3:LK:112:LEU:O	3:LK:116:LEU:HG	2.19	0.43
3:LM:121:LEU:HA	3:LM:124:ALA:HB3	2.01	0.43
3:MB:26:VAL:HG23	3:MB:33:ALA:N	2.33	0.43
3:MC:2:LYS:HA	3:NJ:132:TYR:OXT	2.18	0.43
3:ME:17:GLN:HG3	3:ME:18:THR:N	2.34	0.43
3:ME:99:TYR:N	3:ME:99:TYR:CD1	2.87	0.43
3:MF:22:ASN:OD1	3:NH:129:ASN:ND2	2.52	0.43
3:MJ:119:PRO:HA	3:MJ:122:ILE:CG1	2.48	0.43
3:MM:6:VAL:HG12	3:MM:8:LEU:HD21	2.00	0.43
3:NB:62:TYR:CE2	3:NB:98:GLN:OE1	2.72	0.43
3:NG:59:ARG:HG3	3:NG:61:ASN:OD1	2.18	0.43
3:NJ:91:ASP:OD1	3:NJ:91:ASP:C	2.57	0.43
1:A:11:U:C4	1:A:13:U:OP1	2.71	0.43
1:A:161:A:H2'	1:A:162:C:O4'	2.18	0.43
1:A:163:A:H2'	1:A:164:C:H6	1.83	0.43
1:A:490:A:H4'	3:HK:58:ASN:OD1	2.19	0.43
1:A:685:U:H2'	1:A:686:A:C8	2.54	0.43
1:A:1168:A:H2'	1:A:1169:A:O4'	2.18	0.43
1:A:1240:A:H1'	1:A:1243:C:C6	2.54	0.43
1:A:1311:C:H4'	3:GM:58:ASN:HB2	2.01	0.43
1:A:1425:A:H62	1:A:2603:A:H4'	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1775:G:OP1	3:JB:59:ARG:HD2	2.19	0.43
1:A:1834:A:N7	1:A:1836:U:C6	2.86	0.43
1:A:2249:C:O3'	3:HE:57:ARG:CZ	2.67	0.43
1:A:2441:A:C6	1:A:2442:C:C4	3.07	0.43
1:A:2443:U:O4	1:A:2444:U:C5	2.72	0.43
1:A:2483:G:C2	1:A:2484:C:C2	3.07	0.43
1:A:2507:U:H2'	1:A:2507:U:O2	2.18	0.43
1:A:2511:U:C4	1:A:2512:C:C4	3.07	0.43
1:A:2521:C:C4	1:A:2522:G:C5	3.06	0.43
1:A:2651:G:H2'	1:A:2652:G:C8	2.54	0.43
1:A:2685:A:C2	1:A:2766:A:N1	2.87	0.43
1:A:2778:C:H2'	1:A:2779:C:O4'	2.18	0.43
1:A:2921:C:C5'	1:A:2922:A:OP2	2.67	0.43
1:A:2947:G:H2'	1:A:2948:A:C8	2.54	0.43
1:A:2949:A:N3	1:A:2951:U:O4	2.52	0.43
1:A:3039:A:H2'	1:A:3040:U:C5'	2.49	0.43
1:A:3215:G:C8	1:A:3216:C:N3	2.87	0.43
1:A:3248:U:H3'	1:A:3249:A:C5'	2.49	0.43
1:A:3263:A:C5	1:A:3264:C:C5	3.06	0.43
1:A:3267:A:O3'	1:A:3268:A:O4'	2.37	0.43
1:A:3771:G:P	3:LH:67:LYS:HZ3	2.42	0.43
1:A:4166:A:C6	1:A:4167:C:C4	3.06	0.43
3:BB:8:LEU:HD11	3:MA:114:ALA:CB	2.44	0.43
3:BB:47:ARG:HH11	3:BB:47:ARG:HG3	1.83	0.43
3:BB:48:VAL:HG11	3:MA:115:LEU:HD21	2.01	0.43
3:BB:99:TYR:C	3:MA:86:ARG:HH21	2.19	0.43
3:BD:128:LEU:HD23	3:JB:62:TYR:CD2	2.53	0.43
3:BF:99:TYR:O	3:IN:86:ARG:NH1	2.33	0.43
3:BF:130:PRO:HD2	3:IL:25:GLY:H	1.83	0.43
3:BG:92:VAL:HG22	3:IA:92:VAL:HG13	2.01	0.43
3:BJ:3:LEU:HG	3:BJ:23:PRO:CB	2.48	0.43
3:BN:80:CYS:HB3	3:DJ:74:CYS:HA	2.00	0.43
3:BN:121:LEU:HD12	3:BN:121:LEU:N	2.34	0.43
3:CD:8:LEU:HB2	3:CD:19:LEU:HB3	2.01	0.43
3:CI:125:ILE:CD1	3:DI:64:VAL:HG11	2.48	0.43
3:CJ:39:GLY:N	3:CJ:45:GLU:OE1	2.52	0.43
3:CL:57:ARG:O	3:CL:57:ARG:HD2	2.18	0.43
3:CN:120:LEU:CD2	3:CN:121:LEU:HD23	2.49	0.43
3:DC:8:LEU:HD22	3:EN:114:ALA:CB	2.48	0.43
3:DE:65:GLN:OE1	3:DE:65:GLN:HA	2.19	0.43
3:DE:84:VAL:O	3:DE:84:VAL:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DE:118:SER:OG	3:DE:119:PRO:HD2	2.19	0.43
3:DM:79:SER:O	3:MN:74:CYS:SG	2.77	0.43
3:DM:98:GLN:HE21	3:DN:43:ALA:N	2.17	0.43
3:EA:106:ALA:HB2	3:LM:126:ASP:OD1	2.19	0.43
3:ED:60:LYS:HB2	3:ED:61:ASN:CB	2.49	0.43
3:EG:121:LEU:HD22	3:GC:66:VAL:HG21	2.00	0.43
3:EH:8:LEU:HD12	3:EH:8:LEU:HA	1.74	0.43
3:EK:2:LYS:CE	3:FM:132:TYR:O	2.66	0.43
3:EN:120:LEU:HD23	3:EN:120:LEU:C	2.40	0.43
3:FH:24:ARG:NH2	3:FH:34:SER:CB	2.82	0.43
3:FJ:103:GLU:C	3:HF:13:LYS:NZ	2.72	0.43
3:FL:46:LYS:CE	3:FL:70:ASN:OD1	2.66	0.43
3:FL:68:ILE:HD12	3:HD:112:LEU:CD1	2.49	0.43
3:FM:26:VAL:O	3:FM:26:VAL:HG13	2.19	0.43
3:FN:121:LEU:HD12	3:FN:124:ALA:HB3	2.01	0.43
3:GC:67:LYS:C	3:GC:68:ILE:HD12	2.40	0.43
3:GD:21:LEU:HD13	3:GD:48:VAL:HG21	2.00	0.43
3:GD:130:PRO:CG	3:KG:24:ARG:HA	2.48	0.43
3:GG:10:ASN:OD1	3:GG:15:GLY:HA3	2.19	0.43
3:GH:125:ILE:HG23	3:GH:126:ASP:H	1.82	0.43
3:GJ:52:VAL:O	3:GJ:54:GLN:NE2	2.52	0.43
3:GL:109:ARG:HH11	3:HG:122:ILE:HA	1.84	0.43
3:HD:65:GLN:HG2	3:HD:93:THR:HG22	2.00	0.43
3:HI:48:VAL:HG22	3:HI:68:ILE:CD1	2.49	0.43
3:HI:95:SER:O	3:HI:96:PHE:CD1	2.72	0.43
3:HJ:81:ASP:O	3:HJ:83:SER:N	2.52	0.43
3:HJ:121:LEU:HD12	3:HJ:121:LEU:N	2.33	0.43
3:IC:11:ILE:HG21	3:IC:19:LEU:HD23	2.00	0.43
3:IF:68:ILE:O	3:IF:68:ILE:HG23	2.19	0.43
3:IJ:109:ARG:NE	3:NE:122:ILE:CD1	2.82	0.43
3:JA:59:ARG:HE	3:JA:63:LYS:NZ	2.17	0.43
3:JE:48:VAL:HG22	3:JE:68:ILE:HD12	1.99	0.43
3:JG:41:VAL:N	3:JG:42:PRO:CD	2.82	0.43
3:JG:86:ARG:NH2	3:LD:101:THR:HG23	2.34	0.43
3:JH:75:THR:O	3:JH:75:THR:HG23	2.18	0.43
3:JL:60:LYS:HB2	3:JL:98:GLN:OE1	2.19	0.43
3:JM:27:ASN:O	3:JM:31:GLY:N	2.52	0.43
3:KC:103:GLU:C	3:LC:13:LYS:NZ	2.70	0.43
3:KD:27:ASN:CG	3:KD:29:THR:HG1	2.19	0.43
3:KN:27:ASN:OD1	3:KN:27:ASN:C	2.57	0.43
3:LK:107:PHE:O	3:LK:111:GLU:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LN:103:GLU:HA	3:MI:13:LYS:HE2	2.01	0.43
3:LN:111:GLU:O	3:LN:115:LEU:HD13	2.18	0.43
3:MA:63:LYS:HD2	3:MA:93:THR:HG23	2.00	0.43
3:MB:46:LYS:HE3	3:MB:70:ASN:CG	2.39	0.43
3:ME:109:ARG:HH12	3:NH:126:ASP:CG	2.23	0.43
3:MG:111:GLU:HA	3:MG:111:GLU:OE1	2.19	0.43
3:MJ:18:THR:O	3:MJ:19:LEU:HD22	2.19	0.43
3:MM:97:THR:N	3:MM:100:SER:HG	2.16	0.43
3:MN:54:GLN:HB3	3:MN:55:PRO:HD2	2.01	0.43
3:MN:59:ARG:O	3:MN:61:ASN:OD1	2.37	0.43
3:NH:44:LEU:HD13	3:NJ:98:GLN:NE2	2.31	0.43
3:NH:97:THR:N	3:NH:100:SER:HG	2.17	0.43
3:NI:79:SER:O	3:NI:80:CYS:CB	2.67	0.43
1:A:197:U:C4	1:A:198:G:N7	2.87	0.42
1:A:201:C:P	3:ND:60:LYS:NZ	2.92	0.42
1:A:332:U:C5	1:A:346:A:OP2	2.72	0.42
1:A:423:U:H2'	1:A:424:G:N7	2.34	0.42
1:A:714:C:C5	1:A:715:A:C8	3.06	0.42
1:A:1042:G:H2'	1:A:1043:U:O4'	2.19	0.42
1:A:1134:C:C2	1:A:1148:A:N1	2.87	0.42
1:A:1450:U:O4	1:A:1451:U:O4	2.37	0.42
1:A:1536:G:N2	3:EJ:57:ARG:NH2	2.66	0.42
1:A:1537:U:H2'	1:A:1538:C:C6	2.54	0.42
1:A:1814:U:H2'	1:A:1815:C:C6	2.54	0.42
1:A:2039:U:P	3:KB:59:ARG:NH2	2.91	0.42
1:A:2090:U:H2'	1:A:2091:C:C6	2.54	0.42
1:A:2147:A:C6	1:A:2148:U:O4	2.72	0.42
1:A:2327:U:H3'	1:A:2328:G:H8	1.83	0.42
1:A:2496:G:OP2	3:EE:57:ARG:CD	2.67	0.42
1:A:2507:U:O2	1:A:2509:U:OP1	2.37	0.42
1:A:2635:A:N3	1:A:2637:U:C4	2.86	0.42
1:A:2705:U:C5	1:A:2706:U:C5	3.07	0.42
1:A:2707:U:HO2'	1:A:2709:A:P	2.41	0.42
1:A:2710:A:C5	3:DC:57:ARG:NH2	2.86	0.42
1:A:2716:C:H2'	1:A:2717:A:H8	1.84	0.42
1:A:2759:C:H2'	1:A:2760:A:C8	2.53	0.42
1:A:2766:A:O2'	1:A:2767:U:C2	2.72	0.42
1:A:2793:A:C4	1:A:2860:C:C5	3.07	0.42
1:A:2939:C:H2'	1:A:2940:G:C8	2.54	0.42
1:A:2952:U:H2'	1:A:2953:C:C6	2.54	0.42
1:A:3031:G:C6	1:A:3032:U:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3099:G:N3	1:A:3116:G:C2	2.87	0.42
1:A:3224:G:C6	1:A:3225:C:C4	3.08	0.42
1:A:3245:U:O3'	3:KK:60:LYS:NZ	2.52	0.42
1:A:3310:U:O2'	1:A:3311:U:C6	2.69	0.42
1:A:3364:C:H2'	1:A:3365:U:O4'	2.19	0.42
1:A:3429:G:C6	1:A:3443:G:C6	3.07	0.42
1:A:3768:G:H4'	1:A:3769:U:O5'	2.19	0.42
1:A:3896:G:H2'	1:A:3897:C:C6	2.54	0.42
1:A:3901:G:C4'	1:A:3903:C:H41	2.31	0.42
1:A:3993:A:H3'	1:A:3994:G:C5'	2.49	0.42
1:A:4137:A:OP2	3:KE:61:ASN:ND2	2.48	0.42
2:M:36:PRO:HA	2:M:55:ASN:OD1	2.19	0.42
2:M:231:ILE:CG2	2:M:338:TYR:OH	2.67	0.42
3:BA:90:ALA:HB2	3:MK:94:PHE:HD1	1.80	0.42
3:BE:48:VAL:HG13	3:BE:68:ILE:CD1	2.49	0.42
3:BG:86:ARG:HG2	3:IA:97:THR:HG21	2.01	0.42
3:BH:1:ALA:N	3:IL:123:ASP:OD2	2.48	0.42
3:BI:17:GLN:OE1	3:BI:17:GLN:N	2.51	0.42
3:BJ:80:CYS:SG	3:BJ:81:ASP:N	2.92	0.42
3:BL:1:ALA:O	3:CG:131:ALA:HA	2.19	0.42
3:CB:124:ALA:O	3:CB:128:LEU:HA	2.19	0.42
3:CD:35:LEU:HD12	3:CD:35:LEU:N	2.33	0.42
3:CD:54:GLN:HG3	3:CD:55:PRO:HD2	2.00	0.42
3:CE:11:ILE:HG22	3:CE:12:GLY:N	2.34	0.42
3:CE:53:SER:OG	3:CE:63:LYS:HB3	2.18	0.42
3:CH:24:ARG:HA	3:HJ:129:ASN:OD1	2.19	0.42
3:CK:131:ALA:HA	3:NC:1:ALA:O	2.19	0.42
3:CL:111:GLU:OE2	3:HH:19:LEU:CD2	2.67	0.42
3:CM:52:VAL:HG21	3:NA:130:PRO:HA	2.01	0.42
3:CM:93:THR:HG23	3:CM:93:THR:O	2.19	0.42
3:CM:114:ALA:HB1	3:NA:8:LEU:CG	2.48	0.42
3:DB:131:ALA:HB1	3:DK:3:LEU:CD2	2.48	0.42
3:DD:4:GLU:CD	3:DD:5:THR:N	2.72	0.42
3:DE:84:VAL:HG22	3:DE:87:GLN:HE21	1.84	0.42
3:DE:123:ASP:OD1	3:DE:127:GLN:NE2	2.51	0.42
3:DF:58:ASN:ND2	3:DF:59:ARG:HH11	2.17	0.42
3:DG:76:ALA:HA	3:EK:79:SER:HA	2.00	0.42
3:DI:131:ALA:O	3:DI:132:TYR:HD1	1.98	0.42
3:DL:27:ASN:O	3:DL:31:GLY:N	2.49	0.42
3:DM:13:LYS:NZ	3:EM:103:GLU:CA	2.82	0.42
3:DN:26:VAL:HG12	3:DN:33:ALA:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DN:108:VAL:O	3:DN:111:GLU:HG3	2.18	0.42
3:DN:116:LEU:O	3:ML:109:ARG:NH1	2.52	0.42
3:EF:11:ILE:CG2	3:EF:17:GLN:HB2	2.48	0.42
3:EF:46:LYS:NZ	3:FA:111:GLU:OE2	2.52	0.42
3:EF:92:VAL:HG21	3:FA:112:LEU:HD11	1.99	0.42
3:EG:21:LEU:HA	3:EG:36:SER:O	2.20	0.42
3:EH:26:VAL:HB	3:GA:132:TYR:OH	2.19	0.42
3:EH:44:LEU:O	3:EH:44:LEU:HG	2.19	0.42
3:EH:116:LEU:HD23	3:EH:116:LEU:O	2.19	0.42
3:EI:84:VAL:HG23	3:EI:84:VAL:O	2.19	0.42
3:EK:125:ILE:CG1	3:FM:109:ARG:NH2	2.82	0.42
3:EL:54:GLN:HB3	3:EL:55:PRO:CD	2.49	0.42
3:FG:54:GLN:HB3	3:FG:55:PRO:CD	2.49	0.42
3:FH:53:SER:OG	3:FH:63:LYS:HB2	2.18	0.42
3:FI:11:ILE:O	3:FI:17:GLN:OE1	2.37	0.42
3:FJ:106:ALA:HB2	3:FJ:109:ARG:HH12	1.81	0.42
3:FK:28:PRO:HB3	3:HD:132:TYR:CZ	2.54	0.42
3:FK:79:SER:C	3:FK:80:CYS:SG	2.97	0.42
3:FK:102:ASP:OD1	3:FK:105:ARG:NH2	2.52	0.42
3:FL:103:GLU:HA	3:HD:13:LYS:HE2	2.01	0.42
3:FL:114:ALA:HB1	3:HD:8:LEU:HD12	1.97	0.42
3:FN:26:VAL:HG22	3:FN:33:ALA:CB	2.49	0.42
3:FN:128:LEU:HD12	3:FN:128:LEU:N	2.34	0.42
3:GA:101:THR:HG22	3:GA:104:GLU:CD	2.40	0.42
3:GF:127:GLN:O	3:KB:24:ARG:CZ	2.67	0.42
3:GF:129:ASN:ND2	3:KB:24:ARG:HA	2.33	0.42
3:GI:110:THR:OG1	3:JC:11:ILE:HD12	2.19	0.42
3:GJ:22:ASN:HB2	3:GJ:23:PRO:HD2	2.01	0.42
3:GL:132:TYR:CZ	3:HF:28:PRO:HB3	2.54	0.42
3:HB:13:LYS:HD3	3:HB:13:LYS:N	2.33	0.42
3:HD:111:GLU:OE2	3:HD:112:LEU:HD22	2.20	0.42
3:HF:6:VAL:HG12	3:HF:8:LEU:HD22	2.01	0.42
3:HG:49:THR:HG22	3:HG:50:VAL:N	2.33	0.42
3:HI:121:LEU:HA	3:HI:124:ALA:HB3	2.00	0.42
3:HJ:2:LYS:HA	3:HJ:2:LYS:HE3	2.01	0.42
3:HJ:41:VAL:O	3:HJ:41:VAL:CG1	2.64	0.42
3:HK:4:GLU:OE2	3:HK:5:THR:OG1	2.29	0.42
3:HK:119:PRO:HA	3:HK:122:ILE:HG22	2.00	0.42
3:HM:23:PRO:O	3:HM:24:ARG:CZ	2.66	0.42
3:ID:27:ASN:OD1	3:ID:29:THR:N	2.51	0.42
3:IE:30:ASN:OD1	3:IE:30:ASN:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:87:GLN:OE1	3:IF:89:TYR:CD1	2.72	0.42
3:II:26:VAL:O	3:II:26:VAL:HG13	2.18	0.42
3:IK:21:LEU:N	3:IK:21:LEU:HD22	2.34	0.42
3:IL:18:THR:O	3:IL:19:LEU:HD22	2.18	0.42
3:IL:65:GLN:OE1	3:IL:93:THR:OG1	2.33	0.42
3:JA:34:SER:O	3:JA:35:LEU:HD12	2.18	0.42
3:JD:48:VAL:HG22	3:JD:68:ILE:CD1	2.49	0.42
3:JK:52:VAL:CG2	3:KN:130:PRO:HG3	2.49	0.42
3:KB:30:ASN:CG	3:KB:32:VAL:HG23	2.39	0.42
3:KC:113:ALA:HB2	3:LC:116:LEU:HD23	2.00	0.42
3:KH:58:ASN:O	3:KH:60:LYS:HD3	2.19	0.42
3:KI:39:GLY:N	3:KI:45:GLU:OE1	2.51	0.42
3:KK:128:LEU:HD11	3:MH:105:ARG:NE	2.34	0.42
3:KM:125:ILE:O	3:MF:105:ARG:NH1	2.41	0.42
3:LB:97:THR:HG23	3:LB:100:SER:N	2.34	0.42
3:LI:118:SER:O	3:LI:122:ILE:HG23	2.19	0.42
3:MA:103:GLU:HG2	3:MA:104:GLU:N	2.34	0.42
3:MC:50:VAL:O	3:MC:50:VAL:HG13	2.18	0.42
3:ME:52:VAL:O	3:ME:52:VAL:CG1	2.66	0.42
3:MG:60:LYS:HB2	3:MG:61:ASN:CB	2.49	0.42
3:MI:11:ILE:HG23	3:MI:17:GLN:HB2	2.01	0.42
3:NA:11:ILE:HG22	3:NA:17:GLN:C	2.39	0.42
3:NB:91:ASP:OD1	3:NB:92:VAL:N	2.52	0.42
3:NB:117:ALA:HA	3:NF:109:ARG:HH12	1.84	0.42
3:ND:18:THR:O	3:ND:19:LEU:HD22	2.19	0.42
3:ND:48:VAL:HG12	3:ND:68:ILE:CG1	2.49	0.42
3:ND:55:PRO:HB2	3:ND:60:LYS:HD2	2.00	0.42
3:NF:47:ARG:CZ	3:NF:47:ARG:HB2	2.49	0.42
1:A:249:G:C5	1:A:250:C:C5	3.07	0.42
1:A:706:U:N3	1:A:707:A:N7	2.67	0.42
1:A:880:C:H2'	1:A:881:A:O4'	2.18	0.42
1:A:883:G:C6	1:A:916:G:O6	2.72	0.42
1:A:1046:G:HO2'	1:A:1047:U:P	2.35	0.42
1:A:1115:A:H2'	1:A:1116:C:C6	2.54	0.42
1:A:1665:U:O4	1:A:1749:C:C2'	2.66	0.42
1:A:1834:A:N6	1:A:1836:U:C6	2.87	0.42
1:A:1946:U:C2	1:A:1947:G:N7	2.87	0.42
1:A:2139:A:N3	1:A:2139:A:O5'	2.52	0.42
1:A:2335:A:H2'	1:A:2336:A:O4'	2.19	0.42
1:A:2376:A:C6	1:A:2377:A:C6	3.07	0.42
1:A:2412:A:O2'	1:A:4071:C:H5"	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2447:C:C2	1:A:2476:G:N2	2.87	0.42
1:A:2470:C:C2'	1:A:2471:C:O5'	2.64	0.42
1:A:2491:A:O3'	1:A:2585:G:C6	2.72	0.42
1:A:2526:U:OP2	3:FA:61:ASN:ND2	2.42	0.42
1:A:2540:G:H2'	1:A:2541:G:C8	2.53	0.42
1:A:2578:U:H2'	1:A:2579:G:H8	1.84	0.42
1:A:2652:G:C4	1:A:2653:C:C5	3.07	0.42
1:A:2776:U:H2'	1:A:2777:U:N1	2.34	0.42
1:A:2987:A:N6	1:A:4051:G:O6	2.51	0.42
1:A:2992:A:H2'	1:A:2993:G:C8	2.54	0.42
1:A:3151:C:H2'	1:A:3152:U:C6	2.54	0.42
1:A:3185:A:N1	1:A:3204:G:O6	2.52	0.42
1:A:3239:U:OP1	1:A:3240:G:OP2	2.36	0.42
1:A:3580:U:H5"	1:A:3581:U:OP2	2.19	0.42
1:A:3668:G:C2	1:A:3840:C:N4	2.88	0.42
1:A:3809:G:OP1	3:KH:59:ARG:N	2.52	0.42
1:A:3834:A:O2'	1:A:3835:C:O5'	2.29	0.42
1:A:3841:A:C2	1:A:3847:G:O6	2.71	0.42
1:A:3957:G:O6	1:A:4039:A:N6	2.52	0.42
1:A:4154:G:C6	1:A:4166:A:N1	2.88	0.42
1:A:4203:C:H5'	2:M:236:ARG:NH1	2.34	0.42
2:M:323:TRP:HE3	2:M:324:PHE:CD1	2.37	0.42
3:D:11:ILE:HG22	3:D:12:GLY:N	2.34	0.42
3:BA:13:LYS:HZ1	3:MK:103:GLU:HG3	1.84	0.42
3:BB:80:CYS:HB3	3:MK:74:CYS:HA	2.01	0.42
3:BB:121:LEU:HD21	3:MA:50:VAL:HG21	2.01	0.42
3:BG:107:PHE:CZ	3:IA:19:LEU:HD21	2.53	0.42
3:BJ:86:ARG:CZ	3:BJ:86:ARG:HB3	2.48	0.42
3:BK:24:ARG:CZ	3:BN:129:ASN:HA	2.49	0.42
3:CA:54:GLN:HB3	3:CA:55:PRO:HD2	2.01	0.42
3:CC:101:THR:N	3:DF:86:ARG:NH2	2.68	0.42
3:CD:92:VAL:HG22	3:HA:92:VAL:CG2	2.36	0.42
3:CJ:128:LEU:HD23	3:HJ:62:TYR:CD1	2.54	0.42
3:DB:4:GLU:O	3:DB:6:VAL:HG23	2.19	0.42
3:DB:112:LEU:HD13	3:DK:68:ILE:CD1	2.50	0.42
3:DC:98:GLN:NE2	3:DD:43:ALA:HA	2.34	0.42
3:DL:21:LEU:HD13	3:DL:36:SER:C	2.39	0.42
3:DL:92:VAL:HG21	3:MN:112:LEU:HD11	2.00	0.42
3:DM:109:ARG:HH12	3:EM:122:ILE:HG22	1.75	0.42
3:DN:55:PRO:HG3	3:DN:62:TYR:CD1	2.54	0.42
3:EC:3:LEU:HD21	3:LK:131:ALA:CB	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:110:THR:CB	3:LI:11:ILE:HD12	2.49	0.42
3:EE:120:LEU:HD11	3:LI:2:LYS:O	2.20	0.42
3:EI:102:ASP:OD1	3:EI:102:ASP:N	2.51	0.42
3:EI:126:ASP:OD1	3:GA:109:ARG:CD	2.67	0.42
3:EJ:122:ILE:CG2	3:EJ:123:ASP:N	2.83	0.42
3:EK:81:ASP:HB3	3:EK:82:PRO:CD	2.48	0.42
3:FA:102:ASP:OD1	3:FA:103:GLU:N	2.52	0.42
3:FB:13:LYS:HG2	3:LJ:106:ALA:CB	2.49	0.42
3:FD:68:ILE:HD11	3:LH:115:LEU:CD1	2.50	0.42
3:FJ:53:SER:HB3	3:FJ:59:ARG:HD2	2.01	0.42
3:FN:26:VAL:HG22	3:FN:33:ALA:HA	2.01	0.42
3:FN:27:ASN:OD1	3:FN:29:THR:N	2.50	0.42
3:FN:55:PRO:HD2	3:FN:62:TYR:CD1	2.54	0.42
3:GD:119:PRO:HA	3:GD:122:ILE:CD1	2.50	0.42
3:GE:95:SER:C	3:GE:96:PHE:HD2	2.23	0.42
3:GE:104:GLU:OE1	3:HE:88:ALA:CB	2.67	0.42
3:GH:3:LEU:HG	3:GH:23:PRO:HB3	2.01	0.42
3:GH:49:THR:OG1	3:GH:67:LYS:HB2	2.19	0.42
3:GK:75:THR:O	3:GK:75:THR:HG23	2.18	0.42
3:HG:63:LYS:NZ	3:HG:93:THR:HG21	2.34	0.42
3:HH:99:TYR:HH	3:HI:84:VAL:H	1.60	0.42
3:HJ:32:VAL:HG12	3:HJ:51:SER:HB2	2.01	0.42
3:HJ:59:ARG:NE	3:HJ:61:ASN:ND2	2.67	0.42
3:HL:98:GLN:OE1	3:HM:43:ALA:HB2	2.20	0.42
3:HM:8:LEU:N	3:HM:8:LEU:HD22	2.34	0.42
3:HN:112:LEU:HD11	3:ID:92:VAL:HG21	2.01	0.42
3:IC:8:LEU:HD22	3:IC:8:LEU:N	2.34	0.42
3:IC:11:ILE:CG2	3:IC:17:GLN:HB2	2.48	0.42
3:IG:61:ASN:ND2	3:IG:96:PHE:O	2.52	0.42
3:IH:132:TYR:CZ	3:NB:132:TYR:OH	2.67	0.42
3:IL:61:ASN:HA	3:IL:96:PHE:O	2.18	0.42
3:JC:41:VAL:O	3:JC:45:GLU:OE2	2.37	0.42
3:JE:79:SER:OG	3:JH:76:ALA:HA	2.19	0.42
3:JF:123:ASP:OD1	3:KA:1:ALA:HB2	2.20	0.42
3:JM:61:ASN:HA	3:JM:96:PHE:O	2.19	0.42
3:KA:24:ARG:HB2	3:KA:34:SER:OG	2.19	0.42
3:KC:103:GLU:HA	3:LC:13:LYS:HZ3	1.84	0.42
3:KI:27:ASN:OD1	3:KI:29:THR:HG22	2.18	0.42
3:KN:20:VAL:C	3:KN:21:LEU:HD22	2.39	0.42
3:LA:86:ARG:NH2	3:MD:100:SER:CA	2.82	0.42
3:LE:60:LYS:O	3:LE:61:ASN:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LG:72:THR:CG2	3:LG:86:ARG:HD2	2.49	0.42
3:LL:132:TYR:CE2	3:MB:26:VAL:HG11	2.54	0.42
3:LM:55:PRO:HG3	3:LM:62:TYR:HE1	1.84	0.42
3:LN:56:SER:O	3:LN:60:LYS:HD3	2.19	0.42
3:LN:116:LEU:HA	3:MI:109:ARG:NH1	2.34	0.42
3:MC:130:PRO:HA	3:NJ:52:VAL:HG22	2.01	0.42
3:MF:96:PHE:CZ	3:MF:105:ARG:HB2	2.54	0.42
3:NA:18:THR:O	3:NA:19:LEU:HD22	2.19	0.42
3:NB:54:GLN:HB3	3:NB:55:PRO:HD2	1.99	0.42
3:NB:129:ASN:CG	3:NG:24:ARG:HH22	2.22	0.42
3:NC:79:SER:O	3:NF:74:CYS:SG	2.76	0.42
1:A:97:G:O3’	3:MJ:57:ARG:NE	2.52	0.42
1:A:166:C:C2	1:A:167:A:C8	3.07	0.42
1:A:355:G:OP1	3:MN:57:ARG:NH2	2.53	0.42
1:A:1054:C:C2’	1:A:1055:U:O5’	2.66	0.42
1:A:1449:C:H2’	1:A:1450:U:C6	2.54	0.42
1:A:1455:C:N4	3:EK:57:ARG:HB3	2.34	0.42
1:A:1468:U:H2’	1:A:1469:U:C6	2.54	0.42
1:A:1580:U:H2’	1:A:1581:U:H6	1.84	0.42
1:A:1774:G:O3’	3:JB:59:ARG:CZ	2.67	0.42
1:A:1782:C:C2	1:A:1783:C:C5	3.08	0.42
1:A:1828:C:O2	1:A:1844:U:O2	2.37	0.42
1:A:1856:U:O4	1:A:2019:C:N4	2.52	0.42
1:A:2238:G:N1	1:A:2254:G:O6	2.52	0.42
1:A:2274:A:H8	1:A:2274:A:O5’	2.02	0.42
1:A:2334:U:H2’	1:A:2335:A:O5’	2.20	0.42
1:A:2452:C:C2	1:A:2453:C:C5	3.07	0.42
1:A:2619:G:H2’	1:A:2620:C:O4’	2.18	0.42
1:A:2623:U:H2’	1:A:2624:U:C6	2.54	0.42
1:A:2975:A:OP2	1:A:2976:G:C5	2.72	0.42
1:A:3536:G:H2’	1:A:3537:U:H6	1.80	0.42
1:A:3539:G:N1	1:A:3540:U:C4	2.87	0.42
1:A:3579:U:H2’	1:A:3580:U:C6	2.54	0.42
1:A:3586:U:C2	1:A:3587:A:N7	2.87	0.42
1:A:3675:A:C6	1:A:3767:C:N3	2.87	0.42
1:A:3733:A:H3’	1:A:3734:U:C5	2.55	0.42
1:A:3825:C:C5’	3:FE:63:LYS:NZ	2.82	0.42
1:A:3918:G:C6	1:A:3944:G:C6	3.07	0.42
3:D:120:LEU:O	3:D:123:ASP:OD1	2.37	0.42
3:BA:65:GLN:CG	3:BA:67:LYS:HE2	2.50	0.42
3:BB:129:ASN:OD1	3:MB:24:ARG:CZ	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:54:GLN:HB3	3:BC:55:PRO:CD	2.49	0.42
3:BE:84:VAL:O	3:BE:84:VAL:HG23	2.19	0.42
3:BE:121:LEU:HA	3:BE:124:ALA:HB3	2.01	0.42
3:BE:122:ILE:HA	3:CE:109:ARG:NH1	2.34	0.42
3:BF:11:ILE:CG2	3:BF:17:GLN:HB2	2.48	0.42
3:BH:92:VAL:CG2	3:IL:112:LEU:HD11	2.49	0.42
3:BI:44:LEU:HD22	3:BI:44:LEU:N	2.34	0.42
3:BK:121:LEU:HA	3:BK:124:ALA:HB3	2.00	0.42
3:BL:109:ARG:HH12	3:CG:122:ILE:HA	1.83	0.42
3:CC:123:ASP:OD2	3:DF:1:ALA:N	2.46	0.42
3:CD:48:VAL:HG23	3:CD:68:ILE:HG12	2.01	0.42
3:CG:53:SER:HB2	3:CG:63:LYS:HB2	2.01	0.42
3:CI:26:VAL:HG21	3:DI:132:TYR:CZ	2.55	0.42
3:CJ:60:LYS:HG2	3:CJ:98:GLN:CG	2.48	0.42
3:CJ:128:LEU:HD12	3:CJ:128:LEU:N	2.34	0.42
3:CJ:130:PRO:HD2	3:HH:25:GLY:HA3	2.01	0.42
3:CK:11:ILE:HG23	3:CK:17:GLN:HB2	2.01	0.42
3:CK:36:SER:OG	3:CK:43:ALA:HA	2.19	0.42
3:CK:56:SER:N	3:CK:59:ARG:HB2	2.35	0.42
3:CL:115:LEU:HD21	3:HH:48:VAL:CG1	2.49	0.42
3:DB:7:THR:C	3:DB:8:LEU:HD12	2.39	0.42
3:DB:92:VAL:HG13	3:DK:92:VAL:HG22	2.02	0.42
3:DC:60:LYS:CB	3:DC:61:ASN:CB	2.97	0.42
3:DD:112:LEU:O	3:DD:116:LEU:HG	2.19	0.42
3:DE:13:LYS:CG	3:DE:14:ASP:N	2.81	0.42
3:DE:35:LEU:HB2	3:DE:48:VAL:HG23	2.00	0.42
3:DE:92:VAL:HG22	3:EL:92:VAL:HG13	2.01	0.42
3:DE:123:ASP:HA	3:DE:127:GLN:NE2	2.33	0.42
3:DF:101:THR:O	3:DF:105:ARG:HG3	2.20	0.42
3:DG:128:LEU:HD11	3:EJ:105:ARG:NE	2.35	0.42
3:DH:6:VAL:HG12	3:DH:8:LEU:HD22	2.00	0.42
3:DI:41:VAL:HG13	3:DI:44:LEU:HD11	2.01	0.42
3:DL:95:SER:OG	3:MN:89:TYR:HB2	2.19	0.42
3:DN:24:ARG:HA	3:EM:130:PRO:HG2	2.02	0.42
3:EA:48:VAL:CG1	3:LM:115:LEU:HD21	2.49	0.42
3:EB:10:ASN:OD1	3:EB:15:GLY:HA2	2.18	0.42
3:EG:88:ALA:HB2	3:GC:96:PHE:CE1	2.53	0.42
3:EH:103:GLU:HG2	3:EH:104:GLU:N	2.34	0.42
3:EK:125:ILE:HG12	3:FM:109:ARG:HH12	1.81	0.42
3:EL:115:LEU:C	3:EL:121:LEU:HD12	2.39	0.42
3:EN:99:TYR:HD2	3:FA:81:ASP:OD2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FB:130:PRO:HG3	3:LJ:52:VAL:HG21	2.00	0.42
3:FF:67:LYS:HD3	3:FF:91:ASP:OD2	2.20	0.42
3:FF:79:SER:O	3:KI:74:CYS:SG	2.77	0.42
3:FF:105:ARG:NH2	3:LF:126:ASP:O	2.44	0.42
3:FH:119:PRO:HA	3:FH:122:ILE:HB	2.00	0.42
3:FI:3:LEU:HD11	3:FI:26:VAL:HG22	1.99	0.42
3:FK:62:TYR:OH	3:FL:24:ARG:NH1	2.53	0.42
3:GA:101:THR:HG22	3:GA:104:GLU:OE2	2.20	0.42
3:GB:56:SER:HB3	3:GB:59:ARG:HE	1.83	0.42
3:GF:2:LYS:HZ2	3:KF:132:TYR:HE1	1.65	0.42
3:GJ:119:PRO:HA	3:GJ:122:ILE:HG12	2.01	0.42
3:GK:97:THR:N	3:GK:100:SER:OG	2.51	0.42
3:GK:122:ILE:HG12	3:JA:109:ARG:HH21	1.84	0.42
3:GL:55:PRO:HB3	3:GL:62:TYR:HE1	1.85	0.42
3:HD:84:VAL:O	3:HD:84:VAL:HG13	2.19	0.42
3:HE:18:THR:O	3:HE:19:LEU:HD12	2.19	0.42
3:HF:61:ASN:ND2	3:HF:96:PHE:O	2.53	0.42
3:HI:2:LYS:HE2	3:II:132:TYR:O	2.18	0.42
3:HI:44:LEU:HG	3:HI:44:LEU:O	2.18	0.42
3:HL:3:LEU:HD21	3:HL:33:ALA:HB1	2.02	0.42
3:HN:24:ARG:HA	3:IK:129:ASN:HD22	1.84	0.42
3:HN:105:ARG:NE	3:ID:128:LEU:HD11	2.33	0.42
3:IA:24:ARG:NH2	3:ID:128:LEU:C	2.73	0.42
3:IE:52:VAL:HG12	3:JL:130:PRO:HA	2.01	0.42
3:IG:115:LEU:HD11	3:JJ:48:VAL:CG1	2.49	0.42
3:IH:48:VAL:HG13	3:IH:68:ILE:HD13	2.01	0.42
3:IH:52:VAL:CG2	3:IH:64:VAL:HG22	2.50	0.42
3:II:8:LEU:HD22	3:II:8:LEU:N	2.34	0.42
3:II:125:ILE:O	3:II:128:LEU:HD11	2.18	0.42
3:JA:81:ASP:OD1	3:JC:99:TYR:CD2	2.72	0.42
3:JB:75:THR:HG23	3:JB:82:PRO:HG3	2.01	0.42
3:JG:60:LYS:HB3	3:JG:61:ASN:HD22	1.77	0.42
3:JH:56:SER:OG	3:JH:59:ARG:CZ	2.67	0.42
3:JI:125:ILE:CG2	3:JI:126:ASP:N	2.82	0.42
3:JL:56:SER:O	3:JL:60:LYS:HD2	2.20	0.42
3:KA:35:LEU:HB2	3:KA:48:VAL:CG1	2.49	0.42
3:KG:66:VAL:HG12	3:KG:68:ILE:CD1	2.47	0.42
3:KK:60:LYS:CB	3:KK:61:ASN:CB	2.98	0.42
3:LB:129:ASN:OD1	3:LB:130:PRO:HD2	2.18	0.42
3:LC:109:ARG:HD2	3:LC:110:THR:N	2.34	0.42
3:LE:19:LEU:HD11	3:LE:37:GLN:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LM:75:THR:HG23	3:LM:82:PRO:HG3	2.01	0.42
3:MC:132:TYR:OH	3:NI:26:VAL:O	2.36	0.42
3:MD:81:ASP:OD1	3:MF:99:TYR:CG	2.73	0.42
3:ME:86:ARG:HD3	3:NH:99:TYR:HB2	2.00	0.42
3:ME:95:SER:HB3	3:NH:89:TYR:CE1	2.54	0.42
3:MF:101:THR:HG22	3:MF:104:GLU:CD	2.40	0.42
3:MJ:11:ILE:HG21	3:MJ:19:LEU:CD2	2.49	0.42
3:ML:115:LEU:C	3:ML:121:LEU:HD12	2.40	0.42
3:NA:126:ASP:HB2	3:NA:127:GLN:OE1	2.19	0.42
3:NB:41:VAL:O	3:NB:44:LEU:N	2.46	0.42
3:NB:49:THR:OG1	3:NB:67:LYS:HB2	2.18	0.42
3:NE:52:VAL:O	3:NE:52:VAL:CG2	2.67	0.42
3:NF:3:LEU:HD12	3:NF:35:LEU:HD21	2.02	0.42
3:NG:118:SER:OG	3:NG:119:PRO:HD2	2.19	0.42
3:NH:81:ASP:OD1	3:NJ:99:TYR:CD1	2.72	0.42
1:A:210:U:N3	1:A:211:G:N7	2.67	0.42
1:A:382:A:H2'	1:A:383:G:C8	2.54	0.42
1:A:490:A:C5'	3:HK:58:ASN:OD1	2.68	0.42
1:A:734:G:H2'	1:A:735:G:H8	1.84	0.42
1:A:885:C:H2'	1:A:886:A:C8	2.55	0.42
1:A:1034:U:N3	3:IJ:57:ARG:CZ	2.82	0.42
1:A:1403:G:H2'	1:A:1404:G:C8	2.54	0.42
1:A:1406:C:C2	3:EJ:57:ARG:HD2	2.54	0.42
1:A:1408:U:H2'	1:A:1409:C:C6	2.54	0.42
1:A:1634:C:H2'	1:A:1635:A:O4'	2.19	0.42
1:A:1817:G:H2'	1:A:1818:C:O4'	2.19	0.42
1:A:1932:C:N3	1:A:1987:A:N1	2.67	0.42
1:A:2244:U:H2'	1:A:2245:C:H6	1.83	0.42
1:A:2245:C:O2'	1:A:2246:C:H5'	2.20	0.42
1:A:2340:A:C2	1:A:2341:G:C4	3.08	0.42
1:A:2356:C:OP1	3:FL:61:ASN:CG	2.57	0.42
1:A:2384:C:OP2	3:FK:59:ARG:CZ	2.67	0.42
1:A:2509:U:O4	1:A:2511:U:H1'	2.19	0.42
1:A:2602:U:N3	1:A:2616:G:C2	2.87	0.42
1:A:2655:G:C2	1:A:2656:A:C5	3.06	0.42
1:A:2679:C:O5'	3:DE:59:ARG:HD3	2.19	0.42
1:A:2810:A:H1'	1:A:2812:U:C5	2.55	0.42
1:A:2920:U:O2	1:A:2923:G:C2	2.73	0.42
1:A:2972:U:O2'	1:A:2973:A:O5'	2.37	0.42
1:A:3106:A:O2'	1:A:3107:U:H5'	2.19	0.42
1:A:3114:A:H3'	1:A:3115:C:C6	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3248:U:O2'	3:MH:47:ARG:NH2	2.52	0.42
1:A:3630:A:N3	3:ED:89:TYR:CZ	2.88	0.42
1:A:3741:C:H2'	1:A:3742:C:C6	2.54	0.42
1:A:3809:G:C8	3:KH:58:ASN:CG	2.92	0.42
1:A:3947:U:O5'	1:A:3947:U:H6	2.02	0.42
1:A:3962:U:H2'	1:A:3963:C:C6	2.55	0.42
1:A:4077:G:C6	1:A:4078:G:H1'	2.54	0.42
1:A:4170:U:H2'	1:A:4171:U:C2	2.54	0.42
2:M:80:VAL:HG11	2:M:347:PHE:HB3	2.01	0.42
3:B:94:PHE:HB3	3:B:96:PHE:CE2	2.54	0.42
3:BE:128:LEU:HD11	3:CE:105:ARG:NE	2.33	0.42
3:BI:2:LYS:HE2	3:BI:2:LYS:HA	2.01	0.42
3:BK:11:ILE:HD12	3:HK:110:THR:CB	2.47	0.42
3:CA:35:LEU:HD11	3:DH:120:LEU:CD2	2.49	0.42
3:CA:62:TYR:CD2	3:DH:128:LEU:CD2	3.02	0.42
3:CB:48:VAL:HG22	3:CB:68:ILE:HD12	2.01	0.42
3:CE:52:VAL:O	3:CE:52:VAL:CG2	2.67	0.42
3:CF:127:GLN:O	3:GN:24:ARG:NH2	2.30	0.42
3:CG:37:GLN:O	3:CG:45:GLU:HG2	2.19	0.42
3:CH:130:PRO:HG3	3:HL:52:VAL:CG1	2.49	0.42
3:CI:14:ASP:OD1	3:CI:15:GLY:N	2.52	0.42
3:CI:122:ILE:HG12	3:DI:109:ARG:CZ	2.49	0.42
3:CK:71:PRO:CB	3:CK:87:GLN:OE1	2.67	0.42
3:DE:11:ILE:HD12	3:EL:110:THR:HB	2.01	0.42
3:DI:103:GLU:HG2	3:DI:104:GLU:N	2.35	0.42
3:DL:69:GLN:HA	3:DL:89:TYR:HB3	2.01	0.42
3:DM:19:LEU:HD21	3:EM:107:PHE:CE1	2.54	0.42
3:DM:48:VAL:HG13	3:DM:68:ILE:HD11	2.02	0.42
3:EB:132:TYR:O	3:MJ:2:LYS:HA	2.18	0.42
3:EC:105:ARG:NH1	3:LK:126:ASP:O	2.52	0.42
3:EE:102:ASP:N	3:EE:102:ASP:OD1	2.52	0.42
3:EI:104:GLU:O	3:EI:108:VAL:HG23	2.19	0.42
3:EJ:55:PRO:HB3	3:EJ:60:LYS:O	2.19	0.42
3:FB:130:PRO:HG3	3:LJ:52:VAL:CG2	2.49	0.42
3:FD:11:ILE:HB	3:LH:110:THR:CG2	2.50	0.42
3:FE:27:ASN:HB2	3:FE:30:ASN:OD1	2.20	0.42
3:FE:63:LYS:HD2	3:FE:63:LYS:C	2.40	0.42
3:FH:85:THR:HG22	3:FH:85:THR:O	2.19	0.42
3:FK:90:ALA:O	3:FK:91:ASP:OD1	2.38	0.42
3:FM:14:ASP:OD1	3:FM:16:LYS:N	2.52	0.42
3:GE:111:GLU:N	3:HE:11:ILE:CD1	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GG:8:LEU:HD22	3:JE:114:ALA:HB3	2.01	0.42
3:GH:55:PRO:HD3	3:GH:62:TYR:HE1	1.81	0.42
3:GK:55:PRO:HB3	3:GK:60:LYS:HA	2.01	0.42
3:HA:96:PHE:CE1	3:HA:105:ARG:HG2	2.55	0.42
3:HH:4:GLU:OE1	3:HH:5:THR:O	2.37	0.42
3:HI:103:GLU:C	3:II:13:LYS:NZ	2.71	0.42
3:HI:128:LEU:HD12	3:HI:128:LEU:N	2.33	0.42
3:HJ:44:LEU:HD21	3:HJ:73:ALA:HB2	2.00	0.42
3:HK:4:GLU:OE1	3:HK:5:THR:O	2.37	0.42
3:HL:13:LYS:HB2	3:HL:13:LYS:HZ3	1.84	0.42
3:HL:71:PRO:HA	3:HL:86:ARG:O	2.19	0.42
3:IA:54:GLN:NE2	3:IB:24:ARG:HG2	2.35	0.42
3:IB:100:SER:HA	3:IB:104:GLU:OE1	2.20	0.42
3:IG:101:THR:CG2	3:JJ:86:ARG:HH12	2.33	0.42
3:IH:101:THR:O	3:IH:105:ARG:HG3	2.20	0.42
3:IN:43:ALA:C	3:IN:44:LEU:HD12	2.40	0.42
3:JF:62:TYR:CD2	3:KA:128:LEU:CD2	3.02	0.42
3:JG:86:ARG:HH22	3:LD:101:THR:HG23	1.83	0.42
3:JG:94:PHE:HD2	3:LD:125:ILE:HD12	1.82	0.42
3:JH:122:ILE:O	3:JH:126:ASP:HB3	2.19	0.42
3:JI:65:GLN:OE1	3:JI:65:GLN:HA	2.19	0.42
3:JJ:119:PRO:HA	3:JJ:122:ILE:HG12	2.01	0.42
3:JK:19:LEU:HD11	3:JK:37:GLN:HG3	2.01	0.42
3:JM:34:SER:C	3:JM:35:LEU:HD22	2.40	0.42
3:JN:17:GLN:HG2	3:JN:18:THR:N	2.34	0.42
3:KC:24:ARG:HB3	3:KC:34:SER:OG	2.18	0.42
3:KF:54:GLN:HB3	3:KF:55:PRO:HD2	2.02	0.42
3:KK:131:ALA:C	3:KK:132:TYR:CD1	2.93	0.42
3:LK:48:VAL:HG22	3:LK:68:ILE:HG23	2.01	0.42
3:LL:106:ALA:CA	3:MB:126:ASP:OD1	2.68	0.42
3:LM:79:SER:O	3:LM:80:CYS:CB	2.60	0.42
3:MA:24:ARG:CZ	3:NJ:128:LEU:O	2.68	0.42
3:MA:49:THR:OG1	3:MA:67:LYS:HB2	2.18	0.42
3:MA:119:PRO:HA	3:MA:122:ILE:HG12	2.01	0.42
3:MC:106:ALA:HA	3:NJ:126:ASP:OD1	2.19	0.42
3:ME:11:ILE:HD11	3:NH:111:GLU:CA	2.49	0.42
3:ME:21:LEU:HD23	3:ME:37:GLN:HA	2.00	0.42
3:ME:116:LEU:HD12	3:NH:109:ARG:HG3	2.00	0.42
3:ME:121:LEU:O	3:ME:125:ILE:HG12	2.19	0.42
3:MG:56:SER:N	3:MG:59:ARG:O	2.34	0.42
3:MI:6:VAL:CG1	3:MI:8:LEU:HD21	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MN:21:LEU:N	3:MN:21:LEU:HD22	2.35	0.42
3:MN:41:VAL:O	3:MN:45:GLU:OE2	2.38	0.42
3:NB:93:THR:HB	3:NF:91:ASP:OD2	2.18	0.42
3:ND:34:SER:C	3:ND:35:LEU:HD12	2.40	0.42
3:ND:55:PRO:HA	3:ND:60:LYS:O	2.18	0.42
3:NH:13:LYS:HD3	3:NH:13:LYS:N	2.34	0.42
1:A:81:U:H3	1:A:159:C:P	2.40	0.42
1:A:188:G:H5"	1:A:261:U:OP2	2.19	0.42
1:A:357:U:O5'	1:A:357:U:H6	2.02	0.42
1:A:493:G:C6	1:A:505:A:N1	2.88	0.42
1:A:936:U:H2'	1:A:937:C:O4'	2.19	0.42
1:A:1100:G:H2'	1:A:1101:C:C6	2.54	0.42
1:A:1187:C:H2'	1:A:1188:U:O4'	2.19	0.42
1:A:1295:U:C5	3:BK:57:ARG:NH1	2.88	0.42
1:A:1366:C:C4	1:A:1367:U:C4	3.08	0.42
1:A:1603:G:C5	1:A:1653:G:N2	2.87	0.42
1:A:2029:G:C6	1:A:2133:G:C6	3.07	0.42
1:A:2103:A:H2'	1:A:2104:U:C1'	2.50	0.42
1:A:2118:A:N1	3:GG:56:SER:CB	2.82	0.42
1:A:2126:U:H2'	1:A:2127:G:C8	2.55	0.42
1:A:2162:G:OP2	1:A:2163:U:C5	2.73	0.42
1:A:2359:A:H4'	1:A:2360:G:C8	2.55	0.42
1:A:2418:A:H2'	1:A:2419:U:O5'	2.19	0.42
1:A:2514:U:H2'	1:A:2515:U:C6	2.54	0.42
1:A:2585:G:C6	1:A:2586:U:C4	3.06	0.42
1:A:2765:A:C6	1:A:2766:A:C2	3.07	0.42
1:A:2803:A:H2'	1:A:2804:C:O4'	2.20	0.42
1:A:2829:A:H2'	1:A:2830:C:C6	2.55	0.42
1:A:2906:G:C2'	1:A:2907:U:O4'	2.68	0.42
1:A:2918:U:H2'	1:A:2919:C:C6	2.54	0.42
1:A:3014:U:N3	1:A:3015:A:N7	2.67	0.42
1:A:3211:G:C5	1:A:3212:U:C5	3.07	0.42
1:A:3248:U:H3'	1:A:3249:A:H5"	2.00	0.42
1:A:3255:C:O2'	1:A:3802:A:H1'	2.18	0.42
1:A:3479:G:H2'	1:A:3479:G:N3	2.34	0.42
1:A:3540:U:N3	1:A:3551:C:C2	2.87	0.42
1:A:3542:C:C2	1:A:3543:G:C8	3.08	0.42
1:A:3654:A:OP1	3:FD:29:THR:HB	2.19	0.42
1:A:3891:U:C2	1:A:3892:U:C5	3.07	0.42
1:A:3933:A:C2	1:A:3934:G:O2'	2.73	0.42
1:A:4029:U:H2'	1:A:4030:U:C1'	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4064:U:C2	1:A:4090:G:C6	3.07	0.42
1:A:4135:C:C3'	3:KE:59:ARG:NH2	2.83	0.42
1:A:4180:G:H8	1:A:4180:G:OP2	2.02	0.42
1:A:4202:G:O2'	1:A:4203:C:H5"	2.20	0.42
3:B:110:THR:OG1	3:D:12:GLY:N	2.51	0.42
3:BA:84:VAL:O	3:BA:84:VAL:HG13	2.18	0.42
3:BB:112:LEU:O	3:BB:116:LEU:HG	2.19	0.42
3:BC:55:PRO:HG3	3:BC:62:TYR:CZ	2.54	0.42
3:BC:115:LEU:HB3	3:BC:121:LEU:HD12	2.02	0.42
3:BD:75:THR:HG23	3:BD:82:PRO:HB3	2.02	0.42
3:BE:2:LYS:HZ2	3:CE:132:TYR:C	2.08	0.42
3:BE:37:GLN:OE1	3:BE:38:ALA:O	2.38	0.42
3:BF:44:LEU:HD22	3:BF:44:LEU:N	2.35	0.42
3:BF:92:VAL:HG13	3:IN:92:VAL:HG22	2.00	0.42
3:BG:4:GLU:N	3:BG:4:GLU:OE1	2.53	0.42
3:BH:54:GLN:NE2	3:BI:24:ARG:HB3	2.34	0.42
3:BI:110:THR:CB	3:HM:11:ILE:HD12	2.50	0.42
3:BJ:13:LYS:NZ	3:BN:103:GLU:N	2.68	0.42
3:BJ:111:GLU:N	3:BN:11:ILE:CD1	2.82	0.42
3:BK:14:ASP:OD1	3:BK:14:ASP:O	2.37	0.42
3:BK:24:ARG:HH22	3:BN:129:ASN:CG	2.23	0.42
3:BL:27:ASN:OD1	3:BL:30:ASN:N	2.50	0.42
3:BN:26:VAL:O	3:BN:26:VAL:HG13	2.19	0.42
3:CD:121:LEU:HA	3:CD:124:ALA:HB3	2.01	0.42
3:CH:13:LYS:NZ	3:HL:102:ASP:CG	2.71	0.42
3:CH:59:ARG:O	3:CH:60:LYS:HD3	2.19	0.42
3:CL:11:ILE:CD1	3:HH:110:THR:OG1	2.66	0.42
3:CM:100:SER:N	3:NA:86:ARG:NH2	2.68	0.42
3:CN:95:SER:HB2	3:DD:89:TYR:HB2	2.00	0.42
3:CN:101:THR:O	3:CN:105:ARG:HG3	2.19	0.42
3:DE:101:THR:O	3:DE:105:ARG:HG3	2.19	0.42
3:DE:125:ILE:O	3:DE:128:LEU:HD12	2.19	0.42
3:DF:55:PRO:HD3	3:DF:62:TYR:CE2	2.54	0.42
3:DK:21:LEU:N	3:DK:21:LEU:HD22	2.35	0.42
3:DL:55:PRO:CG	3:DL:62:TYR:CE1	3.02	0.42
3:DM:118:SER:OG	3:DM:119:PRO:HD2	2.20	0.42
3:DN:97:THR:HG23	3:DN:99:TYR:H	1.85	0.42
3:ED:30:ASN:CG	3:ED:32:VAL:HG23	2.39	0.42
3:EE:37:GLN:HG2	3:EE:46:LYS:HB2	2.02	0.42
3:EE:101:THR:HB	3:EE:103:GLU:OE1	2.18	0.42
3:EI:35:LEU:HB2	3:EI:48:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EJ:67:LYS:HG3	3:EJ:91:ASP:OD1	2.19	0.42
3:FA:127:GLN:HB2	3:FA:129:ASN:OD1	2.19	0.42
3:FB:114:ALA:CB	3:LJ:8:LEU:HD13	2.43	0.42
3:FE:131:ALA:HA	3:KI:1:ALA:O	2.20	0.42
3:FG:46:LYS:HD3	3:FG:70:ASN:OD1	2.20	0.42
3:FG:92:VAL:CG2	3:KG:112:LEU:HD21	2.50	0.42
3:FG:132:TYR:CZ	3:KF:28:PRO:HB3	2.54	0.42
3:FH:128:LEU:HD23	3:FK:105:ARG:NH2	2.34	0.42
3:GC:67:LYS:HD2	3:GC:67:LYS:C	2.39	0.42
3:GC:119:PRO:CA	3:GC:122:ILE:HD12	2.47	0.42
3:GD:105:ARG:CD	3:KF:128:LEU:HD11	2.49	0.42
3:GD:112:LEU:HD23	3:KF:116:LEU:CD1	2.49	0.42
3:GE:72:THR:HG21	3:GE:86:ARG:CZ	2.49	0.42
3:GE:96:PHE:CE1	3:GE:105:ARG:CD	3.02	0.42
3:GG:55:PRO:HB3	3:GG:61:ASN:H	1.85	0.42
3:GJ:8:LEU:HD21	3:GN:111:GLU:HA	2.02	0.42
3:GK:64:VAL:HG11	3:JA:125:ILE:HD11	2.02	0.42
3:HB:21:LEU:HD13	3:HB:36:SER:C	2.39	0.42
3:HB:27:ASN:ND2	3:HB:29:THR:HG1	2.18	0.42
3:HH:60:LYS:HB2	3:HH:61:ASN:ND2	2.35	0.42
3:HI:2:LYS:HE2	3:HI:2:LYS:HA	2.02	0.42
3:HJ:119:PRO:HA	3:HJ:122:ILE:CD1	2.43	0.42
3:HN:122:ILE:HG22	3:ID:109:ARG:NE	2.35	0.42
3:ID:28:PRO:HB3	3:JL:132:TYR:CZ	2.54	0.42
3:ID:37:GLN:OE1	3:ID:46:LYS:HG3	2.20	0.42
3:IE:70:ASN:HD22	3:JL:108:VAL:HG22	1.84	0.42
3:IH:96:PHE:HZ	3:NG:125:ILE:HD11	1.84	0.42
3:IJ:110:THR:OG1	3:NE:11:ILE:CD1	2.67	0.42
3:IL:26:VAL:O	3:IL:26:VAL:HG13	2.18	0.42
3:IM:37:GLN:HB3	3:IM:45:GLU:OE2	2.19	0.42
3:JA:14:ASP:OD2	3:JA:15:GLY:N	2.53	0.42
3:JB:22:ASN:O	3:JB:35:LEU:HD13	2.19	0.42
3:JF:120:LEU:O	3:JF:123:ASP:OD1	2.37	0.42
3:JH:56:SER:CB	3:JH:59:ARG:HE	2.30	0.42
3:JI:59:ARG:HG3	3:JI:61:ASN:OD1	2.19	0.42
3:JJ:59:ARG:HG2	3:JJ:63:LYS:HD2	2.01	0.42
3:JK:17:GLN:HA	3:JK:17:GLN:OE1	2.20	0.42
3:JN:13:LYS:HD3	3:JN:13:LYS:N	2.34	0.42
3:KA:32:VAL:HG12	3:KA:51:SER:CB	2.50	0.42
3:KB:3:LEU:HD12	3:KB:35:LEU:HD11	2.02	0.42
3:KC:125:ILE:CG2	3:KC:126:ASP:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KD:42:PRO:C	3:KD:45:GLU:OE1	2.57	0.42
3:KI:9:GLY:O	3:KI:11:ILE:HG12	2.19	0.42
3:KJ:62:TYR:CD1	3:LE:128:LEU:CD2	3.03	0.42
3:KK:44:LEU:HD22	3:KM:98:GLN:O	2.19	0.42
3:KK:55:PRO:HD3	3:KK:62:TYR:CZ	2.54	0.42
3:KL:46:LYS:HZ2	3:KL:70:ASN:CG	2.17	0.42
3:KN:27:ASN:ND2	3:KN:30:ASN:OD1	2.52	0.42
3:LD:125:ILE:CG2	3:LD:126:ASP:N	2.82	0.42
3:LF:32:VAL:HG23	3:LF:50:VAL:O	2.19	0.42
3:LG:21:LEU:CD1	3:LG:48:VAL:HG21	2.49	0.42
3:LG:103:GLU:HA	3:MG:13:LYS:CE	2.50	0.42
3:LK:121:LEU:HD12	3:LK:121:LEU:N	2.34	0.42
3:LL:8:LEU:N	3:LL:8:LEU:CD1	2.82	0.42
3:LM:42:PRO:O	3:LM:47:ARG:NH1	2.52	0.42
3:LN:37:GLN:CB	3:LN:45:GLU:OE2	2.67	0.42
3:MA:81:ASP:OD2	3:MC:99:TYR:CZ	2.72	0.42
3:ME:56:SER:O	3:ME:60:LYS:HE3	2.20	0.42
3:MK:53:SER:HB2	3:MK:63:LYS:CG	2.50	0.42
3:NB:44:LEU:HD13	3:ND:98:GLN:NE2	2.35	0.42
3:NC:79:SER:O	3:NC:80:CYS:CB	2.66	0.42
3:NG:128:LEU:HD12	3:NG:128:LEU:N	2.35	0.42
3:NH:55:PRO:HD3	3:NH:62:TYR:CE1	2.54	0.42
3:NJ:8:LEU:HA	3:NJ:8:LEU:HD13	1.84	0.42
1:A:502:G:C2	1:A:503:G:C8	3.08	0.42
1:A:531:U:H4'	3:DI:59:ARG:NH2	2.34	0.42
1:A:563:U:C2	1:A:604:G:O6	2.67	0.42
1:A:702:C:H2'	1:A:703:U:H6	1.85	0.42
1:A:938:G:H2'	1:A:939:G:C8	2.53	0.42
1:A:1071:G:OP2	3:ID:57:ARG:NH2	2.35	0.42
1:A:1376:C:N3	1:A:1377:A:N6	2.67	0.42
1:A:1383:A:C2'	1:A:1384:A:H8	2.32	0.42
1:A:1541:G:H2'	1:A:1542:G:C8	2.54	0.42
1:A:1553:G:N7	1:A:1554:A:C8	2.87	0.42
1:A:1593:U:H3'	1:A:1594:C:H5"	2.00	0.42
1:A:1911:U:O4	3:JC:95:SER:OG	2.14	0.42
1:A:1958:A:N7	1:A:1959:G:C5	2.87	0.42
1:A:2037:G:N1	1:A:2038:G:C5	2.87	0.42
1:A:2142:G:O2'	1:A:2143:A:O4'	2.30	0.42
1:A:2302:U:H4'	1:A:2303:U:C5	2.55	0.42
1:A:2320:U:O4	1:A:2326:G:O6	2.37	0.42
1:A:2634:A:H4'	1:A:2635:A:OP1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2848:A:H2'	1:A:2849:C:C1'	2.49	0.42
1:A:3041:G:H1	3:BB:69:GLN:CB	2.33	0.42
1:A:3247:U:O2	1:A:3249:A:O4'	2.37	0.42
1:A:3547:A:O3'	1:A:3548:G:H4'	2.20	0.42
1:A:3697:A:OP2	3:LK:59:ARG:CZ	2.68	0.42
1:A:3723:C:O2	1:A:3723:C:H2'	2.18	0.42
1:A:3758:U:H2'	1:A:3759:G:H8	1.85	0.42
1:A:3787:A:OP1	3:FE:57:ARG:HA	2.19	0.42
1:A:3795:G:H21	1:A:3807:G:H1	1.68	0.42
1:A:4148:A:C6	1:A:4149:A:C6	3.07	0.42
1:A:4157:U:C4	1:A:4160:A:N7	2.88	0.42
2:M:252:LEU:HD12	2:M:252:LEU:C	2.39	0.42
2:M:302:THR:HG22	2:M:302:THR:O	2.20	0.42
2:M:338:TYR:CD1	2:M:400:PHE:HB3	2.54	0.42
3:BA:11:ILE:HD12	3:MK:110:THR:OG1	2.20	0.42
3:BA:132:TYR:CD2	3:ML:25:GLY:HA2	2.55	0.42
3:BB:121:LEU:HA	3:BB:124:ALA:HB3	2.01	0.42
3:BH:26:VAL:HG11	3:IL:132:TYR:OH	2.19	0.42
3:BI:11:ILE:HG23	3:BI:17:GLN:HB2	2.02	0.42
3:BI:23:PRO:O	3:BI:24:ARG:CZ	2.67	0.42
3:BI:122:ILE:HG23	3:BI:126:ASP:OD2	2.20	0.42
3:BJ:68:ILE:HD11	3:BN:111:GLU:OE2	2.20	0.42
3:BM:8:LEU:HD22	3:DJ:114:ALA:HB3	2.02	0.42
3:BM:105:ARG:O	3:BM:108:VAL:HG12	2.20	0.42
3:BM:105:ARG:CD	3:DJ:128:LEU:HD11	2.50	0.42
3:CB:37:GLN:CD	3:CB:39:GLY:H	2.21	0.42
3:CC:94:PHE:HD2	3:DF:125:ILE:CD1	2.28	0.42
3:CH:127:GLN:O	3:CH:129:ASN:OD1	2.37	0.42
3:CK:128:LEU:O	3:ND:24:ARG:NH1	2.52	0.42
3:CL:52:VAL:HG12	3:CL:64:VAL:HG13	2.02	0.42
3:CM:1:ALA:H1	3:NA:129:ASN:ND2	2.18	0.42
3:DB:122:ILE:CD1	3:DK:109:ARG:CZ	2.97	0.42
3:DG:62:TYR:CD1	3:EJ:128:LEU:CD2	3.01	0.42
3:DG:75:THR:O	3:DG:75:THR:HG23	2.19	0.42
3:DH:16:LYS:HE2	3:DH:16:LYS:HA	2.02	0.42
3:DI:30:ASN:CG	3:DI:32:VAL:HG23	2.40	0.42
3:DJ:46:LYS:HZ3	3:DJ:70:ASN:HB3	1.84	0.42
3:DL:125:ILE:CG2	3:DL:126:ASP:N	2.82	0.42
3:DM:48:VAL:HG13	3:DM:68:ILE:HD13	2.01	0.42
3:DN:65:GLN:HG2	3:DN:93:THR:HG22	2.02	0.42
3:EB:19:LEU:HD21	3:MJ:107:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:109:ARG:NH1	3:MJ:125:ILE:CG1	2.83	0.42
3:ED:132:TYR:O	3:EH:2:LYS:CE	2.68	0.42
3:EE:131:ALA:HA	3:LI:1:ALA:CB	2.49	0.42
3:EF:48:VAL:HG22	3:EF:68:ILE:HG12	2.01	0.42
3:EF:62:TYR:HD1	3:FA:128:LEU:CD2	2.32	0.42
3:EH:30:ASN:OD1	3:EH:32:VAL:HG23	2.19	0.42
3:EI:115:LEU:HD11	3:GA:48:VAL:CG1	2.49	0.42
3:EN:69:GLN:NE2	3:EN:89:TYR:CD1	2.81	0.42
3:FA:87:GLN:OE1	3:FA:89:TYR:HE2	2.03	0.42
3:FB:129:ASN:HA	3:LK:24:ARG:HH11	1.85	0.42
3:FD:54:GLN:HB3	3:FD:55:PRO:CD	2.50	0.42
3:FE:21:LEU:HD13	3:FE:36:SER:C	2.39	0.42
3:FF:61:ASN:O	3:FF:63:LYS:NZ	2.52	0.42
3:FH:125:ILE:HD13	3:FK:64:VAL:HG11	2.00	0.42
3:FI:79:SER:O	3:FI:80:CYS:CB	2.63	0.42
3:FI:102:ASP:OD1	3:FI:103:GLU:N	2.52	0.42
3:GA:41:VAL:HG21	3:GA:44:LEU:HD12	2.02	0.42
3:GB:23:PRO:HA	3:GB:35:LEU:HD23	2.01	0.42
3:GC:112:LEU:O	3:GC:116:LEU:HG	2.20	0.42
3:GD:56:SER:CB	3:GD:59:ARG:HH11	2.33	0.42
3:GE:44:LEU:HD11	3:GE:82:PRO:HB2	2.01	0.42
3:GE:64:VAL:HG11	3:HE:125:ILE:HD11	2.01	0.42
3:GF:2:LYS:O	3:GF:4:GLU:OE2	2.38	0.42
3:GG:97:THR:HG23	3:GG:100:SER:H	1.82	0.42
3:GI:55:PRO:HG3	3:GI:62:TYR:CZ	2.54	0.42
3:HC:127:GLN:HB2	3:HC:129:ASN:OD1	2.19	0.42
3:HD:3:LEU:HB3	3:HD:23:PRO:HB3	2.02	0.42
3:HI:100:SER:HA	3:II:86:ARG:CZ	2.50	0.42
3:HJ:21:LEU:HD13	3:HJ:36:SER:C	2.40	0.42
3:HK:32:VAL:HG13	3:HK:51:SER:OG	2.20	0.42
3:IE:24:ARG:HE	3:IE:36:SER:CB	2.31	0.42
3:IF:21:LEU:HD13	3:IF:36:SER:C	2.39	0.42
3:IF:101:THR:O	3:IF:105:ARG:HG3	2.19	0.42
3:JA:44:LEU:HD12	3:JA:44:LEU:O	2.19	0.42
3:JE:44:LEU:HD11	3:JE:73:ALA:HA	2.02	0.42
3:JF:99:TYR:O	3:KA:86:ARG:CZ	2.67	0.42
3:JG:32:VAL:HG13	3:JG:51:SER:OG	2.19	0.42
3:JG:86:ARG:NH2	3:LD:100:SER:HA	2.33	0.42
3:JI:49:THR:HG22	3:JI:50:VAL:N	2.35	0.42
3:JI:128:LEU:HD11	3:LB:105:ARG:NE	2.35	0.42
3:JK:62:TYR:HD2	3:KN:128:LEU:HD22	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JK:86:ARG:NH2	3:KN:104:GLU:OE1	2.52	0.42
3:JM:60:LYS:N	3:JM:61:ASN:HB3	2.29	0.42
3:JN:52:VAL:O	3:JN:54:GLN:NE2	2.39	0.42
3:JN:125:ILE:O	3:JN:128:LEU:HD11	2.19	0.42
3:KC:74:CYS:SG	3:LD:79:SER:O	2.78	0.42
3:KD:101:THR:O	3:KD:104:GLU:HG2	2.19	0.42
3:KI:102:ASP:N	3:KI:105:ARG:CZ	2.83	0.42
3:LA:39:GLY:HA3	3:LA:45:GLU:OE2	2.19	0.42
3:LK:127:GLN:N	3:LK:127:GLN:OE1	2.53	0.42
3:LL:24:ARG:HG2	3:LL:34:SER:HB2	2.02	0.42
3:LL:86:ARG:NH1	3:MB:99:TYR:HB2	2.35	0.42
3:LN:132:TYR:C	3:MI:2:LYS:HZ2	2.22	0.42
3:MA:96:PHE:CD1	3:MA:105:ARG:CD	3.03	0.42
3:MB:128:LEU:HD12	3:MB:128:LEU:N	2.35	0.42
3:MC:42:PRO:HA	3:MC:45:GLU:CD	2.40	0.42
3:ML:55:PRO:CB	3:ML:60:LYS:HG3	2.50	0.42
3:ML:81:ASP:O	3:ML:83:SER:N	2.53	0.42
3:NC:97:THR:O	3:NC:100:SER:OG	2.18	0.42
3:NC:108:VAL:HA	3:NC:111:GLU:CD	2.39	0.42
3:NE:122:ILE:HG23	3:NE:123:ASP:N	2.35	0.42
3:NF:8:LEU:HD22	3:NF:8:LEU:N	2.34	0.42
3:NF:127:GLN:C	3:NF:128:LEU:HD12	2.39	0.42
1:A:446:C:H2'	1:A:447:G:O4'	2.19	0.42
1:A:520:G:H2'	1:A:521:G:O4'	2.20	0.42
1:A:532:A:C5	1:A:539:A:C2	3.07	0.42
1:A:541:C:O2	1:A:542:U:C5	2.73	0.42
1:A:551:U:H2'	1:A:553:C:O2'	2.19	0.42
1:A:660:U:N3	1:A:661:G:N7	2.68	0.42
1:A:860:C:H5"	1:A:861:A:N7	2.34	0.42
1:A:865:G:N2	1:A:1237:G:N3	2.67	0.42
1:A:945:G:O2'	1:A:946:U:H5'	2.19	0.42
1:A:1281:U:H2'	1:A:1282:C:N1	2.35	0.42
1:A:1476:C:O2'	1:A:1477:U:H5'	2.20	0.42
1:A:1635:A:O2'	1:A:1636:C:H5'	2.20	0.42
1:A:2061:U:O4	1:A:2062:A:N6	2.52	0.42
1:A:2119:A:H8	1:A:2119:A:O5'	2.02	0.42
1:A:2247:A:O2'	1:A:2248:G:C4'	2.68	0.42
1:A:2257:C:H2'	1:A:2258:C:C6	2.54	0.42
1:A:2325:C:O3'	1:A:2326:G:O4'	2.37	0.42
1:A:2352:A:P	1:A:2353:U:OP1	2.77	0.42
1:A:2412:A:N7	1:A:2413:C:N4	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2433:A:H2'	1:A:2434:A:C8	2.54	0.42
1:A:2632:A:O2'	1:A:2633:G:O5'	2.38	0.42
1:A:2655:G:C2'	1:A:2656:A:O5'	2.68	0.42
1:A:2707:U:H1'	1:A:2710:A:N6	2.34	0.42
1:A:2864:C:O2'	1:A:2865:A:O5'	2.35	0.42
1:A:3169:U:O5'	1:A:3277:U:OP2	2.38	0.42
1:A:3215:G:N7	1:A:3216:C:N3	2.67	0.42
1:A:3244:U:O4'	1:A:3802:A:N6	2.53	0.42
1:A:3432:A:N6	1:A:3440:A:C6	2.88	0.42
1:A:3621:C:N4	1:A:3638:A:H2	2.17	0.42
1:A:3793:U:O4	1:A:3794:C:N4	2.53	0.42
1:A:3797:G:N1	3:KK:57:ARG:HB2	2.35	0.42
1:A:3811:G:H2'	1:A:3812:G:C8	2.54	0.42
2:M:232:GLN:HG3	2:M:337:LEU:HD21	2.02	0.42
3:BA:91:ASP:OD1	3:BA:91:ASP:O	2.38	0.42
3:BB:3:LEU:CD1	3:BB:35:LEU:HD21	2.49	0.42
3:BB:79:SER:O	3:BB:80:CYS:CB	2.68	0.42
3:BC:107:PHE:CZ	3:ND:19:LEU:HD21	2.54	0.42
3:BG:71:PRO:HA	3:BG:87:GLN:HA	2.01	0.42
3:BJ:119:PRO:HA	3:BJ:122:ILE:HG12	2.02	0.42
3:CC:30:ASN:CG	3:CC:32:VAL:HG23	2.40	0.42
3:CD:11:ILE:HA	3:HA:110:THR:OG1	2.20	0.42
3:CD:132:TYR:O	3:HA:3:LEU:CD2	2.67	0.42
3:CF:125:ILE:CG1	3:GM:96:PHE:HE1	2.33	0.42
3:CH:11:ILE:HD11	3:HL:110:THR:HG23	2.00	0.42
3:CH:26:VAL:CG2	3:HJ:132:TYR:CD2	3.03	0.42
3:CI:48:VAL:HG22	3:CI:68:ILE:CD1	2.48	0.42
3:CI:57:ARG:HA	3:CI:57:ARG:NE	2.34	0.42
3:CI:97:THR:N	3:CI:100:SER:OG	2.53	0.42
3:CK:24:ARG:HB2	3:CK:34:SER:OG	2.19	0.42
3:CN:13:LYS:N	3:CN:13:LYS:CD	2.76	0.42
3:CN:41:VAL:N	3:CN:42:PRO:CD	2.83	0.42
3:DA:130:PRO:HA	3:MM:52:VAL:HG22	2.01	0.42
3:DE:23:PRO:HA	3:DE:35:LEU:CD2	2.49	0.42
3:DF:96:PHE:CD1	3:DF:105:ARG:HG2	2.55	0.42
3:DG:126:ASP:CG	3:EJ:106:ALA:HB2	2.40	0.42
3:DI:99:TYR:OH	3:DJ:84:VAL:N	2.37	0.42
3:DI:99:TYR:CE1	3:DJ:83:SER:HA	2.55	0.42
3:DL:125:ILE:HD11	3:MN:96:PHE:CE2	2.55	0.42
3:DL:130:PRO:HG3	3:MN:52:VAL:HB	2.02	0.42
3:EC:21:LEU:HB3	3:EC:35:LEU:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:23:PRO:HA	3:EC:35:LEU:HG	2.02	0.42
3:EC:50:VAL:HG23	3:EC:50:VAL:O	2.19	0.42
3:EC:55:PRO:HA	3:EC:60:LYS:O	2.20	0.42
3:ED:61:ASN:HA	3:ED:96:PHE:O	2.18	0.42
3:EG:102:ASP:OD1	3:GC:126:ASP:HA	2.20	0.42
3:EI:125:ILE:HG21	3:GA:64:VAL:HG11	2.01	0.42
3:EN:98:GLN:OE1	3:EN:98:GLN:HA	2.19	0.42
3:FB:105:ARG:CZ	3:LJ:126:ASP:O	2.67	0.42
3:FB:121:LEU:HD22	3:LJ:66:VAL:HG21	2.02	0.42
3:FE:128:LEU:HD12	3:FE:128:LEU:N	2.35	0.42
3:FF:22:ASN:HB3	3:FF:23:PRO:HD2	2.00	0.42
3:FG:13:LYS:HG3	3:KG:106:ALA:HB3	2.01	0.42
3:FI:70:ASN:C	3:FI:87:GLN:OE1	2.58	0.42
3:FL:111:GLU:N	3:HD:11:ILE:CD1	2.83	0.42
3:FN:110:THR:CB	3:HB:11:ILE:HD12	2.43	0.42
3:FN:125:ILE:HD12	3:HB:94:PHE:CE2	2.53	0.42
3:GA:120:LEU:O	3:GA:123:ASP:OD1	2.37	0.42
3:GG:41:VAL:N	3:GG:42:PRO:CD	2.83	0.42
3:GJ:44:LEU:HD13	3:GL:98:GLN:NE2	2.32	0.42
3:GJ:121:LEU:CD2	3:GN:66:VAL:HG21	2.49	0.42
3:GK:37:GLN:C	3:GK:45:GLU:OE2	2.58	0.42
3:GL:111:GLU:OE1	3:HG:19:LEU:CD2	2.67	0.42
3:GM:125:ILE:O	3:GM:128:LEU:HD12	2.20	0.42
3:HF:41:VAL:HG23	3:HF:41:VAL:O	2.19	0.42
3:HH:48:VAL:HG13	3:HH:68:ILE:CD1	2.50	0.42
3:HK:34:SER:C	3:HK:35:LEU:HD22	2.40	0.42
3:IA:79:SER:O	3:IA:80:CYS:HB3	2.19	0.42
3:IA:98:GLN:NE2	3:IB:43:ALA:HA	2.35	0.42
3:IA:126:ASP:OD2	3:IA:127:GLN:OE1	2.38	0.42
3:IB:116:LEU:HD11	3:IK:112:LEU:CD2	2.49	0.42
3:IC:11:ILE:HD12	3:JN:110:THR:CB	2.49	0.42
3:IH:3:LEU:HD23	3:NG:132:TYR:N	2.34	0.42
3:IK:84:VAL:O	3:IK:84:VAL:HG13	2.20	0.42
3:JA:101:THR:O	3:JA:105:ARG:HG3	2.19	0.42
3:JG:119:PRO:HA	3:JG:122:ILE:HB	2.02	0.42
3:JI:102:ASP:CG	3:LB:13:LYS:HZ1	2.22	0.42
3:KC:119:PRO:CA	3:KC:122:ILE:HD12	2.43	0.42
3:KC:132:TYR:N	3:LC:3:LEU:CD1	2.83	0.42
3:KE:119:PRO:HA	3:KE:122:ILE:CG1	2.49	0.42
3:KF:75:THR:HG22	3:KF:82:PRO:HG3	2.00	0.42
3:KH:44:LEU:HD13	3:KJ:98:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KH:51:SER:N	3:KH:65:GLN:HE21	2.17	0.42
3:KK:13:LYS:HD2	3:MH:106:ALA:CB	2.50	0.42
3:KK:26:VAL:O	3:KK:26:VAL:HG23	2.20	0.42
3:LA:91:ASP:O	3:MD:92:VAL:HA	2.19	0.42
3:LG:86:ARG:HH22	3:MG:99:TYR:CB	2.29	0.42
3:LK:23:PRO:HA	3:LK:35:LEU:HG	2.01	0.42
3:LM:54:GLN:NE2	3:LN:24:ARG:HB3	2.34	0.42
3:MB:11:ILE:HG23	3:MB:17:GLN:CD	2.40	0.42
3:MC:66:VAL:HG21	3:NJ:121:LEU:HD11	2.02	0.42
3:MI:101:THR:O	3:MI:105:ARG:HG3	2.18	0.42
3:MM:17:GLN:HG3	3:MM:18:THR:N	2.35	0.42
3:NC:128:LEU:N	3:NC:128:LEU:HD12	2.35	0.42
3:NI:102:ASP:OD2	3:NI:102:ASP:C	2.57	0.42
1:A:439:G:C6	3:MM:57:ARG:NH1	2.88	0.42
1:A:682:C:N3	1:A:683:G:N7	2.68	0.42
1:A:975:C:C2	1:A:976:A:N7	2.88	0.42
1:A:1063:C:OP2	1:A:1215:C:H5	2.03	0.42
1:A:1308:A:C6	1:A:1309:C:C4	3.08	0.42
1:A:1348:C:H2'	1:A:1349:A:C8	2.55	0.42
1:A:1421:G:H2'	1:A:1422:G:C8	2.55	0.42
1:A:1500:G:C2	1:A:1501:U:C5	3.08	0.42
1:A:1795:U:O2	1:A:1796:U:O4'	2.38	0.42
1:A:2376:A:N1	1:A:2403:G:C4	2.88	0.42
1:A:2685:A:C5	1:A:2686:G:N7	2.88	0.42
1:A:2699:U:O2	1:A:2718:C:O2	2.38	0.42
1:A:2707:U:O2'	1:A:2708:C:H3'	2.20	0.42
1:A:3057:A:H2'	1:A:3058:U:O4'	2.19	0.42
1:A:3169:U:H4'	1:A:3170:U:OP2	2.20	0.42
1:A:3313:C:H2'	1:A:3314:U:O4'	2.19	0.42
1:A:3411:G:H2'	1:A:3412:U:C4'	2.50	0.42
1:A:3450:G:H2'	1:A:3451:C:O4'	2.20	0.42
1:A:3617:A:H2	1:A:3622:U:O4	2.01	0.42
1:A:3666:U:H2'	1:A:3667:G:O4'	2.20	0.42
1:A:3825:C:C5'	3:FE:63:LYS:HZ1	2.33	0.42
1:A:3830:G:N3	1:A:3830:G:H2'	2.35	0.42
1:A:3880:U:H3'	1:A:3881:C:H5'	2.02	0.42
1:A:3932:U:O4	3:KG:89:TYR:CD2	2.73	0.42
1:A:4152:G:C6	1:A:4168:A:N1	2.88	0.42
1:A:4197:G:H2'	1:A:4198:C:C6	2.55	0.42
3:B:128:LEU:HD12	3:D:62:TYR:HB3	2.02	0.42
3:BA:86:ARG:HH12	3:MK:101:THR:HG23	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:13:LYS:HZ2	3:JB:103:GLU:N	2.18	0.42
3:BD:68:ILE:O	3:BD:89:TYR:HB2	2.20	0.42
3:BG:56:SER:O	3:BG:59:ARG:O	2.37	0.42
3:BH:79:SER:HA	3:IA:76:ALA:HA	2.02	0.42
3:BH:86:ARG:HH22	3:IL:101:THR:H	1.67	0.42
3:BH:100:SER:OG	3:BH:105:ARG:HD2	2.20	0.42
3:BI:22:ASN:OD1	3:BI:23:PRO:CD	2.67	0.42
3:BK:24:ARG:NE	3:BN:130:PRO:HD3	2.35	0.42
3:BK:76:ALA:HA	3:HL:79:SER:HA	2.02	0.42
3:BN:125:ILE:CG2	3:BN:126:ASP:N	2.82	0.42
3:CF:64:VAL:HG11	3:GM:125:ILE:HD13	1.99	0.42
3:CH:84:VAL:O	3:CH:84:VAL:HG13	2.20	0.42
3:CH:98:GLN:CD	3:CI:43:ALA:HB2	2.40	0.42
3:CJ:37:GLN:OE1	3:CJ:46:LYS:CE	2.67	0.42
3:CJ:106:ALA:HA	3:CJ:109:ARG:HG2	2.02	0.42
3:DB:19:LEU:HD21	3:DB:21:LEU:HD21	2.01	0.42
3:DE:106:ALA:CB	3:EL:126:ASP:OD1	2.67	0.42
3:DG:109:ARG:HD2	3:EJ:122:ILE:CD1	2.50	0.42
3:DG:125:ILE:CG2	3:DG:126:ASP:N	2.82	0.42
3:DI:11:ILE:CG2	3:DI:17:GLN:HB2	2.49	0.42
3:DJ:43:ALA:O	3:DJ:44:LEU:HD22	2.20	0.42
3:DK:8:LEU:HD22	3:DK:8:LEU:N	2.33	0.42
3:EA:132:TYR:O	3:LM:2:LYS:CE	2.68	0.42
3:EB:79:SER:O	3:EB:80:CYS:HB3	2.19	0.42
3:EC:68:ILE:HB	3:EC:90:ALA:HB3	2.01	0.42
3:EG:56:SER:O	3:EG:59:ARG:O	2.38	0.42
3:EK:115:LEU:O	3:EK:121:LEU:HD13	2.20	0.42
3:EM:26:VAL:O	3:EM:28:PRO:CD	2.65	0.42
3:EN:98:GLN:NE2	3:FA:43:ALA:HA	2.35	0.42
3:FB:98:GLN:HE22	3:FC:43:ALA:CA	2.32	0.42
3:FD:118:SER:OG	3:FD:119:PRO:HD2	2.20	0.42
3:FE:11:ILE:HD11	3:KI:111:GLU:CA	2.49	0.42
3:FE:131:ALA:HA	3:KI:1:ALA:CB	2.50	0.42
3:FI:64:VAL:HB	3:KE:125:ILE:HD12	2.02	0.42
3:FJ:21:LEU:HB3	3:FJ:35:LEU:HD12	2.01	0.42
3:FJ:41:VAL:N	3:FJ:42:PRO:CD	2.83	0.42
3:FJ:109:ARG:HE	3:HF:125:ILE:CG1	2.32	0.42
3:FM:131:ALA:C	3:FM:132:TYR:CD1	2.93	0.42
3:GC:94:PHE:HB3	3:GC:105:ARG:NH2	2.34	0.42
3:GD:25:GLY:HA3	3:KD:130:PRO:O	2.20	0.42
3:GD:101:THR:HG23	3:KF:86:ARG:HH22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GE:125:ILE:HG23	3:HE:96:PHE:HE1	1.84	0.42
3:GF:105:ARG:CD	3:KD:128:LEU:HD11	2.49	0.42
3:GH:24:ARG:CZ	3:JE:129:ASN:OD1	2.66	0.42
3:GI:8:LEU:HD22	3:JC:114:ALA:HB1	2.00	0.42
3:GI:86:ARG:NH1	3:JC:99:TYR:O	2.53	0.42
3:GJ:86:ARG:NH2	3:GN:104:GLU:OE2	2.53	0.42
3:GK:14:ASP:OD1	3:GK:15:GLY:N	2.53	0.42
3:GM:119:PRO:HA	3:GM:122:ILE:HG12	2.01	0.42
3:HB:81:ASP:N	3:HB:81:ASP:OD1	2.52	0.42
3:HE:84:VAL:O	3:HE:84:VAL:HG13	2.20	0.42
3:HJ:107:PHE:O	3:HJ:111:GLU:CD	2.58	0.42
3:IA:52:VAL:O	3:IA:52:VAL:CG1	2.68	0.42
3:IE:107:PHE:CE2	3:IE:111:GLU:OE2	2.73	0.42
3:IE:128:LEU:CD1	3:JL:105:ARG:NE	2.82	0.42
3:IF:27:ASN:O	3:IF:31:GLY:N	2.48	0.42
3:II:91:ASP:OD1	3:II:92:VAL:N	2.52	0.42
3:IK:101:THR:HG23	3:IK:104:GLU:H	1.85	0.42
3:IN:8:LEU:N	3:IN:8:LEU:CD1	2.82	0.42
3:JC:52:VAL:HG12	3:JC:64:VAL:HG13	2.02	0.42
3:JF:118:SER:OG	3:JF:119:PRO:HD2	2.20	0.42
3:JI:103:GLU:N	3:LB:13:LYS:HZ2	2.17	0.42
3:JJ:52:VAL:CG1	3:JJ:64:VAL:HG22	2.46	0.42
3:JK:101:THR:OG1	3:JK:104:GLU:HG3	2.20	0.42
3:JK:111:GLU:OE1	3:JK:111:GLU:HA	2.19	0.42
3:JM:41:VAL:N	3:JM:42:PRO:CD	2.83	0.42
3:KB:81:ASP:OD2	3:KD:99:TYR:CE2	2.72	0.42
3:KB:98:GLN:NE2	3:KC:43:ALA:CB	2.83	0.42
3:KC:118:SER:OG	3:KC:119:PRO:HD2	2.20	0.42
3:KK:122:ILE:HA	3:MH:109:ARG:CZ	2.50	0.42
3:KM:8:LEU:HD22	3:MF:114:ALA:CB	2.48	0.42
3:KM:102:ASP:OD1	3:MF:126:ASP:O	2.38	0.42
3:KN:58:ASN:O	3:KN:59:ARG:NH2	2.53	0.42
3:LB:68:ILE:HB	3:LB:90:ALA:HB3	2.01	0.42
3:LE:49:THR:HB	3:LE:67:LYS:HG2	2.00	0.42
3:LF:60:LYS:HB2	3:LF:61:ASN:CB	2.50	0.42
3:LH:24:ARG:CA	3:MG:130:PRO:HG2	2.50	0.42
3:LJ:52:VAL:HG12	3:LJ:64:VAL:HG13	2.02	0.42
3:LL:86:ARG:NH2	3:MB:100:SER:CA	2.83	0.42
3:LN:55:PRO:HB2	3:LN:60:LYS:HD2	2.02	0.42
3:LN:108:VAL:O	3:LN:111:GLU:HG3	2.19	0.42
3:LN:114:ALA:HB1	3:MI:8:LEU:CG	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ML:32:VAL:HG12	3:ML:51:SER:CB	2.49	0.42
3:ML:117:ALA:O	3:ML:122:ILE:HD11	2.20	0.42
3:NB:11:ILE:CG2	3:NB:17:GLN:HB2	2.48	0.42
3:NC:68:ILE:HG23	3:NC:68:ILE:O	2.20	0.42
3:NH:41:VAL:N	3:NH:42:PRO:CD	2.82	0.42
3:NJ:55:PRO:HA	3:NJ:60:LYS:O	2.20	0.42
1:A:126:G:H3'	1:A:127:C:H5"	2.01	0.42
1:A:149:U:H2'	1:A:150:C:O4'	2.20	0.42
1:A:185:A:H3'	1:A:186:G:H5"	2.02	0.42
1:A:371:G:H2'	1:A:372:U:C6	2.55	0.42
1:A:714:C:OP1	3:KC:59:ARG:CZ	2.68	0.42
1:A:986:A:N1	1:A:1024:G:C6	2.88	0.42
1:A:1065:A:H2'	1:A:1066:G:O4'	2.19	0.42
1:A:1301:U:OP2	1:A:1570:C:C4	2.73	0.42
1:A:1390:G:C2	1:A:1391:A:C4	3.08	0.42
1:A:1416:C:N4	1:A:1434:A:H61	2.15	0.42
1:A:1704:C:H2'	1:A:1705:U:O4'	2.19	0.42
1:A:1731:A:H2'	1:A:1732:A:C8	2.55	0.42
1:A:1914:A:H2'	1:A:1915:A:C8	2.54	0.42
1:A:2205:C:N3	1:A:2220:A:C2	2.88	0.42
1:A:2242:C:H5'	3:FJ:63:LYS:HZ3	1.84	0.42
1:A:2356:C:P	3:FL:61:ASN:ND2	2.93	0.42
1:A:2368:C:O5'	1:A:2370:U:P	2.77	0.42
1:A:2426:U:H3	1:A:2890:C:H41	1.68	0.42
1:A:2501:U:H2'	1:A:2502:G:C8	2.55	0.42
1:A:2591:C:H2'	1:A:2592:G:C1'	2.49	0.42
1:A:2602:U:O2'	1:A:2603:A:H5"	2.19	0.42
1:A:2606:U:O3'	3:EI:59:ARG:CZ	2.67	0.42
1:A:2667:A:C2	1:A:2786:U:C2	3.08	0.42
1:A:2694:U:O4	1:A:2695:A:N6	2.53	0.42
1:A:2885:G:H2'	1:A:2886:U:O4'	2.20	0.42
1:A:3055:G:H2'	1:A:3056:U:C6	2.55	0.42
1:A:3260:A:H2'	1:A:3261:U:C6	2.55	0.42
1:A:3417:G:H2'	1:A:3418:U:C6	2.55	0.42
1:A:3825:C:C2'	1:A:3826:C:OP1	2.67	0.42
1:A:4071:C:H2'	1:A:4072:C:O4'	2.20	0.42
1:A:4212:C:O2'	1:A:4213:U:C5'	2.68	0.42
3:BD:132:TYR:HD2	3:GK:132:TYR:OH	2.02	0.42
3:BL:105:ARG:CZ	3:CG:128:LEU:HD11	2.50	0.42
3:CA:8:LEU:HD11	3:DH:115:LEU:HD22	2.01	0.42
3:CA:24:ARG:NE	3:CA:36:SER:OG	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CA:46:LYS:HG2	3:CA:70:ASN:OD1	2.20	0.42
3:CB:126:ASP:CG	3:HC:109:ARG:NH2	2.71	0.42
3:CC:111:GLU:CA	3:DF:11:ILE:HD11	2.50	0.42
3:CE:56:SER:OG	3:CE:57:ARG:N	2.53	0.42
3:CI:100:SER:HA	3:DI:86:ARG:NH2	2.35	0.42
3:CJ:92:VAL:HG22	3:HJ:92:VAL:HG13	2.01	0.42
3:CK:3:LEU:HD23	3:CK:3:LEU:H	1.85	0.42
3:CL:125:ILE:CG2	3:CL:126:ASP:N	2.82	0.42
3:CM:24:ARG:HB2	3:CM:34:SER:C	2.40	0.42
3:CM:62:TYR:CD2	3:NA:128:LEU:CD2	3.03	0.42
3:CN:54:GLN:N	3:CN:54:GLN:OE1	2.53	0.42
3:DF:41:VAL:N	3:DF:42:PRO:CD	2.83	0.42
3:DG:131:ALA:HA	3:EJ:1:ALA:HB1	2.01	0.42
3:DI:19:LEU:HD21	3:DI:21:LEU:HD21	2.01	0.42
3:DJ:96:PHE:HB3	3:DJ:100:SER:OG	2.20	0.42
3:DK:81:ASP:O	3:DK:83:SER:N	2.53	0.42
3:EA:98:GLN:NE2	3:EB:43:ALA:CB	2.83	0.42
3:EF:62:TYR:CD1	3:FA:128:LEU:HD22	2.55	0.42
3:EI:54:GLN:HB3	3:EI:55:PRO:HD2	2.00	0.42
3:EJ:56:SER:O	3:EJ:59:ARG:O	2.38	0.42
3:FA:106:ALA:HB1	3:FA:109:ARG:NH2	2.35	0.42
3:FD:24:ARG:NH1	3:GB:128:LEU:O	2.53	0.42
3:FE:3:LEU:O	3:FE:3:LEU:HD12	2.19	0.42
3:FE:99:TYR:CE2	3:FF:83:SER:HA	2.55	0.42
3:FH:11:ILE:HD12	3:FK:107:PHE:HE1	1.85	0.42
3:FH:23:PRO:HA	3:FH:35:LEU:HD23	2.01	0.42
3:FI:11:ILE:HD11	3:KE:111:GLU:CG	2.50	0.42
3:FI:68:ILE:HB	3:FI:90:ALA:HB3	2.02	0.42
3:FI:105:ARG:CZ	3:KE:126:ASP:O	2.68	0.42
3:FI:112:LEU:HD11	3:KE:92:VAL:HG21	2.02	0.42
3:FJ:45:GLU:HB3	3:FJ:71:PRO:HG2	2.02	0.42
3:FJ:55:PRO:HG3	3:FJ:62:TYR:CE1	2.52	0.42
3:FJ:122:ILE:HA	3:HF:109:ARG:NH1	2.34	0.42
3:FK:37:GLN:OE1	3:FK:46:LYS:HG3	2.20	0.42
3:FM:60:LYS:HB3	3:FM:61:ASN:HB3	2.02	0.42
3:FM:69:GLN:HA	3:FM:89:TYR:HB3	2.02	0.42
3:FN:128:LEU:HB2	3:HC:24:ARG:HH22	1.85	0.42
3:GD:44:LEU:HD13	3:GF:98:GLN:NE2	2.35	0.42
3:GD:60:LYS:HB2	3:GD:61:ASN:HB3	2.00	0.42
3:GE:119:PRO:HA	3:GE:122:ILE:HD12	2.02	0.42
3:GI:119:PRO:HA	3:GI:122:ILE:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GJ:41:VAL:N	3:GJ:42:PRO:CD	2.83	0.42
3:GJ:52:VAL:O	3:GJ:52:VAL:HG23	2.19	0.42
3:GM:11:ILE:CG2	3:GM:17:GLN:HB2	2.50	0.42
3:HC:48:VAL:HG22	3:HC:68:ILE:HD12	2.01	0.42
3:HC:49:THR:OG1	3:HC:67:LYS:HD2	2.20	0.42
3:HG:115:LEU:HB3	3:HG:121:LEU:HD11	2.00	0.42
3:HI:115:LEU:HD22	3:II:8:LEU:CD1	2.49	0.42
3:HI:128:LEU:HD11	3:II:105:ARG:CD	2.50	0.42
3:HK:23:PRO:HA	3:HK:35:LEU:HD13	2.02	0.42
3:HK:98:GLN:OE1	3:HK:98:GLN:N	2.43	0.42
3:HN:21:LEU:HB3	3:HN:35:LEU:HB3	2.02	0.42
3:ID:37:GLN:O	3:ID:45:GLU:OE2	2.37	0.42
3:IE:52:VAL:CG1	3:JL:130:PRO:HA	2.50	0.42
3:IG:96:PHE:CZ	3:IG:105:ARG:HG2	2.55	0.42
3:IH:86:ARG:NH1	3:NG:100:SER:HA	2.35	0.42
3:JD:98:GLN:HE21	3:JE:43:ALA:HA	1.85	0.42
3:JI:3:LEU:HD21	3:JI:33:ALA:HB1	2.02	0.42
3:JJ:11:ILE:HG22	3:JJ:17:GLN:C	2.39	0.42
3:KB:59:ARG:HA	3:KB:59:ARG:CZ	2.50	0.42
3:KC:100:SER:HA	3:LC:86:ARG:CZ	2.50	0.42
3:KF:69:GLN:HG3	3:KF:87:GLN:NE2	2.35	0.42
3:KF:106:ALA:HA	3:KF:109:ARG:NE	2.34	0.42
3:KH:41:VAL:HG13	3:KH:44:LEU:HD21	2.00	0.42
3:KK:94:PHE:HB3	3:KK:96:PHE:CE2	2.55	0.42
3:KK:103:GLU:HA	3:MH:13:LYS:HE3	2.01	0.42
3:KL:56:SER:OG	3:KL:59:ARG:N	2.52	0.42
3:KN:98:GLN:CD	3:LA:43:ALA:HB2	2.40	0.42
3:LA:27:ASN:OD1	3:LA:28:PRO:HD2	2.19	0.42
3:LA:109:ARG:CZ	3:MD:122:ILE:HG22	2.49	0.42
3:LC:52:VAL:O	3:LC:52:VAL:CG2	2.66	0.42
3:LF:3:LEU:HD21	3:LF:33:ALA:HB1	2.02	0.42
3:LF:98:GLN:O	3:LG:42:PRO:HD2	2.20	0.42
3:LG:46:LYS:HD3	3:LG:70:ASN:ND2	2.34	0.42
3:LJ:46:LYS:CD	3:LJ:70:ASN:OD1	2.67	0.42
3:LL:131:ALA:HB1	3:MB:3:LEU:HD23	2.02	0.42
3:ME:52:VAL:HG11	3:NH:130:PRO:CG	2.50	0.42
3:ME:75:THR:O	3:NI:79:SER:HA	2.20	0.42
3:ME:103:GLU:HA	3:NH:13:LYS:HD2	2.01	0.42
3:MF:54:GLN:HB3	3:MF:55:PRO:CD	2.49	0.42
3:MG:49:THR:OG1	3:MG:67:LYS:HB2	2.20	0.42
3:MG:92:VAL:CG1	3:MG:94:PHE:CE2	3.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:6:VAL:HG12	3:MH:8:LEU:HD22	2.00	0.42
3:MH:57:ARG:HH11	3:MH:57:ARG:HG3	1.85	0.42
3:ML:55:PRO:HB2	3:ML:60:LYS:CE	2.50	0.42
3:NB:19:LEU:CD2	3:NB:21:LEU:HD21	2.49	0.42
3:NB:41:VAL:N	3:NB:42:PRO:CD	2.82	0.42
3:NF:91:ASP:OD2	3:NF:91:ASP:O	2.37	0.42
3:NF:103:GLU:OE2	3:NF:104:GLU:HG3	2.20	0.42
3:NH:92:VAL:CG1	3:NH:94:PHE:CE1	3.02	0.42
3:NJ:24:ARG:HB2	3:NJ:34:SER:OG	2.20	0.42
1:A:392:U:O3'	3:DJ:57:ARG:NH2	2.53	0.42
1:A:427:C:C2'	1:A:429:U:OP2	2.67	0.42
1:A:495:C:OP1	3:BK:63:LYS:CE	2.68	0.42
1:A:1031:G:N3	3:IJ:57:ARG:NH2	2.67	0.42
1:A:1062:A:H2'	1:A:1063:C:O4'	2.20	0.42
1:A:1212:A:H2'	1:A:1213:C:C6	2.55	0.42
1:A:1217:A:OP2	1:A:1218:U:C5	2.72	0.42
1:A:1392:A:H2'	1:A:1393:A:C8	2.54	0.42
1:A:1440:G:H2'	1:A:1441:U:C6	2.55	0.42
1:A:1475:G:N7	1:A:1476:C:C5	2.87	0.42
1:A:1533:A:C3'	1:A:1534:A:H5"	2.50	0.42
1:A:1568:C:H3'	1:A:1569:A:C5'	2.50	0.42
1:A:1607:G:H2'	1:A:1608:G:C8	2.55	0.42
1:A:1783:C:O2'	1:A:1810:U:N3	2.34	0.42
1:A:1928:C:C2	1:A:1992:G:C2	3.08	0.42
1:A:2064:C:H2'	1:A:2065:U:O5'	2.20	0.42
1:A:2280:U:C4	1:A:2281:U:C4	3.07	0.42
1:A:2288:G:O5'	1:A:2288:G:H8	2.03	0.42
1:A:2300:U:H2'	1:A:2301:A:O4'	2.20	0.42
1:A:2335:A:O4'	3:HC:89:TYR:CE2	2.73	0.42
1:A:2349:U:N3	1:A:2350:G:N7	2.67	0.42
1:A:2377:A:H4'	1:A:2378:C:O5'	2.20	0.42
1:A:2404:C:H4'	1:A:2405:C:C5'	2.49	0.42
1:A:2414:A:O4'	1:A:2899:C:OP1	2.38	0.42
1:A:2848:A:H2'	1:A:2849:C:N1	2.35	0.42
1:A:2858:G:O2'	1:A:2859:U:H5'	2.19	0.42
1:A:2919:C:H2'	1:A:2920:U:O4'	2.19	0.42
1:A:2942:U:O2	1:A:2943:A:C8	2.73	0.42
1:A:2963:C:H2'	1:A:2963:C:O2	2.19	0.42
1:A:3097:U:H2'	1:A:3098:C:C6	2.55	0.42
1:A:3282:G:H3'	1:A:3283:A:C8	2.55	0.42
1:A:3583:A:C2'	1:A:3584:C:O5'	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3797:G:O3'	3:KK:55:PRO:O	2.38	0.42
1:A:3808:G:O2'	3:KH:57:ARG:O	2.30	0.42
1:A:3826:C:OP2	3:FE:53:SER:OG	2.37	0.42
1:A:3840:C:C5'	1:A:3841:A:OP1	2.68	0.42
1:A:3879:C:OP1	3:EA:69:GLN:OE1	2.37	0.42
1:A:3918:G:C6	1:A:3944:G:N1	2.88	0.42
1:A:3929:U:H2'	1:A:3930:C:C6	2.55	0.42
1:A:3999:C:H2'	1:A:4000:C:C1'	2.50	0.42
1:A:4163:A:C4	1:A:4164:U:C6	3.08	0.42
2:M:223:ASP:OD1	2:M:227:ARG:CD	2.67	0.42
3:B:72:THR:HG1	3:D:104:GLU:CD	2.23	0.42
3:BA:41:VAL:N	3:BA:42:PRO:CD	2.83	0.42
3:BD:126:ASP:N	3:JB:105:ARG:NE	2.68	0.42
3:BE:34:SER:O	3:BE:35:LEU:HD22	2.20	0.42
3:BI:8:LEU:HD22	3:BI:8:LEU:N	2.35	0.42
3:BK:24:ARG:NE	3:BK:24:ARG:O	2.52	0.42
3:CA:125:ILE:HD11	3:DH:64:VAL:HG11	2.00	0.42
3:CJ:110:THR:OG1	3:HJ:11:ILE:CD1	2.68	0.42
3:CL:24:ARG:HB3	3:CL:34:SER:O	2.20	0.42
3:CM:112:LEU:CD2	3:NA:116:LEU:HD21	2.48	0.42
3:CM:114:ALA:HB1	3:NA:8:LEU:HG	2.02	0.42
3:DB:50:VAL:HG21	3:DK:120:LEU:HD21	2.01	0.42
3:DB:92:VAL:HG22	3:DK:92:VAL:HG13	2.01	0.42
3:DB:94:PHE:CD2	3:DK:125:ILE:CD1	3.02	0.42
3:DI:44:LEU:HD22	3:DK:98:GLN:O	2.20	0.42
3:EA:30:ASN:CG	3:EA:32:VAL:HG23	2.40	0.42
3:EB:109:ARG:HH12	3:MJ:126:ASP:N	2.17	0.42
3:EE:86:ARG:NH2	3:LI:99:TYR:O	2.53	0.42
3:EF:116:LEU:CD1	3:FA:112:LEU:HD23	2.49	0.42
3:EI:13:LYS:NZ	3:GA:103:GLU:HA	2.34	0.42
3:EI:49:THR:O	3:EI:66:VAL:HG13	2.20	0.42
3:FA:13:LYS:HD2	3:FA:13:LYS:H	1.85	0.42
3:FB:126:ASP:OD1	3:LJ:106:ALA:N	2.52	0.42
3:FC:115:LEU:HD12	3:GB:68:ILE:HD11	2.02	0.42
3:FK:49:THR:OG1	3:FK:67:LYS:HE3	2.18	0.42
3:FL:86:ARG:NH2	3:HD:100:SER:N	2.68	0.42
3:GA:21:LEU:N	3:GA:21:LEU:HD22	2.35	0.42
3:GA:97:THR:N	3:GA:100:SER:OG	2.51	0.42
3:GD:106:ALA:O	3:GD:109:ARG:HG2	2.20	0.42
3:GE:3:LEU:HD23	3:GE:3:LEU:H	1.84	0.42
3:GE:11:ILE:CG2	3:GE:17:GLN:HB2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GE:118:SER:OG	3:GE:119:PRO:CD	2.67	0.42
3:GJ:3:LEU:HD12	3:GJ:35:LEU:HD11	2.01	0.42
3:GJ:105:ARG:NH2	3:GN:126:ASP:O	2.48	0.42
3:GK:79:SER:OG	3:GN:76:ALA:HA	2.20	0.42
3:GL:2:LYS:HA	3:HG:132:TYR:OXT	2.19	0.42
3:GL:131:ALA:HB1	3:HG:3:LEU:CD2	2.46	0.42
3:GM:106:ALA:O	3:GM:110:THR:HG22	2.19	0.42
3:HA:101:THR:HG23	3:HA:104:GLU:H	1.85	0.42
3:HC:26:VAL:HG23	3:HC:32:VAL:C	2.41	0.42
3:HE:21:LEU:HD13	3:HE:36:SER:C	2.40	0.42
3:HF:52:VAL:HG12	3:HF:64:VAL:HG13	2.02	0.42
3:HN:64:VAL:HG11	3:ID:125:ILE:HD11	1.97	0.42
3:IB:81:ASP:O	3:IB:83:SER:N	2.53	0.42
3:IB:132:TYR:CE1	3:IJ:28:PRO:HB3	2.55	0.42
3:IE:37:GLN:O	3:IE:45:GLU:CG	2.67	0.42
3:IH:52:VAL:HG23	3:IH:64:VAL:CG2	2.50	0.42
3:II:27:ASN:O	3:II:31:GLY:N	2.52	0.42
3:II:41:VAL:O	3:II:44:LEU:N	2.43	0.42
3:IJ:11:ILE:CD1	3:NE:111:GLU:OE2	2.68	0.42
3:JF:2:LYS:HA	3:KA:132:TYR:OXT	2.20	0.42
3:JG:4:GLU:N	3:JG:4:GLU:OE1	2.53	0.42
3:JG:97:THR:N	3:JG:100:SER:HG	2.18	0.42
3:JG:122:ILE:CG2	3:JG:123:ASP:N	2.82	0.42
3:JJ:8:LEU:HD22	3:JJ:8:LEU:N	2.35	0.42
3:KA:42:PRO:HA	3:KA:45:GLU:CD	2.40	0.42
3:KD:16:LYS:HE2	3:KD:16:LYS:CA	2.50	0.42
3:KJ:32:VAL:O	3:KJ:32:VAL:HG23	2.19	0.42
3:KJ:128:LEU:HD11	3:LE:105:ARG:CD	2.50	0.42
3:KK:109:ARG:HD2	3:KK:109:ARG:C	2.40	0.42
3:KL:11:ILE:CG2	3:KL:17:GLN:HB2	2.50	0.42
3:KL:55:PRO:HD2	3:KL:62:TYR:CE2	2.55	0.42
3:KM:26:VAL:HG23	3:KM:32:VAL:C	2.40	0.42
3:KM:120:LEU:HD22	3:MF:35:LEU:HD11	2.02	0.42
3:LG:99:TYR:OH	3:LH:83:SER:HA	2.20	0.42
3:LH:126:ASP:OD2	3:LH:127:GLN:HG3	2.20	0.42
3:LM:51:SER:OG	3:LM:65:GLN:HB2	2.20	0.42
3:LN:20:VAL:O	3:LN:37:GLN:HA	2.20	0.42
3:MA:108:VAL:HA	3:MA:111:GLU:HG2	2.02	0.42
3:MB:123:ASP:O	3:MB:127:GLN:HB2	2.20	0.42
3:MG:24:ARG:HB3	3:MG:34:SER:HB2	2.01	0.42
3:MG:54:GLN:HB3	3:MG:55:PRO:CD	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MG:127:GLN:HB3	3:MG:129:ASN:ND2	2.34	0.42
3:ML:21:LEU:HB3	3:ML:35:LEU:HB3	2.02	0.42
3:MM:49:THR:OG1	3:MM:67:LYS:HB2	2.20	0.42
3:MM:89:TYR:CD2	3:MM:89:TYR:N	2.88	0.42
3:ND:29:THR:HG1	3:ND:30:ASN:H	1.68	0.42
3:NI:115:LEU:HG	3:NI:121:LEU:HD11	2.00	0.42
3:NJ:21:LEU:HD13	3:NJ:48:VAL:HG11	2.02	0.42
1:A:10:C:OP1	3:CH:60:LYS:HE2	2.20	0.41
1:A:43:C:C2	1:A:44:U:C5	3.08	0.41
1:A:67:A:H4'	1:A:68:A:OP1	2.20	0.41
1:A:219:U:OP1	3:NJ:65:GLN:NE2	2.53	0.41
1:A:358:G:C2'	1:A:359:A:O4'	2.67	0.41
1:A:445:U:H2'	1:A:446:C:C6	2.55	0.41
1:A:501:U:H2'	1:A:502:G:O4'	2.19	0.41
1:A:501:U:H2'	1:A:502:G:C8	2.55	0.41
1:A:510:G:H2'	1:A:511:A:C8	2.55	0.41
1:A:538:U:O4'	3:CH:57:ARG:NH2	2.53	0.41
1:A:942:U:OP1	1:A:1243:C:N4	2.53	0.41
1:A:1000:G:C2	1:A:1001:A:N7	2.88	0.41
1:A:1088:A:N1	1:A:1194:C:C4	2.88	0.41
1:A:1301:U:HO2'	3:CG:89:TYR:HE2	1.63	0.41
1:A:1362:G:C6	1:A:1377:A:N6	2.88	0.41
1:A:1378:U:H2'	1:A:1379:C:C6	2.55	0.41
1:A:1622:G:OP1	3:IL:58:ASN:ND2	2.48	0.41
1:A:1671:C:N3	1:A:1745:A:C6	2.88	0.41
1:A:1838:U:O2'	3:GJ:57:ARG:CZ	2.68	0.41
1:A:1955:C:N4	1:A:1966:U:C2	2.88	0.41
1:A:2041:A:H5'	3:KB:60:LYS:HE2	2.02	0.41
1:A:2329:C:H2'	1:A:2330:U:C6	2.55	0.41
1:A:2374:G:C6	1:A:2375:U:C4	3.08	0.41
1:A:2441:A:OP2	1:A:2473:A:H4'	2.20	0.41
1:A:2451:G:C5	1:A:2452:C:C5	3.08	0.41
1:A:2638:U:C4	1:A:2639:C:C5	3.08	0.41
1:A:2650:A:C2	1:A:2651:G:C4	3.08	0.41
1:A:2921:C:OP1	3:FM:55:PRO:N	2.53	0.41
1:A:3004:C:H1'	1:A:3387:A:N1	2.35	0.41
1:A:3005:A:H1'	1:A:3080:G:N2	2.35	0.41
1:A:3153:A:H2'	1:A:3154:A:C8	2.55	0.41
1:A:3250:U:P	3:MH:67:LYS:HZ3	2.34	0.41
1:A:3282:G:OP2	1:A:3376:C:OP1	2.38	0.41
1:A:3316:C:HO2'	1:A:3317:U:C4'	2.16	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3395:C:N4	1:A:3396:U:O4	2.53	0.41
1:A:3424:G:O2'	1:A:3425:A:N7	2.53	0.41
1:A:3508:A:O3'	3:KJ:59:ARG:NH2	2.53	0.41
1:A:3577:C:C2	1:A:3578:C:C6	3.08	0.41
1:A:3770:C:H5'	3:LH:30:ASN:HB3	2.02	0.41
1:A:3841:A:C5	1:A:3846:A:N7	2.88	0.41
1:A:4033:A:H2'	1:A:4034:U:C6	2.55	0.41
1:A:4151:U:H2'	1:A:4152:G:H8	1.85	0.41
2:M:148:THR:OG1	2:M:149:MET:SD	2.72	0.41
3:BA:106:ALA:CB	3:MK:13:LYS:HD2	2.50	0.41
3:BC:111:GLU:CD	3:BC:112:LEU:N	2.73	0.41
3:BD:103:GLU:CA	3:JB:13:LYS:HZ3	2.33	0.41
3:BE:116:LEU:HD23	3:CE:113:ALA:CA	2.50	0.41
3:BF:21:LEU:N	3:BF:21:LEU:HD22	2.34	0.41
3:BG:125:ILE:CG2	3:BG:126:ASP:N	2.83	0.41
3:BI:50:VAL:O	3:BI:50:VAL:HG13	2.19	0.41
3:BI:123:ASP:OD1	3:BI:123:ASP:O	2.38	0.41
3:BI:125:ILE:O	3:HM:105:ARG:HD2	2.20	0.41
3:BK:8:LEU:CD2	3:BK:8:LEU:N	2.83	0.41
3:BK:8:LEU:HD13	3:BK:8:LEU:HA	1.83	0.41
3:BK:109:ARG:HG3	3:HK:116:LEU:HD12	2.02	0.41
3:BK:112:LEU:O	3:BK:116:LEU:HD12	2.20	0.41
3:BL:131:ALA:HB1	3:CG:3:LEU:CD1	2.50	0.41
3:BN:19:LEU:HD21	3:BN:21:LEU:HD11	2.01	0.41
3:CA:17:GLN:CD	3:CA:17:GLN:N	2.73	0.41
3:CA:122:ILE:HD13	3:DH:109:ARG:NH2	2.35	0.41
3:CB:4:GLU:HG3	3:CB:5:THR:H	1.85	0.41
3:CC:101:THR:HG23	3:DF:86:ARG:NH2	2.16	0.41
3:CI:1:ALA:HB3	3:DI:130:PRO:O	2.20	0.41
3:CJ:115:LEU:HD12	3:HJ:8:LEU:HD21	2.02	0.41
3:CL:4:GLU:OE1	3:CL:5:THR:O	2.38	0.41
3:CM:62:TYR:CE1	3:CM:98:GLN:HA	2.55	0.41
3:CM:105:ARG:CD	3:NA:128:LEU:CD1	2.98	0.41
3:DI:84:VAL:O	3:DI:84:VAL:HG13	2.20	0.41
3:DI:119:PRO:HA	3:DI:122:ILE:HG12	2.02	0.41
3:DJ:3:LEU:HD11	3:DJ:26:VAL:CG2	2.50	0.41
3:DJ:79:SER:O	3:DJ:80:CYS:CB	2.68	0.41
3:DL:84:VAL:O	3:DL:84:VAL:HG13	2.20	0.41
3:DL:115:LEU:CD1	3:MN:68:ILE:HD11	2.50	0.41
3:DM:6:VAL:HG12	3:DM:8:LEU:HD21	2.01	0.41
3:DM:100:SER:OG	3:DM:101:THR:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:72:THR:HG22	3:EB:73:ALA:N	2.34	0.41
3:EB:107:PHE:HE1	3:MJ:19:LEU:HD21	1.84	0.41
3:ED:8:LEU:CD1	3:EH:114:ALA:CB	2.97	0.41
3:ED:119:PRO:CA	3:ED:122:ILE:HG12	2.46	0.41
3:EG:27:ASN:O	3:EG:31:GLY:N	2.50	0.41
3:EH:24:ARG:CZ	3:GC:129:ASN:OD1	2.68	0.41
3:EI:33:ALA:HB3	3:EI:50:VAL:HG23	2.01	0.41
3:EI:91:ASP:HB3	3:GA:93:THR:OG1	2.20	0.41
3:EK:79:SER:O	3:EK:80:CYS:CB	2.68	0.41
3:EL:14:ASP:OD1	3:EL:14:ASP:C	2.58	0.41
3:EL:97:THR:HG23	3:EL:100:SER:N	2.35	0.41
3:EN:123:ASP:OD1	3:EN:127:GLN:HB2	2.19	0.41
3:FB:125:ILE:O	3:LJ:105:ARG:HD2	2.19	0.41
3:FC:12:GLY:H	3:GB:110:THR:CB	2.32	0.41
3:FH:68:ILE:CD1	3:FK:112:LEU:HD13	2.48	0.41
3:FH:101:THR:O	3:FH:104:GLU:N	2.53	0.41
3:FJ:8:LEU:CD1	3:HF:114:ALA:HB1	2.45	0.41
3:FK:52:VAL:O	3:FK:52:VAL:CG2	2.67	0.41
3:FM:106:ALA:O	3:FM:109:ARG:HB2	2.20	0.41
3:GB:102:ASP:OD1	3:GB:103:GLU:N	2.53	0.41
3:GD:13:LYS:CE	3:KF:103:GLU:HA	2.50	0.41
3:GF:123:ASP:OD2	3:GF:129:ASN:HB2	2.20	0.41
3:GH:24:ARG:NE	3:GH:24:ARG:CA	2.83	0.41
3:GI:24:ARG:HA	3:KB:130:PRO:HG2	2.02	0.41
3:GJ:8:LEU:HA	3:GJ:8:LEU:HD12	1.79	0.41
3:GJ:68:ILE:O	3:GJ:68:ILE:HG23	2.20	0.41
3:GK:105:ARG:NE	3:JA:125:ILE:O	2.45	0.41
3:GM:119:PRO:HA	3:GM:122:ILE:CG1	2.50	0.41
3:GN:21:LEU:HD12	3:GN:21:LEU:N	2.35	0.41
3:HH:41:VAL:N	3:HH:42:PRO:CD	2.83	0.41
3:HI:86:ARG:NH2	3:II:101:THR:HG23	2.35	0.41
3:HJ:91:ASP:C	3:HJ:91:ASP:OD2	2.59	0.41
3:HK:71:PRO:HA	3:HK:87:GLN:HA	2.01	0.41
3:HK:128:LEU:HD12	3:HK:128:LEU:N	2.34	0.41
3:HN:23:PRO:HA	3:HN:35:LEU:HD13	2.02	0.41
3:HN:26:VAL:HG13	3:HN:32:VAL:C	2.41	0.41
3:HN:52:VAL:HG21	3:ID:130:PRO:HA	2.01	0.41
3:IB:118:SER:O	3:IB:122:ILE:HG12	2.20	0.41
3:IC:67:LYS:NZ	3:IC:91:ASP:OD2	2.45	0.41
3:IE:102:ASP:OD1	3:IE:102:ASP:C	2.57	0.41
3:IE:123:ASP:OD1	3:IE:129:ASN:OD1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:127:GLN:HB2	3:IH:129:ASN:ND2	2.35	0.41
3:II:37:GLN:HB2	3:II:46:LYS:HE2	2.01	0.41
3:JC:117:ALA:O	3:JC:122:ILE:HD11	2.20	0.41
3:JG:6:VAL:HG12	3:JG:8:LEU:HD22	2.00	0.41
3:JI:2:LYS:HE3	3:LD:132:TYR:OH	2.20	0.41
3:KC:21:LEU:CD1	3:KC:48:VAL:HG21	2.49	0.41
3:KC:118:SER:OG	3:LC:6:VAL:HG13	2.20	0.41
3:KF:56:SER:OG	3:KF:59:ARG:N	2.52	0.41
3:KG:39:GLY:HA3	3:KG:45:GLU:OE2	2.20	0.41
3:KH:41:VAL:O	3:KH:44:LEU:N	2.38	0.41
3:KI:54:GLN:OE1	3:KI:62:TYR:CE2	2.73	0.41
3:KJ:3:LEU:CD2	3:LE:131:ALA:HB1	2.49	0.41
3:KJ:105:ARG:NE	3:LE:128:LEU:CD1	2.83	0.41
3:KM:100:SER:HA	3:MF:86:ARG:NH1	2.34	0.41
3:KM:101:THR:HG23	3:KM:104:GLU:H	1.84	0.41
3:KM:125:ILE:CD1	3:MF:94:PHE:HD1	2.33	0.41
3:LA:94:PHE:HE2	3:LA:108:VAL:HG12	1.85	0.41
3:LB:8:LEU:N	3:LB:8:LEU:HD22	2.35	0.41
3:LC:27:ASN:OD1	3:LC:27:ASN:C	2.58	0.41
3:LC:40:ALA:O	3:LC:43:ALA:HB3	2.20	0.41
3:LH:56:SER:O	3:LH:60:LYS:HD3	2.20	0.41
3:LL:8:LEU:HB3	3:LL:11:ILE:CD1	2.50	0.41
3:LN:2:LYS:HA	3:MI:132:TYR:OXT	2.20	0.41
3:MC:27:ASN:ND2	3:MC:30:ASN:OD1	2.53	0.41
3:MF:54:GLN:HB3	3:MF:55:PRO:HD2	2.02	0.41
3:MI:13:LYS:HE3	3:MI:126:ASP:OD2	2.20	0.41
3:MM:14:ASP:OD2	3:MM:16:LYS:HB3	2.20	0.41
3:NA:21:LEU:HD22	3:NA:21:LEU:N	2.35	0.41
3:ND:53:SER:HB2	3:ND:63:LYS:HB3	2.01	0.41
3:NJ:59:ARG:CG	3:NJ:61:ASN:OD1	2.68	0.41
1:A:156:U:C4	1:A:157:U:C4	3.09	0.41
1:A:172:U:H2'	1:A:173:G:C8	2.55	0.41
1:A:211:G:C5'	1:A:3050:A:H4'	2.50	0.41
1:A:221:U:C2	1:A:232:G:N2	2.88	0.41
1:A:435:G:C8	1:A:435:G:OP1	2.73	0.41
1:A:454:U:H2'	1:A:455:U:C6	2.55	0.41
1:A:617:U:H2'	1:A:618:U:C6	2.55	0.41
1:A:622:C:O2	1:A:644:G:C2	2.70	0.41
1:A:1080:U:P	3:JL:61:ASN:ND2	2.93	0.41
1:A:1123:C:H2'	1:A:1124:U:N1	2.35	0.41
1:A:1240:A:H2'	1:A:1242:A:OP2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1244:U:H5”	1:A:1247:A:H2	1.86	0.41
1:A:1314:A:H2’	1:A:1315:A:C4	2.55	0.41
1:A:1494:G:C6	1:A:1495:U:C4	3.08	0.41
1:A:1838:U:C4	1:A:1839:A:N7	2.88	0.41
1:A:2104:U:H2’	1:A:2105:U:O4’	2.20	0.41
1:A:2216:C:C2	1:A:2217:G:C8	3.08	0.41
1:A:2337:C:O3’	3:HB:57:ARG:NH1	2.43	0.41
1:A:2489:U:H3’	1:A:2491:A:H5’	2.02	0.41
1:A:2504:G:N1	1:A:2515:U:C4	2.88	0.41
1:A:2623:U:C2	1:A:2624:U:C5	3.08	0.41
1:A:2628:U:C4	1:A:2629:G:N7	2.88	0.41
1:A:2734:U:O2’	1:A:2735:A:OP1	2.31	0.41
1:A:2795:G:C6	1:A:2831:A:N1	2.89	0.41
1:A:2829:A:C2	1:A:2830:C:C4	3.09	0.41
1:A:2967:U:O2	1:A:2967:U:O4’	2.37	0.41
1:A:3237:U:C5	1:A:3238:U:C4	3.09	0.41
1:A:3244:U:C5’	3:KK:58:ASN:HB3	2.50	0.41
1:A:3306:A:H2	1:A:3312:U:H2’	1.85	0.41
1:A:3336:U:H2’	1:A:3338:C:N4	2.34	0.41
1:A:3410:G:H5’	1:A:3411:G:OP2	2.20	0.41
1:A:3555:U:O2’	1:A:3556:A:O5’	2.31	0.41
1:A:3677:G:N1	1:A:3765:C:N3	2.68	0.41
1:A:3686:U:O2	1:A:3754:G:C2	2.72	0.41
1:A:3760:G:C2	1:A:3761:U:O4	2.73	0.41
1:A:3862:C:O2’	1:A:3863:U:C5’	2.68	0.41
1:A:3894:U:H2’	1:A:3895:C:H6	1.85	0.41
1:A:3937:G:H2’	1:A:3938:U:H5’	2.02	0.41
1:A:4135:C:H4’	3:KE:59:ARG:NH2	2.35	0.41
1:A:4187:A:C2	1:A:4209:C:C2	3.08	0.41
3:B:105:ARG:HB3	3:D:125:ILE:HG22	2.02	0.41
3:D:47:ARG:HH21	3:D:69:GLN:CG	2.33	0.41
3:BA:128:LEU:CD2	3:MK:62:TYR:CG	3.03	0.41
3:BB:62:TYR:CE2	3:BC:42:PRO:CB	3.01	0.41
3:BD:131:ALA:HB1	3:JB:3:LEU:CD2	2.50	0.41
3:BH:109:ARG:NE	3:IL:122:ILE:HG22	2.34	0.41
3:BK:62:TYR:CD2	3:HK:128:LEU:CD2	3.02	0.41
3:CA:84:VAL:O	3:CA:84:VAL:HG13	2.20	0.41
3:CB:85:THR:O	3:CB:86:ARG:HG2	2.20	0.41
3:CD:55:PRO:CG	3:CD:62:TYR:CZ	3.03	0.41
3:CD:91:ASP:OD2	3:CD:91:ASP:O	2.39	0.41
3:CD:109:ARG:NH1	3:HA:122:ILE:CD1	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:110:THR:OG1	3:HH:11:ILE:HD12	2.20	0.41
3:CM:43:ALA:C	3:CM:44:LEU:HD22	2.40	0.41
3:DC:125:ILE:HD13	3:EN:64:VAL:HG11	2.02	0.41
3:DE:8:LEU:HD22	3:EL:115:LEU:HD21	2.01	0.41
3:DF:96:PHE:CE1	3:DF:105:ARG:HG2	2.55	0.41
3:DG:11:ILE:HD11	3:EJ:111:GLU:CA	2.50	0.41
3:DM:75:THR:OG1	3:DM:82:PRO:HG3	2.20	0.41
3:EA:109:ARG:HH12	3:LM:126:ASP:CG	2.23	0.41
3:EA:110:THR:OG1	3:LM:11:ILE:CD1	2.68	0.41
3:EA:115:LEU:C	3:EA:121:LEU:HD12	2.40	0.41
3:EB:21:LEU:HD12	3:EB:21:LEU:N	2.35	0.41
3:EB:28:PRO:HB3	3:LK:132:TYR:CE1	2.56	0.41
3:EC:48:VAL:HG13	3:EC:68:ILE:HD13	2.01	0.41
3:EF:89:TYR:HB2	3:FA:95:SER:HB3	2.02	0.41
3:EF:107:PHE:CE2	3:FA:19:LEU:HD11	2.54	0.41
3:EI:14:ASP:O	3:EI:16:LYS:NZ	2.31	0.41
3:EI:50:VAL:HG23	3:EI:50:VAL:O	2.19	0.41
3:EJ:26:VAL:HG12	3:EJ:33:ALA:CB	2.50	0.41
3:EJ:81:ASP:OD2	3:EL:99:TYR:CE1	2.73	0.41
3:EK:4:GLU:OE2	3:EK:5:THR:OG1	2.35	0.41
3:FB:8:LEU:O	3:FB:18:THR:HG23	2.20	0.41
3:FF:126:ASP:O	3:LF:105:ARG:CZ	2.68	0.41
3:FI:96:PHE:CZ	3:FI:108:VAL:HG21	2.55	0.41
3:FJ:106:ALA:HB3	3:HF:13:LYS:HE3	2.02	0.41
3:FL:68:ILE:HD12	3:HD:112:LEU:HD13	2.01	0.41
3:FN:63:LYS:HZ1	3:FN:95:SER:CB	2.29	0.41
3:FN:86:ARG:HH12	3:HB:99:TYR:HB2	1.84	0.41
3:GA:55:PRO:HA	3:GA:60:LYS:O	2.19	0.41
3:GF:2:LYS:HB3	3:GF:4:GLU:OE1	2.19	0.41
3:GG:20:VAL:C	3:GG:21:LEU:HD22	2.41	0.41
3:GH:108:VAL:HA	3:GH:111:GLU:OE1	2.20	0.41
3:GI:97:THR:N	3:GI:100:SER:OG	2.53	0.41
3:GI:112:LEU:O	3:GI:116:LEU:HG	2.19	0.41
3:GJ:24:ARG:CB	3:GJ:34:SER:O	2.68	0.41
3:GL:52:VAL:HG21	3:HG:130:PRO:HA	2.01	0.41
3:HA:55:PRO:HG3	3:HA:62:TYR:CE1	2.55	0.41
3:HL:119:PRO:O	3:HL:122:ILE:HB	2.20	0.41
3:HL:120:LEU:O	3:HL:123:ASP:OD2	2.38	0.41
3:IE:21:LEU:HB3	3:IE:35:LEU:HB3	2.02	0.41
3:IF:62:TYR:CE2	3:NI:128:LEU:CD2	3.03	0.41
3:IF:96:PHE:CE2	3:IF:105:ARG:HG2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:132:TYR:OH	3:NF:26:VAL:O	2.38	0.41
3:IL:69:GLN:HA	3:IL:89:TYR:HB3	2.02	0.41
3:JB:8:LEU:N	3:JB:8:LEU:HD22	2.34	0.41
3:JG:93:THR:O	3:LD:91:ASP:OD1	2.38	0.41
3:JG:98:GLN:NE2	3:JH:43:ALA:CB	2.84	0.41
3:JI:24:ARG:HD3	3:JI:36:SER:CB	2.50	0.41
3:JJ:52:VAL:HG12	3:JJ:64:VAL:HG13	2.02	0.41
3:KC:13:LYS:HE3	3:LC:103:GLU:HA	2.01	0.41
3:KC:68:ILE:HD11	3:LC:115:LEU:CD1	2.50	0.41
3:KD:27:ASN:OD1	3:KD:30:ASN:N	2.48	0.41
3:KE:106:ALA:O	3:KE:109:ARG:HG2	2.20	0.41
3:KI:104:GLU:CD	3:KI:104:GLU:H	2.23	0.41
3:KJ:110:THR:HB	3:LE:11:ILE:HD12	2.01	0.41
3:KK:111:GLU:HB3	3:MH:11:ILE:HD11	2.01	0.41
3:KL:77:ASN:O	3:MH:77:ASN:ND2	2.53	0.41
3:KM:3:LEU:HD13	3:MF:132:TYR:C	2.40	0.41
3:LA:98:GLN:OE1	3:LB:43:ALA:CA	2.68	0.41
3:LB:70:ASN:HB3	3:LB:88:ALA:HB3	2.02	0.41
3:LD:109:ARG:HG3	3:LD:110:THR:N	2.35	0.41
3:LK:24:ARG:CZ	3:LK:36:SER:OG	2.67	0.41
3:LL:131:ALA:O	3:LL:132:TYR:CD1	2.73	0.41
3:LN:102:ASP:N	3:LN:105:ARG:NH2	2.68	0.41
3:MK:51:SER:OG	3:MK:65:GLN:HB2	2.20	0.41
3:ND:29:THR:OG1	3:ND:30:ASN:N	2.52	0.41
3:NF:75:THR:HB	3:NF:82:PRO:HG3	2.02	0.41
3:NJ:48:VAL:HG23	3:NJ:68:ILE:HG13	2.02	0.41
1:A:53:G:H2'	1:A:54:A:C8	2.55	0.41
1:A:441:U:H4'	1:A:2565:A:H4'	2.01	0.41
1:A:496:A:H2'	1:A:497:A:O4'	2.20	0.41
1:A:506:C:O5'	1:A:506:C:H6	2.03	0.41
1:A:926:A:C6	1:A:927:C:C4	3.09	0.41
1:A:946:U:O4	1:A:1238:C:O2	2.37	0.41
1:A:1281:U:H2'	1:A:1282:C:O4'	2.20	0.41
1:A:1523:U:O3'	1:A:1524:A:O4'	2.37	0.41
1:A:1589:C:H2'	1:A:1590:C:H6	1.86	0.41
1:A:1771:C:H2'	1:A:1772:A:O4'	2.20	0.41
1:A:1839:A:O4'	3:GJ:57:ARG:NH1	2.40	0.41
1:A:1854:A:N1	1:A:2195:U:N3	2.68	0.41
1:A:1873:U:H2'	1:A:2844:U:O4	2.21	0.41
1:A:1950:G:N1	1:A:1971:A:C6	2.88	0.41
1:A:2150:C:O3'	1:A:2151:A:O4'	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2347:A:C2	1:A:2348:A:N7	2.88	0.41
1:A:2348:A:H61	1:A:2367:U:H1'	1.85	0.41
1:A:2495:U:C2	1:A:2524:G:C2	3.08	0.41
1:A:2642:G:H2'	1:A:2643:G:H8	1.85	0.41
1:A:2671:A:C5	1:A:2672:C:C5	3.09	0.41
1:A:2827:C:N4	1:A:2828:A:H62	2.18	0.41
1:A:2840:C:H2'	1:A:2841:C:O4'	2.20	0.41
1:A:2915:A:H4'	1:A:2915:A:OP1	2.20	0.41
1:A:3048:C:N4	1:A:3049:A:H62	2.18	0.41
1:A:3086:U:H2'	1:A:3087:U:C6	2.55	0.41
1:A:3306:A:H4'	1:A:3307:A:OP1	2.19	0.41
1:A:3307:A:C2	3:LD:89:TYR:CE2	3.09	0.41
1:A:3398:A:C6	1:A:3399:G:N7	2.88	0.41
1:A:3437:U:O4	3:HE:85:THR:C	2.58	0.41
1:A:3445:C:H2'	1:A:3446:C:C6	2.56	0.41
1:A:3480:U:C5'	3:KL:63:LYS:NZ	2.83	0.41
1:A:4009:U:H2'	1:A:4010:A:C8	2.55	0.41
1:A:4135:C:H2'	1:A:4136:A:C8	2.54	0.41
1:A:4209:C:C2	1:A:4210:U:C5	3.08	0.41
2:M:17:ASN:CG	2:M:70:VAL:HG12	2.40	0.41
3:BD:122:ILE:C	3:JB:105:ARG:NH2	2.73	0.41
3:BE:97:THR:HG22	3:BE:100:SER:OG	2.20	0.41
3:BE:109:ARG:C	3:BE:109:ARG:HD2	2.40	0.41
3:BF:19:LEU:HD21	3:IN:107:PHE:CZ	2.55	0.41
3:BG:104:GLU:O	3:BG:108:VAL:HG12	2.19	0.41
3:BH:103:GLU:HA	3:IL:13:LYS:HE2	2.01	0.41
3:BJ:112:LEU:HD11	3:BN:92:VAL:HG21	2.01	0.41
3:BL:99:TYR:O	3:CG:86:ARG:NH2	2.52	0.41
3:BM:110:THR:OG1	3:DJ:11:ILE:CD1	2.68	0.41
3:CB:11:ILE:HG21	3:CB:19:LEU:HD23	2.01	0.41
3:CB:131:ALA:O	3:HC:3:LEU:HD13	2.20	0.41
3:CE:76:ALA:O	3:CE:78:GLY:N	2.53	0.41
3:CH:125:ILE:HD13	3:HL:64:VAL:HG11	2.02	0.41
3:CH:130:PRO:HD2	3:HM:24:ARG:HH21	1.86	0.41
3:CI:1:ALA:CB	3:DI:131:ALA:HA	2.50	0.41
3:CI:75:THR:HG23	3:CI:82:PRO:HG3	2.03	0.41
3:CI:78:GLY:O	3:CI:80:CYS:N	2.47	0.41
3:CJ:34:SER:C	3:CJ:35:LEU:HD12	2.41	0.41
3:CN:3:LEU:HD12	3:CN:23:PRO:HB2	2.01	0.41
3:CN:13:LYS:HE3	3:DD:103:GLU:O	2.21	0.41
3:DB:3:LEU:HD23	3:DK:132:TYR:HA	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:73:ALA:HB1	3:DB:83:SER:O	2.20	0.41
3:DE:11:ILE:CD1	3:EL:110:THR:OG1	2.68	0.41
3:DG:10:ASN:O	3:DG:10:ASN:OD1	2.39	0.41
3:DG:97:THR:HG23	3:EJ:86:ARG:NH2	2.33	0.41
3:DM:103:GLU:HA	3:EM:13:LYS:HZ2	1.84	0.41
3:DN:11:ILE:HD11	3:ML:111:GLU:N	2.35	0.41
3:DN:116:LEU:HD23	3:ML:113:ALA:CA	2.50	0.41
3:DN:118:SER:OG	3:DN:119:PRO:HD2	2.19	0.41
3:EB:111:GLU:OE2	3:MJ:68:ILE:HG21	2.20	0.41
3:ED:78:GLY:HA2	3:FA:77:ASN:ND2	2.35	0.41
3:EE:110:THR:HB	3:LI:11:ILE:HD12	2.02	0.41
3:EG:14:ASP:O	3:EG:14:ASP:OD1	2.38	0.41
3:EG:25:GLY:H	3:GA:130:PRO:HD2	1.85	0.41
3:EH:75:THR:OG1	3:EH:82:PRO:HG3	2.20	0.41
3:EH:80:CYS:SG	3:GC:86:ARG:NH1	2.88	0.41
3:EI:129:ASN:OD1	3:FM:24:ARG:NE	2.44	0.41
3:EJ:81:ASP:OD1	3:EL:99:TYR:CD2	2.73	0.41
3:EK:107:PHE:CE1	3:FM:19:LEU:HD21	2.56	0.41
3:EK:112:LEU:O	3:EK:116:LEU:CD1	2.68	0.41
3:FC:106:ALA:HB1	3:FC:109:ARG:HH21	1.84	0.41
3:FF:76:ALA:O	3:FF:78:GLY:N	2.48	0.41
3:FK:121:LEU:HA	3:FK:124:ALA:HB3	2.01	0.41
3:FN:122:ILE:HG23	3:HB:109:ARG:HH12	1.85	0.41
3:GE:109:ARG:HD3	3:HE:122:ILE:HG22	2.02	0.41
3:GG:106:ALA:HB2	3:JE:126:ASP:OD2	2.21	0.41
3:GI:111:GLU:OE1	3:JC:19:LEU:CD2	2.68	0.41
3:GJ:110:THR:OG1	3:GN:11:ILE:CD1	2.68	0.41
3:GL:44:LEU:N	3:GL:44:LEU:HD22	2.35	0.41
3:GM:118:SER:OG	3:GM:119:PRO:HD2	2.21	0.41
3:HA:41:VAL:O	3:HA:45:GLU:OE1	2.39	0.41
3:HB:59:ARG:O	3:HB:60:LYS:HD2	2.20	0.41
3:HE:111:GLU:HA	3:HE:111:GLU:OE2	2.21	0.41
3:HG:55:PRO:CB	3:HG:60:LYS:HD2	2.51	0.41
3:HM:96:PHE:HB3	3:HM:100:SER:OG	2.21	0.41
3:IC:55:PRO:HG3	3:IC:62:TYR:HE2	1.84	0.41
3:IC:61:ASN:HA	3:IC:96:PHE:O	2.19	0.41
3:IC:81:ASP:OD2	3:IE:99:TYR:CE2	2.73	0.41
3:IC:130:PRO:HD2	3:KA:23:PRO:O	2.20	0.41
3:ID:24:ARG:HH22	3:JN:128:LEU:HB2	1.85	0.41
3:IE:132:TYR:OXT	3:JL:2:LYS:HA	2.20	0.41
3:IF:20:VAL:C	3:IF:21:LEU:HD22	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:II:41:VAL:HG13	3:II:44:LEU:HD21	2.02	0.41
3:IJ:21:LEU:N	3:IJ:21:LEU:HD22	2.35	0.41
3:IJ:69:GLN:HG3	3:IJ:89:TYR:CE1	2.56	0.41
3:JF:109:ARG:HG3	3:KA:116:LEU:CD1	2.49	0.41
3:JG:26:VAL:HG13	3:JG:32:VAL:C	2.41	0.41
3:JG:37:GLN:HB2	3:JG:46:LYS:HB3	2.03	0.41
3:JI:96:PHE:CE1	3:JI:105:ARG:HG2	2.55	0.41
3:JJ:102:ASP:N	3:JJ:102:ASP:OD1	2.51	0.41
3:JK:30:ASN:CG	3:JK:32:VAL:HG23	2.41	0.41
3:JM:44:LEU:HD13	3:KA:98:GLN:NE2	2.35	0.41
3:KC:3:LEU:HD23	3:LC:131:ALA:HB1	2.01	0.41
3:KF:26:VAL:O	3:KF:28:PRO:HD3	2.21	0.41
3:KH:128:LEU:HD12	3:KH:128:LEU:N	2.36	0.41
3:KI:93:THR:O	3:KI:93:THR:CG2	2.66	0.41
3:KJ:48:VAL:O	3:KJ:48:VAL:HG23	2.19	0.41
3:KJ:93:THR:OG1	3:LE:91:ASP:HB3	2.21	0.41
3:KJ:121:LEU:HA	3:KJ:124:ALA:HB3	2.02	0.41
3:KK:60:LYS:HB2	3:KK:61:ASN:HB3	2.03	0.41
3:KM:122:ILE:HA	3:MF:109:ARG:CZ	2.50	0.41
3:LE:112:LEU:HG	3:LE:116:LEU:HD11	2.02	0.41
3:LE:115:LEU:C	3:LE:121:LEU:HD12	2.41	0.41
3:LG:126:ASP:OD1	3:LG:126:ASP:C	2.58	0.41
3:LI:24:ARG:HB2	3:LI:34:SER:OG	2.21	0.41
3:LL:7:THR:C	3:LL:8:LEU:HD12	2.40	0.41
3:LN:52:VAL:O	3:LN:52:VAL:CG1	2.69	0.41
3:MC:4:GLU:HG3	3:MC:5:THR:N	2.35	0.41
3:MD:41:VAL:HG23	3:MD:44:LEU:HD21	2.02	0.41
3:ME:105:ARG:NH1	3:NH:128:LEU:HD13	2.34	0.41
3:MH:66:VAL:HB	3:MH:92:VAL:CG2	2.50	0.41
3:MJ:41:VAL:N	3:MJ:42:PRO:CD	2.83	0.41
3:ML:105:ARG:O	3:ML:108:VAL:HG22	2.20	0.41
3:MM:32:VAL:HA	3:MM:51:SER:HG	1.86	0.41
3:MM:99:TYR:OH	3:MN:83:SER:HA	2.20	0.41
3:NA:3:LEU:HD12	3:NA:35:LEU:HD21	2.01	0.41
3:NC:34:SER:O	3:NC:35:LEU:HD12	2.20	0.41
3:NE:21:LEU:HD13	3:NE:36:SER:C	2.41	0.41
1:A:16:G:O4'	3:HK:57:ARG:NH2	2.53	0.41
1:A:85:C:H2'	1:A:86:G:C8	2.56	0.41
1:A:97:G:H1'	3:MJ:57:ARG:HH21	1.85	0.41
1:A:214:G:O2'	1:A:215:A:H5'	2.21	0.41
1:A:531:U:C4	1:A:539:A:N1	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:619:A:H61	1:A:647:A:C2'	2.33	0.41
1:A:633:U:H3'	3:HJ:89:TYR:OH	2.19	0.41
1:A:662:G:N2	1:A:862:C:H42	2.17	0.41
1:A:1078:C:H41	1:A:1079:A:H62	1.69	0.41
1:A:1091:U:C4	1:A:1092:U:O4	2.73	0.41
1:A:1150:C:H2'	1:A:1151:G:C8	2.55	0.41
1:A:1419:G:C6	1:A:1431:A:C6	3.08	0.41
1:A:1426:A:C2	1:A:2601:C:O2	2.73	0.41
1:A:1494:G:N1	1:A:1499:G:C2	2.88	0.41
1:A:1578:G:H2'	1:A:1579:G:C8	2.55	0.41
1:A:1609:C:H41	1:A:1610:A:N6	2.18	0.41
1:A:1676:A:H2'	1:A:1677:G:H8	1.84	0.41
1:A:1874:U:H2'	1:A:1875:U:O4'	2.19	0.41
1:A:2041:A:OP1	1:A:2042:U:OP2	2.38	0.41
1:A:2054:U:H2'	1:A:2055:G:H5"	2.03	0.41
1:A:2388:G:C6	1:A:2398:G:C6	3.08	0.41
1:A:2483:G:O2'	3:EF:57:ARG:NH1	2.53	0.41
1:A:2536:C:H42	1:A:2574:A:H61	1.68	0.41
1:A:2543:U:O2'	1:A:2567:A:OP2	2.28	0.41
1:A:2598:A:N6	1:A:2655:G:O6	2.53	0.41
1:A:2624:U:H2'	1:A:2625:G:C8	2.55	0.41
1:A:2689:C:HO2'	1:A:2690:U:P	2.39	0.41
1:A:2716:C:H2'	1:A:2717:A:C8	2.56	0.41
1:A:2757:G:C6	1:A:2758:C:C4	3.09	0.41
1:A:3244:U:H5'	3:KK:58:ASN:HB3	2.02	0.41
1:A:3246:C:P	3:KK:60:LYS:HD2	2.61	0.41
1:A:3508:A:O3'	3:KJ:59:ARG:CZ	2.69	0.41
1:A:3806:C:H2'	1:A:3807:G:C1'	2.49	0.41
3:BA:132:TYR:OH	3:MK:26:VAL:HG11	2.19	0.41
3:BB:84:VAL:O	3:BB:84:VAL:HG13	2.20	0.41
3:BB:103:GLU:CA	3:MA:13:LYS:NZ	2.79	0.41
3:BC:86:ARG:CZ	3:ND:99:TYR:O	2.69	0.41
3:BD:24:ARG:HB2	3:BD:34:SER:OG	2.21	0.41
3:BD:61:ASN:HA	3:BD:96:PHE:O	2.20	0.41
3:BD:131:ALA:HA	3:JB:1:ALA:HB1	2.02	0.41
3:BE:125:ILE:HD11	3:CE:94:PHE:CG	2.55	0.41
3:BI:129:ASN:CG	3:HK:24:ARG:HA	2.41	0.41
3:BK:101:THR:HG23	3:HK:86:ARG:NH1	2.35	0.41
3:BL:21:LEU:HD22	3:BL:21:LEU:N	2.34	0.41
3:CE:41:VAL:N	3:CE:42:PRO:CD	2.83	0.41
3:CF:100:SER:HA	3:GM:86:ARG:HH21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:98:GLN:NE2	3:CI:43:ALA:HA	2.35	0.41
3:CI:112:LEU:HD12	3:CI:112:LEU:O	2.20	0.41
3:CJ:18:THR:O	3:CJ:19:LEU:HD22	2.20	0.41
3:DB:94:PHE:CD2	3:DK:125:ILE:HD11	2.55	0.41
3:DE:60:LYS:HB2	3:DE:98:GLN:HG3	2.02	0.41
3:DG:128:LEU:N	3:DG:128:LEU:CD1	2.80	0.41
3:DI:44:LEU:HD12	3:DI:44:LEU:O	2.19	0.41
3:DJ:21:LEU:HD11	3:DJ:48:VAL:CG2	2.48	0.41
3:DN:24:ARG:NH1	3:DN:36:SER:OG	2.54	0.41
3:EB:127:GLN:O	3:MK:24:ARG:NH2	2.36	0.41
3:EC:109:ARG:NH2	3:LK:122:ILE:HG12	2.35	0.41
3:EC:114:ALA:HB1	3:LK:8:LEU:HG	2.03	0.41
3:ED:78:GLY:CA	3:FA:77:ASN:ND2	2.83	0.41
3:EE:67:LYS:HD2	3:EE:90:ALA:O	2.20	0.41
3:EG:27:ASN:ND2	3:EG:29:THR:HG1	2.17	0.41
3:EI:94:PHE:CD1	3:GA:125:ILE:HD12	2.55	0.41
3:EI:121:LEU:HD21	3:GA:66:VAL:CG2	2.50	0.41
3:EN:13:LYS:HD3	3:EN:13:LYS:N	2.35	0.41
3:FB:96:PHE:CE2	3:LJ:88:ALA:HB1	2.55	0.41
3:FD:55:PRO:HB3	3:FD:60:LYS:HB3	2.03	0.41
3:FJ:23:PRO:HA	3:FJ:35:LEU:HD13	2.02	0.41
3:FK:104:GLU:O	3:FK:107:PHE:HB3	2.20	0.41
3:FM:40:ALA:HB2	3:GA:102:ASP:OD2	2.21	0.41
3:FN:99:TYR:CD1	3:FN:99:TYR:N	2.87	0.41
3:GA:55:PRO:HB3	3:GA:60:LYS:HB3	2.03	0.41
3:GC:3:LEU:H	3:GC:3:LEU:HD23	1.86	0.41
3:GD:13:LYS:HZ1	3:KF:103:GLU:C	2.22	0.41
3:GF:26:VAL:HG12	3:GF:27:ASN:O	2.20	0.41
3:GG:54:GLN:O	3:GG:59:ARG:NH1	2.49	0.41
3:GI:97:THR:N	3:GI:100:SER:HG	2.18	0.41
3:GK:115:LEU:HG	3:GK:121:LEU:HD11	2.03	0.41
3:HA:106:ALA:O	3:HA:110:THR:HG22	2.20	0.41
3:HC:98:GLN:HG2	3:HC:99:TYR:HD2	1.86	0.41
3:HD:24:ARG:HB2	3:HD:34:SER:OG	2.19	0.41
3:HD:63:LYS:HD3	3:HD:94:PHE:O	2.21	0.41
3:HE:4:GLU:N	3:HE:4:GLU:OE2	2.54	0.41
3:HE:41:VAL:N	3:HE:42:PRO:CD	2.83	0.41
3:HN:132:TYR:CE2	3:IE:25:GLY:HA2	2.55	0.41
3:IB:55:PRO:CB	3:IB:60:LYS:HD2	2.51	0.41
3:IC:11:ILE:HD12	3:JN:110:THR:HB	2.02	0.41
3:IC:27:ASN:ND2	3:IC:29:THR:HG1	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ID:87:GLN:HB3	3:ID:89:TYR:CE1	2.56	0.41
3:ID:107:PHE:C	3:ID:111:GLU:OE1	2.57	0.41
3:IF:35:LEU:HD11	3:NI:120:LEU:HD13	2.02	0.41
3:IG:105:ARG:NE	3:JJ:128:LEU:HD11	2.36	0.41
3:IH:22:ASN:HB2	3:IH:23:PRO:HD2	2.03	0.41
3:IH:48:VAL:HG13	3:IH:68:ILE:HD11	2.02	0.41
3:II:21:LEU:HD13	3:II:36:SER:C	2.41	0.41
3:JD:91:ASP:O	3:JH:92:VAL:HA	2.19	0.41
3:JI:8:LEU:N	3:JI:8:LEU:HD22	2.34	0.41
3:JJ:41:VAL:HG13	3:JJ:44:LEU:HD21	2.02	0.41
3:JM:11:ILE:HG13	3:JM:12:GLY:N	2.35	0.41
3:JM:23:PRO:HA	3:JM:35:LEU:HD13	2.01	0.41
3:JM:30:ASN:N	3:JM:30:ASN:OD1	2.51	0.41
3:JM:101:THR:C	3:JM:105:ARG:NH1	2.74	0.41
3:JN:106:ALA:HA	3:JN:109:ARG:HD3	2.03	0.41
3:KC:97:THR:N	3:KC:100:SER:OG	2.53	0.41
3:KE:125:ILE:O	3:KE:125:ILE:CG1	2.68	0.41
3:KF:69:GLN:CG	3:KF:87:GLN:NE2	2.84	0.41
3:LA:103:GLU:OE1	3:MD:13:LYS:HD2	2.20	0.41
3:LB:6:VAL:HG12	3:LB:8:LEU:CD2	2.51	0.41
3:LC:122:ILE:HG13	3:LC:123:ASP:N	2.36	0.41
3:LK:19:LEU:HD12	3:LK:19:LEU:C	2.40	0.41
3:LN:65:GLN:N	3:LN:65:GLN:OE1	2.54	0.41
3:LN:84:VAL:O	3:LN:84:VAL:HG13	2.20	0.41
3:MA:46:LYS:NZ	3:MA:70:ASN:OD1	2.26	0.41
3:MB:68:ILE:HG12	3:MB:90:ALA:HB3	2.03	0.41
3:MC:109:ARG:CZ	3:NJ:122:ILE:CD1	2.98	0.41
3:MC:126:ASP:O	3:NJ:105:ARG:NH2	2.51	0.41
3:MD:112:LEU:O	3:MD:116:LEU:HG	2.20	0.41
3:MF:22:ASN:CG	3:NH:129:ASN:ND2	2.73	0.41
3:NB:60:LYS:N	3:NB:61:ASN:HB3	2.31	0.41
3:NB:62:TYR:CD1	3:NF:128:LEU:CD2	3.03	0.41
3:NB:92:VAL:HG22	3:NF:92:VAL:HG22	2.02	0.41
3:NB:131:ALA:HB1	3:NF:3:LEU:HD22	2.01	0.41
3:ND:35:LEU:HB2	3:ND:48:VAL:CG2	2.50	0.41
3:NE:41:VAL:CG2	3:NE:44:LEU:HD11	2.51	0.41
3:NJ:42:PRO:O	3:NJ:45:GLU:HG2	2.20	0.41
1:A:133:U:O2	1:A:133:U:O4'	2.38	0.41
1:A:661:G:H2'	1:A:662:G:C8	2.56	0.41
1:A:678:A:N1	1:A:756:U:C4	2.88	0.41
1:A:822:C:C2	1:A:823:C:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:895:G:O5'	1:A:899:A:OP2	2.38	0.41
1:A:980:A:H2'	1:A:981:U:H6	1.85	0.41
1:A:1034:U:N1	3:IJ:57:ARG:HD3	2.35	0.41
1:A:1063:C:O2'	1:A:1064:A:H5'	2.20	0.41
1:A:1720:U:H2'	1:A:1721:U:H6	1.85	0.41
1:A:1833:A:H1'	1:A:1834:A:C4	2.56	0.41
1:A:2006:U:H2'	1:A:2007:U:C6	2.56	0.41
1:A:2063:U:O2'	1:A:2064:C:H5'	2.21	0.41
1:A:2196:G:H2'	1:A:2197:C:O4'	2.21	0.41
1:A:2223:G:O2'	1:A:2277:A:C8	2.74	0.41
1:A:2239:A:N6	1:A:2253:G:N1	2.69	0.41
1:A:2292:A:H2'	1:A:2293:A:C8	2.56	0.41
1:A:2348:A:C5	1:A:2349:U:C4	3.09	0.41
1:A:2537:C:N3	1:A:2574:A:N1	2.68	0.41
1:A:3094:G:O2'	1:A:3095:U:H5'	2.21	0.41
1:A:3095:U:C4	1:A:3096:A:N7	2.88	0.41
1:A:3106:A:C6	1:A:3107:U:C4	3.08	0.41
1:A:3111:C:P	1:A:3111:C:H6	2.44	0.41
1:A:3149:U:C4	1:A:3150:A:N7	2.89	0.41
1:A:3192:U:H2'	1:A:3193:C:O4'	2.20	0.41
1:A:3242:G:H2'	1:A:3242:G:N3	2.34	0.41
1:A:3249:A:H62	3:MH:89:TYR:CB	2.34	0.41
1:A:3277:U:H6	1:A:3277:U:O5'	2.02	0.41
1:A:3296:U:H2'	1:A:3297:A:C8	2.55	0.41
1:A:3344:C:N3	1:A:3345:G:C6	2.88	0.41
1:A:3432:A:C6	1:A:3440:A:C2	3.09	0.41
1:A:3527:G:C6	1:A:3564:G:C6	3.08	0.41
1:A:3533:A:C2	1:A:3559:C:N3	2.89	0.41
1:A:3572:U:H2'	1:A:3573:A:O4'	2.20	0.41
1:A:3583:A:H2'	1:A:3584:C:O5'	2.20	0.41
1:A:3634:A:H5"	3:ED:59:ARG:NH1	2.34	0.41
1:A:3676:G:N1	1:A:3766:U:O4	2.54	0.41
1:A:4057:G:H2'	1:A:4058:C:O4'	2.21	0.41
1:A:4060:G:O2'	1:A:4061:U:H5'	2.20	0.41
1:A:4062:G:C6	1:A:4063:U:C4	3.09	0.41
1:A:4205:C:C2	1:A:4206:U:C6	3.09	0.41
2:M:283:TYR:CG	2:M:284:ALA:N	2.88	0.41
3:BA:81:ASP:OD1	3:BA:81:ASP:C	2.58	0.41
3:BC:21:LEU:HB3	3:BC:35:LEU:HB3	2.03	0.41
3:BC:126:ASP:OD1	3:ND:102:ASP:HB2	2.19	0.41
3:BD:126:ASP:O	3:JB:102:ASP:OD1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:131:ALA:HB1	3:JB:3:LEU:HD22	2.02	0.41
3:BH:13:LYS:HZ1	3:IL:103:GLU:N	2.19	0.41
3:BJ:46:LYS:HZ2	3:BJ:71:PRO:HD2	1.86	0.41
3:BK:112:LEU:O	3:BK:116:LEU:CD1	2.68	0.41
3:BL:53:SER:OG	3:BL:63:LYS:HB3	2.20	0.41
3:CF:105:ARG:NE	3:GM:128:LEU:HD11	2.36	0.41
3:CI:3:LEU:HD11	3:DI:131:ALA:O	2.21	0.41
3:CL:61:ASN:ND2	3:CL:96:PHE:O	2.53	0.41
3:CM:1:ALA:N	3:NA:129:ASN:ND2	2.68	0.41
3:CM:24:ARG:NH2	3:HH:129:ASN:HA	2.34	0.41
3:DB:125:ILE:CD1	3:DK:94:PHE:CD1	3.04	0.41
3:DM:26:VAL:HG22	3:DM:33:ALA:CB	2.51	0.41
3:DM:111:GLU:OE2	3:EM:11:ILE:HG21	2.21	0.41
3:EA:98:GLN:OE1	3:EA:99:TYR:CE1	2.74	0.41
3:EB:109:ARG:NH2	3:MJ:125:ILE:HG13	2.35	0.41
3:EC:126:ASP:HB3	3:LK:102:ASP:OD1	2.21	0.41
3:EN:15:GLY:C	3:EN:16:LYS:HD2	2.41	0.41
3:EN:128:LEU:HD12	3:EN:128:LEU:N	2.36	0.41
3:FA:56:SER:O	3:FA:60:LYS:NZ	2.41	0.41
3:FB:11:ILE:HD12	3:LJ:107:PHE:CE1	2.55	0.41
3:FB:92:VAL:HG21	3:LJ:112:LEU:HD11	2.01	0.41
3:FC:62:TYR:HD1	3:FC:96:PHE:HD2	1.68	0.41
3:FE:115:LEU:C	3:FE:121:LEU:HD12	2.41	0.41
3:FH:62:TYR:CD1	3:FK:128:LEU:CD2	3.02	0.41
3:FI:94:PHE:CD1	3:KE:90:ALA:HB1	2.54	0.41
3:FL:37:GLN:HG3	3:FL:45:GLU:OE2	2.19	0.41
3:FN:73:ALA:O	3:FN:83:SER:O	2.38	0.41
3:GH:24:ARG:NE	3:GH:24:ARG:O	2.54	0.41
3:GH:28:PRO:HB3	3:JC:132:TYR:CE1	2.55	0.41
3:GJ:103:GLU:HG2	3:GJ:104:GLU:N	2.35	0.41
3:GL:1:ALA:HA	3:HG:123:ASP:OD2	2.21	0.41
3:GN:105:ARG:HD2	3:GN:106:ALA:N	2.35	0.41
3:HB:20:VAL:C	3:HB:21:LEU:HD22	2.40	0.41
3:HE:47:ARG:NH2	3:HE:69:GLN:OE1	2.54	0.41
3:HF:13:LYS:HD2	3:HF:13:LYS:H	1.85	0.41
3:HI:48:VAL:HG22	3:HI:68:ILE:HD12	2.01	0.41
3:HI:106:ALA:HB3	3:II:13:LYS:CD	2.50	0.41
3:HM:11:ILE:CG2	3:HM:17:GLN:HB2	2.51	0.41
3:HM:24:ARG:HA	3:HM:24:ARG:NE	2.35	0.41
3:HM:85:THR:O	3:HM:85:THR:CG2	2.68	0.41
3:IC:65:GLN:HG2	3:IC:93:THR:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IC:110:THR:OG1	3:JN:11:ILE:CD1	2.68	0.41
3:IE:11:ILE:CG2	3:IE:17:GLN:HB2	2.51	0.41
3:IJ:98:GLN:CD	3:IK:43:ALA:HB2	2.40	0.41
3:IL:103:GLU:HG2	3:IL:104:GLU:N	2.36	0.41
3:IM:44:LEU:O	3:IM:44:LEU:HG	2.20	0.41
3:JC:125:ILE:CG2	3:JC:126:ASP:N	2.82	0.41
3:JD:30:ASN:OD1	3:JD:32:VAL:HG23	2.21	0.41
3:JE:95:SER:C	3:JE:96:PHE:CD1	2.93	0.41
3:JF:81:ASP:O	3:JF:83:SER:N	2.53	0.41
3:JG:120:LEU:HD21	3:LD:50:VAL:HG21	2.02	0.41
3:JH:65:GLN:NE2	3:JH:67:LYS:HE2	2.35	0.41
3:JI:129:ASN:OD1	3:KN:24:ARG:HA	2.21	0.41
3:JK:55:PRO:CD	3:JK:62:TYR:HE1	2.33	0.41
3:KE:46:LYS:HD3	3:KE:70:ASN:OD1	2.21	0.41
3:KE:98:GLN:NE2	3:KF:43:ALA:HA	2.36	0.41
3:KK:63:LYS:HD2	3:KK:63:LYS:N	2.36	0.41
3:KK:100:SER:HA	3:MH:86:ARG:NH1	2.36	0.41
3:KK:126:ASP:OD1	3:MH:106:ALA:HB2	2.19	0.41
3:KL:26:VAL:HG23	3:MH:132:TYR:CE2	2.55	0.41
3:KM:128:LEU:CD2	3:MF:105:ARG:NH1	2.84	0.41
3:LA:3:LEU:CD2	3:MD:131:ALA:HB1	2.51	0.41
3:LC:60:LYS:HB3	3:LC:61:ASN:CB	2.51	0.41
3:LE:4:GLU:O	3:LE:6:VAL:HG23	2.21	0.41
3:LG:26:VAL:O	3:LG:26:VAL:CG1	2.68	0.41
3:MC:87:GLN:N	3:MC:87:GLN:OE1	2.54	0.41
3:ME:76:ALA:HA	3:NI:79:SER:HA	2.03	0.41
3:ME:87:GLN:HB2	3:ME:89:TYR:HE1	1.85	0.41
3:ME:114:ALA:HB3	3:NH:8:LEU:HD23	2.03	0.41
3:MK:97:THR:N	3:MK:100:SER:HG	2.18	0.41
3:MM:59:ARG:C	3:MM:60:LYS:HD2	2.40	0.41
3:MM:97:THR:O	3:MM:100:SER:OG	2.36	0.41
3:NB:96:PHE:CE1	3:NB:105:ARG:HG2	2.56	0.41
3:NB:111:GLU:CA	3:NF:11:ILE:HD11	2.49	0.41
1:A:220:C:H2'	1:A:221:U:C6	2.56	0.41
1:A:253:A:H3'	1:A:254:C:H5"	2.03	0.41
1:A:301:G:H2'	1:A:302:U:O4'	2.21	0.41
1:A:461:C:N3	1:A:462:U:C4	2.89	0.41
1:A:490:A:C2	1:A:491:A:C5	3.09	0.41
1:A:609:U:C2	1:A:610:C:C6	3.08	0.41
1:A:720:U:C4	1:A:721:G:N7	2.89	0.41
1:A:723:C:H2'	1:A:724:A:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:753:G:C6	1:A:754:A:C5	3.09	0.41
1:A:967:A:C2	1:A:969:U:O4	2.73	0.41
1:A:975:C:H42	1:A:976:A:H62	1.69	0.41
1:A:1492:C:C5'	3:BJ:63:LYS:HZ1	2.33	0.41
1:A:1836:U:C5	3:GK:89:TYR:CD1	3.09	0.41
1:A:1853:A:C2	1:A:2196:G:C2	3.09	0.41
1:A:1914:A:OP2	3:GI:30:ASN:OD1	2.39	0.41
1:A:1931:G:C2	1:A:1989:U:C2	3.08	0.41
1:A:1939:A:N3	1:A:1940:A:N7	2.68	0.41
1:A:2226:G:C6	1:A:2264:G:C2	3.09	0.41
1:A:2328:G:C2	1:A:2329:C:C6	3.09	0.41
1:A:2348:A:H2'	1:A:2349:U:O4'	2.21	0.41
1:A:2627:C:HO2'	1:A:2628:U:C1'	2.33	0.41
1:A:2774:U:N3	1:A:2775:G:N7	2.69	0.41
1:A:2798:G:H2'	1:A:2799:C:C6	2.55	0.41
1:A:2835:A:N6	1:A:2850:G:OP2	2.54	0.41
1:A:2920:U:C2	1:A:2923:G:C2	3.08	0.41
1:A:2948:A:H2'	1:A:2949:A:C1'	2.50	0.41
1:A:3110:U:H2'	1:A:3111:C:C1'	2.50	0.41
1:A:3587:A:C6	1:A:3665:A:N1	2.89	0.41
1:A:3809:G:H5'	3:KH:59:ARG:N	2.35	0.41
1:A:3841:A:N1	1:A:3847:G:O6	2.53	0.41
1:A:3923:G:H1	1:A:4162:U:HO2'	1.69	0.41
1:A:4020:A:C2'	1:A:4021:C:O4'	2.68	0.41
1:A:4020:A:O2'	1:A:4021:C:O4'	2.37	0.41
1:A:4155:A:N6	1:A:4156:A:N1	2.68	0.41
2:M:338:TYR:CD1	2:M:403:PHE:HB2	2.51	0.41
3:B:129:ASN:HB3	3:B:132:TYR:OH	2.20	0.41
3:BA:8:LEU:O	3:BA:18:THR:HG23	2.21	0.41
3:BF:14:ASP:OD2	3:BF:16:LYS:HB2	2.21	0.41
3:BF:116:LEU:HD12	3:BF:116:LEU:O	2.20	0.41
3:BI:21:LEU:HD13	3:BI:36:SER:C	2.41	0.41
3:CB:101:THR:OG1	3:CB:103:GLU:HB3	2.21	0.41
3:CB:105:ARG:CD	3:HC:128:LEU:HD11	2.50	0.41
3:CC:77:ASN:O	3:HC:77:ASN:OD1	2.38	0.41
3:CE:4:GLU:OE1	3:CE:5:THR:O	2.38	0.41
3:CF:98:GLN:NE2	3:CG:43:ALA:HA	2.36	0.41
3:CH:4:GLU:OE1	3:CH:4:GLU:N	2.53	0.41
3:CH:81:ASP:OD1	3:CJ:99:TYR:CG	2.74	0.41
3:CH:122:ILE:HG13	3:CH:123:ASP:N	2.35	0.41
3:CJ:26:VAL:HG11	3:HJ:132:TYR:HD1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:132:TYR:CZ	3:HI:28:PRO:HB3	2.56	0.41
3:CL:109:ARG:CZ	3:HH:122:ILE:HB	2.50	0.41
3:CM:111:GLU:OE2	3:NA:68:ILE:HG23	2.21	0.41
3:CN:98:GLN:NE2	3:DA:43:ALA:HB2	2.35	0.41
3:DC:55:PRO:HD3	3:DC:62:TYR:CD2	2.55	0.41
3:DC:114:ALA:HA	3:DC:117:ALA:HB3	2.02	0.41
3:DE:129:ASN:OD1	3:EJ:24:ARG:C	2.59	0.41
3:DG:112:LEU:HD23	3:EJ:116:LEU:HD21	2.02	0.41
3:DL:54:GLN:HB3	3:DL:55:PRO:CD	2.51	0.41
3:DL:109:ARG:HD2	3:MN:116:LEU:HD21	2.03	0.41
3:ED:85:THR:HG21	3:EI:81:ASP:OD1	2.21	0.41
3:EE:11:ILE:CG2	3:LI:110:THR:OG1	2.60	0.41
3:EE:28:PRO:HB3	3:FA:132:TYR:CE1	2.55	0.41
3:EG:11:ILE:CD1	3:GC:111:GLU:N	2.84	0.41
3:EH:119:PRO:O	3:EH:122:ILE:HB	2.21	0.41
3:EI:87:GLN:OE1	3:EI:89:TYR:OH	2.08	0.41
3:EK:6:VAL:HG22	3:FM:120:LEU:HD11	2.03	0.41
3:FC:105:ARG:NH2	3:FD:40:ALA:O	2.41	0.41
3:FE:92:VAL:HG13	3:KI:92:VAL:HG22	2.02	0.41
3:FJ:13:LYS:HZ2	3:HF:103:GLU:HA	1.84	0.41
3:FJ:127:GLN:N	3:FJ:127:GLN:OE1	2.54	0.41
3:FK:127:GLN:HG3	3:FK:129:ASN:OD1	2.21	0.41
3:FL:22:ASN:O	3:FL:35:LEU:HA	2.21	0.41
3:FM:41:VAL:N	3:FM:42:PRO:CD	2.83	0.41
3:GA:32:VAL:HG12	3:GA:51:SER:CB	2.50	0.41
3:GB:37:GLN:OE1	3:GB:42:PRO:HB3	2.21	0.41
3:GB:60:LYS:CA	3:GB:61:ASN:HB3	2.51	0.41
3:GC:96:PHE:CE2	3:GC:105:ARG:NH1	2.89	0.41
3:GE:19:LEU:HD21	3:GE:21:LEU:HD21	2.03	0.41
3:GE:19:LEU:CD2	3:HE:111:GLU:OE1	2.68	0.41
3:GI:74:CYS:O	3:GI:74:CYS:SG	2.77	0.41
3:HB:55:PRO:HA	3:HB:59:ARG:HB2	2.02	0.41
3:HI:109:ARG:CZ	3:II:122:ILE:HG22	2.51	0.41
3:HK:37:GLN:HB2	3:HK:46:LYS:HE2	2.03	0.41
3:HK:85:THR:HG22	3:HK:85:THR:O	2.21	0.41
3:HM:97:THR:N	3:HM:100:SER:HG	2.18	0.41
3:HN:6:VAL:CG1	3:HN:8:LEU:HD21	2.50	0.41
3:HN:124:ALA:O	3:HN:128:LEU:HA	2.20	0.41
3:IE:122:ILE:HG12	3:JL:109:ARG:CZ	2.51	0.41
3:IG:91:ASP:OD1	3:IG:91:ASP:N	2.53	0.41
3:IH:13:LYS:HE3	3:NG:103:GLU:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IL:107:PHE:O	3:IL:111:GLU:CD	2.59	0.41
3:IM:4:GLU:OE1	3:IM:5:THR:O	2.38	0.41
3:JC:121:LEU:O	3:JC:125:ILE:HG22	2.20	0.41
3:JG:111:GLU:N	3:LD:11:ILE:CD1	2.83	0.41
3:JJ:20:VAL:HG23	3:JJ:20:VAL:O	2.20	0.41
3:JM:4:GLU:N	3:JM:4:GLU:OE1	2.53	0.41
3:KH:55:PRO:CD	3:KH:62:TYR:CE1	3.03	0.41
3:KJ:13:LYS:N	3:KJ:13:LYS:CD	2.83	0.41
3:KK:44:LEU:HD12	3:KK:44:LEU:O	2.20	0.41
3:KK:99:TYR:HB2	3:MH:86:ARG:HE	1.85	0.41
3:KL:51:SER:OG	3:KL:65:GLN:HB3	2.21	0.41
3:KM:89:TYR:CD1	3:KM:89:TYR:N	2.89	0.41
3:KN:52:VAL:CG1	3:KN:64:VAL:HG22	2.47	0.41
3:KN:119:PRO:O	3:KN:122:ILE:HG12	2.20	0.41
3:LB:84:VAL:HG13	3:LB:84:VAL:O	2.21	0.41
3:LC:54:GLN:HB3	3:LC:55:PRO:CD	2.50	0.41
3:LD:75:THR:HG22	3:LD:82:PRO:HG3	2.03	0.41
3:LD:105:ARG:O	3:LD:108:VAL:HG12	2.21	0.41
3:LF:26:VAL:HG22	3:LF:33:ALA:CB	2.50	0.41
3:LF:55:PRO:HB3	3:LF:60:LYS:O	2.21	0.41
3:LM:14:ASP:HB2	3:LM:16:LYS:NZ	2.35	0.41
3:LN:103:GLU:HA	3:MI:13:LYS:NZ	2.36	0.41
3:LN:121:LEU:HB2	3:MI:109:ARG:NH2	2.35	0.41
3:MA:26:VAL:HB	3:NJ:132:TYR:CD2	2.55	0.41
3:MA:52:VAL:HG12	3:MA:64:VAL:HG22	2.03	0.41
3:ME:30:ASN:OD1	3:ME:32:VAL:HG23	2.21	0.41
3:MJ:119:PRO:HA	3:MJ:122:ILE:HD11	2.02	0.41
3:MK:42:PRO:HA	3:MK:45:GLU:OE1	2.20	0.41
3:MK:99:TYR:CD1	3:MK:99:TYR:N	2.87	0.41
3:ML:55:PRO:HB2	3:ML:60:LYS:CD	2.50	0.41
3:MM:4:GLU:OE2	3:MM:4:GLU:HA	2.21	0.41
3:MM:27:ASN:CG	3:MM:29:THR:HG1	2.18	0.41
3:NB:122:ILE:HD13	3:NF:109:ARG:HE	1.84	0.41
3:NF:10:ASN:N	3:NF:10:ASN:OD1	2.54	0.41
3:NG:112:LEU:O	3:NG:116:LEU:HG	2.20	0.41
3:NH:125:ILE:HG23	3:NH:126:ASP:N	2.35	0.41
1:A:71:U:H2'	1:A:72:A:H8	1.86	0.41
1:A:159:C:C4	1:A:160:G:N7	2.89	0.41
1:A:163:A:H2'	1:A:164:C:C6	2.55	0.41
1:A:300:G:H2'	1:A:301:G:C8	2.55	0.41
1:A:682:C:C4	1:A:683:G:N7	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:945:G:C2	1:A:946:U:C4	3.09	0.41
1:A:1014:C:C1'	1:A:3197:A:H1'	2.51	0.41
1:A:1034:U:C2	3:IJ:57:ARG:NE	2.89	0.41
1:A:1317:G:C2	1:A:1318:C:C2	3.08	0.41
1:A:1375:A:C5	1:A:1376:C:C5	3.09	0.41
1:A:1426:A:H2	1:A:2601:C:O2	2.03	0.41
1:A:1795:U:O2	1:A:1795:U:H3'	2.20	0.41
1:A:1891:A:H2'	1:A:1892:G:O4'	2.20	0.41
1:A:1969:G:C2	1:A:1970:C:C2	3.08	0.41
1:A:2000:G:H2'	1:A:2001:C:C6	2.56	0.41
1:A:2086:G:H4'	1:A:4004:G:C6	2.56	0.41
1:A:2262:C:H2'	1:A:2263:C:C6	2.56	0.41
1:A:2411:C:H2'	1:A:2412:A:C4	2.55	0.41
1:A:2765:A:O2'	1:A:2766:A:C5'	2.68	0.41
1:A:2775:G:C2	1:A:2776:U:C2	3.09	0.41
1:A:2787:G:C2'	1:A:2788:A:OP1	2.68	0.41
1:A:2895:C:H2'	1:A:2896:G:O4'	2.21	0.41
1:A:3004:C:C4	1:A:3005:A:C5	3.09	0.41
1:A:3175:U:O4	1:A:3215:G:C2	2.73	0.41
1:A:3488:U:C4	1:A:3489:U:C4	3.09	0.41
1:A:3758:U:H3'	3:FD:60:LYS:HE3	2.03	0.41
1:A:3798:A:C6	1:A:3800:A:P	3.14	0.41
1:A:3834:A:C2	1:A:3836:G:O6	2.73	0.41
1:A:3895:C:H2'	1:A:3896:G:O4'	2.21	0.41
1:A:3969:G:C6	1:A:4026:A:N6	2.88	0.41
1:A:4050:U:C2	1:A:4051:G:N7	2.88	0.41
1:A:4109:A:C6	1:A:4111:A:OP1	2.74	0.41
3:D:47:ARG:HH21	3:D:69:GLN:HG3	1.86	0.41
3:BC:60:LYS:O	3:BC:61:ASN:C	2.59	0.41
3:BD:102:ASP:HA	3:BD:105:ARG:NH2	2.36	0.41
3:BD:104:GLU:HA	3:BD:104:GLU:OE2	2.20	0.41
3:BH:32:VAL:HG22	3:BH:51:SER:HB3	2.02	0.41
3:BM:87:GLN:NE2	3:BM:89:TYR:CD1	2.89	0.41
3:BN:8:LEU:HA	3:BN:8:LEU:HD12	1.76	0.41
3:BN:37:GLN:OE1	3:BN:45:GLU:OE2	2.39	0.41
3:CA:112:LEU:HD11	3:DH:92:VAL:HG21	2.03	0.41
3:CC:125:ILE:HD13	3:DF:64:VAL:HG11	2.01	0.41
3:CD:115:LEU:HD22	3:HA:8:LEU:HD21	1.99	0.41
3:CF:19:LEU:HD21	3:GM:107:PHE:CE1	2.56	0.41
3:CI:57:ARG:NH2	3:CI:60:LYS:NZ	2.68	0.41
3:CK:24:ARG:HH21	3:NA:129:ASN:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CK:115:LEU:HB3	3:CK:121:LEU:HD12	2.02	0.41
3:CK:125:ILE:HD13	3:NC:94:PHE:CD2	2.48	0.41
3:CK:128:LEU:HD12	3:CK:128:LEU:N	2.36	0.41
3:CM:103:GLU:HA	3:NA:13:LYS:HE2	2.02	0.41
3:CN:123:ASP:OD1	3:CN:129:ASN:HB2	2.21	0.41
3:CN:128:LEU:HD21	3:DD:62:TYR:HB3	2.01	0.41
3:DA:105:ARG:NH2	3:MM:126:ASP:O	2.50	0.41
3:DA:109:ARG:HH12	3:MM:122:ILE:CB	2.33	0.41
3:DB:132:TYR:OXT	3:DK:2:LYS:CE	2.68	0.41
3:DE:60:LYS:CB	3:DE:98:GLN:CG	2.99	0.41
3:DG:11:ILE:HD12	3:EJ:110:THR:OG1	2.21	0.41
3:DG:54:GLN:HB2	3:DG:55:PRO:HD2	2.02	0.41
3:DL:61:ASN:HA	3:DL:96:PHE:O	2.20	0.41
3:DN:121:LEU:O	3:DN:125:ILE:HG12	2.20	0.41
3:DN:125:ILE:CD1	3:ML:64:VAL:HG11	2.51	0.41
3:EC:32:VAL:HG23	3:EC:51:SER:HB2	2.02	0.41
3:ED:13:LYS:HZ1	3:EH:103:GLU:N	2.19	0.41
3:EE:26:VAL:HB	3:EH:132:TYR:CZ	2.55	0.41
3:EG:27:ASN:ND2	3:EG:29:THR:OG1	2.51	0.41
3:EM:96:PHE:HB3	3:EM:100:SER:OG	2.21	0.41
3:FB:11:ILE:HD12	3:LJ:107:PHE:HE1	1.85	0.41
3:FB:70:ASN:OD1	3:LJ:108:VAL:HG22	2.20	0.41
3:FG:22:ASN:N	3:FG:36:SER:O	2.43	0.41
3:FH:128:LEU:CD2	3:FK:105:ARG:CZ	2.99	0.41
3:FI:11:ILE:CG2	3:FI:17:GLN:HB2	2.48	0.41
3:FJ:56:SER:HB3	3:FJ:58:ASN:OD1	2.21	0.41
3:FJ:128:LEU:O	3:HG:24:ARG:NH1	2.54	0.41
3:FN:86:ARG:NH1	3:HB:99:TYR:C	2.73	0.41
3:GE:1:ALA:HB3	3:HE:131:ALA:HA	2.03	0.41
3:GE:109:ARG:NH2	3:HE:122:ILE:HA	2.34	0.41
3:GF:11:ILE:CD1	3:KD:111:GLU:N	2.84	0.41
3:GG:92:VAL:HG22	3:JE:92:VAL:HG13	2.01	0.41
3:GH:103:GLU:OE1	3:KB:13:LYS:HD2	2.20	0.41
3:GJ:52:VAL:HG23	3:GJ:54:GLN:HE22	1.86	0.41
3:GL:43:ALA:C	3:GL:44:LEU:HD22	2.41	0.41
3:GL:93:THR:HB	3:HG:91:ASP:OD1	2.20	0.41
3:HD:56:SER:N	3:HD:60:LYS:HA	2.36	0.41
3:HI:1:ALA:O	3:II:131:ALA:HA	2.21	0.41
3:HI:8:LEU:HD23	3:HI:19:LEU:CB	2.44	0.41
3:HJ:84:VAL:HG13	3:HJ:84:VAL:O	2.21	0.41
3:HK:97:THR:N	3:HK:100:SER:OG	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IC:84:VAL:HG22	3:IC:87:GLN:NE2	2.36	0.41
3:IE:86:ARG:CZ	3:JL:99:TYR:O	2.69	0.41
3:IF:112:LEU:HD11	3:NI:92:VAL:CG2	2.42	0.41
3:IF:116:LEU:HD23	3:IF:121:LEU:HD13	2.03	0.41
3:IM:116:LEU:O	3:JM:109:ARG:NH1	2.48	0.41
3:JB:99:TYR:HD1	3:JC:81:ASP:OD1	2.04	0.41
3:JD:102:ASP:OD1	3:JD:102:ASP:C	2.57	0.41
3:JE:28:PRO:HB3	3:KA:132:TYR:CE1	2.55	0.41
3:JE:96:PHE:CD2	3:JE:105:ARG:CD	3.01	0.41
3:JF:19:LEU:HD23	3:KA:111:GLU:OE1	2.21	0.41
3:JF:125:ILE:CG2	3:JF:126:ASP:N	2.84	0.41
3:JG:129:ASN:ND2	3:LE:22:ASN:HD21	2.19	0.41
3:JJ:41:VAL:N	3:JJ:42:PRO:CD	2.83	0.41
3:JK:11:ILE:HD12	3:KN:110:THR:OG1	2.20	0.41
3:JN:48:VAL:HG22	3:JN:68:ILE:HG12	2.03	0.41
3:KA:48:VAL:O	3:KA:48:VAL:HG13	2.20	0.41
3:KB:41:VAL:N	3:KB:42:PRO:CD	2.82	0.41
3:KE:99:TYR:HH	3:KF:84:VAL:H	1.64	0.41
3:KH:59:ARG:O	3:KH:60:LYS:CG	2.68	0.41
3:KH:82:PRO:O	3:KJ:99:TYR:OH	2.33	0.41
3:KK:108:VAL:O	3:KK:111:GLU:HG3	2.20	0.41
3:KM:96:PHE:CE2	3:MF:125:ILE:HD11	2.55	0.41
3:LA:87:GLN:O	3:LA:87:GLN:HG2	2.19	0.41
3:LF:119:PRO:O	3:LF:122:ILE:HG12	2.20	0.41
3:LG:46:LYS:HD3	3:LG:70:ASN:CG	2.41	0.41
3:LG:53:SER:CB	3:LG:63:LYS:NZ	2.84	0.41
3:LG:54:GLN:HB3	3:LG:55:PRO:CD	2.50	0.41
3:LG:110:THR:OG1	3:MG:11:ILE:HD12	2.21	0.41
3:LI:81:ASP:OD2	3:LK:99:TYR:CE1	2.74	0.41
3:LK:32:VAL:HG21	3:LK:49:THR:CG2	2.49	0.41
3:LK:71:PRO:O	3:LK:72:THR:OG1	2.30	0.41
3:MA:114:ALA:O	3:MA:117:ALA:HB3	2.21	0.41
3:MD:49:THR:OG1	3:MD:67:LYS:HB2	2.21	0.41
3:MF:52:VAL:HG12	3:MF:64:VAL:CG1	2.47	0.41
3:MK:21:LEU:HB3	3:MK:35:LEU:HB3	2.02	0.41
3:MM:61:ASN:HA	3:MM:96:PHE:O	2.20	0.41
3:MM:69:GLN:OE1	3:MM:89:TYR:HB2	2.21	0.41
3:MN:84:VAL:HG13	3:MN:87:GLN:OE1	2.20	0.41
3:MN:98:GLN:HG3	3:NA:43:ALA:HB2	2.01	0.41
3:NB:94:PHE:HB3	3:NB:96:PHE:CE2	2.55	0.41
3:NB:109:ARG:CZ	3:NF:122:ILE:HA	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NE:125:ILE:CG2	3:NE:126:ASP:N	2.82	0.41
3:NH:97:THR:N	3:NH:100:SER:OG	2.54	0.41
1:A:90:C:N4	1:A:91:G:O6	2.53	0.41
1:A:222:A:O2'	1:A:223:C:H5'	2.21	0.41
1:A:293:U:H3'	1:A:294:U:C6	2.56	0.41
1:A:331:C:C5'	3:NA:59:ARG:HH22	2.32	0.41
1:A:345:G:C6	1:A:346:A:N6	2.88	0.41
1:A:796:U:O4	1:A:797:A:N6	2.54	0.41
1:A:934:C:C4'	3:BI:61:ASN:ND2	2.84	0.41
1:A:1004:U:O4	1:A:1101:C:H4'	2.21	0.41
1:A:1092:U:C5	1:A:1093:G:C8	3.08	0.41
1:A:1500:G:C8	3:BM:57:ARG:NH2	2.85	0.41
1:A:1777:C:N4	3:BD:89:TYR:CZ	2.81	0.41
1:A:1787:U:H4'	1:A:1807:C:OP1	2.21	0.41
1:A:1869:G:N1	1:A:1885:C:O2	2.53	0.41
1:A:2101:A:H2'	1:A:2102:U:C6	2.56	0.41
1:A:2176:A:H2'	1:A:2177:U:C6	2.55	0.41
1:A:2225:U:C2	1:A:2226:G:N7	2.89	0.41
1:A:2304:C:OP2	1:A:2304:C:H3'	2.21	0.41
1:A:2354:G:C6	1:A:2355:U:C5	3.09	0.41
1:A:2529:G:C2	1:A:2530:A:C8	3.09	0.41
1:A:2543:U:N3	1:A:2566:A:OP1	2.53	0.41
1:A:2602:U:C4	1:A:2616:G:C2	3.09	0.41
1:A:2904:A:H2'	1:A:2905:A:C8	2.56	0.41
1:A:2914:U:H2'	1:A:2915:A:C1'	2.51	0.41
1:A:2921:C:O3'	1:A:2922:A:C4'	2.69	0.41
1:A:2921:C:O5'	1:A:2922:A:OP2	2.38	0.41
1:A:2931:A:H2'	1:A:2932:C:C6	2.56	0.41
1:A:3295:U:H2'	1:A:3296:U:C6	2.56	0.41
1:A:3303:G:O2'	1:A:3304:A:C5'	2.69	0.41
1:A:3540:U:C6	3:GD:57:ARG:NH1	2.89	0.41
1:A:3591:C:C2	1:A:3661:G:N1	2.89	0.41
1:A:3596:U:O4	1:A:3597:A:N6	2.54	0.41
1:A:3670:A:H2'	1:A:3671:U:O5'	2.21	0.41
1:A:3706:A:C2	1:A:3733:A:N6	2.88	0.41
1:A:3759:G:C4	1:A:3760:G:H1'	2.55	0.41
1:A:3765:C:H2'	1:A:3766:U:C6	2.56	0.41
1:A:3771:G:C2'	1:A:3772:G:O5'	2.68	0.41
1:A:3825:C:H3'	3:FE:59:ARG:NH2	2.35	0.41
1:A:3835:C:P	3:LF:58:ASN:HD21	2.44	0.41
3:BB:11:ILE:CD1	3:MA:110:THR:OG1	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BB:62:TYR:CD2	3:MA:128:LEU:CD2	3.03	0.41
3:BB:85:THR:HG22	3:BB:85:THR:O	2.21	0.41
3:BC:118:SER:O	3:BC:122:ILE:HG13	2.21	0.41
3:BE:13:LYS:HZ1	3:CE:102:ASP:CG	2.22	0.41
3:CF:86:ARG:NH2	3:GM:100:SER:HA	2.35	0.41
3:CH:1:ALA:HB1	3:HL:131:ALA:HA	2.03	0.41
3:CI:97:THR:O	3:CI:100:SER:OG	2.32	0.41
3:CM:4:GLU:O	3:CM:6:VAL:HG23	2.21	0.41
3:CM:44:LEU:HD22	3:CM:44:LEU:N	2.35	0.41
3:DE:99:TYR:O	3:EL:86:ARG:NH1	2.53	0.41
3:DE:122:ILE:HG23	3:DE:126:ASP:OD2	2.21	0.41
3:DH:8:LEU:HD22	3:DH:8:LEU:N	2.36	0.41
3:DJ:102:ASP:N	3:DJ:105:ARG:NH2	2.69	0.41
3:DN:90:ALA:HA	3:ML:93:THR:O	2.21	0.41
3:EB:62:TYR:CG	3:MJ:128:LEU:CD2	3.04	0.41
3:EC:26:VAL:HG11	3:LK:132:TYR:HD1	1.85	0.41
3:ED:44:LEU:CD2	3:EF:98:GLN:O	2.68	0.41
3:EE:75:THR:HG23	3:EE:82:PRO:HG3	2.02	0.41
3:EG:107:PHE:HD1	3:GC:12:GLY:HA2	1.85	0.41
3:FA:87:GLN:HB3	3:FA:89:TYR:CE2	2.55	0.41
3:FA:101:THR:HG23	3:FA:104:GLU:H	1.85	0.41
3:FC:105:ARG:CZ	3:GB:128:LEU:HD11	2.50	0.41
3:FF:112:LEU:HD23	3:LF:116:LEU:CD1	2.51	0.41
3:FH:97:THR:HG21	3:FK:86:ARG:CG	2.48	0.41
3:FH:115:LEU:HD23	3:FK:8:LEU:HD11	2.00	0.41
3:FK:101:THR:OG1	3:FK:104:GLU:CD	2.59	0.41
3:FL:86:ARG:NH2	3:HD:100:SER:CA	2.84	0.41
3:GD:128:LEU:HD12	3:GD:128:LEU:N	2.36	0.41
3:GF:55:PRO:HB3	3:GF:60:LYS:HB3	2.03	0.41
3:GG:26:VAL:HG12	3:GG:33:ALA:CA	2.42	0.41
3:GJ:57:ARG:H	3:GJ:57:ARG:CD	2.34	0.41
3:GM:84:VAL:O	3:GM:84:VAL:HG13	2.21	0.41
3:HK:53:SER:OG	3:HK:63:LYS:HB3	2.21	0.41
3:HL:102:ASP:OD1	3:HL:103:GLU:N	2.54	0.41
3:ID:62:TYR:HE2	3:IE:42:PRO:CB	2.33	0.41
3:IF:60:LYS:CB	3:IF:61:ASN:HB3	2.50	0.41
3:IN:4:GLU:CD	3:IN:5:THR:N	2.74	0.41
3:JC:104:GLU:O	3:JC:107:PHE:HB3	2.21	0.41
3:JC:123:ASP:OD1	3:JC:123:ASP:N	2.53	0.41
3:JD:3:LEU:CD1	3:JH:132:TYR:HA	2.49	0.41
3:JD:111:GLU:N	3:JH:11:ILE:CD1	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JI:23:PRO:C	3:JI:24:ARG:HD2	2.41	0.41
3:JN:104:GLU:O	3:JN:108:VAL:HG23	2.20	0.41
3:KA:55:PRO:HB3	3:KA:60:LYS:HG3	2.01	0.41
3:KC:132:TYR:CZ	3:LD:26:VAL:HB	2.55	0.41
3:KE:61:ASN:HA	3:KE:96:PHE:O	2.20	0.41
3:KH:86:ARG:HH22	3:KL:101:THR:HG23	1.86	0.41
3:KJ:6:VAL:HG23	3:KJ:35:LEU:CD2	2.51	0.41
3:KJ:21:LEU:HD22	3:KJ:21:LEU:N	2.36	0.41
3:KJ:52:VAL:O	3:KJ:52:VAL:CG2	2.69	0.41
3:KJ:86:ARG:HG3	3:LE:97:THR:HG21	2.03	0.41
3:KK:26:VAL:HG21	3:MF:132:TYR:CD2	2.55	0.41
3:KM:55:PRO:HG3	3:KM:62:TYR:CZ	2.56	0.41
3:LC:55:PRO:HD3	3:LC:62:TYR:HE1	1.86	0.41
3:LD:106:ALA:O	3:LD:109:ARG:HG2	2.21	0.41
3:LG:126:ASP:HB2	3:MG:109:ARG:NH2	2.36	0.41
3:LI:128:LEU:N	3:LI:128:LEU:HD12	2.35	0.41
3:LJ:116:LEU:HD23	3:LJ:116:LEU:O	2.20	0.41
3:MI:37:GLN:O	3:MI:45:GLU:HG2	2.21	0.41
3:MJ:44:LEU:HD13	3:ML:98:GLN:NE2	2.35	0.41
3:MN:102:ASP:N	3:MN:105:ARG:NH2	2.69	0.41
3:NB:119:PRO:C	3:NB:122:ILE:HG22	2.41	0.41
3:NC:11:ILE:CG2	3:NC:17:GLN:HB2	2.51	0.41
3:NC:120:LEU:O	3:NC:123:ASP:OD1	2.38	0.41
3:NE:44:LEU:HD12	3:NE:44:LEU:O	2.20	0.41
3:NE:49:THR:OG1	3:NE:67:LYS:NZ	2.43	0.41
3:NF:8:LEU:HB2	3:NF:19:LEU:HB3	2.03	0.41
3:NG:54:GLN:HB3	3:NG:55:PRO:HD3	2.02	0.41
3:NI:101:THR:OG1	3:NI:104:GLU:HB2	2.21	0.41
3:NJ:84:VAL:HG12	3:NJ:87:GLN:HE21	1.84	0.41
1:A:98:A:C2'	1:A:99:U:OP1	2.69	0.41
1:A:191:G:C3'	3:NB:57:ARG:HH21	2.34	0.41
1:A:237:U:H3'	1:A:238:C:O4'	2.21	0.41
1:A:249:G:C4	1:A:250:C:C6	3.09	0.41
1:A:272:U:O3'	1:A:273:U:O4'	2.39	0.41
1:A:276:G:H2'	1:A:277:A:C8	2.56	0.41
1:A:531:U:N3	1:A:539:A:N1	2.69	0.41
1:A:671:G:H2'	1:A:672:G:O4'	2.21	0.41
1:A:693:U:C4	1:A:694:A:N6	2.89	0.41
1:A:724:A:H2'	1:A:725:U:O4'	2.20	0.41
1:A:892:U:H2'	1:A:893:A:O4'	2.21	0.41
1:A:967:A:O2'	1:A:968:C:P	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1001:A:C6	1:A:1009:C:N3	2.89	0.41
1:A:1076:A:H61	1:A:1205:A:N6	2.19	0.41
1:A:1092:U:H4'	3:IG:89:TYR:HD2	1.86	0.41
1:A:1149:A:H2'	1:A:1150:C:C1'	2.51	0.41
1:A:1228:C:C2	1:A:1229:U:C6	3.09	0.41
1:A:1232:C:N4	3:BI:54:GLN:OE1	2.54	0.41
1:A:1263:U:O5'	1:A:1264:A:OP2	2.39	0.41
1:A:1295:U:C5	3:BK:57:ARG:CZ	3.03	0.41
1:A:1314:A:H5'	3:CF:89:TYR:OH	2.21	0.41
1:A:1328:U:C4	1:A:1329:U:C4	3.09	0.41
1:A:1384:A:N6	1:A:1555:A:H2	2.18	0.41
1:A:1423:U:O2'	1:A:2603:A:N1	2.53	0.41
1:A:1497:U:H3	3:BN:65:GLN:HB2	1.86	0.41
1:A:1508:G:H2'	1:A:1509:C:C5	2.56	0.41
1:A:1683:G:C4'	1:A:1684:C:OP1	2.69	0.41
1:A:1708:U:P	3:JM:58:ASN:HB2	2.60	0.41
1:A:1741:A:O2'	1:A:1742:U:H5'	2.21	0.41
1:A:1774:G:C4	1:A:1775:G:C8	3.09	0.41
1:A:1873:U:O5'	1:A:1874:U:H4'	2.21	0.41
1:A:1876:A:N6	1:A:2848:A:C2	2.89	0.41
1:A:1921:U:O2	1:A:1923:G:N7	2.54	0.41
1:A:1936:G:C6	1:A:1984:G:C6	3.09	0.41
1:A:1937:C:N4	1:A:1938:G:H21	2.18	0.41
1:A:2016:U:H2'	1:A:2017:U:C6	2.56	0.41
1:A:2157:C:OP2	3:HE:59:ARG:NH2	2.54	0.41
1:A:2193:A:H8	1:A:2193:A:OP2	2.04	0.41
1:A:2239:A:H2'	1:A:2239:A:N3	2.36	0.41
1:A:2242:C:H5'	3:FJ:59:ARG:HH22	1.82	0.41
1:A:2247:A:C2	1:A:2248:G:H1'	2.56	0.41
1:A:2319:G:O2'	1:A:2322:C:OP1	2.28	0.41
1:A:2321:U:H2'	1:A:2323:C:OP2	2.21	0.41
1:A:2341:G:N1	1:A:2342:G:C6	2.88	0.41
1:A:2350:G:H2'	1:A:2351:C:C5	2.55	0.41
1:A:2370:U:C4	1:A:2410:A:N1	2.88	0.41
1:A:2380:C:C4	1:A:2404:C:O2	2.73	0.41
1:A:2383:U:C6	3:FH:89:TYR:OH	2.71	0.41
1:A:2426:U:O4	1:A:2889:A:N7	2.54	0.41
1:A:2496:G:C5	1:A:2497:A:C8	3.09	0.41
1:A:2512:C:C2	1:A:2513:A:C8	3.09	0.41
1:A:2544:G:N3	1:A:2544:G:O5'	2.54	0.41
1:A:2631:G:H2'	1:A:2632:A:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2635:A:O2'	1:A:2636:G:O5'	2.29	0.41
1:A:2766:A:H2'	1:A:2767:U:O2	2.21	0.41
1:A:2850:G:H2'	1:A:2851:G:C8	2.55	0.41
1:A:2969:U:C2	1:A:2970:A:C8	3.09	0.41
1:A:3039:A:N1	1:A:3044:U:C6	2.89	0.41
1:A:3243:G:H5"	3:KK:58:ASN:ND2	2.35	0.41
1:A:3265:C:H2'	1:A:3266:U:O4'	2.21	0.41
1:A:3293:U:O3'	1:A:3294:G:O4'	2.39	0.41
1:A:3382:G:N3	1:A:3382:G:H2'	2.36	0.41
1:A:3409:A:N7	1:A:3459:G:N2	2.68	0.41
1:A:3418:U:O2'	1:A:3419:U:C6	2.74	0.41
1:A:3446:C:O2	1:A:3447:U:C6	2.74	0.41
1:A:3539:G:P	3:GD:59:ARG:HH22	2.44	0.41
1:A:3570:G:O2'	1:A:3571:U:H5'	2.21	0.41
1:A:3571:U:O2'	1:A:3572:U:H5'	2.21	0.41
1:A:3587:A:C6	1:A:3665:A:C6	3.09	0.41
1:A:3747:G:H2'	1:A:3748:G:C8	2.56	0.41
1:A:3759:G:C2	1:A:3760:G:H1'	2.56	0.41
1:A:3799:A:N3	1:A:3799:A:H2'	2.36	0.41
1:A:3929:U:H3'	1:A:3930:C:C6	2.55	0.41
1:A:4028:A:H2'	1:A:4029:U:C6	2.56	0.41
1:A:4056:A:C2	1:A:4057:G:N7	2.89	0.41
1:A:4062:G:H2'	1:A:4063:U:O4'	2.21	0.41
1:A:4155:A:N7	1:A:4156:A:N6	2.69	0.41
1:A:4190:G:C4	1:A:4191:G:C8	3.08	0.41
1:A:4206:U:H2'	1:A:4207:C:C6	2.56	0.41
1:A:4210:U:H2'	1:A:4211:C:C6	2.56	0.41
2:M:308:HIS:NE2	3:B:47:ARG:HD2	2.36	0.41
3:BA:13:LYS:N	3:BA:13:LYS:HD3	2.36	0.41
3:BA:16:LYS:HE2	3:BA:16:LYS:HA	2.02	0.41
3:BA:132:TYR:CE1	3:MK:26:VAL:HG21	2.56	0.41
3:BB:125:ILE:CG1	3:BB:126:ASP:N	2.83	0.41
3:BC:24:ARG:HB2	3:BC:34:SER:OG	2.21	0.41
3:BC:94:PHE:HD2	3:ND:125:ILE:HD12	1.86	0.41
3:BC:103:GLU:HA	3:ND:13:LYS:NZ	2.35	0.41
3:BE:64:VAL:HB	3:BE:94:PHE:HB2	2.03	0.41
3:BF:19:LEU:HD21	3:IN:107:PHE:CE2	2.56	0.41
3:BF:68:ILE:HD12	3:BF:68:ILE:N	2.36	0.41
3:BF:72:THR:O	3:BF:86:ARG:HB3	2.21	0.41
3:BF:125:ILE:HD12	3:IN:94:PHE:CE1	2.55	0.41
3:BG:58:ASN:OD1	3:BG:59:ARG:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:104:GLU:OE2	3:IL:86:ARG:NE	2.45	0.41
3:BI:8:LEU:HD13	3:BI:8:LEU:HA	1.86	0.41
3:BI:123:ASP:OD1	3:BI:129:ASN:HB2	2.21	0.41
3:BI:132:TYR:N	3:HM:3:LEU:HD23	2.36	0.41
3:BJ:30:ASN:CG	3:BJ:32:VAL:HG23	2.41	0.41
3:BJ:99:TYR:CE1	3:BK:83:SER:HA	2.55	0.41
3:BK:101:THR:O	3:BK:105:ARG:HG3	2.21	0.41
3:BK:125:ILE:HD13	3:HK:64:VAL:HG11	2.03	0.41
3:BN:98:GLN:OE1	3:BN:98:GLN:N	2.47	0.41
3:CA:109:ARG:HG2	3:DH:116:LEU:HD12	2.03	0.41
3:CB:37:GLN:OE1	3:CB:42:PRO:HB2	2.21	0.41
3:CC:112:LEU:HD23	3:CC:116:LEU:HG	2.02	0.41
3:CD:6:VAL:HG12	3:CD:8:LEU:HD21	2.02	0.41
3:CD:24:ARG:NH1	3:DF:129:ASN:HA	2.35	0.41
3:CD:64:VAL:HG21	3:HA:125:ILE:HD13	2.02	0.41
3:CF:30:ASN:OD1	3:CF:30:ASN:N	2.53	0.41
3:CF:58:ASN:O	3:CF:60:LYS:NZ	2.53	0.41
3:CF:118:SER:OG	3:CF:119:PRO:HD2	2.20	0.41
3:CH:115:LEU:HD12	3:HL:68:ILE:HD11	2.03	0.41
3:CJ:92:VAL:CG2	3:HJ:92:VAL:HG22	2.35	0.41
3:CM:11:ILE:HD12	3:NA:110:THR:OG1	2.21	0.41
3:CM:114:ALA:CB	3:NA:8:LEU:HG	2.51	0.41
3:CN:13:LYS:H	3:CN:13:LYS:CD	2.32	0.41
3:CN:21:LEU:HD13	3:CN:36:SER:C	2.41	0.41
3:DB:6:VAL:HG12	3:DB:8:LEU:HD11	2.00	0.41
3:DB:24:ARG:HB2	3:DB:34:SER:OG	2.21	0.41
3:DC:54:GLN:O	3:DC:59:ARG:HD3	2.21	0.41
3:DC:102:ASP:N	3:DC:105:ARG:NH2	2.68	0.41
3:DC:128:LEU:CD2	3:EN:62:TYR:HB3	2.51	0.41
3:DE:3:LEU:CD2	3:EL:132:TYR:N	2.83	0.41
3:DE:112:LEU:CD2	3:EL:116:LEU:HD11	2.50	0.41
3:DE:128:LEU:HD22	3:EL:62:TYR:CD2	2.55	0.41
3:DF:3:LEU:HD12	3:DF:23:PRO:HB2	2.02	0.41
3:DF:91:ASP:OD1	3:DF:91:ASP:C	2.57	0.41
3:DG:79:SER:O	3:DG:80:CYS:CB	2.69	0.41
3:DG:125:ILE:HD11	3:EJ:96:PHE:CE1	2.56	0.41
3:DH:56:SER:O	3:DH:60:LYS:HD3	2.21	0.41
3:DJ:75:THR:HG23	3:DJ:75:THR:O	2.21	0.41
3:DL:14:ASP:O	3:DL:16:LYS:NZ	2.39	0.41
3:DL:68:ILE:HD11	3:MN:111:GLU:CD	2.40	0.41
3:DM:72:THR:CG2	3:DM:73:ALA:N	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DM:86:ARG:HH21	3:EM:100:SER:HA	1.82	0.41
3:DM:100:SER:CA	3:EM:86:ARG:NH1	2.83	0.41
3:DN:100:SER:HA	3:DN:104:GLU:OE2	2.20	0.41
3:DN:114:ALA:HB1	3:ML:8:LEU:HD12	2.00	0.41
3:EA:94:PHE:N	3:EA:94:PHE:CD1	2.89	0.41
3:EA:98:GLN:NE2	3:EB:43:ALA:HA	2.36	0.41
3:EB:109:ARG:CG	3:EB:110:THR:N	2.83	0.41
3:EC:8:LEU:HD13	3:LK:114:ALA:HB3	2.01	0.41
3:EC:77:ASN:CG	3:LI:78:GLY:HA2	2.41	0.41
3:EC:92:VAL:HG21	3:LK:112:LEU:CD1	2.51	0.41
3:EC:128:LEU:HD12	3:EC:128:LEU:N	2.36	0.41
3:ED:125:ILE:HD13	3:EH:94:PHE:CE1	2.56	0.41
3:EE:105:ARG:HH11	3:EE:105:ARG:HG3	1.86	0.41
3:EE:131:ALA:HA	3:LI:1:ALA:HB1	2.02	0.41
3:EF:24:ARG:HA	3:LI:130:PRO:HG2	2.03	0.41
3:EG:57:ARG:HA	3:EG:57:ARG:NE	2.35	0.41
3:EG:60:LYS:N	3:EG:61:ASN:HB3	2.35	0.41
3:EG:61:ASN:OD1	3:EG:61:ASN:O	2.39	0.41
3:EG:114:ALA:HB3	3:GC:8:LEU:HD22	1.97	0.41
3:EI:55:PRO:HB3	3:EI:60:LYS:HG2	2.00	0.41
3:EK:22:ASN:HD21	3:EK:38:ALA:HB2	1.86	0.41
3:EK:121:LEU:HA	3:EK:124:ALA:HB3	2.03	0.41
3:EL:44:LEU:HD21	3:EL:73:ALA:HB3	2.03	0.41
3:FA:27:ASN:ND2	3:FA:29:THR:OG1	2.54	0.41
3:FC:1:ALA:O	3:GB:131:ALA:HA	2.19	0.41
3:FE:85:THR:HG23	3:FE:86:ARG:CD	2.50	0.41
3:FF:52:VAL:HG13	3:FF:64:VAL:HG22	2.01	0.41
3:FF:72:THR:CG2	3:FF:86:ARG:HB2	2.51	0.41
3:FG:13:LYS:CE	3:KG:102:ASP:OD2	2.69	0.41
3:FH:59:ARG:HA	3:FH:59:ARG:NE	2.35	0.41
3:FH:97:THR:HG23	3:FH:100:SER:N	2.36	0.41
3:FH:112:LEU:HD11	3:FK:92:VAL:CG2	2.51	0.41
3:FI:11:ILE:CD1	3:KE:111:GLU:N	2.83	0.41
3:FL:84:VAL:O	3:FL:84:VAL:HG13	2.20	0.41
3:FN:63:LYS:HZ1	3:FN:95:SER:HG	1.57	0.41
3:FN:122:ILE:HA	3:HB:109:ARG:NH1	2.36	0.41
3:GA:60:LYS:O	3:GA:61:ASN:C	2.59	0.41
3:GA:96:PHE:CD2	3:GA:105:ARG:HD2	2.56	0.41
3:GC:10:ASN:O	3:GC:11:ILE:HG23	2.19	0.41
3:GC:41:VAL:HG21	3:GC:44:LEU:HD12	2.03	0.41
3:GC:72:THR:OG1	3:GC:86:ARG:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GD:122:ILE:HG13	3:GD:123:ASP:N	2.36	0.41
3:GD:126:ASP:CG	3:KF:109:ARG:HH12	2.23	0.41
3:GE:86:ARG:HG2	3:HE:97:THR:HG21	2.03	0.41
3:GE:98:GLN:OE1	3:GE:98:GLN:HA	2.20	0.41
3:GF:55:PRO:HD3	3:GF:62:TYR:CE2	2.55	0.41
3:GF:64:VAL:HG11	3:KD:125:ILE:HD13	2.03	0.41
3:GF:132:TYR:HH	3:KC:26:VAL:HG13	1.85	0.41
3:GG:13:LYS:HE2	3:JE:103:GLU:HA	2.03	0.41
3:GG:103:GLU:HA	3:JE:13:LYS:HZ3	1.86	0.41
3:GI:129:ASN:OD1	3:JA:24:ARG:CA	2.69	0.41
3:GJ:3:LEU:HD21	3:GN:131:ALA:HB1	2.03	0.41
3:GJ:90:ALA:HA	3:GN:93:THR:O	2.21	0.41
3:GL:2:LYS:NZ	3:HG:132:TYR:OXT	2.42	0.41
3:GL:122:ILE:HG12	3:HG:109:ARG:NH1	2.36	0.41
3:GM:58:ASN:OD1	3:GM:59:ARG:HG2	2.20	0.41
3:HD:27:ASN:OD1	3:HD:30:ASN:N	2.46	0.41
3:HD:69:GLN:OE1	3:HD:89:TYR:HA	2.21	0.41
3:HD:69:GLN:OE1	3:HD:69:GLN:HA	2.21	0.41
3:HE:131:ALA:O	3:HE:132:TYR:CD1	2.74	0.41
3:HF:13:LYS:N	3:HF:13:LYS:CD	2.84	0.41
3:HG:3:LEU:CD1	3:HG:35:LEU:HD11	2.48	0.41
3:HG:55:PRO:CB	3:HG:60:LYS:HD3	2.50	0.41
3:HI:34:SER:O	3:HI:35:LEU:HD22	2.21	0.41
3:HI:60:LYS:HG3	3:HI:60:LYS:O	2.21	0.41
3:HJ:42:PRO:HA	3:HJ:45:GLU:CD	2.41	0.41
3:HK:21:LEU:HD13	3:HK:36:SER:C	2.41	0.41
3:HL:79:SER:O	3:HL:80:CYS:CB	2.68	0.41
3:HN:13:LYS:HZ3	3:ID:103:GLU:CD	2.23	0.41
3:HN:121:LEU:HD12	3:HN:121:LEU:N	2.36	0.41
3:HN:128:LEU:CD2	3:ID:62:TYR:CG	3.04	0.41
3:IA:30:ASN:OD1	3:IA:32:VAL:CB	2.68	0.41
3:IB:53:SER:OG	3:IB:63:LYS:HB3	2.20	0.41
3:IB:125:ILE:HG21	3:IK:109:ARG:HD3	2.02	0.41
3:IC:122:ILE:HB	3:JN:109:ARG:HH12	1.85	0.41
3:ID:24:ARG:CZ	3:JN:127:GLN:O	2.69	0.41
3:ID:30:ASN:CG	3:ID:32:VAL:HG23	2.41	0.41
3:IE:32:VAL:HG12	3:IE:51:SER:CB	2.51	0.41
3:IE:127:GLN:N	3:IE:127:GLN:OE1	2.54	0.41
3:IE:128:LEU:HD23	3:JL:62:TYR:CD1	2.56	0.41
3:IE:129:ASN:HD22	3:JJ:24:ARG:HA	1.85	0.41
3:IF:11:ILE:HG23	3:NI:110:THR:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:68:ILE:HD11	3:NI:111:GLU:OE1	2.20	0.41
3:IH:11:ILE:CG2	3:IH:17:GLN:HB2	2.51	0.41
3:IH:37:GLN:O	3:IH:45:GLU:CG	2.69	0.41
3:IH:109:ARG:CZ	3:NG:122:ILE:HD13	2.51	0.41
3:II:60:LYS:CB	3:II:61:ASN:HB2	2.46	0.41
3:IJ:11:ILE:CD1	3:NE:110:THR:OG1	2.69	0.41
3:IJ:131:ALA:HA	3:NE:1:ALA:HB1	2.03	0.41
3:IK:73:ALA:HB1	3:IK:83:SER:O	2.21	0.41
3:IM:107:PHE:CE1	3:JM:19:LEU:HD21	2.56	0.41
3:IM:129:ASN:OD1	3:JN:24:ARG:CZ	2.69	0.41
3:JB:84:VAL:O	3:JB:84:VAL:HG13	2.20	0.41
3:JC:42:PRO:HA	3:JC:45:GLU:OE2	2.21	0.41
3:JD:25:GLY:H	3:KA:130:PRO:HD2	1.86	0.41
3:JF:115:LEU:HD23	3:KA:8:LEU:HD11	2.02	0.41
3:JI:122:ILE:HA	3:LB:109:ARG:HH12	1.86	0.41
3:JJ:27:ASN:O	3:JJ:31:GLY:N	2.51	0.41
3:JK:26:VAL:HG11	3:KN:132:TYR:CZ	2.55	0.41
3:JK:132:TYR:HA	3:KN:3:LEU:HD13	2.03	0.41
3:JL:8:LEU:HD13	3:JL:8:LEU:HA	1.91	0.41
3:JM:102:ASP:OD1	3:JM:103:GLU:OE1	2.38	0.41
3:JM:121:LEU:HD12	3:JM:121:LEU:N	2.35	0.41
3:JN:67:LYS:NZ	3:JN:69:GLN:HB2	2.36	0.41
3:KA:72:THR:HB	3:KA:86:ARG:HB3	2.03	0.41
3:KC:6:VAL:HG12	3:KC:8:LEU:CD2	2.50	0.41
3:KC:103:GLU:CA	3:LC:13:LYS:NZ	2.84	0.41
3:KC:119:PRO:O	3:KC:122:ILE:HB	2.21	0.41
3:KF:65:GLN:CD	3:KF:93:THR:HG1	2.12	0.41
3:KG:23:PRO:HA	3:KG:35:LEU:HG	2.01	0.41
3:KG:48:VAL:HG22	3:KG:68:ILE:HG23	2.03	0.41
3:KH:8:LEU:HD12	3:KL:114:ALA:HB3	2.01	0.41
3:KH:126:ASP:OD1	3:KL:109:ARG:NH2	2.54	0.41
3:KJ:102:ASP:OD2	3:LE:127:GLN:NE2	2.54	0.41
3:KJ:111:GLU:N	3:LE:11:ILE:CD1	2.84	0.41
3:KK:101:THR:H	3:KK:104:GLU:CD	2.21	0.41
3:KK:111:GLU:OE1	3:MH:68:ILE:CD1	2.69	0.41
3:KM:3:LEU:HD21	3:KM:33:ALA:HB1	2.03	0.41
3:KM:100:SER:HA	3:KM:104:GLU:OE2	2.21	0.41
3:KM:111:GLU:O	3:KM:115:LEU:HG	2.20	0.41
3:LA:128:LEU:HD13	3:MD:62:TYR:CE2	2.56	0.41
3:LF:34:SER:C	3:LF:35:LEU:HD12	2.41	0.41
3:LG:67:LYS:NZ	3:LG:91:ASP:CG	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LH:56:SER:N	3:LH:60:LYS:HA	2.36	0.41
3:LH:72:THR:O	3:LH:86:ARG:HB3	2.21	0.41
3:LL:130:PRO:HG3	3:MB:52:VAL:CG2	2.50	0.41
3:LL:130:PRO:HG3	3:MB:52:VAL:HG21	2.03	0.41
3:MA:55:PRO:HB3	3:MA:60:LYS:O	2.21	0.41
3:MB:98:GLN:OE1	3:MB:99:TYR:CE1	2.73	0.41
3:MB:100:SER:OG	3:MB:101:THR:N	2.54	0.41
3:MC:3:LEU:HD21	3:NJ:131:ALA:HB1	2.01	0.41
3:MC:68:ILE:HD11	3:NJ:111:GLU:OE1	2.20	0.41
3:MD:34:SER:O	3:MD:35:LEU:HD22	2.21	0.41
3:ME:100:SER:HA	3:NH:86:ARG:NH2	2.35	0.41
3:MH:23:PRO:HA	3:MH:35:LEU:HD13	2.02	0.41
3:MH:61:ASN:CG	3:MH:96:PHE:O	2.59	0.41
3:MJ:19:LEU:HD12	3:MJ:46:LYS:HZ2	1.86	0.41
3:MJ:23:PRO:O	3:MJ:24:ARG:HD2	2.21	0.41
3:MJ:27:ASN:ND2	3:MJ:29:THR:OG1	2.54	0.41
3:MJ:84:VAL:HG11	3:MJ:87:GLN:HE21	1.85	0.41
3:ML:6:VAL:CG1	3:ML:8:LEU:HD21	2.48	0.41
3:ML:17:GLN:N	3:ML:17:GLN:OE1	2.53	0.41
3:MN:44:LEU:HD21	3:MN:82:PRO:HB2	2.03	0.41
3:NC:123:ASP:HB2	3:NC:129:ASN:HD22	1.85	0.41
3:NE:37:GLN:OE1	3:NE:46:LYS:HG3	2.20	0.41
3:NH:62:TYR:HE2	3:NI:42:PRO:HG2	1.86	0.41
3:NH:107:PHE:CE2	3:NH:111:GLU:OE1	2.73	0.41
3:NI:43:ALA:O	3:NI:44:LEU:HD22	2.20	0.41
3:NJ:23:PRO:O	3:NJ:24:ARG:NH2	2.54	0.41
1:A:71:U:H1'	1:A:316:U:OP2	2.21	0.41
1:A:146:U:H2'	1:A:147:U:C6	2.56	0.41
1:A:935:U:H2'	1:A:936:U:C6	2.56	0.41
1:A:1090:A:HO2'	1:A:1091:U:C1'	2.34	0.41
1:A:1130:C:O2	1:A:1130:C:H2'	2.21	0.41
1:A:1290:U:H2'	1:A:1291:A:C8	2.56	0.41
1:A:1295:U:C5	3:BK:57:ARG:NH2	2.88	0.41
1:A:1340:G:C6	1:A:1349:A:C2	3.08	0.41
1:A:1709:G:C6	1:A:1726:A:N1	2.89	0.41
1:A:1764:G:C6	1:A:1820:G:O6	2.74	0.41
1:A:1803:C:H4'	1:A:1804:C:O5'	2.20	0.41
1:A:1966:U:OP1	3:IE:59:ARG:HD2	2.21	0.41
1:A:2225:U:C2	1:A:2226:G:C8	3.09	0.41
1:A:2323:C:H2'	1:A:2324:U:O5'	2.21	0.41
1:A:2328:G:N2	1:A:2342:G:H1	2.10	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2376:A:H3'	1:A:2377:A:C8	2.56	0.41
1:A:2398:G:H2'	1:A:2399:C:C6	2.56	0.41
1:A:2404:C:H4'	1:A:2405:C:H4'	2.04	0.41
1:A:2439:G:C6	1:A:2440:C:C4	3.09	0.41
1:A:2506:G:C2	1:A:2513:A:C6	3.09	0.41
1:A:2576:C:H2'	1:A:2577:A:C1'	2.51	0.41
1:A:2589:G:C6	1:A:2590:A:C5	3.08	0.41
1:A:2890:C:H6	1:A:2890:C:O5'	2.04	0.41
1:A:2913:U:C2	1:A:2914:U:C6	3.09	0.41
1:A:2923:G:HO2'	1:A:2924:A:C4'	2.32	0.41
1:A:3169:U:P	1:A:3277:U:OP1	2.79	0.41
1:A:3274:G:H2'	1:A:3275:A:O4'	2.19	0.41
1:A:3282:G:H3'	1:A:3283:A:H8	1.86	0.41
1:A:3342:C:H3'	1:A:3343:U:H5'	2.02	0.41
1:A:3423:G:H2'	1:A:3424:G:H5'	2.03	0.41
1:A:3534:G:O6	1:A:3557:U:C2	2.74	0.41
1:A:3698:G:OP1	3:LK:57:ARG:O	2.39	0.41
1:A:3949:G:C6	1:A:4049:G:N2	2.89	0.41
1:A:4032:G:H2'	1:A:4033:A:O4'	2.21	0.41
1:A:4156:A:C4	1:A:4162:U:C2	3.09	0.41
2:M:81:THR:O	2:M:383:ARG:NE	2.54	0.41
3:B:55:PRO:HD3	3:B:62:TYR:CE2	2.56	0.41
3:BB:37:GLN:OE1	3:BB:38:ALA:O	2.39	0.41
3:BB:128:LEU:HD11	3:MA:105:ARG:CZ	2.51	0.41
3:BC:3:LEU:HD13	3:BC:23:PRO:HB2	1.98	0.41
3:BC:11:ILE:CG2	3:BC:17:GLN:HB3	2.50	0.41
3:BD:90:ALA:HB2	3:JB:94:PHE:CD2	2.56	0.41
3:BD:102:ASP:N	3:BD:102:ASP:OD1	2.54	0.41
3:BE:86:ARG:HH22	3:CE:99:TYR:HB3	1.86	0.41
3:BE:105:ARG:NE	3:CE:128:LEU:CD1	2.84	0.41
3:BF:44:LEU:HD11	3:BF:73:ALA:HB2	2.03	0.41
3:BH:11:ILE:HD11	3:IL:111:GLU:HG3	2.02	0.41
3:BH:99:TYR:O	3:IL:86:ARG:NH2	2.54	0.41
3:BH:119:PRO:O	3:BH:122:ILE:HB	2.21	0.41
3:BI:6:VAL:HG12	3:BI:8:LEU:HD23	2.01	0.41
3:BJ:11:ILE:CG2	3:BJ:17:GLN:HB2	2.51	0.41
3:BJ:44:LEU:CD2	3:BL:98:GLN:O	2.69	0.41
3:BJ:92:VAL:CG2	3:BN:92:VAL:HG22	2.45	0.41
3:BK:9:GLY:O	3:BK:11:ILE:HB	2.21	0.41
3:BL:122:ILE:HG12	3:CG:109:ARG:CZ	2.51	0.41
3:BM:56:SER:HB3	3:BM:58:ASN:OD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:104:GLU:OE1	3:BM:104:GLU:HA	2.21	0.41
3:BM:110:THR:CB	3:DJ:11:ILE:HD12	2.51	0.41
3:CA:106:ALA:CA	3:DH:126:ASP:OD1	2.69	0.41
3:CA:120:LEU:C	3:CA:120:LEU:HD23	2.42	0.41
3:CB:131:ALA:HB1	3:HC:1:ALA:O	2.20	0.41
3:CD:3:LEU:HD23	3:HA:132:TYR:CA	2.49	0.41
3:CD:60:LYS:HB2	3:CD:98:GLN:HG2	2.03	0.41
3:CN:48:VAL:CG1	3:DD:115:LEU:HD11	2.50	0.41
3:DB:94:PHE:CE2	3:DK:125:ILE:CD1	3.04	0.41
3:DC:10:ASN:O	3:DC:11:ILE:HD13	2.21	0.41
3:DC:109:ARG:HD2	3:EN:116:LEU:HD21	2.03	0.41
3:DG:54:GLN:HE22	3:DG:56:SER:HA	1.86	0.41
3:DJ:128:LEU:HD12	3:DJ:128:LEU:N	2.36	0.41
3:DL:8:LEU:HD11	3:MN:115:LEU:CD2	2.51	0.41
3:DM:119:PRO:CA	3:DM:122:ILE:HD12	2.48	0.41
3:EA:126:ASP:OD1	3:LM:106:ALA:HB2	2.21	0.41
3:EC:76:ALA:O	3:EC:79:SER:OG	2.23	0.41
3:ED:41:VAL:N	3:ED:42:PRO:CD	2.84	0.41
3:EE:114:ALA:HB3	3:LI:8:LEU:HD22	2.03	0.41
3:EI:3:LEU:HD13	3:GA:132:TYR:C	2.41	0.41
3:FE:62:TYR:HE2	3:FF:42:PRO:HG2	1.86	0.41
3:FG:107:PHE:CE1	3:KG:12:GLY:HA3	2.56	0.41
3:FH:22:ASN:OD1	3:FH:22:ASN:C	2.59	0.41
3:FH:63:LYS:HB2	3:FH:65:GLN:HE22	1.86	0.41
3:FH:130:PRO:HD2	3:FL:23:PRO:O	2.21	0.41
3:FJ:8:LEU:CD2	3:FJ:8:LEU:N	2.84	0.41
3:FK:74:CYS:SG	3:FK:85:THR:OG1	2.71	0.41
3:FK:105:ARG:HA	3:FK:108:VAL:HB	2.03	0.41
3:FL:126:ASP:OD2	3:HD:109:ARG:NE	2.54	0.41
3:FN:13:LYS:HZ2	3:HB:103:GLU:HA	1.85	0.41
3:FN:125:ILE:HG23	3:FN:126:ASP:H	1.84	0.41
3:GF:11:ILE:HD12	3:KD:110:THR:HB	2.03	0.41
3:GF:26:VAL:CG2	3:KD:132:TYR:HD1	2.34	0.41
3:GG:86:ARG:CZ	3:JE:99:TYR:O	2.63	0.41
3:GH:11:ILE:CD1	3:KB:110:THR:OG1	2.69	0.41
3:GJ:119:PRO:HA	3:GJ:122:ILE:HD11	2.03	0.41
3:GJ:122:ILE:HG22	3:GN:109:ARG:CZ	2.51	0.41
3:GK:1:ALA:O	3:JA:131:ALA:HA	2.21	0.41
3:GM:41:VAL:N	3:GM:42:PRO:CD	2.84	0.41
3:HB:106:ALA:HA	3:HB:109:ARG:HG2	2.03	0.41
3:HG:21:LEU:HD13	3:HG:36:SER:C	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HI:93:THR:O	3:II:90:ALA:HA	2.21	0.41
3:HL:41:VAL:CG1	3:HL:44:LEU:HB3	2.51	0.41
3:HM:91:ASP:OD1	3:HM:91:ASP:C	2.59	0.41
3:IA:39:GLY:HA3	3:IA:45:GLU:OE2	2.21	0.41
3:IB:92:VAL:CG2	3:IK:112:LEU:HD11	2.52	0.41
3:IE:2:LYS:HG3	3:JN:132:TYR:OH	2.21	0.41
3:IH:118:SER:OG	3:IH:119:PRO:HD2	2.21	0.41
3:II:124:ALA:O	3:II:128:LEU:HA	2.21	0.41
3:IJ:72:THR:OG1	3:IJ:86:ARG:HB2	2.21	0.41
3:IK:24:ARG:NE	3:IK:36:SER:OG	2.54	0.41
3:IN:4:GLU:OE1	3:IN:5:THR:O	2.39	0.41
3:JC:81:ASP:O	3:JC:83:SER:N	2.53	0.41
3:JF:3:LEU:CD2	3:KA:131:ALA:HB1	2.51	0.41
3:JJ:13:LYS:CD	3:JJ:13:LYS:H	2.34	0.41
3:JJ:122:ILE:O	3:JJ:126:ASP:HB2	2.21	0.41
3:JN:125:ILE:HG23	3:JN:126:ASP:N	2.35	0.41
3:KE:119:PRO:HA	3:KE:122:ILE:CD1	2.51	0.41
3:KM:129:ASN:HD22	3:MD:24:ARG:HA	1.85	0.41
3:KN:97:THR:HG22	3:KN:98:GLN:N	2.35	0.41
3:LA:110:THR:OG1	3:MD:11:ILE:CD1	2.69	0.41
3:LB:11:ILE:CG2	3:LB:17:GLN:HB2	2.50	0.41
3:LC:18:THR:O	3:LC:19:LEU:HD22	2.21	0.41
3:LJ:55:PRO:HB3	3:LJ:61:ASN:N	2.35	0.41
3:LL:41:VAL:O	3:LL:44:LEU:N	2.42	0.41
3:LM:19:LEU:CD2	3:LM:21:LEU:HD21	2.51	0.41
3:LM:37:GLN:O	3:LM:45:GLU:CG	2.68	0.41
3:MD:14:ASP:OD2	3:MD:16:LYS:HD2	2.21	0.41
3:MK:4:GLU:OE1	3:MK:5:THR:O	2.39	0.41
3:ML:96:PHE:HE2	3:ML:108:VAL:HG21	1.87	0.41
3:MN:4:GLU:OE2	3:MN:5:THR:O	2.39	0.41
3:NA:32:VAL:HG12	3:NA:51:SER:CB	2.51	0.41
3:NI:30:ASN:OD1	3:NI:32:VAL:HG23	2.21	0.41
3:NJ:52:VAL:HG12	3:NJ:64:VAL:HG13	2.02	0.41
1:A:171:G:C6	1:A:172:U:C4	3.09	0.40
1:A:279:U:H1'	1:A:625:U:C2	2.56	0.40
1:A:485:C:C2'	1:A:486:G:C8	3.05	0.40
1:A:703:U:H2'	1:A:704:U:C6	2.56	0.40
1:A:870:C:C5	1:A:957:G:OP2	2.74	0.40
1:A:970:G:H2'	1:A:971:C:C6	2.56	0.40
1:A:988:G:H2'	1:A:989:A:O4'	2.21	0.40
1:A:1266:U:O2	1:A:1282:C:O2	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1313:U:H2'	1:A:1314:A:H5"	2.02	0.40
1:A:1792:U:H3'	1:A:1793:U:C5'	2.50	0.40
1:A:1827:A:H2'	1:A:1828:C:C6	2.57	0.40
1:A:1912:A:H2'	1:A:1913:U:C6	2.56	0.40
1:A:1986:G:H2'	1:A:1987:A:H8	1.85	0.40
1:A:2008:A:H3'	1:A:2009:U:H5"	2.03	0.40
1:A:2036:U:H2'	1:A:2037:G:O4'	2.20	0.40
1:A:2143:A:H2'	1:A:2144:G:C8	2.56	0.40
1:A:2292:A:H61	3:GM:55:PRO:HD2	1.87	0.40
1:A:2333:G:C2	1:A:2334:U:C1'	3.05	0.40
1:A:2342:G:C6	1:A:2343:A:C2	3.09	0.40
1:A:2381:U:H2'	1:A:2382:C:C6	2.56	0.40
1:A:2436:C:H2'	1:A:2437:U:H6	1.85	0.40
1:A:2451:G:H2'	1:A:2452:C:H6	1.85	0.40
1:A:2509:U:H2'	1:A:2510:U:H2'	2.03	0.40
1:A:2663:U:O2	1:A:2663:U:H2'	2.20	0.40
1:A:2709:A:H3'	1:A:2710:A:C8	2.56	0.40
1:A:2788:A:OP1	1:A:2788:A:C8	2.74	0.40
1:A:2824:C:H2'	1:A:2825:U:H5'	2.03	0.40
1:A:3099:G:C6	1:A:3116:G:C6	3.09	0.40
1:A:3106:A:C4	1:A:3107:U:C6	3.09	0.40
1:A:3258:A:C6	1:A:3259:G:H1'	2.56	0.40
1:A:3275:A:O2'	1:A:3276:U:O4'	2.37	0.40
1:A:3300:U:C2	1:A:3320:G:O6	2.70	0.40
1:A:3304:A:N6	1:A:3315:U:C4	2.89	0.40
1:A:3308:G:C5	1:A:3309:A:C6	3.09	0.40
1:A:3357:U:H2'	1:A:3358:U:O4'	2.21	0.40
1:A:3568:A:H2'	1:A:3569:U:O4'	2.20	0.40
1:A:3584:C:O2'	1:A:3843:A:H1'	2.22	0.40
1:A:3803:C:N4	3:KK:57:ARG:NH2	2.69	0.40
1:A:3809:G:C5'	3:KH:59:ARG:H	2.33	0.40
1:A:3923:G:H2'	1:A:3924:U:O4'	2.21	0.40
1:A:3929:U:C4	1:A:3930:C:C4	3.09	0.40
1:A:3968:U:C4	1:A:3969:G:N7	2.90	0.40
1:A:4135:C:C5'	3:KE:63:LYS:NZ	2.84	0.40
2:M:324:PHE:HD2	2:M:417:VAL:HG11	1.80	0.40
2:M:395:ASP:O	2:M:395:ASP:OD1	2.39	0.40
3:BA:13:LYS:NZ	3:MK:103:GLU:HA	2.35	0.40
3:BD:122:ILE:CD1	3:JB:109:ARG:NH2	2.83	0.40
3:BE:98:GLN:OE1	3:BE:99:TYR:CZ	2.74	0.40
3:CD:24:ARG:CZ	3:DF:129:ASN:HA	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:122:ILE:CA	3:GM:109:ARG:HH22	2.34	0.40
3:CG:11:ILE:HG23	3:CG:17:GLN:CG	2.51	0.40
3:CG:96:PHE:CE2	3:CG:105:ARG:HD2	2.56	0.40
3:CG:97:THR:N	3:CG:100:SER:OG	2.54	0.40
3:CH:23:PRO:O	3:CH:24:ARG:HD2	2.21	0.40
3:CH:63:LYS:HE2	3:CH:65:GLN:HE21	1.85	0.40
3:CI:41:VAL:HG23	3:CI:44:LEU:HB2	2.03	0.40
3:CI:71:PRO:HB3	3:CI:87:GLN:HE22	1.86	0.40
3:CI:119:PRO:HA	3:CI:122:ILE:HD12	2.03	0.40
3:CK:132:TYR:HE2	3:ND:25:GLY:CA	2.34	0.40
3:CL:107:PHE:CE1	3:HH:19:LEU:HD11	2.57	0.40
3:CN:61:ASN:HA	3:CN:96:PHE:O	2.20	0.40
3:DA:106:ALA:CA	3:MM:126:ASP:OD1	2.69	0.40
3:DB:8:LEU:HG	3:DK:114:ALA:HB1	2.03	0.40
3:DB:132:TYR:HD1	3:DK:26:VAL:HG21	1.86	0.40
3:DC:110:THR:O	3:DC:113:ALA:HB3	2.21	0.40
3:DD:37:GLN:O	3:DD:45:GLU:OE1	2.40	0.40
3:DD:79:SER:O	3:DD:80:CYS:CB	2.69	0.40
3:DE:97:THR:HG21	3:EL:86:ARG:HG3	2.03	0.40
3:DF:85:THR:O	3:DF:85:THR:CG2	2.70	0.40
3:DG:124:ALA:O	3:DG:128:LEU:HA	2.20	0.40
3:DI:22:ASN:HB2	3:DI:23:PRO:HD2	2.02	0.40
3:DJ:79:SER:O	3:DJ:80:CYS:HB3	2.21	0.40
3:DM:8:LEU:HD22	3:DM:8:LEU:N	2.36	0.40
3:EB:24:ARG:HH22	3:LM:128:LEU:CB	2.34	0.40
3:EB:37:GLN:OE1	3:EB:46:LYS:HD2	2.21	0.40
3:EB:68:ILE:HD11	3:MJ:115:LEU:CD1	2.51	0.40
3:EC:105:ARG:NH2	3:LK:128:LEU:HD12	2.36	0.40
3:ED:112:LEU:HD11	3:EH:92:VAL:HG21	2.04	0.40
3:EG:7:THR:OG1	3:EG:20:VAL:HG22	2.21	0.40
3:EG:88:ALA:CB	3:GC:96:PHE:CE1	3.04	0.40
3:EI:46:LYS:HG2	3:EI:70:ASN:OD1	2.20	0.40
3:EJ:54:GLN:HB3	3:EJ:55:PRO:CD	2.51	0.40
3:EL:21:LEU:N	3:EL:21:LEU:HD22	2.36	0.40
3:EN:99:TYR:CD2	3:FA:81:ASP:OD1	2.74	0.40
3:FA:48:VAL:HG22	3:FA:68:ILE:HG23	2.03	0.40
3:FA:73:ALA:HB1	3:FA:83:SER:O	2.21	0.40
3:FB:24:ARG:HH22	3:LH:127:GLN:HB3	1.85	0.40
3:FD:101:THR:HG22	3:LH:86:ARG:NH2	2.32	0.40
3:FF:3:LEU:HD13	3:FF:23:PRO:HB2	2.02	0.40
3:FF:23:PRO:HA	3:FF:35:LEU:CD2	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FI:111:GLU:N	3:KE:11:ILE:CD1	2.84	0.40
3:FJ:21:LEU:HD13	3:FJ:36:SER:C	2.42	0.40
3:GD:115:LEU:HD23	3:KF:8:LEU:HD21	2.01	0.40
3:GG:105:ARG:NE	3:JE:128:LEU:CD1	2.80	0.40
3:GH:1:ALA:HB3	3:KB:131:ALA:HA	2.03	0.40
3:GH:48:VAL:HG22	3:GH:68:ILE:CD1	2.51	0.40
3:GJ:52:VAL:HG12	3:GJ:64:VAL:CG2	2.35	0.40
3:GL:100:SER:HA	3:HG:86:ARG:NH2	2.35	0.40
3:GM:37:GLN:HB2	3:GM:46:LYS:HE3	2.03	0.40
3:GN:4:GLU:OE1	3:GN:5:THR:O	2.39	0.40
3:GN:94:PHE:N	3:GN:94:PHE:CD1	2.86	0.40
3:HF:69:GLN:HE21	3:HF:87:GLN:HB3	1.85	0.40
3:HF:122:ILE:O	3:HF:126:ASP:HB3	2.21	0.40
3:HH:116:LEU:HD23	3:HH:116:LEU:HA	1.87	0.40
3:HI:115:LEU:HD22	3:II:8:LEU:HG	2.03	0.40
3:HK:118:SER:OG	3:HK:119:PRO:HD2	2.21	0.40
3:IB:2:LYS:CE	3:IK:132:TYR:OXT	2.69	0.40
3:IC:24:ARG:HA	3:JL:129:ASN:OD1	2.21	0.40
3:IE:11:ILE:HD12	3:JL:110:THR:OG1	2.20	0.40
3:IF:59:ARG:HA	3:IF:59:ARG:NE	2.36	0.40
3:IG:49:THR:OG1	3:IG:67:LYS:HB2	2.21	0.40
3:IH:103:GLU:OE1	3:NG:13:LYS:CE	2.68	0.40
3:II:125:ILE:O	3:II:128:LEU:CD1	2.69	0.40
3:IM:110:THR:OG1	3:JM:11:ILE:HD12	2.21	0.40
3:JA:6:VAL:HG12	3:JA:8:LEU:HD22	2.00	0.40
3:JC:60:LYS:CB	3:JC:98:GLN:CG	3.00	0.40
3:JD:37:GLN:CD	3:JD:39:GLY:H	2.24	0.40
3:JE:123:ASP:HB3	3:JE:129:ASN:ND2	2.35	0.40
3:JH:111:GLU:O	3:JH:115:LEU:HG	2.20	0.40
3:JI:94:PHE:CE2	3:LB:125:ILE:HD12	2.55	0.40
3:JK:128:LEU:HD12	3:JK:128:LEU:N	2.36	0.40
3:KB:58:ASN:O	3:KB:59:ARG:NE	2.53	0.40
3:KE:60:LYS:CB	3:KE:61:ASN:HB2	2.51	0.40
3:KI:44:LEU:HD11	3:KI:82:PRO:HB2	2.02	0.40
3:KJ:132:TYR:OXT	3:LE:2:LYS:HD2	2.21	0.40
3:KL:111:GLU:O	3:KL:115:LEU:HD23	2.22	0.40
3:KM:126:ASP:O	3:MF:105:ARG:NH1	2.54	0.40
3:LB:101:THR:HG23	3:LB:104:GLU:H	1.86	0.40
3:LD:115:LEU:HD23	3:LD:115:LEU:HA	1.97	0.40
3:LG:48:VAL:HG22	3:LG:68:ILE:HG12	2.03	0.40
3:LH:19:LEU:HD11	3:LH:37:GLN:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LH:51:SER:HB3	3:LH:65:GLN:HB2	2.02	0.40
3:LL:13:LYS:CE	3:MB:103:GLU:OE1	2.67	0.40
3:LN:32:VAL:HG12	3:LN:51:SER:CB	2.50	0.40
3:MB:120:LEU:HD23	3:MB:120:LEU:C	2.41	0.40
3:MD:27:ASN:OD1	3:MD:27:ASN:C	2.59	0.40
3:MD:41:VAL:CG1	3:MD:42:PRO:HD3	2.51	0.40
3:ME:102:ASP:OD1	3:ME:105:ARG:NH1	2.54	0.40
3:MH:75:THR:HG22	3:MH:82:PRO:HG2	1.99	0.40
3:MI:3:LEU:HB3	3:MI:23:PRO:HB3	2.04	0.40
3:MJ:59:ARG:HA	3:MJ:59:ARG:CZ	2.51	0.40
3:MK:43:ALA:C	3:MK:44:LEU:HD12	2.40	0.40
3:MN:5:THR:HG22	3:MN:23:PRO:HD3	2.02	0.40
3:MN:53:SER:HB3	3:MN:63:LYS:CG	2.51	0.40
3:NB:103:GLU:HA	3:NB:103:GLU:OE1	2.21	0.40
3:NC:55:PRO:HD3	3:NC:62:TYR:CD2	2.56	0.40
3:NC:62:TYR:OH	3:ND:24:ARG:NH2	2.52	0.40
3:NC:121:LEU:HA	3:NC:124:ALA:HB3	2.03	0.40
3:NE:73:ALA:HB1	3:NE:83:SER:O	2.21	0.40
3:NJ:55:PRO:HB2	3:NJ:60:LYS:CD	2.51	0.40
1:A:24:C:C4	1:A:25:U:C5	3.10	0.40
1:A:348:C:H6	1:A:348:C:O5'	2.04	0.40
1:A:435:G:P	3:MM:63:LYS:NZ	2.94	0.40
1:A:481:U:C4	1:A:517:G:N1	2.89	0.40
1:A:1222:A:H2'	1:A:1223:G:C8	2.56	0.40
1:A:1327:U:C5	1:A:1595:C:H1'	2.56	0.40
1:A:1435:A:OP2	1:A:1436:C:OP2	2.39	0.40
1:A:1830:G:C4	1:A:1831:G:C8	3.09	0.40
1:A:1874:U:C5	1:A:2842:G:C2'	3.04	0.40
1:A:2074:A:C2	1:A:2075:U:C4	3.09	0.40
1:A:2242:C:OP1	3:FJ:59:ARG:NH2	2.45	0.40
1:A:2382:C:H6	1:A:2382:C:O5'	2.04	0.40
1:A:2541:G:H2'	1:A:2542:A:N3	2.36	0.40
1:A:2637:U:H2'	1:A:2638:U:C6	2.56	0.40
1:A:2693:C:N4	1:A:2758:C:H42	2.19	0.40
1:A:2711:U:O2'	1:A:2712:U:H6	2.04	0.40
1:A:2875:U:C5	1:A:2878:C:H1'	2.56	0.40
1:A:3015:A:H2'	1:A:3016:U:H6	1.86	0.40
1:A:3025:A:H2'	1:A:3026:A:C8	2.56	0.40
1:A:3096:A:C6	1:A:3119:A:C2	3.09	0.40
1:A:3268:A:H2'	1:A:3269:G:C8	2.57	0.40
1:A:3340:A:O3'	1:A:3341:G:O4'	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3379:U:O3'	1:A:3380:U:H4'	2.20	0.40
1:A:3430:A:C2	1:A:3441:C:O2	2.74	0.40
1:A:3466:G:C6	1:A:3467:G:C5	3.09	0.40
1:A:3570:G:H2'	1:A:3571:U:H6	1.87	0.40
1:A:3589:G:C6	1:A:3590:U:C5	3.09	0.40
1:A:3838:A:C2	1:A:3839:C:C2	3.10	0.40
1:A:4131:G:P	3:FI:59:ARG:NH2	2.94	0.40
2:M:270:ARG:HH12	2:M:353:ARG:HG3	1.86	0.40
2:M:333:GLN:O	2:M:336:GLN:HG3	2.21	0.40
3:BA:13:LYS:HB2	3:BA:13:LYS:HE2	1.89	0.40
3:BA:99:TYR:O	3:MK:86:ARG:CZ	2.69	0.40
3:BD:11:ILE:HD11	3:JB:111:GLU:CA	2.51	0.40
3:BD:120:LEU:HD22	3:BD:120:LEU:N	2.36	0.40
3:BE:28:PRO:HB3	3:IN:132:TYR:CE1	2.56	0.40
3:BH:1:ALA:O	3:IL:131:ALA:HA	2.20	0.40
3:BH:101:THR:CG2	3:BH:104:GLU:HG2	2.51	0.40
3:BJ:86:ARG:NH2	3:BN:100:SER:CA	2.84	0.40
3:BJ:129:ASN:HA	3:CA:24:ARG:HH11	1.87	0.40
3:CB:24:ARG:HA	3:HA:129:ASN:CG	2.42	0.40
3:CH:14:ASP:OD1	3:CH:14:ASP:N	2.52	0.40
3:CI:30:ASN:CG	3:CI:32:VAL:HG23	2.41	0.40
3:CJ:129:ASN:ND2	3:HH:24:ARG:HA	2.36	0.40
3:CJ:129:ASN:ND2	3:HJ:1:ALA:H1	2.19	0.40
3:CK:109:ARG:HD2	3:NC:116:LEU:O	2.21	0.40
3:CN:59:ARG:CB	3:CN:63:LYS:HZ1	2.34	0.40
3:DA:62:TYR:HE2	3:DB:42:PRO:HB3	1.86	0.40
3:DA:91:ASP:O	3:MM:92:VAL:HA	2.21	0.40
3:DA:128:LEU:HD12	3:DA:128:LEU:N	2.36	0.40
3:DB:13:LYS:NZ	3:DK:103:GLU:N	2.69	0.40
3:DB:103:GLU:N	3:DK:13:LYS:NZ	2.69	0.40
3:DD:75:THR:HG23	3:DD:82:PRO:HG3	2.03	0.40
3:DF:35:LEU:N	3:DF:35:LEU:HD12	2.36	0.40
3:DJ:59:ARG:O	3:DJ:60:LYS:HG3	2.21	0.40
3:EA:92:VAL:HA	3:LM:91:ASP:O	2.21	0.40
3:ED:42:PRO:HA	3:ED:45:GLU:HB2	2.02	0.40
3:ED:116:LEU:HD23	3:ED:116:LEU:C	2.41	0.40
3:EE:94:PHE:HB3	3:EE:96:PHE:CE1	2.55	0.40
3:EF:23:PRO:O	3:LI:130:PRO:HD2	2.21	0.40
3:EG:81:ASP:O	3:EG:81:ASP:OD1	2.39	0.40
3:EI:3:LEU:HD13	3:GA:132:TYR:CA	2.51	0.40
3:EJ:52:VAL:O	3:EJ:52:VAL:CG2	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FB:115:LEU:O	3:FB:121:LEU:HD12	2.21	0.40
3:FC:75:THR:HA	3:FC:82:PRO:HB3	2.04	0.40
3:FD:107:PHE:CD1	3:LH:12:GLY:HA2	2.56	0.40
3:FD:123:ASP:CB	3:LH:1:ALA:HB2	2.51	0.40
3:FE:44:LEU:CB	3:FG:62:TYR:OH	2.69	0.40
3:FE:62:TYR:HD2	3:KI:128:LEU:CD2	2.33	0.40
3:FF:8:LEU:CD1	3:LF:114:ALA:HB1	2.44	0.40
3:FG:114:ALA:C	3:KG:8:LEU:HD11	2.42	0.40
3:FH:68:ILE:HD11	3:FK:115:LEU:HD12	2.02	0.40
3:GC:61:ASN:OD1	3:GC:61:ASN:O	2.39	0.40
3:GD:71:PRO:HB3	3:GD:87:GLN:OE1	2.20	0.40
3:GE:121:LEU:HD22	3:HE:66:VAL:HG21	2.02	0.40
3:GH:116:LEU:HD21	3:KB:112:LEU:CD2	2.41	0.40
3:GJ:130:PRO:HD3	3:GN:52:VAL:HG11	2.03	0.40
3:GL:109:ARG:NH1	3:HG:122:ILE:HG23	2.33	0.40
3:HF:11:ILE:CG2	3:HF:17:GLN:HB2	2.50	0.40
3:HN:90:ALA:O	3:HN:91:ASP:OD2	2.39	0.40
3:IB:8:LEU:HD23	3:IB:8:LEU:HA	1.90	0.40
3:IB:115:LEU:C	3:IB:121:LEU:HD12	2.42	0.40
3:IE:24:ARG:HE	3:IE:36:SER:HB3	1.86	0.40
3:IE:55:PRO:HB3	3:IE:60:LYS:HG3	2.03	0.40
3:IE:100:SER:HA	3:JL:86:ARG:NH1	2.36	0.40
3:IF:61:ASN:OD1	3:IF:61:ASN:C	2.59	0.40
3:IF:70:ASN:OD1	3:IF:88:ALA:O	2.38	0.40
3:IH:50:VAL:O	3:IH:50:VAL:HG13	2.21	0.40
3:IM:4:GLU:OE1	3:IM:5:THR:N	2.54	0.40
3:IM:8:LEU:HD12	3:JM:114:ALA:HB1	1.97	0.40
3:IM:132:TYR:CD1	3:JF:132:TYR:CE2	3.10	0.40
3:IN:60:LYS:O	3:IN:61:ASN:C	2.58	0.40
3:JA:27:ASN:O	3:JA:31:GLY:N	2.54	0.40
3:JB:17:GLN:N	3:JB:17:GLN:CD	2.75	0.40
3:JC:84:VAL:HG13	3:JC:84:VAL:O	2.21	0.40
3:JD:81:ASP:OD2	3:JF:99:TYR:CE1	2.74	0.40
3:JE:37:GLN:OE1	3:JE:38:ALA:O	2.39	0.40
3:JE:102:ASP:N	3:JE:105:ARG:NH2	2.70	0.40
3:JG:121:LEU:O	3:JG:125:ILE:HG22	2.22	0.40
3:JI:52:VAL:CG2	3:LB:130:PRO:HB3	2.51	0.40
3:JI:98:GLN:OE1	3:JI:99:TYR:CE1	2.75	0.40
3:JJ:102:ASP:N	3:JJ:105:ARG:NH2	2.69	0.40
3:JM:58:ASN:OD1	3:JM:59:ARG:HD2	2.22	0.40
3:JM:99:TYR:HH	3:JN:83:SER:CB	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JN:14:ASP:OD1	3:JN:14:ASP:N	2.54	0.40
3:KA:60:LYS:HG2	3:KA:98:GLN:HB2	2.02	0.40
3:KB:27:ASN:HB3	3:KB:30:ASN:OD1	2.21	0.40
3:KC:11:ILE:CG2	3:KC:17:GLN:HB2	2.52	0.40
3:KD:55:PRO:HG3	3:KD:62:TYR:CZ	2.56	0.40
3:KE:131:ALA:O	3:KE:132:TYR:CD1	2.74	0.40
3:KH:120:LEU:HD13	3:KL:6:VAL:HG21	2.03	0.40
3:KJ:13:LYS:CE	3:LE:103:GLU:HA	2.51	0.40
3:KM:13:LYS:NZ	3:MF:102:ASP:OD1	2.49	0.40
3:LC:61:ASN:HA	3:LC:96:PHE:O	2.20	0.40
3:LD:3:LEU:HD23	3:LD:3:LEU:N	2.36	0.40
3:LH:22:ASN:ND2	3:MG:129:ASN:HB3	2.35	0.40
3:LL:52:VAL:O	3:LL:52:VAL:CG1	2.69	0.40
3:LL:109:ARG:NH2	3:MB:122:ILE:CD1	2.84	0.40
3:LM:76:ALA:O	3:LM:78:GLY:N	2.49	0.40
3:LN:100:SER:HA	3:MI:86:ARG:CZ	2.52	0.40
3:MA:24:ARG:HB3	3:MA:34:SER:O	2.21	0.40
3:MC:52:VAL:CG1	3:NJ:130:PRO:HA	2.51	0.40
3:MC:105:ARG:CZ	3:NJ:126:ASP:C	2.89	0.40
3:MH:55:PRO:HD3	3:MH:62:TYR:CG	2.56	0.40
3:MJ:55:PRO:HD3	3:MJ:62:TYR:CE2	2.56	0.40
3:MK:93:THR:OG1	3:MK:93:THR:O	2.39	0.40
3:NF:39:GLY:HA3	3:NF:45:GLU:OE2	2.21	0.40
3:NG:120:LEU:O	3:NG:123:ASP:OD1	2.39	0.40
3:NH:3:LEU:HD21	3:NJ:2:LYS:HD3	2.03	0.40
1:A:240:C:P	1:A:241:C:HO2'	2.45	0.40
1:A:448:A:H2'	1:A:449:A:H8	1.86	0.40
1:A:761:G:O2'	1:A:762:C:P	2.74	0.40
1:A:995:C:O2'	1:A:996:U:H5'	2.21	0.40
1:A:1094:U:H2'	1:A:1095:A:H8	1.86	0.40
1:A:1126:A:N1	1:A:1127:A:N6	2.69	0.40
1:A:1135:A:C6	1:A:1147:G:N1	2.89	0.40
1:A:1312:G:O2'	1:A:1313:U:O5'	2.39	0.40
1:A:1909:U:H2'	1:A:2006:U:O4	2.20	0.40
1:A:2003:U:H2'	1:A:2004:A:O4'	2.20	0.40
1:A:2012:C:O2	1:A:2013:A:N7	2.54	0.40
1:A:2039:U:O3'	1:A:2040:U:O4'	2.39	0.40
1:A:2184:C:C2'	1:A:2189:C:OP2	2.69	0.40
1:A:2191:A:C6	1:A:2192:U:C4	3.08	0.40
1:A:2304:C:H3'	1:A:2304:C:P	2.62	0.40
1:A:2326:G:H2'	1:A:2327:U:O4'	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2337:C:C3’	3:HB:57:ARG:HH12	2.34	0.40
1:A:2382:C:H5”	1:A:2383:U:OP2	2.21	0.40
1:A:2418:A:H1’	1:A:4085:C:O2’	2.20	0.40
1:A:2527:U:H2’	1:A:2528:C:O4’	2.21	0.40
1:A:2633:G:O2’	3:GC:67:LYS:CE	2.67	0.40
1:A:2700:G:C6	1:A:2717:A:N1	2.90	0.40
1:A:2753:A:C2	1:A:2812:U:N3	2.89	0.40
1:A:2860:C:H2’	1:A:2861:C:C6	2.57	0.40
1:A:3130:G:H2’	1:A:3131:C:C6	2.56	0.40
1:A:3173:U:C2	1:A:3174:C:C6	3.09	0.40
1:A:3302:C:N4	1:A:3318:A:H61	2.20	0.40
1:A:3335:A:O2’	1:A:3336:U:H5’	2.21	0.40
1:A:3392:G:C2	1:A:3393:G:N1	2.89	0.40
1:A:3456:C:H2’	1:A:3457:C:C6	2.57	0.40
1:A:3499:A:C6	1:A:3500:U:C4	3.09	0.40
1:A:3577:C:H2’	1:A:3578:C:O4’	2.22	0.40
1:A:3613:A:C2	1:A:3642:C:C2	3.08	0.40
1:A:3680:C:H2’	1:A:3681:C:C6	2.57	0.40
1:A:3706:A:H2’	1:A:3707:G:O4’	2.22	0.40
1:A:3808:G:H4’	3:KH:60:LYS:HA	2.02	0.40
1:A:3963:C:N4	1:A:3964:U:C5	2.90	0.40
1:A:4070:A:O2’	1:A:4071:C:H5’	2.22	0.40
1:A:4082:C:C2	1:A:4083:U:H5	2.38	0.40
1:A:4144:G:C4	1:A:4145:C:C5	3.09	0.40
1:A:4197:G:C2’	1:A:4198:C:O5’	2.70	0.40
3:BC:102:ASP:O	3:ND:13:LYS:CE	2.69	0.40
3:BD:109:ARG:CZ	3:JB:122:ILE:HD13	2.52	0.40
3:BE:109:ARG:HE	3:BE:110:THR:CG2	2.34	0.40
3:BF:116:LEU:HD12	3:IN:109:ARG:HG3	2.03	0.40
3:BG:60:LYS:CB	3:BG:61:ASN:HB2	2.47	0.40
3:BK:54:GLN:HB2	3:BK:55:PRO:HD2	2.03	0.40
3:BK:94:PHE:CE1	3:HK:125:ILE:HD11	2.56	0.40
3:BL:6:VAL:CG1	3:BL:8:LEU:HD21	2.47	0.40
3:BM:105:ARG:CZ	3:DJ:128:LEU:HD11	2.51	0.40
3:CB:11:ILE:HD12	3:HC:110:THR:HB	2.03	0.40
3:CC:54:GLN:NE2	3:CC:55:PRO:O	2.54	0.40
3:CE:60:LYS:HB2	3:CE:61:ASN:HB3	2.01	0.40
3:CH:23:PRO:HA	3:CH:35:LEU:HD13	2.02	0.40
3:CI:72:THR:HG21	3:CI:86:ARG:NH2	2.37	0.40
3:CL:24:ARG:HH22	3:NC:128:LEU:C	2.25	0.40
3:CL:97:THR:N	3:CL:100:SER:HG	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DA:11:ILE:CG2	3:DA:17:GLN:HB2	2.51	0.40
3:DE:86:ARG:HH12	3:EL:99:TYR:HB3	1.86	0.40
3:DE:129:ASN:ND2	3:EL:1:ALA:N	2.70	0.40
3:DE:131:ALA:HB1	3:EL:3:LEU:HD21	2.04	0.40
3:DE:132:TYR:CZ	3:EK:28:PRO:HB3	2.56	0.40
3:DF:49:THR:OG1	3:DF:67:LYS:HB2	2.21	0.40
3:DF:52:VAL:HG23	3:DF:64:VAL:CG2	2.50	0.40
3:DF:58:ASN:CG	3:DF:59:ARG:HH11	2.25	0.40
3:DG:54:GLN:CD	3:DG:54:GLN:C	2.80	0.40
3:DG:63:LYS:HB3	3:DG:63:LYS:HE2	1.92	0.40
3:DM:106:ALA:CA	3:EM:126:ASP:OD1	2.69	0.40
3:EE:74:CYS:HB3	3:LJ:80:CYS:HB2	1.82	0.40
3:EE:105:ARG:HD3	3:LI:125:ILE:O	2.21	0.40
3:EG:6:VAL:O	3:EG:6:VAL:HG23	2.21	0.40
3:EG:102:ASP:OD2	3:GC:126:ASP:OD1	2.39	0.40
3:EK:8:LEU:CD1	3:FM:114:ALA:CB	2.99	0.40
3:EL:117:ALA:O	3:EL:122:ILE:HD11	2.21	0.40
3:EM:41:VAL:N	3:EM:42:PRO:CD	2.84	0.40
3:EM:127:GLN:N	3:EM:127:GLN:CD	2.75	0.40
3:EN:57:ARG:HG3	3:EN:58:ASN:OD1	2.21	0.40
3:FA:55:PRO:HG3	3:FA:62:TYR:CE1	2.56	0.40
3:FD:53:SER:HB2	3:FD:63:LYS:HG3	2.03	0.40
3:FI:105:ARG:NH1	3:KE:125:ILE:C	2.72	0.40
3:FJ:47:ARG:NH1	3:FJ:47:ARG:HB3	2.36	0.40
3:FM:55:PRO:HD3	3:FM:62:TYR:CG	2.56	0.40
3:FM:55:PRO:HD3	3:FM:62:TYR:CD2	2.56	0.40
3:FN:72:THR:HB	3:FN:86:ARG:HB3	2.04	0.40
3:GD:90:ALA:CB	3:KF:94:PHE:CD1	3.04	0.40
3:GE:27:ASN:OD1	3:GE:30:ASN:OD1	2.39	0.40
3:GH:8:LEU:HD23	3:GH:8:LEU:HA	1.89	0.40
3:GI:3:LEU:HD23	3:JC:132:TYR:N	2.36	0.40
3:GI:13:LYS:HE2	3:JC:103:GLU:HA	2.03	0.40
3:GI:118:SER:OG	3:GI:119:PRO:HD2	2.22	0.40
3:GJ:13:LYS:NZ	3:GN:103:GLU:HA	2.37	0.40
3:GJ:30:ASN:N	3:GJ:30:ASN:OD1	2.54	0.40
3:GJ:54:GLN:N	3:GJ:54:GLN:CD	2.72	0.40
3:GJ:118:SER:OG	3:GJ:119:PRO:HD2	2.21	0.40
3:GN:32:VAL:HA	3:GN:51:SER:HG	1.87	0.40
3:GN:55:PRO:HB2	3:GN:60:LYS:HA	2.01	0.40
3:HH:81:ASP:OD1	3:HJ:99:TYR:CE1	2.74	0.40
3:HH:102:ASP:N	3:HH:105:ARG:NH2	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HI:107:PHE:C	3:HI:111:GLU:OE1	2.60	0.40
3:ID:21:LEU:HD12	3:ID:36:SER:C	2.41	0.40
3:ID:75:THR:O	3:ID:75:THR:HG23	2.21	0.40
3:IE:8:LEU:CD1	3:IE:8:LEU:N	2.83	0.40
3:IE:107:PHE:CZ	3:IE:111:GLU:OE2	2.75	0.40
3:IG:104:GLU:OE2	3:JJ:72:THR:OG1	2.35	0.40
3:IL:99:TYR:CE1	3:IM:83:SER:HA	2.57	0.40
3:JD:18:THR:O	3:JD:19:LEU:HD22	2.22	0.40
3:JI:125:ILE:HG23	3:JI:126:ASP:OD1	2.22	0.40
3:JJ:109:ARG:HG3	3:JJ:110:THR:HG23	2.04	0.40
3:JN:78:GLY:O	3:JN:80:CYS:N	2.50	0.40
3:KE:42:PRO:HA	3:KE:45:GLU:HB2	2.04	0.40
3:KG:55:PRO:CA	3:KG:60:LYS:O	2.69	0.40
3:KG:75:THR:OG1	3:KG:82:PRO:HB3	2.21	0.40
3:KH:59:ARG:C	3:KH:60:LYS:HD3	2.42	0.40
3:KH:92:VAL:CG1	3:KH:94:PHE:CE1	3.03	0.40
3:KH:112:LEU:HD11	3:KL:92:VAL:HG21	2.03	0.40
3:KI:24:ARG:CZ	3:KL:127:GLN:O	2.70	0.40
3:KK:86:ARG:CZ	3:MH:99:TYR:C	2.90	0.40
3:KM:97:THR:CG2	3:MF:86:ARG:HH21	2.34	0.40
3:KM:126:ASP:OD1	3:MF:109:ARG:HD2	2.21	0.40
3:LD:84:VAL:O	3:LD:84:VAL:HG23	2.21	0.40
3:LK:49:THR:HB	3:LK:67:LYS:HB2	2.04	0.40
3:LK:65:GLN:OE1	3:LK:65:GLN:N	2.54	0.40
3:LL:55:PRO:HD3	3:LL:62:TYR:CD2	2.56	0.40
3:LN:103:GLU:HA	3:MI:13:LYS:HZ3	1.87	0.40
3:MC:60:LYS:O	3:MC:61:ASN:C	2.59	0.40
3:MC:108:VAL:HG22	3:NJ:70:ASN:OD1	2.21	0.40
3:MC:126:ASP:OD2	3:NJ:109:ARG:CZ	2.67	0.40
3:MD:106:ALA:O	3:MD:109:ARG:HB3	2.21	0.40
3:ME:19:LEU:HD12	3:ME:20:VAL:H	1.86	0.40
3:MG:11:ILE:HG23	3:MG:17:GLN:HG2	2.03	0.40
3:MI:52:VAL:O	3:MI:52:VAL:CG1	2.69	0.40
3:MM:54:GLN:O	3:MM:59:ARG:NH1	2.39	0.40
3:MN:76:ALA:O	3:MN:78:GLY:N	2.48	0.40
3:NA:97:THR:N	3:NA:100:SER:HG	2.19	0.40
3:NA:112:LEU:O	3:NA:116:LEU:CD1	2.65	0.40
3:NF:121:LEU:HA	3:NF:124:ALA:HB3	2.03	0.40
3:NI:65:GLN:OE1	3:NI:65:GLN:HA	2.21	0.40
3:NI:100:SER:CB	3:NI:105:ARG:NH1	2.83	0.40
3:NI:121:LEU:HA	3:NI:124:ALA:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:87:U:C4	1:A:88:U:C5	3.09	0.40
1:A:130:U:O2	1:A:131:G:C8	2.74	0.40
1:A:544:G:H2'	1:A:545:G:H8	1.85	0.40
1:A:891:U:H2'	1:A:892:U:C6	2.56	0.40
1:A:965:C:H2'	1:A:966:C:H6	1.85	0.40
1:A:965:C:H2'	1:A:966:C:O4'	2.21	0.40
1:A:966:C:C2	1:A:967:A:C8	3.10	0.40
1:A:987:U:H5'	1:A:3194:U:H5"	2.03	0.40
1:A:1120:C:OP1	1:A:1154:A:H5"	2.21	0.40
1:A:1321:U:C2	1:A:1322:G:N7	2.90	0.40
1:A:1397:A:N1	1:A:1545:A:N1	2.69	0.40
1:A:1403:G:C6	1:A:1404:G:C6	3.09	0.40
1:A:1566:U:H2'	1:A:1567:G:C8	2.56	0.40
1:A:1598:U:H2'	1:A:1599:A:C8	2.56	0.40
1:A:1691:G:H5"	1:A:1692:C:OP2	2.21	0.40
1:A:1711:U:H2'	1:A:1712:C:C6	2.56	0.40
1:A:1730:G:H2'	1:A:1731:A:C8	2.56	0.40
1:A:1755:A:H3'	1:A:1756:U:H5"	2.03	0.40
1:A:1782:C:N3	1:A:1783:C:C5	2.90	0.40
1:A:1798:C:H2'	1:A:1799:G:H8	1.86	0.40
1:A:1999:G:H2'	1:A:2000:G:C8	2.56	0.40
1:A:2031:G:C2	1:A:2130:U:O2	2.75	0.40
1:A:2033:C:H2'	1:A:2034:A:O4'	2.21	0.40
1:A:2155:A:H2'	1:A:2155:A:N3	2.36	0.40
1:A:2314:U:H2'	1:A:2315:A:O4'	2.22	0.40
1:A:2357:U:H3'	1:A:2358:A:C8	2.56	0.40
1:A:2357:U:HO2'	1:A:2358:A:P	2.41	0.40
1:A:2389:C:N4	1:A:2390:A:N6	2.70	0.40
1:A:2528:C:H2'	1:A:2529:G:O4'	2.21	0.40
1:A:2538:C:N4	1:A:2573:G:N1	2.69	0.40
1:A:2573:G:H8	1:A:2573:G:O5'	2.04	0.40
1:A:2673:G:HO2'	1:A:2674:C:P	2.43	0.40
1:A:2678:U:H2'	1:A:2679:C:O4'	2.21	0.40
1:A:2739:A:H2'	1:A:2740:U:C6	2.57	0.40
1:A:2879:G:C8	1:A:2880:C:H5	2.40	0.40
1:A:3012:U:C4	1:A:3073:G:N2	2.85	0.40
1:A:3034:G:OP1	3:BB:58:ASN:HB2	2.21	0.40
1:A:3093:G:O3'	1:A:3094:G:O4'	2.40	0.40
1:A:3110:U:H3'	1:A:3111:C:C6	2.56	0.40
1:A:3120:A:H8	1:A:3120:A:P	2.45	0.40
1:A:3170:U:H5"	1:A:3171:G:N7	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3367:U:P	1:A:3368:C:OP2	2.80	0.40
1:A:3393:G:O3'	1:A:3394:A:O4'	2.39	0.40
1:A:3433:U:H2'	1:A:3434:U:C6	2.57	0.40
1:A:3535:A:H2	1:A:3557:U:O4	2.05	0.40
1:A:3923:G:C6	1:A:3924:U:C4	3.10	0.40
1:A:3949:G:N1	1:A:4049:G:C2	2.90	0.40
1:A:4050:U:O4	1:A:4051:G:O6	2.39	0.40
1:A:4206:U:C2	1:A:4207:C:C5	3.10	0.40
1:A:4216:C:H2'	1:A:4217:A:C8	2.56	0.40
3:BA:111:GLU:OE2	3:MK:68:ILE:HG21	2.22	0.40
3:BB:99:TYR:CD1	3:BB:99:TYR:N	2.88	0.40
3:BC:111:GLU:OE1	3:ND:68:ILE:HD13	2.22	0.40
3:BE:47:ARG:HB2	3:BE:47:ARG:CZ	2.52	0.40
3:BJ:66:VAL:O	3:BJ:91:ASP:OD1	2.39	0.40
3:BM:99:TYR:OH	3:BN:83:SER:HA	2.21	0.40
3:CA:32:VAL:HG12	3:CA:51:SER:HB3	2.03	0.40
3:CA:116:LEU:HD11	3:DH:112:LEU:HB3	2.02	0.40
3:CD:13:LYS:HE2	3:HA:103:GLU:HA	2.03	0.40
3:CG:11:ILE:CG2	3:CG:17:GLN:HG2	2.51	0.40
3:CK:131:ALA:C	3:CK:132:TYR:CD1	2.95	0.40
3:CL:2:LYS:HE3	3:CM:4:GLU:OE1	2.21	0.40
3:CL:3:LEU:HD22	3:HH:131:ALA:HB1	2.03	0.40
3:CL:39:GLY:N	3:CL:45:GLU:OE2	2.54	0.40
3:CM:60:LYS:O	3:CM:61:ASN:C	2.60	0.40
3:CN:81:ASP:OD1	3:DB:99:TYR:CE2	2.73	0.40
3:DA:94:PHE:CD2	3:MM:125:ILE:HD11	2.57	0.40
3:DA:115:LEU:HD22	3:MM:8:LEU:HD11	2.04	0.40
3:DB:130:PRO:HA	3:DK:52:VAL:HG12	2.03	0.40
3:DE:62:TYR:CD2	3:EL:128:LEU:HD22	2.57	0.40
3:DE:103:GLU:HA	3:EL:13:LYS:HZ3	1.86	0.40
3:DG:109:ARG:HH11	3:EJ:122:ILE:HD12	1.87	0.40
3:DN:54:GLN:HB3	3:DN:55:PRO:CD	2.52	0.40
3:DN:115:LEU:C	3:DN:121:LEU:HD12	2.41	0.40
3:DN:117:ALA:O	3:DN:122:ILE:HD11	2.21	0.40
3:EA:49:THR:OG1	3:EA:67:LYS:HB2	2.21	0.40
3:EB:54:GLN:CD	3:EB:55:PRO:HD2	2.42	0.40
3:EC:108:VAL:HA	3:EC:111:GLU:OE1	2.22	0.40
3:ED:114:ALA:CB	3:EH:8:LEU:CD1	2.94	0.40
3:ED:114:ALA:C	3:EH:8:LEU:HD11	2.41	0.40
3:EE:106:ALA:HB2	3:LI:126:ASP:OD1	2.22	0.40
3:EE:115:LEU:O	3:EE:121:LEU:HD12	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EG:13:LYS:HG3	3:GC:106:ALA:HB3	2.03	0.40
3:EH:45:GLU:OE1	3:EH:45:GLU:N	2.55	0.40
3:EI:128:LEU:CD1	3:GA:105:ARG:NH1	2.85	0.40
3:EK:122:ILE:HA	3:FM:109:ARG:NH2	2.35	0.40
3:EL:97:THR:HG23	3:EL:99:TYR:H	1.85	0.40
3:FB:129:ASN:OD1	3:LK:24:ARG:NH1	2.54	0.40
3:FC:62:TYR:OH	3:FC:64:VAL:HG22	2.22	0.40
3:FG:21:LEU:HD11	3:FG:48:VAL:HG21	2.02	0.40
3:FJ:109:ARG:HE	3:HF:125:ILE:HG13	1.86	0.40
3:GD:25:GLY:HA3	3:KD:130:PRO:HG2	2.03	0.40
3:GE:78:GLY:HA3	3:KF:77:ASN:ND2	2.37	0.40
3:GI:101:THR:O	3:GI:105:ARG:HG3	2.21	0.40
3:GI:132:TYR:C	3:JC:3:LEU:HD23	2.42	0.40
3:GK:5:THR:HA	3:GK:23:PRO:HD3	2.03	0.40
3:GK:122:ILE:O	3:GK:126:ASP:HB2	2.21	0.40
3:GL:131:ALA:CB	3:HG:3:LEU:HD21	2.46	0.40
3:HB:27:ASN:CG	3:HB:29:THR:HG1	2.22	0.40
3:HB:72:THR:HG21	3:HB:86:ARG:HH21	1.84	0.40
3:HC:101:THR:OG1	3:HC:104:GLU:HG2	2.21	0.40
3:HD:127:GLN:HB2	3:HD:129:ASN:OD1	2.21	0.40
3:HE:58:ASN:N	3:HE:58:ASN:OD1	2.53	0.40
3:HM:6:VAL:HG12	3:HM:8:LEU:HD22	2.04	0.40
3:HN:100:SER:HA	3:ID:86:ARG:HH21	1.86	0.40
3:HN:109:ARG:HG3	3:ID:116:LEU:HD12	2.04	0.40
3:IH:11:ILE:HD12	3:NG:110:THR:OG1	2.21	0.40
3:II:13:LYS:CD	3:II:13:LYS:N	2.85	0.40
3:IJ:37:GLN:O	3:IJ:45:GLU:CD	2.60	0.40
3:IJ:128:LEU:HD23	3:NE:62:TYR:CD2	2.56	0.40
3:IK:27:ASN:OD1	3:IK:29:THR:N	2.43	0.40
3:IL:109:ARG:HE	3:IL:110:THR:HG23	1.86	0.40
3:IM:8:LEU:HD22	3:IM:8:LEU:N	2.36	0.40
3:IM:97:THR:O	3:IM:100:SER:OG	2.28	0.40
3:IN:126:ASP:HB3	3:IN:127:GLN:NE2	2.37	0.40
3:JA:55:PRO:HD3	3:JA:62:TYR:CE2	2.56	0.40
3:JB:3:LEU:CD1	3:JB:35:LEU:HD21	2.50	0.40
3:JE:79:SER:O	3:JE:80:CYS:CB	2.70	0.40
3:JF:27:ASN:OD1	3:JF:27:ASN:C	2.60	0.40
3:JI:34:SER:C	3:JI:35:LEU:HD12	2.42	0.40
3:JK:62:TYR:CD2	3:KN:128:LEU:CD2	3.04	0.40
3:JK:105:ARG:CD	3:KN:128:LEU:HD11	2.52	0.40
3:JK:119:PRO:HA	3:JK:122:ILE:CG1	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KA:127:GLN:HB2	3:KA:129:ASN:ND2	2.36	0.40
3:KB:51:SER:OG	3:KB:65:GLN:HB2	2.21	0.40
3:KD:30:ASN:HB2	3:KD:32:VAL:HG12	2.04	0.40
3:KF:72:THR:CB	3:KF:86:ARG:HB2	2.47	0.40
3:KG:68:ILE:HD12	3:KG:68:ILE:N	2.35	0.40
3:KH:11:ILE:CD1	3:KL:111:GLU:N	2.84	0.40
3:KI:37:GLN:O	3:KI:45:GLU:OE2	2.40	0.40
3:KI:79:SER:HA	3:KL:76:ALA:HA	2.02	0.40
3:KK:68:ILE:HD11	3:MH:115:LEU:HD12	2.03	0.40
3:KM:55:PRO:HB3	3:KM:60:LYS:HD2	2.02	0.40
3:KN:55:PRO:HD3	3:KN:62:TYR:CE2	2.57	0.40
3:LB:54:GLN:HB3	3:LB:55:PRO:HD2	2.02	0.40
3:LC:58:ASN:OD1	3:LC:59:ARG:HG2	2.21	0.40
3:LC:71:PRO:HB3	3:LC:87:GLN:NE2	2.37	0.40
3:LG:72:THR:CG2	3:LG:86:ARG:HB3	2.52	0.40
3:LG:126:ASP:HA	3:MG:105:ARG:HE	1.86	0.40
3:LI:49:THR:OG1	3:LI:67:LYS:CG	2.70	0.40
3:LN:109:ARG:HH22	3:MI:122:ILE:HA	1.86	0.40
3:MA:27:ASN:ND2	3:MA:30:ASN:OD1	2.54	0.40
3:MC:130:PRO:CD	3:NH:25:GLY:HA3	2.47	0.40
3:MH:19:LEU:HG	3:MH:21:LEU:CD1	2.52	0.40
3:ML:112:LEU:O	3:ML:116:LEU:CD1	2.69	0.40
3:NB:119:PRO:O	3:NB:122:ILE:CG2	2.69	0.40
3:ND:48:VAL:HG23	3:ND:48:VAL:O	2.21	0.40
3:NI:112:LEU:HD23	3:NI:112:LEU:C	2.42	0.40
1:A:243:G:C6	1:A:244:G:C6	3.09	0.40
1:A:522:G:C2	1:A:548:U:O2	2.75	0.40
1:A:714:C:H2'	1:A:715:A:H5'	2.04	0.40
1:A:739:A:O2'	1:A:740:A:C8	2.70	0.40
1:A:940:C:O2	1:A:1239:U:C4	2.75	0.40
1:A:941:C:H4'	1:A:1240:A:H2	1.87	0.40
1:A:963:U:C2	1:A:964:G:N7	2.89	0.40
1:A:1032:G:H2'	1:A:1033:U:C5	2.57	0.40
1:A:1186:U:H2'	1:A:1187:C:H6	1.86	0.40
1:A:1217:A:OP2	1:A:1218:U:H5	2.05	0.40
1:A:1499:G:C4	1:A:1500:G:N7	2.89	0.40
1:A:1594:C:O2	1:A:1594:C:H2'	2.21	0.40
1:A:1856:U:O4	1:A:2019:C:C5	2.75	0.40
1:A:2039:U:C5'	1:A:2040:U:OP2	2.69	0.40
1:A:2278:A:N1	1:A:2309:C:O2	2.54	0.40
1:A:2336:A:OP2	1:A:2337:C:C5	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2385:A:C4	1:A:2401:G:C2	3.10	0.40
1:A:2454:A:N1	1:A:2468:G:C6	2.89	0.40
1:A:2493:U:C4	1:A:2494:C:N4	2.90	0.40
1:A:2531:C:C2	1:A:2532:G:C8	3.10	0.40
1:A:2691:G:N1	1:A:2760:A:N6	2.69	0.40
1:A:2696:C:P	1:A:2810:A:H5"	2.60	0.40
1:A:2743:C:C2	1:A:2744:U:C5	3.09	0.40
1:A:2794:U:H2'	1:A:2795:G:C8	2.57	0.40
1:A:2921:C:OP1	3:FM:55:PRO:O	2.39	0.40
1:A:3000:A:C2	1:A:3003:A:N6	2.89	0.40
1:A:3085:G:C6	1:A:3130:G:C6	3.09	0.40
1:A:3095:U:O4	1:A:3096:A:N6	2.55	0.40
1:A:3365:U:H2'	1:A:3366:C:O4'	2.21	0.40
1:A:3597:A:C2	1:A:3598:U:C2	3.09	0.40
1:A:3771:G:H5'	3:LH:49:THR:CG2	2.50	0.40
1:A:3797:G:N2	1:A:3805:G:N2	2.69	0.40
1:A:3832:U:O2'	1:A:3833:U:H5'	2.20	0.40
1:A:3835:C:OP1	1:A:3836:G:OP2	2.39	0.40
1:A:3840:C:H5'	1:A:3841:A:OP1	2.22	0.40
1:A:3991:G:H4'	3:KN:59:ARG:CZ	2.51	0.40
1:A:4128:A:H2'	1:A:4129:G:O4'	2.21	0.40
1:A:4161:U:C5	1:A:4162:U:C2	3.10	0.40
1:A:4163:A:C5	1:A:4164:U:C5	3.09	0.40
1:A:4196:U:N3	3:EG:130:PRO:HD2	2.36	0.40
3:B:46:LYS:HG2	3:B:70:ASN:HA	2.03	0.40
3:D:37:GLN:CD	3:D:38:ALA:N	2.75	0.40
3:D:128:LEU:O	3:D:128:LEU:HG	2.21	0.40
3:BC:52:VAL:CG2	3:BC:64:VAL:HG22	2.51	0.40
3:BH:122:ILE:CG1	3:IL:109:ARG:HH12	2.35	0.40
3:BI:112:LEU:HD11	3:HM:92:VAL:HG21	2.03	0.40
3:BJ:131:ALA:HA	3:BN:1:ALA:O	2.21	0.40
3:CA:19:LEU:HD23	3:DH:111:GLU:OE2	2.22	0.40
3:CE:52:VAL:HG12	3:CE:64:VAL:HG13	2.02	0.40
3:CF:75:THR:HG22	3:CF:82:PRO:CG	2.52	0.40
3:CH:13:LYS:HE3	3:HL:103:GLU:HA	2.03	0.40
3:CH:77:ASN:ND2	3:HM:77:ASN:OD1	2.43	0.40
3:CH:111:GLU:CA	3:HL:11:ILE:HD11	2.51	0.40
3:CK:11:ILE:HD11	3:NC:111:GLU:CA	2.52	0.40
3:CM:52:VAL:CG2	3:NA:130:PRO:HA	2.51	0.40
3:CN:130:PRO:HB2	3:CN:132:TYR:CD2	2.56	0.40
3:DB:2:LYS:NZ	3:DD:132:TYR:OXT	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:11:ILE:HD12	3:DK:110:THR:OG1	2.21	0.40
3:DB:130:PRO:HG3	3:DK:52:VAL:CG1	2.52	0.40
3:DC:128:LEU:HD12	3:DC:128:LEU:N	2.36	0.40
3:DE:52:VAL:HG21	3:EL:130:PRO:HA	2.04	0.40
3:DF:60:LYS:HB2	3:DF:61:ASN:HB2	2.03	0.40
3:DF:81:ASP:CG	3:DH:99:TYR:CD2	2.95	0.40
3:DG:54:GLN:OE1	3:DG:55:PRO:O	2.39	0.40
3:DG:121:LEU:HA	3:DG:124:ALA:HB3	2.04	0.40
3:DH:109:ARG:HD2	3:DH:110:THR:N	2.35	0.40
3:DN:128:LEU:CD2	3:ML:62:TYR:CD2	3.05	0.40
3:EB:24:ARG:NH2	3:LM:128:LEU:C	2.74	0.40
3:EC:73:ALA:HB1	3:EC:83:SER:O	2.22	0.40
3:EC:121:LEU:HA	3:EC:124:ALA:HB3	2.03	0.40
3:EE:42:PRO:HA	3:EE:45:GLU:HG2	2.03	0.40
3:EF:109:ARG:HD3	3:FA:116:LEU:O	2.21	0.40
3:EG:41:VAL:N	3:EG:42:PRO:CD	2.85	0.40
3:EI:56:SER:OG	3:EI:61:ASN:ND2	2.54	0.40
3:EK:53:SER:OG	3:EK:63:LYS:HG2	2.21	0.40
3:EK:112:LEU:HD11	3:FM:92:VAL:CG2	2.52	0.40
3:EK:118:SER:OG	3:EK:119:PRO:HD2	2.21	0.40
3:FA:24:ARG:HB2	3:FA:34:SER:OG	2.22	0.40
3:FB:99:TYR:CE2	3:FC:82:PRO:O	2.75	0.40
3:FB:120:LEU:O	3:FB:123:ASP:HB2	2.20	0.40
3:FE:101:THR:O	3:FE:104:GLU:HG2	2.22	0.40
3:FF:109:ARG:CZ	3:FF:110:THR:HG23	2.51	0.40
3:FH:60:LYS:HB2	3:FH:61:ASN:HB3	2.03	0.40
3:FH:126:ASP:C	3:FK:105:ARG:HH12	2.25	0.40
3:FJ:40:ALA:CB	3:FL:101:THR:OG1	2.70	0.40
3:FJ:56:SER:OG	3:FJ:57:ARG:N	2.54	0.40
3:FL:11:ILE:HG13	3:FL:17:GLN:HB2	2.03	0.40
3:FL:32:VAL:CG1	3:FL:51:SER:OG	2.70	0.40
3:FN:72:THR:OG1	3:FN:86:ARG:HB3	2.21	0.40
3:GB:56:SER:OG	3:GB:57:ARG:N	2.55	0.40
3:GB:94:PHE:HB3	3:GB:96:PHE:CZ	2.57	0.40
3:GC:96:PHE:CE2	3:GC:105:ARG:CZ	3.04	0.40
3:GD:88:ALA:HB1	3:KF:96:PHE:CE2	2.52	0.40
3:GG:21:LEU:HD13	3:GG:21:LEU:HA	1.97	0.40
3:GH:1:ALA:O	3:KB:131:ALA:HA	2.21	0.40
3:GH:3:LEU:CD1	3:GH:35:LEU:HD21	2.51	0.40
3:GJ:26:VAL:HG21	3:HG:132:TYR:CD2	2.56	0.40
3:GL:2:LYS:N	3:GL:2:LYS:HD2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:41:VAL:N	3:HB:42:PRO:CD	2.84	0.40
3:HB:125:ILE:CG2	3:HB:126:ASP:N	2.84	0.40
3:HI:71:PRO:HA	3:HI:87:GLN:OE1	2.21	0.40
3:HM:24:ARG:NH1	3:HM:36:SER:OG	2.54	0.40
3:HN:4:GLU:OE1	3:HN:4:GLU:N	2.54	0.40
3:HN:63:LYS:NZ	3:HN:95:SER:OG	2.54	0.40
3:IA:8:LEU:HD13	3:IA:8:LEU:HA	1.90	0.40
3:ID:4:GLU:OE1	3:ID:5:THR:O	2.39	0.40
3:ID:26:VAL:HG13	3:ID:26:VAL:O	2.22	0.40
3:ID:79:SER:O	3:JN:74:CYS:SG	2.80	0.40
3:IG:26:VAL:HG11	3:JJ:132:TYR:OH	2.21	0.40
3:IG:64:VAL:HG11	3:JJ:125:ILE:HD11	2.03	0.40
3:II:55:PRO:HB3	3:II:60:LYS:O	2.22	0.40
3:IJ:1:ALA:O	3:NE:131:ALA:HA	2.22	0.40
3:IJ:11:ILE:HD12	3:NE:110:THR:CB	2.52	0.40
3:IM:72:THR:OG1	3:IM:86:ARG:HB2	2.21	0.40
3:JD:100:SER:HA	3:JD:104:GLU:OE2	2.21	0.40
3:JF:103:GLU:HA	3:KA:13:LYS:NZ	2.36	0.40
3:JM:21:LEU:HD22	3:JM:21:LEU:N	2.36	0.40
3:JN:8:LEU:HD22	3:JN:8:LEU:N	2.36	0.40
3:KC:64:VAL:HG11	3:LC:125:ILE:HD11	2.03	0.40
3:KC:99:TYR:N	3:KC:99:TYR:CD1	2.89	0.40
3:KD:125:ILE:O	3:KD:128:LEU:HD12	2.21	0.40
3:KE:101:THR:O	3:KE:105:ARG:HG3	2.21	0.40
3:KE:101:THR:CG2	3:KF:41:VAL:HG22	2.37	0.40
3:KH:110:THR:HB	3:KL:11:ILE:HD12	2.03	0.40
3:KJ:4:GLU:OE1	3:KJ:5:THR:O	2.38	0.40
3:LC:96:PHE:CE2	3:LC:105:ARG:HG2	2.57	0.40
3:LE:102:ASP:N	3:LE:105:ARG:CZ	2.84	0.40
3:LG:125:ILE:HG23	3:MG:109:ARG:HH21	1.86	0.40
3:LI:21:LEU:HD23	3:LI:37:GLN:HA	2.03	0.40
3:LN:68:ILE:HG22	3:LN:90:ALA:HB3	2.03	0.40
3:MC:1:ALA:N	3:NJ:129:ASN:ND2	2.70	0.40
3:MC:105:ARG:CZ	3:NJ:126:ASP:O	2.69	0.40
3:MC:132:TYR:N	3:NJ:3:LEU:HD23	2.36	0.40
3:ME:52:VAL:CG1	3:NH:130:PRO:HG3	2.50	0.40
3:ME:118:SER:OG	3:ME:119:PRO:HD2	2.21	0.40
3:MH:62:TYR:HE2	3:MH:98:GLN:HA	1.86	0.40
3:MH:116:LEU:HA	3:MH:121:LEU:HD12	2.03	0.40
3:MM:11:ILE:HG23	3:MM:17:GLN:HB3	2.03	0.40
3:MM:39:GLY:HA3	3:MM:40:ALA:HA	1.91	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MM:118:SER:OG	3:MM:119:PRO:HD2	2.21	0.40
3:NA:84:VAL:HG21	3:NA:87:GLN:OE1	2.22	0.40
3:ND:55:PRO:CB	3:ND:60:LYS:HD2	2.51	0.40
3:NJ:3:LEU:CD1	3:NJ:35:LEU:HD11	2.51	0.40
3:NJ:94:PHE:N	3:NJ:94:PHE:CD2	2.88	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	
2	M	417/420 (99%)	381 (91%)	36 (9%)	0	100	100
3	B	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	BA	130/133 (98%)	110 (85%)	20 (15%)	0	100	100
3	BB	130/133 (98%)	114 (88%)	14 (11%)	2 (2%)	8	39
3	BC	130/133 (98%)	118 (91%)	12 (9%)	0	100	100
3	BD	130/133 (98%)	112 (86%)	18 (14%)	0	100	100
3	BE	130/133 (98%)	112 (86%)	18 (14%)	0	100	100
3	BF	130/133 (98%)	114 (88%)	16 (12%)	0	100	100
3	BG	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	BH	130/133 (98%)	114 (88%)	15 (12%)	1 (1%)	16	54
3	BI	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	BJ	130/133 (98%)	118 (91%)	12 (9%)	0	100	100
3	BK	130/133 (98%)	111 (85%)	19 (15%)	0	100	100
3	BL	130/133 (98%)	114 (88%)	16 (12%)	0	100	100
3	BM	130/133 (98%)	108 (83%)	22 (17%)	0	100	100
3	BN	130/133 (98%)	114 (88%)	15 (12%)	1 (1%)	16	54

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	CA	130/133 (98%)	117 (90%)	13 (10%)	0	100	100
3	CB	130/133 (98%)	110 (85%)	20 (15%)	0	100	100
3	CC	130/133 (98%)	112 (86%)	17 (13%)	1 (1%)	16	54
3	CD	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	CE	130/133 (98%)	109 (84%)	21 (16%)	0	100	100
3	CF	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	CG	130/133 (98%)	118 (91%)	12 (9%)	0	100	100
3	CH	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	CI	130/133 (98%)	112 (86%)	17 (13%)	1 (1%)	16	54
3	CJ	130/133 (98%)	118 (91%)	12 (9%)	0	100	100
3	CK	130/133 (98%)	110 (85%)	20 (15%)	0	100	100
3	CL	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	CM	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	CN	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	D	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	DA	130/133 (98%)	111 (85%)	18 (14%)	1 (1%)	16	54
3	DB	130/133 (98%)	111 (85%)	19 (15%)	0	100	100
3	DC	130/133 (98%)	108 (83%)	22 (17%)	0	100	100
3	DD	130/133 (98%)	111 (85%)	18 (14%)	1 (1%)	16	54
3	DE	130/133 (98%)	114 (88%)	15 (12%)	1 (1%)	16	54
3	DF	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	DG	130/133 (98%)	114 (88%)	15 (12%)	1 (1%)	16	54
3	DH	130/133 (98%)	117 (90%)	13 (10%)	0	100	100
3	DI	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	DJ	130/133 (98%)	108 (83%)	21 (16%)	1 (1%)	16	54
3	DK	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	DL	130/133 (98%)	114 (88%)	16 (12%)	0	100	100
3	DM	130/133 (98%)	110 (85%)	19 (15%)	1 (1%)	16	54
3	DN	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	EA	130/133 (98%)	112 (86%)	18 (14%)	0	100	100
3	EB	130/133 (98%)	108 (83%)	21 (16%)	1 (1%)	16	54

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	EC	130/133 (98%)	118 (91%)	12 (9%)	0	100	100
3	ED	130/133 (98%)	111 (85%)	19 (15%)	0	100	100
3	EE	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	EF	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	EG	130/133 (98%)	110 (85%)	20 (15%)	0	100	100
3	EH	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	EI	130/133 (98%)	114 (88%)	16 (12%)	0	100	100
3	EJ	130/133 (98%)	110 (85%)	20 (15%)	0	100	100
3	EK	130/133 (98%)	111 (85%)	18 (14%)	1 (1%)	16	54
3	EL	130/133 (98%)	117 (90%)	13 (10%)	0	100	100
3	EM	130/133 (98%)	112 (86%)	18 (14%)	0	100	100
3	EN	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	FA	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	FB	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	FC	130/133 (98%)	115 (88%)	14 (11%)	1 (1%)	16	54
3	FD	118/133 (89%)	108 (92%)	10 (8%)	0	100	100
3	FE	130/133 (98%)	114 (88%)	16 (12%)	0	100	100
3	FF	130/133 (98%)	118 (91%)	11 (8%)	1 (1%)	16	54
3	FG	130/133 (98%)	119 (92%)	11 (8%)	0	100	100
3	FH	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	FI	130/133 (98%)	114 (88%)	16 (12%)	0	100	100
3	FJ	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	FK	130/133 (98%)	119 (92%)	10 (8%)	1 (1%)	16	54
3	FL	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	FM	130/133 (98%)	111 (85%)	19 (15%)	0	100	100
3	FN	130/133 (98%)	114 (88%)	16 (12%)	0	100	100
3	GA	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	GB	120/133 (90%)	107 (89%)	13 (11%)	0	100	100
3	GC	130/133 (98%)	108 (83%)	22 (17%)	0	100	100
3	GD	130/133 (98%)	109 (84%)	21 (16%)	0	100	100
3	GE	130/133 (98%)	113 (87%)	17 (13%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	GF	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	GG	130/133 (98%)	109 (84%)	21 (16%)	0	100	100
3	GH	130/133 (98%)	114 (88%)	16 (12%)	0	100	100
3	GI	130/133 (98%)	114 (88%)	16 (12%)	0	100	100
3	GJ	130/133 (98%)	110 (85%)	20 (15%)	0	100	100
3	GK	130/133 (98%)	114 (88%)	15 (12%)	1 (1%)	16	54
3	GL	130/133 (98%)	118 (91%)	12 (9%)	0	100	100
3	GM	130/133 (98%)	109 (84%)	20 (15%)	1 (1%)	16	54
3	GN	130/133 (98%)	109 (84%)	21 (16%)	0	100	100
3	HA	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	HB	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	HC	130/133 (98%)	115 (88%)	14 (11%)	1 (1%)	16	54
3	HD	130/133 (98%)	119 (92%)	11 (8%)	0	100	100
3	HE	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	HF	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	HG	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	HH	130/133 (98%)	111 (85%)	19 (15%)	0	100	100
3	HI	130/133 (98%)	113 (87%)	16 (12%)	1 (1%)	16	54
3	HJ	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	HK	130/133 (98%)	110 (85%)	20 (15%)	0	100	100
3	HL	130/133 (98%)	111 (85%)	18 (14%)	1 (1%)	16	54
3	HM	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	HN	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	IA	130/133 (98%)	112 (86%)	16 (12%)	2 (2%)	8	39
3	IB	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	IC	130/133 (98%)	109 (84%)	21 (16%)	0	100	100
3	ID	130/133 (98%)	112 (86%)	17 (13%)	1 (1%)	16	54
3	IE	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	IF	130/133 (98%)	112 (86%)	18 (14%)	0	100	100
3	IG	130/133 (98%)	110 (85%)	20 (15%)	0	100	100
3	IH	130/133 (98%)	113 (87%)	17 (13%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	II	130/133 (98%)	110 (85%)	20 (15%)	0	100	100
3	IJ	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	IK	130/133 (98%)	117 (90%)	13 (10%)	0	100	100
3	IL	130/133 (98%)	114 (88%)	16 (12%)	0	100	100
3	IM	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	IN	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	JA	130/133 (98%)	109 (84%)	21 (16%)	0	100	100
3	JB	130/133 (98%)	116 (89%)	13 (10%)	1 (1%)	16	54
3	JC	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	JD	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	JE	130/133 (98%)	114 (88%)	15 (12%)	1 (1%)	16	54
3	JF	130/133 (98%)	117 (90%)	13 (10%)	0	100	100
3	JG	130/133 (98%)	116 (89%)	14 (11%)	0	100	100
3	JH	130/133 (98%)	109 (84%)	20 (15%)	1 (1%)	16	54
3	JI	130/133 (98%)	117 (90%)	13 (10%)	0	100	100
3	JJ	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	JK	130/133 (98%)	112 (86%)	17 (13%)	1 (1%)	16	54
3	JL	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	JM	130/133 (98%)	114 (88%)	16 (12%)	0	100	100
3	JN	130/133 (98%)	113 (87%)	16 (12%)	1 (1%)	16	54
3	KA	130/133 (98%)	115 (88%)	15 (12%)	0	100	100
3	KB	130/133 (98%)	113 (87%)	17 (13%)	0	100	100
3	KC	130/133 (98%)	113 (87%)	16 (12%)	1 (1%)	16	54
3	KD	130/133 (98%)	117 (90%)	13 (10%)	0	100	100
3	KE	130/133 (98%)	112 (86%)	18 (14%)	0	100	100
3	KF	130/133 (98%)	105 (81%)	24 (18%)	1 (1%)	16	54
3	KG	130/133 (98%)	114 (88%)	16 (12%)	0	100	100
3	KH	130/133 (98%)	110 (85%)	19 (15%)	1 (1%)	16	54
3	KI	130/133 (98%)	115 (88%)	14 (11%)	1 (1%)	16	54
3	KJ	130/133 (98%)	117 (90%)	12 (9%)	1 (1%)	16	54
3	KK	130/133 (98%)	113 (87%)	17 (13%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	KL	130/133 (98%)	116 (89%)	13 (10%)	1 (1%)	16 54
3	KM	130/133 (98%)	115 (88%)	15 (12%)	0	100 100
3	KN	130/133 (98%)	111 (85%)	19 (15%)	0	100 100
3	LA	130/133 (98%)	114 (88%)	15 (12%)	1 (1%)	16 54
3	LB	130/133 (98%)	119 (92%)	11 (8%)	0	100 100
3	LC	130/133 (98%)	111 (85%)	19 (15%)	0	100 100
3	LD	130/133 (98%)	115 (88%)	14 (11%)	1 (1%)	16 54
3	LE	130/133 (98%)	116 (89%)	14 (11%)	0	100 100
3	LF	130/133 (98%)	117 (90%)	13 (10%)	0	100 100
3	LG	130/133 (98%)	113 (87%)	16 (12%)	1 (1%)	16 54
3	LH	130/133 (98%)	120 (92%)	10 (8%)	0	100 100
3	LI	130/133 (98%)	112 (86%)	18 (14%)	0	100 100
3	LJ	130/133 (98%)	116 (89%)	14 (11%)	0	100 100
3	LK	130/133 (98%)	116 (89%)	14 (11%)	0	100 100
3	LL	130/133 (98%)	113 (87%)	17 (13%)	0	100 100
3	LM	130/133 (98%)	118 (91%)	12 (9%)	0	100 100
3	LN	130/133 (98%)	117 (90%)	13 (10%)	0	100 100
3	MA	130/133 (98%)	115 (88%)	15 (12%)	0	100 100
3	MB	130/133 (98%)	113 (87%)	17 (13%)	0	100 100
3	MC	130/133 (98%)	120 (92%)	9 (7%)	1 (1%)	16 54
3	MD	130/133 (98%)	111 (85%)	19 (15%)	0	100 100
3	ME	130/133 (98%)	112 (86%)	17 (13%)	1 (1%)	16 54
3	MF	130/133 (98%)	116 (89%)	14 (11%)	0	100 100
3	MG	130/133 (98%)	116 (89%)	14 (11%)	0	100 100
3	MH	130/133 (98%)	118 (91%)	12 (9%)	0	100 100
3	MI	130/133 (98%)	112 (86%)	18 (14%)	0	100 100
3	MJ	130/133 (98%)	114 (88%)	16 (12%)	0	100 100
3	MK	130/133 (98%)	116 (89%)	13 (10%)	1 (1%)	16 54
3	ML	130/133 (98%)	116 (89%)	14 (11%)	0	100 100
3	MM	130/133 (98%)	114 (88%)	16 (12%)	0	100 100
3	MN	130/133 (98%)	109 (84%)	20 (15%)	1 (1%)	16 54

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	NA	130/133 (98%)	116 (89%)	14 (11%)	0	100 100
3	NB	130/133 (98%)	109 (84%)	21 (16%)	0	100 100
3	NC	130/133 (98%)	112 (86%)	17 (13%)	1 (1%)	16 54
3	ND	130/133 (98%)	114 (88%)	16 (12%)	0	100 100
3	NE	130/133 (98%)	112 (86%)	18 (14%)	0	100 100
3	NF	130/133 (98%)	113 (87%)	17 (13%)	0	100 100
3	NG	130/133 (98%)	118 (91%)	12 (9%)	0	100 100
3	NH	130/133 (98%)	116 (89%)	14 (11%)	0	100 100
3	NI	130/133 (98%)	118 (91%)	11 (8%)	1 (1%)	16 54
3	NJ	130/133 (98%)	118 (91%)	12 (9%)	0	100 100
All	All	23795/24360 (98%)	20848 (88%)	2902 (12%)	45 (0%)	45 78

All (45) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	BB	80	CYS
3	BH	80	CYS
3	CI	80	CYS
3	DE	61	ASN
3	FK	80	CYS
3	JB	80	CYS
3	JE	80	CYS
3	JK	80	CYS
3	LG	80	CYS
3	MK	80	CYS
3	NI	80	CYS
3	BN	80	CYS
3	CC	80	CYS
3	DA	80	CYS
3	DG	80	CYS
3	EB	80	CYS
3	FC	80	CYS
3	FF	80	CYS
3	HC	80	CYS
3	HI	80	CYS
3	IA	80	CYS
3	ID	80	CYS
3	JH	80	CYS

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Mol	Chain	Res	Type
3	KF	80	CYS
3	KI	80	CYS
3	KL	80	CYS
3	LA	80	CYS
3	LD	80	CYS
3	MN	80	CYS
3	NC	80	CYS
3	BB	74	CYS
3	GM	109	ARG
3	HL	80	CYS
3	JN	80	CYS
3	KC	80	CYS
3	KH	59	ARG
3	DD	80	CYS
3	DJ	80	CYS
3	DM	80	CYS
3	ME	80	CYS
3	EK	80	CYS
3	GK	80	CYS
3	IA	103	GLU
3	KJ	61	ASN
3	MC	61	ASN

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 PDB entries followed by that with respect to all EM entries.

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
2	M	365/366 (100%)	364 (100%)	1 (0%)	91 91
3	B	110/111 (99%)	110 (100%)	0	100 100
3	BA	110/111 (99%)	110 (100%)	0	100 100
3	BB	110/111 (99%)	109 (99%)	1 (1%)	75 83
3	BC	110/111 (99%)	110 (100%)	0	100 100
3	BD	110/111 (99%)	110 (100%)	0	100 100
3	BE	110/111 (99%)	110 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	BF	110/111 (99%)	109 (99%)	1 (1%)	75	83
3	BG	110/111 (99%)	110 (100%)	0	100	100
3	BH	110/111 (99%)	110 (100%)	0	100	100
3	BI	110/111 (99%)	110 (100%)	0	100	100
3	BJ	110/111 (99%)	110 (100%)	0	100	100
3	BK	110/111 (99%)	110 (100%)	0	100	100
3	BL	110/111 (99%)	110 (100%)	0	100	100
3	BM	110/111 (99%)	110 (100%)	0	100	100
3	BN	110/111 (99%)	110 (100%)	0	100	100
3	CA	110/111 (99%)	110 (100%)	0	100	100
3	CB	110/111 (99%)	110 (100%)	0	100	100
3	CC	110/111 (99%)	109 (99%)	1 (1%)	75	83
3	CD	110/111 (99%)	110 (100%)	0	100	100
3	CE	110/111 (99%)	110 (100%)	0	100	100
3	CF	110/111 (99%)	110 (100%)	0	100	100
3	CG	110/111 (99%)	110 (100%)	0	100	100
3	CH	110/111 (99%)	110 (100%)	0	100	100
3	CI	110/111 (99%)	110 (100%)	0	100	100
3	CJ	110/111 (99%)	109 (99%)	1 (1%)	75	83
3	CK	110/111 (99%)	110 (100%)	0	100	100
3	CL	110/111 (99%)	110 (100%)	0	100	100
3	CM	110/111 (99%)	110 (100%)	0	100	100
3	CN	110/111 (99%)	110 (100%)	0	100	100
3	D	110/111 (99%)	110 (100%)	0	100	100
3	DA	110/111 (99%)	110 (100%)	0	100	100
3	DB	110/111 (99%)	110 (100%)	0	100	100
3	DC	110/111 (99%)	110 (100%)	0	100	100
3	DD	110/111 (99%)	110 (100%)	0	100	100
3	DE	110/111 (99%)	109 (99%)	1 (1%)	75	83
3	DF	110/111 (99%)	110 (100%)	0	100	100
3	DG	110/111 (99%)	110 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	DH	110/111 (99%)	110 (100%)	0	100	100
3	DI	110/111 (99%)	110 (100%)	0	100	100
3	DJ	110/111 (99%)	110 (100%)	0	100	100
3	DK	110/111 (99%)	110 (100%)	0	100	100
3	DL	110/111 (99%)	110 (100%)	0	100	100
3	DM	110/111 (99%)	110 (100%)	0	100	100
3	DN	110/111 (99%)	110 (100%)	0	100	100
3	EA	110/111 (99%)	110 (100%)	0	100	100
3	EB	110/111 (99%)	110 (100%)	0	100	100
3	EC	110/111 (99%)	110 (100%)	0	100	100
3	ED	110/111 (99%)	110 (100%)	0	100	100
3	EE	110/111 (99%)	110 (100%)	0	100	100
3	EF	110/111 (99%)	110 (100%)	0	100	100
3	EG	110/111 (99%)	110 (100%)	0	100	100
3	EH	110/111 (99%)	109 (99%)	1 (1%)	75	83
3	EI	110/111 (99%)	110 (100%)	0	100	100
3	EJ	110/111 (99%)	109 (99%)	1 (1%)	75	83
3	EK	110/111 (99%)	110 (100%)	0	100	100
3	EL	110/111 (99%)	110 (100%)	0	100	100
3	EM	110/111 (99%)	110 (100%)	0	100	100
3	EN	110/111 (99%)	110 (100%)	0	100	100
3	FA	110/111 (99%)	110 (100%)	0	100	100
3	FB	110/111 (99%)	110 (100%)	0	100	100
3	FC	110/111 (99%)	110 (100%)	0	100	100
3	FD	102/111 (92%)	102 (100%)	0	100	100
3	FE	110/111 (99%)	110 (100%)	0	100	100
3	FF	110/111 (99%)	110 (100%)	0	100	100
3	FG	110/111 (99%)	110 (100%)	0	100	100
3	FH	110/111 (99%)	110 (100%)	0	100	100
3	FI	110/111 (99%)	110 (100%)	0	100	100
3	FJ	110/111 (99%)	110 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	FK	110/111 (99%)	110 (100%)	0	100	100
3	FL	110/111 (99%)	110 (100%)	0	100	100
3	FM	110/111 (99%)	109 (99%)	1 (1%)	75	83
3	FN	110/111 (99%)	110 (100%)	0	100	100
3	GA	110/111 (99%)	110 (100%)	0	100	100
3	GB	104/111 (94%)	104 (100%)	0	100	100
3	GC	110/111 (99%)	110 (100%)	0	100	100
3	GD	110/111 (99%)	110 (100%)	0	100	100
3	GE	110/111 (99%)	110 (100%)	0	100	100
3	GF	110/111 (99%)	110 (100%)	0	100	100
3	GG	110/111 (99%)	109 (99%)	1 (1%)	75	83
3	GH	110/111 (99%)	110 (100%)	0	100	100
3	GI	110/111 (99%)	110 (100%)	0	100	100
3	GJ	110/111 (99%)	110 (100%)	0	100	100
3	GK	110/111 (99%)	109 (99%)	1 (1%)	75	83
3	GL	110/111 (99%)	110 (100%)	0	100	100
3	GM	110/111 (99%)	110 (100%)	0	100	100
3	GN	110/111 (99%)	110 (100%)	0	100	100
3	HA	110/111 (99%)	109 (99%)	1 (1%)	75	83
3	HB	110/111 (99%)	110 (100%)	0	100	100
3	HC	110/111 (99%)	110 (100%)	0	100	100
3	HD	110/111 (99%)	110 (100%)	0	100	100
3	HE	110/111 (99%)	110 (100%)	0	100	100
3	HF	110/111 (99%)	110 (100%)	0	100	100
3	HG	110/111 (99%)	110 (100%)	0	100	100
3	HH	110/111 (99%)	110 (100%)	0	100	100
3	HI	110/111 (99%)	110 (100%)	0	100	100
3	HJ	110/111 (99%)	110 (100%)	0	100	100
3	HK	110/111 (99%)	110 (100%)	0	100	100
3	HL	110/111 (99%)	110 (100%)	0	100	100
3	HM	110/111 (99%)	110 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	HN	110/111 (99%)	110 (100%)	0	100	100
3	IA	110/111 (99%)	110 (100%)	0	100	100
3	IB	110/111 (99%)	110 (100%)	0	100	100
3	IC	110/111 (99%)	109 (99%)	1 (1%)	75	83
3	ID	110/111 (99%)	110 (100%)	0	100	100
3	IE	110/111 (99%)	110 (100%)	0	100	100
3	IF	110/111 (99%)	110 (100%)	0	100	100
3	IG	110/111 (99%)	110 (100%)	0	100	100
3	IH	110/111 (99%)	110 (100%)	0	100	100
3	II	110/111 (99%)	110 (100%)	0	100	100
3	IJ	110/111 (99%)	110 (100%)	0	100	100
3	IK	110/111 (99%)	110 (100%)	0	100	100
3	IL	110/111 (99%)	110 (100%)	0	100	100
3	IM	110/111 (99%)	110 (100%)	0	100	100
3	IN	110/111 (99%)	110 (100%)	0	100	100
3	JA	110/111 (99%)	110 (100%)	0	100	100
3	JB	110/111 (99%)	110 (100%)	0	100	100
3	JC	110/111 (99%)	110 (100%)	0	100	100
3	JD	110/111 (99%)	110 (100%)	0	100	100
3	JE	110/111 (99%)	110 (100%)	0	100	100
3	JF	110/111 (99%)	110 (100%)	0	100	100
3	JG	110/111 (99%)	110 (100%)	0	100	100
3	JH	110/111 (99%)	110 (100%)	0	100	100
3	JI	110/111 (99%)	110 (100%)	0	100	100
3	JJ	110/111 (99%)	110 (100%)	0	100	100
3	JK	110/111 (99%)	110 (100%)	0	100	100
3	JL	110/111 (99%)	110 (100%)	0	100	100
3	JM	110/111 (99%)	110 (100%)	0	100	100
3	JN	110/111 (99%)	109 (99%)	1 (1%)	75	83
3	KA	110/111 (99%)	110 (100%)	0	100	100
3	KB	110/111 (99%)	109 (99%)	1 (1%)	75	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	KC	110/111 (99%)	110 (100%)	0	100	100
3	KD	110/111 (99%)	110 (100%)	0	100	100
3	KE	110/111 (99%)	110 (100%)	0	100	100
3	KF	110/111 (99%)	110 (100%)	0	100	100
3	KG	110/111 (99%)	110 (100%)	0	100	100
3	KH	110/111 (99%)	110 (100%)	0	100	100
3	KI	110/111 (99%)	110 (100%)	0	100	100
3	KJ	110/111 (99%)	110 (100%)	0	100	100
3	KK	110/111 (99%)	109 (99%)	1 (1%)	75	83
3	KL	110/111 (99%)	110 (100%)	0	100	100
3	KM	110/111 (99%)	110 (100%)	0	100	100
3	KN	110/111 (99%)	110 (100%)	0	100	100
3	LA	110/111 (99%)	110 (100%)	0	100	100
3	LB	110/111 (99%)	110 (100%)	0	100	100
3	LC	110/111 (99%)	110 (100%)	0	100	100
3	LD	110/111 (99%)	110 (100%)	0	100	100
3	LE	110/111 (99%)	110 (100%)	0	100	100
3	LF	110/111 (99%)	110 (100%)	0	100	100
3	LG	110/111 (99%)	110 (100%)	0	100	100
3	LH	110/111 (99%)	110 (100%)	0	100	100
3	LI	110/111 (99%)	110 (100%)	0	100	100
3	LJ	110/111 (99%)	110 (100%)	0	100	100
3	LK	110/111 (99%)	110 (100%)	0	100	100
3	LL	110/111 (99%)	110 (100%)	0	100	100
3	LM	110/111 (99%)	110 (100%)	0	100	100
3	LN	110/111 (99%)	110 (100%)	0	100	100
3	MA	110/111 (99%)	110 (100%)	0	100	100
3	MB	110/111 (99%)	110 (100%)	0	100	100
3	MC	110/111 (99%)	110 (100%)	0	100	100
3	MD	110/111 (99%)	110 (100%)	0	100	100
3	ME	110/111 (99%)	110 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	MF	110/111 (99%)	110 (100%)	0	100 100
3	MG	110/111 (99%)	109 (99%)	1 (1%)	75 83
3	MH	110/111 (99%)	110 (100%)	0	100 100
3	MI	110/111 (99%)	110 (100%)	0	100 100
3	MJ	110/111 (99%)	108 (98%)	2 (2%)	54 71
3	MK	110/111 (99%)	110 (100%)	0	100 100
3	ML	110/111 (99%)	110 (100%)	0	100 100
3	MM	110/111 (99%)	110 (100%)	0	100 100
3	MN	110/111 (99%)	110 (100%)	0	100 100
3	NA	110/111 (99%)	110 (100%)	0	100 100
3	NB	110/111 (99%)	110 (100%)	0	100 100
3	NC	110/111 (99%)	110 (100%)	0	100 100
3	ND	110/111 (99%)	110 (100%)	0	100 100
3	NE	110/111 (99%)	110 (100%)	0	100 100
3	NF	110/111 (99%)	109 (99%)	1 (1%)	75 83
3	NG	110/111 (99%)	110 (100%)	0	100 100
3	NH	110/111 (99%)	110 (100%)	0	100 100
3	NI	110/111 (99%)	110 (100%)	0	100 100
3	NJ	110/111 (99%)	110 (100%)	0	100 100
All	All	20151/20346 (99%)	20131 (100%)	20 (0%)	92 94

All (20) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	M	366	ARG
3	BB	109	ARG
3	BF	47	ARG
3	CC	57	ARG
3	CJ	69	GLN
3	DE	47	ARG
3	EH	47	ARG
3	EJ	58	ASN
3	FM	63	LYS
3	GG	59	ARG
3	GK	57	ARG

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Mol	Chain	Res	Type
3	HA	87	GLN
3	IC	57	ARG
3	JN	47	ARG
3	KB	57	ARG
3	KK	59	ARG
3	MG	57	ARG
3	MJ	47	ARG
3	MJ	60	LYS
3	NF	109	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (119) such sidechains are listed below:

Mol	Chain	Res	Type
2	M	308	HIS
3	D	54	GLN
3	BC	129	ASN
3	BF	69	GLN
3	BG	98	GLN
3	BI	61	ASN
3	BI	70	ASN
3	BJ	69	GLN
3	BL	77	ASN
3	BL	129	ASN
3	BM	87	GLN
3	BN	54	GLN
3	BN	87	GLN
3	CA	98	GLN
3	CC	70	ASN
3	CD	61	ASN
3	CE	87	GLN
3	CH	65	GLN
3	CK	69	GLN
3	CL	87	GLN
3	CN	98	GLN
3	DB	30	ASN
3	DE	61	ASN
3	DG	54	GLN
3	DH	30	ASN
3	DI	69	GLN
3	DJ	58	ASN
3	DJ	87	GLN
3	DL	69	GLN

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Mol	Chain	Res	Type
3	DL	87	GLN
3	DM	77	ASN
3	DM	98	GLN
3	EA	98	GLN
3	EB	98	GLN
3	ED	127	GLN
3	EE	37	GLN
3	EE	61	ASN
3	EF	127	GLN
3	EN	65	GLN
3	EN	98	GLN
3	FA	77	ASN
3	FA	129	ASN
3	FF	65	GLN
3	FF	69	GLN
3	FG	61	ASN
3	FK	87	GLN
3	FL	61	ASN
3	FM	98	GLN
3	GB	98	GLN
3	GC	127	GLN
3	GE	87	GLN
3	GG	61	ASN
3	GG	87	GLN
3	GI	58	ASN
3	GI	69	GLN
3	GI	87	GLN
3	GL	98	GLN
3	HE	58	ASN
3	HE	98	GLN
3	HF	69	GLN
3	HF	87	GLN
3	HI	69	GLN
3	HI	98	GLN
3	HK	69	GLN
3	HL	61	ASN
3	HN	54	GLN
3	HN	87	GLN
3	IC	87	GLN
3	IE	87	GLN
3	IF	87	GLN
3	IH	87	GLN

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Mol	Chain	Res	Type
3	IJ	69	GLN
3	JB	77	ASN
3	JC	30	ASN
3	JD	69	GLN
3	JG	61	ASN
3	JG	87	GLN
3	JH	54	GLN
3	JM	22	ASN
3	KC	61	ASN
3	KC	98	GLN
3	KF	77	ASN
3	KF	98	GLN
3	KH	65	GLN
3	KI	61	ASN
3	KI	65	GLN
3	KK	69	GLN
3	KK	129	ASN
3	KM	22	ASN
3	KM	127	GLN
3	KN	69	GLN
3	LB	98	GLN
3	LD	69	GLN
3	LE	65	GLN
3	LF	129	ASN
3	LH	87	GLN
3	LI	69	GLN
3	LI	87	GLN
3	LJ	69	GLN
3	LK	87	GLN
3	LM	54	GLN
3	MB	70	ASN
3	MB	87	GLN
3	MC	22	ASN
3	MD	30	ASN
3	ML	87	GLN
3	MM	87	GLN
3	MM	98	GLN
3	MM	129	ASN
3	MN	69	GLN
3	NA	30	ASN
3	NB	98	GLN
3	ND	129	ASN

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Mol	Chain	Res	Type
3	NE	37	GLN
3	NE	98	GLN
3	NG	77	ASN
3	NI	61	ASN
3	NI	87	GLN
3	NJ	70	ASN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A	4216/4217 (99%)	868 (20%)	83 (1%)

All (868) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A	4	G
1	A	10	C
1	A	11	U
1	A	12	U
1	A	29	A
1	A	39	U
1	A	42	A
1	A	61	A
1	A	66	U
1	A	67	A
1	A	79	G
1	A	81	U
1	A	96	C
1	A	97	G
1	A	98	A
1	A	99	U
1	A	102	U
1	A	104	A
1	A	107	U
1	A	112	A
1	A	113	A
1	A	127	C
1	A	134	U
1	A	136	C
1	A	145	U
1	A	152	A

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Mol	Chain	Res	Type
1	A	153	A
1	A	162	C
1	A	179	C
1	A	180	A
1	A	187	G
1	A	191	G
1	A	197	U
1	A	200	A
1	A	201	C
1	A	214	G
1	A	216	U
1	A	222	A
1	A	226	A
1	A	227	A
1	A	238	C
1	A	240	C
1	A	241	C
1	A	246	A
1	A	247	A
1	A	252	C
1	A	253	A
1	A	254	C
1	A	260	A
1	A	265	G
1	A	271	G
1	A	273	U
1	A	285	U
1	A	286	U
1	A	292	C
1	A	293	U
1	A	296	G
1	A	306	A
1	A	309	C
1	A	317	A
1	A	318	U
1	A	328	G
1	A	333	A
1	A	345	G
1	A	352	C
1	A	359	A
1	A	361	U
1	A	368	U

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Mol	Chain	Res	Type
1	A	369	C
1	A	370	G
1	A	377	G
1	A	391	C
1	A	392	U
1	A	393	U
1	A	394	G
1	A	399	U
1	A	401	A
1	A	402	U
1	A	414	U
1	A	428	C
1	A	434	A
1	A	435	G
1	A	436	U
1	A	437	U
1	A	443	U
1	A	444	U
1	A	445	U
1	A	459	U
1	A	464	G
1	A	465	U
1	A	486	G
1	A	496	A
1	A	498	G
1	A	499	U
1	A	501	U
1	A	514	G
1	A	522	G
1	A	527	A
1	A	534	A
1	A	536	A
1	A	537	A
1	A	550	U
1	A	552	A
1	A	553	C
1	A	564	G
1	A	570	G
1	A	620	U
1	A	624	G
1	A	627	C
1	A	628	U

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Mol	Chain	Res	Type
1	A	632	A
1	A	633	U
1	A	634	A
1	A	636	U
1	A	643	U
1	A	650	C
1	A	651	G
1	A	655	A
1	A	683	G
1	A	688	G
1	A	707	A
1	A	709	G
1	A	714	C
1	A	716	G
1	A	718	G
1	A	733	U
1	A	737	A
1	A	739	A
1	A	740	A
1	A	745	C
1	A	752	A
1	A	762	C
1	A	774	U
1	A	792	G
1	A	817	C
1	A	836	A
1	A	837	C
1	A	847	A
1	A	852	G
1	A	853	G
1	A	861	A
1	A	862	C
1	A	863	U
1	A	864	C
1	A	869	G
1	A	870	C
1	A	871	C
1	A	874	C
1	A	875	A
1	A	896	C
1	A	897	U
1	A	898	A

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Mol	Chain	Res	Type
1	A	899	A
1	A	947	C
1	A	953	G
1	A	957	G
1	A	958	G
1	A	959	A
1	A	962	U
1	A	964	G
1	A	968	C
1	A	970	G
1	A	993	U
1	A	994	G
1	A	995	C
1	A	1010	C
1	A	1011	C
1	A	1021	G
1	A	1032	G
1	A	1034	U
1	A	1035	C
1	A	1044	U
1	A	1047	U
1	A	1051	A
1	A	1052	U
1	A	1055	U
1	A	1078	C
1	A	1079	A
1	A	1081	A
1	A	1088	A
1	A	1089	U
1	A	1102	U
1	A	1103	U
1	A	1105	G
1	A	1106	A
1	A	1107	C
1	A	1122	G
1	A	1127	A
1	A	1130	C
1	A	1138	A
1	A	1149	A
1	A	1152	A
1	A	1162	C
1	A	1168	A

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Mol	Chain	Res	Type
1	A	1172	U
1	A	1221	G
1	A	1225	A
1	A	1227	U
1	A	1228	C
1	A	1231	C
1	A	1232	C
1	A	1233	G
1	A	1235	U
1	A	1239	U
1	A	1241	C
1	A	1242	A
1	A	1243	C
1	A	1246	G
1	A	1247	A
1	A	1252	G
1	A	1253	A
1	A	1254	U
1	A	1257	C
1	A	1260	C
1	A	1262	U
1	A	1263	U
1	A	1271	U
1	A	1272	U
1	A	1273	A
1	A	1274	A
1	A	1275	A
1	A	1276	C
1	A	1282	C
1	A	1286	A
1	A	1294	U
1	A	1297	U
1	A	1301	U
1	A	1302	A
1	A	1305	C
1	A	1306	C
1	A	1307	A
1	A	1312	G
1	A	1313	U
1	A	1314	A
1	A	1315	A
1	A	1318	C

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Mol	Chain	Res	Type
1	A	1319	G
1	A	1322	G
1	A	1323	A
1	A	1324	A
1	A	1325	A
1	A	1326	C
1	A	1327	U
1	A	1334	C
1	A	1335	A
1	A	1345	U
1	A	1355	A
1	A	1357	A
1	A	1368	U
1	A	1369	U
1	A	1370	A
1	A	1372	G
1	A	1378	U
1	A	1380	G
1	A	1394	A
1	A	1395	C
1	A	1396	A
1	A	1397	A
1	A	1400	U
1	A	1406	C
1	A	1412	U
1	A	1421	G
1	A	1424	A
1	A	1425	A
1	A	1426	A
1	A	1434	A
1	A	1435	A
1	A	1440	G
1	A	1444	C
1	A	1445	C
1	A	1453	C
1	A	1454	A
1	A	1456	A
1	A	1463	U
1	A	1476	C
1	A	1485	C
1	A	1490	U
1	A	1496	U

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Mol	Chain	Res	Type
1	A	1497	U
1	A	1498	C
1	A	1499	G
1	A	1505	U
1	A	1508	G
1	A	1509	C
1	A	1518	A
1	A	1519	A
1	A	1521	C
1	A	1524	A
1	A	1525	A
1	A	1526	G
1	A	1534	A
1	A	1535	G
1	A	1538	C
1	A	1539	C
1	A	1544	U
1	A	1545	A
1	A	1555	A
1	A	1560	A
1	A	1569	A
1	A	1580	U
1	A	1585	G
1	A	1586	U
1	A	1594	C
1	A	1596	G
1	A	1599	A
1	A	1606	A
1	A	1616	U
1	A	1617	G
1	A	1618	A
1	A	1620	G
1	A	1627	U
1	A	1649	C
1	A	1651	A
1	A	1653	G
1	A	1672	G
1	A	1675	C
1	A	1681	U
1	A	1683	G
1	A	1684	C
1	A	1685	U

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Mol	Chain	Res	Type
1	A	1686	G
1	A	1692	C
1	A	1694	C
1	A	1701	C
1	A	1708	U
1	A	1709	G
1	A	1710	A
1	A	1717	C
1	A	1729	U
1	A	1736	A
1	A	1743	U
1	A	1750	U
1	A	1755	A
1	A	1756	U
1	A	1757	U
1	A	1775	G
1	A	1778	A
1	A	1779	A
1	A	1780	A
1	A	1781	A
1	A	1793	U
1	A	1799	G
1	A	1804	C
1	A	1805	A
1	A	1807	C
1	A	1809	A
1	A	1823	A
1	A	1827	A
1	A	1828	C
1	A	1829	A
1	A	1832	U
1	A	1833	A
1	A	1835	G
1	A	1836	U
1	A	1838	U
1	A	1849	U
1	A	1854	A
1	A	1856	U
1	A	1863	C
1	A	1873	U
1	A	1874	U
1	A	1876	A

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Mol	Chain	Res	Type
1	A	1887	A
1	A	1894	A
1	A	1896	C
1	A	1900	C
1	A	1906	C
1	A	1908	A
1	A	1910	C
1	A	1911	U
1	A	1914	A
1	A	1915	A
1	A	1916	U
1	A	1920	G
1	A	1921	U
1	A	1922	U
1	A	1923	G
1	A	1926	C
1	A	1938	G
1	A	1945	A
1	A	1946	U
1	A	1954	U
1	A	1961	U
1	A	1962	C
1	A	1963	U
1	A	1966	U
1	A	1967	G
1	A	1982	G
1	A	2006	U
1	A	2009	U
1	A	2013	A
1	A	2019	C
1	A	2022	G
1	A	2034	A
1	A	2035	A
1	A	2039	U
1	A	2040	U
1	A	2041	A
1	A	2043	A
1	A	2044	U
1	A	2046	G
1	A	2047	A
1	A	2048	C
1	A	2049	C

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Mol	Chain	Res	Type
1	A	2050	U
1	A	2052	G
1	A	2053	A
1	A	2055	G
1	A	2063	U
1	A	2064	C
1	A	2065	U
1	A	2078	G
1	A	2081	U
1	A	2082	A
1	A	2103	A
1	A	2106	C
1	A	2116	A
1	A	2117	G
1	A	2123	U
1	A	2124	G
1	A	2139	A
1	A	2140	U
1	A	2141	U
1	A	2151	A
1	A	2155	A
1	A	2156	U
1	A	2162	G
1	A	2163	U
1	A	2172	G
1	A	2173	C
1	A	2186	U
1	A	2193	A
1	A	2195	U
1	A	2200	C
1	A	2210	C
1	A	2225	U
1	A	2240	U
1	A	2242	C
1	A	2243	A
1	A	2247	A
1	A	2248	G
1	A	2249	C
1	A	2250	G
1	A	2265	U
1	A	2272	U
1	A	2278	A

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Mol	Chain	Res	Type
1	A	2283	G
1	A	2287	A
1	A	2292	A
1	A	2296	G
1	A	2297	U
1	A	2303	U
1	A	2304	C
1	A	2305	A
1	A	2310	G
1	A	2316	G
1	A	2320	U
1	A	2322	C
1	A	2326	G
1	A	2328	G
1	A	2333	G
1	A	2335	A
1	A	2336	A
1	A	2338	U
1	A	2339	A
1	A	2347	A
1	A	2352	A
1	A	2355	U
1	A	2356	C
1	A	2357	U
1	A	2358	A
1	A	2360	G
1	A	2368	C
1	A	2369	U
1	A	2378	C
1	A	2380	C
1	A	2381	U
1	A	2383	U
1	A	2385	A
1	A	2389	C
1	A	2392	A
1	A	2393	A
1	A	2394	U
1	A	2396	G
1	A	2398	G
1	A	2401	G
1	A	2403	G
1	A	2405	C

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Mol	Chain	Res	Type
1	A	2412	A
1	A	2413	C
1	A	2417	A
1	A	2418	A
1	A	2419	U
1	A	2420	U
1	A	2427	G
1	A	2435	C
1	A	2438	C
1	A	2439	G
1	A	2444	U
1	A	2445	U
1	A	2451	G
1	A	2458	A
1	A	2463	C
1	A	2470	C
1	A	2471	C
1	A	2472	U
1	A	2473	A
1	A	2475	G
1	A	2490	A
1	A	2491	A
1	A	2493	U
1	A	2508	A
1	A	2515	U
1	A	2533	G
1	A	2538	C
1	A	2543	U
1	A	2544	G
1	A	2550	A
1	A	2554	U
1	A	2557	A
1	A	2558	U
1	A	2559	U
1	A	2569	C
1	A	2575	U
1	A	2585	G
1	A	2587	A
1	A	2602	U
1	A	2603	A
1	A	2604	G
1	A	2606	U

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Mol	Chain	Res	Type
1	A	2607	A
1	A	2608	U
1	A	2609	U
1	A	2611	A
1	A	2617	A
1	A	2618	A
1	A	2628	U
1	A	2629	G
1	A	2634	A
1	A	2635	A
1	A	2636	G
1	A	2637	U
1	A	2650	A
1	A	2652	G
1	A	2656	A
1	A	2657	A
1	A	2658	U
1	A	2659	G
1	A	2663	U
1	A	2664	U
1	A	2665	U
1	A	2666	A
1	A	2669	G
1	A	2674	C
1	A	2680	U
1	A	2684	U
1	A	2685	A
1	A	2686	G
1	A	2690	U
1	A	2696	C
1	A	2705	U
1	A	2708	C
1	A	2709	A
1	A	2712	U
1	A	2728	C
1	A	2735	A
1	A	2748	A
1	A	2754	A
1	A	2760	A
1	A	2764	U
1	A	2766	A
1	A	2767	U

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Mol	Chain	Res	Type
1	A	2768	A
1	A	2777	U
1	A	2787	G
1	A	2788	A
1	A	2794	U
1	A	2810	A
1	A	2815	C
1	A	2816	U
1	A	2826	A
1	A	2835	A
1	A	2836	A
1	A	2839	A
1	A	2842	G
1	A	2843	U
1	A	2856	C
1	A	2857	C
1	A	2860	C
1	A	2865	A
1	A	2877	C
1	A	2878	C
1	A	2896	G
1	A	2901	U
1	A	2909	U
1	A	2913	U
1	A	2915	A
1	A	2920	U
1	A	2922	A
1	A	2924	A
1	A	2925	G
1	A	2928	U
1	A	2929	C
1	A	2930	U
1	A	2931	A
1	A	2934	C
1	A	2935	A
1	A	2940	G
1	A	2950	U
1	A	2951	U
1	A	2958	A
1	A	2960	U
1	A	2966	U
1	A	2973	A

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Mol	Chain	Res	Type
1	A	2975	A
1	A	2976	G
1	A	2977	C
1	A	2978	A
1	A	2989	C
1	A	2990	U
1	A	2998	G
1	A	3001	A
1	A	3003	A
1	A	3012	U
1	A	3026	A
1	A	3027	C
1	A	3038	U
1	A	3039	A
1	A	3040	U
1	A	3041	G
1	A	3068	U
1	A	3078	C
1	A	3079	G
1	A	3082	U
1	A	3083	G
1	A	3094	G
1	A	3108	G
1	A	3120	A
1	A	3128	C
1	A	3150	A
1	A	3156	A
1	A	3158	C
1	A	3159	U
1	A	3170	U
1	A	3194	U
1	A	3195	A
1	A	3198	U
1	A	3208	U
1	A	3216	C
1	A	3217	U
1	A	3235	G
1	A	3242	G
1	A	3243	G
1	A	3244	U
1	A	3245	U
1	A	3250	U

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Mol	Chain	Res	Type
1	A	3255	C
1	A	3259	G
1	A	3260	A
1	A	3268	A
1	A	3269	G
1	A	3274	G
1	A	3278	G
1	A	3287	U
1	A	3288	A
1	A	3303	G
1	A	3305	G
1	A	3307	A
1	A	3308	G
1	A	3309	A
1	A	3312	U
1	A	3319	U
1	A	3320	G
1	A	3335	A
1	A	3337	U
1	A	3338	C
1	A	3341	G
1	A	3343	U
1	A	3345	G
1	A	3349	C
1	A	3356	U
1	A	3357	U
1	A	3367	U
1	A	3369	G
1	A	3374	U
1	A	3378	G
1	A	3380	U
1	A	3381	U
1	A	3382	G
1	A	3387	A
1	A	3388	U
1	A	3409	A
1	A	3410	G
1	A	3411	G
1	A	3412	U
1	A	3419	U
1	A	3425	A
1	A	3426	G

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Mol	Chain	Res	Type
1	A	3437	U
1	A	3438	U
1	A	3458	U
1	A	3476	U
1	A	3477	A
1	A	3479	G
1	A	3480	U
1	A	3491	U
1	A	3493	C
1	A	3507	A
1	A	3513	U
1	A	3514	U
1	A	3526	C
1	A	3534	G
1	A	3535	A
1	A	3536	G
1	A	3538	C
1	A	3539	G
1	A	3540	U
1	A	3541	G
1	A	3544	G
1	A	3546	A
1	A	3547	A
1	A	3548	G
1	A	3554	C
1	A	3555	U
1	A	3556	A
1	A	3557	U
1	A	3558	U
1	A	3576	C
1	A	3581	U
1	A	3582	U
1	A	3584	C
1	A	3585	A
1	A	3588	C
1	A	3590	U
1	A	3592	A
1	A	3593	C
1	A	3599	A
1	A	3604	G
1	A	3613	A
1	A	3619	U

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Mol	Chain	Res	Type
1	A	3621	C
1	A	3629	G
1	A	3631	A
1	A	3632	U
1	A	3654	A
1	A	3656	U
1	A	3662	C
1	A	3668	G
1	A	3669	G
1	A	3672	C
1	A	3673	C
1	A	3675	A
1	A	3680	C
1	A	3698	G
1	A	3700	A
1	A	3712	U
1	A	3716	U
1	A	3717	A
1	A	3718	A
1	A	3720	C
1	A	3722	G
1	A	3723	C
1	A	3725	G
1	A	3732	A
1	A	3734	U
1	A	3737	U
1	A	3746	U
1	A	3755	U
1	A	3757	A
1	A	3760	G
1	A	3761	U
1	A	3768	G
1	A	3769	U
1	A	3770	C
1	A	3771	G
1	A	3772	G
1	A	3773	A
1	A	3776	G
1	A	3786	A
1	A	3787	A
1	A	3788	U
1	A	3794	C

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Mol	Chain	Res	Type
1	A	3795	G
1	A	3798	A
1	A	3799	A
1	A	3801	A
1	A	3808	G
1	A	3809	G
1	A	3810	U
1	A	3815	C
1	A	3821	C
1	A	3822	G
1	A	3826	C
1	A	3834	A
1	A	3841	A
1	A	3844	C
1	A	3845	A
1	A	3863	U
1	A	3878	U
1	A	3880	U
1	A	3915	A
1	A	3916	A
1	A	3923	G
1	A	3926	G
1	A	3929	U
1	A	3931	U
1	A	3933	A
1	A	3934	G
1	A	3935	G
1	A	3940	C
1	A	3945	G
1	A	3949	G
1	A	3951	G
1	A	3955	C
1	A	3972	A
1	A	3987	U
1	A	3992	G
1	A	3994	G
1	A	3995	U
1	A	3998	U
1	A	3999	C
1	A	4005	A
1	A	4008	A
1	A	4014	A

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Mol	Chain	Res	Type
1	A	4022	C
1	A	4023	G
1	A	4026	A
1	A	4036	U
1	A	4043	U
1	A	4051	G
1	A	4059	C
1	A	4064	U
1	A	4070	A
1	A	4075	A
1	A	4078	G
1	A	4080	G
1	A	4082	C
1	A	4083	U
1	A	4095	A
1	A	4097	G
1	A	4103	G
1	A	4109	A
1	A	4110	C
1	A	4131	G
1	A	4135	C
1	A	4136	A
1	A	4137	A
1	A	4140	U
1	A	4147	U
1	A	4148	A
1	A	4153	U
1	A	4156	A
1	A	4157	U
1	A	4164	U
1	A	4171	U
1	A	4172	A
1	A	4176	U
1	A	4178	A
1	A	4180	G
1	A	4193	A
1	A	4195	C
1	A	4196	U
1	A	4198	C
1	A	4201	U
1	A	4202	G
1	A	4203	C

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Mol	Chain	Res	Type
1	A	4204	C
1	A	4212	C

All (83) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	A	151	G
1	A	213	U
1	A	291	C
1	A	327	A
1	A	376	G
1	A	401	A
1	A	413	U
1	A	443	U
1	A	458	U
1	A	761	G
1	A	860	C
1	A	967	A
1	A	1033	U
1	A	1046	G
1	A	1077	U
1	A	1088	A
1	A	1167	U
1	A	1171	G
1	A	1226	A
1	A	1314	A
1	A	1323	A
1	A	1605	C
1	A	1680	C
1	A	1683	G
1	A	1754	C
1	A	1779	A
1	A	1803	C
1	A	1862	C
1	A	1915	A
1	A	1945	A
1	A	2040	U
1	A	2064	C
1	A	2080	C
1	A	2115	A
1	A	2247	A
1	A	2271	U

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Mol	Chain	Res	Type
1	A	2335	A
1	A	2377	A
1	A	2411	C
1	A	2437	U
1	A	2438	C
1	A	2444	U
1	A	2470	C
1	A	2489	U
1	A	2492	C
1	A	2634	A
1	A	2656	A
1	A	2673	G
1	A	2685	A
1	A	2689	C
1	A	2711	U
1	A	2734	U
1	A	2765	A
1	A	2787	G
1	A	2835	A
1	A	2923	G
1	A	2934	C
1	A	3011	U
1	A	3107	U
1	A	3169	U
1	A	3216	C
1	A	3306	A
1	A	3340	A
1	A	3373	G
1	A	3418	U
1	A	3555	U
1	A	3557	U
1	A	3667	G
1	A	3711	C
1	A	3724	U
1	A	3768	G
1	A	3798	A
1	A	3821	C
1	A	3825	C
1	A	3862	C
1	A	3934	G
1	A	3944	G
1	A	3954	U

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Mol	Chain	Res	Type
1	A	3991	G
1	A	3998	U
1	A	4035	A
1	A	4058	C
1	A	4177	U

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
3	MF	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	MF	21:LEU	C	22:ASN	N	1.17

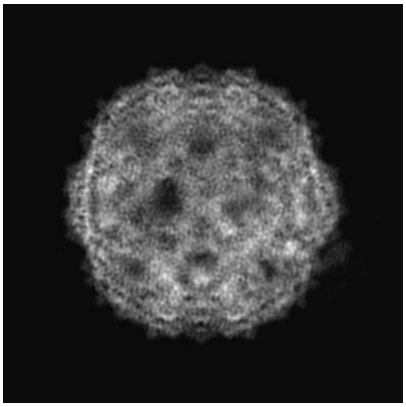
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-23336. These allow visual inspection of the internal detail of the map and identification of artifacts.

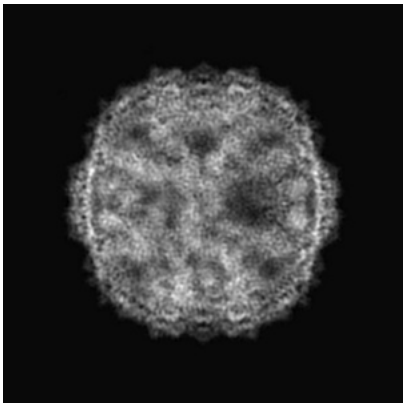
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

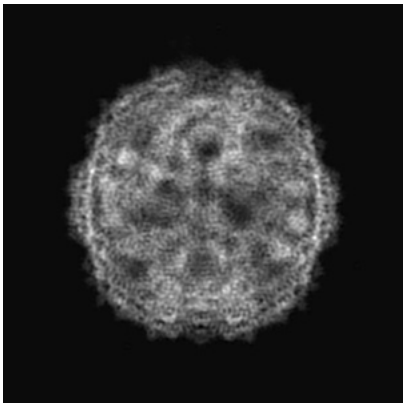
6.1.1 Primary map



X



Y

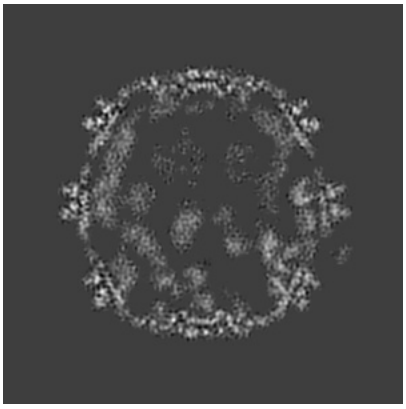


Z

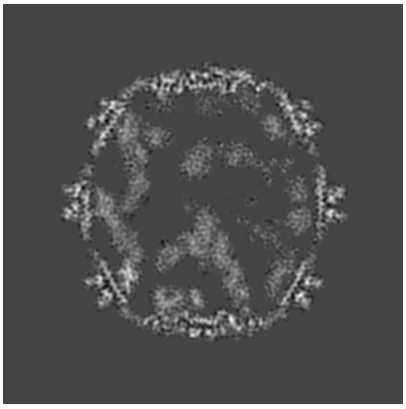
The images above show the map projected in three orthogonal directions.

6.2 Central slices

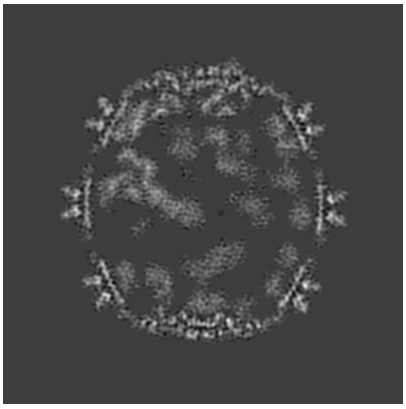
6.2.1 Primary map



X Index: 160



Y Index: 160

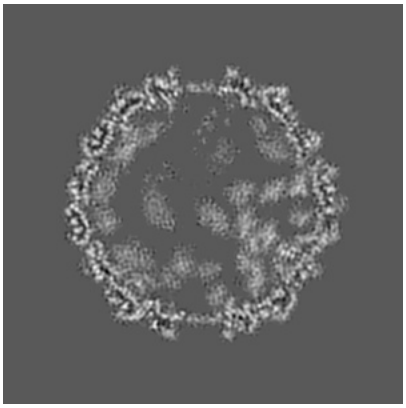


Z Index: 160

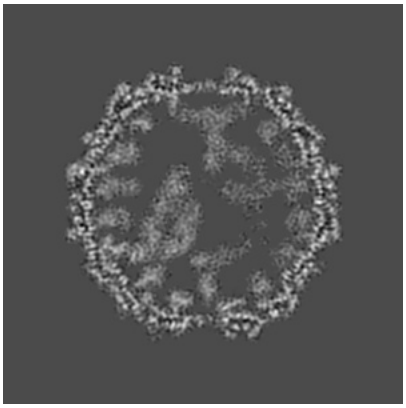
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

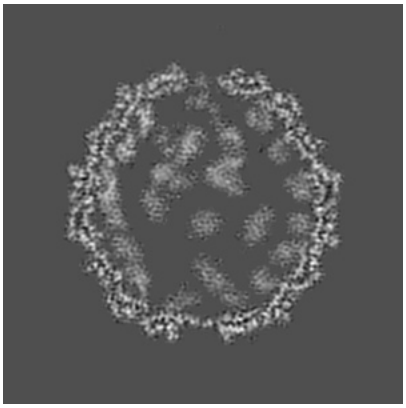
6.3.1 Primary map



X Index: 187



Y Index: 181

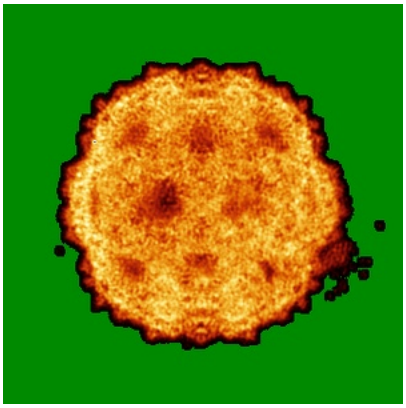


Z Index: 138

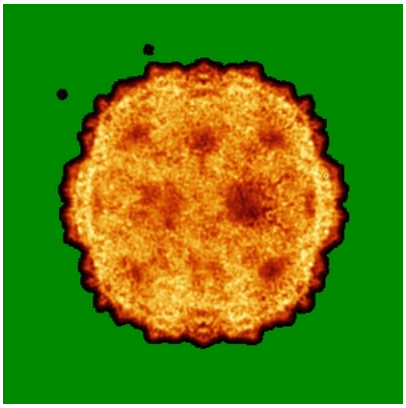
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

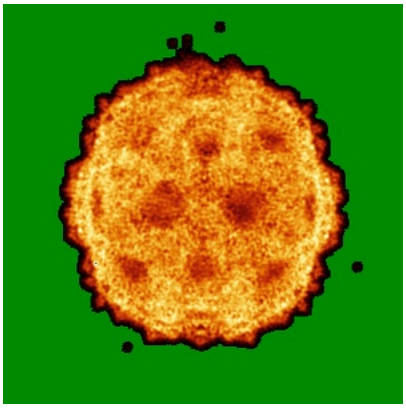
6.4.1 Primary map



X



Y

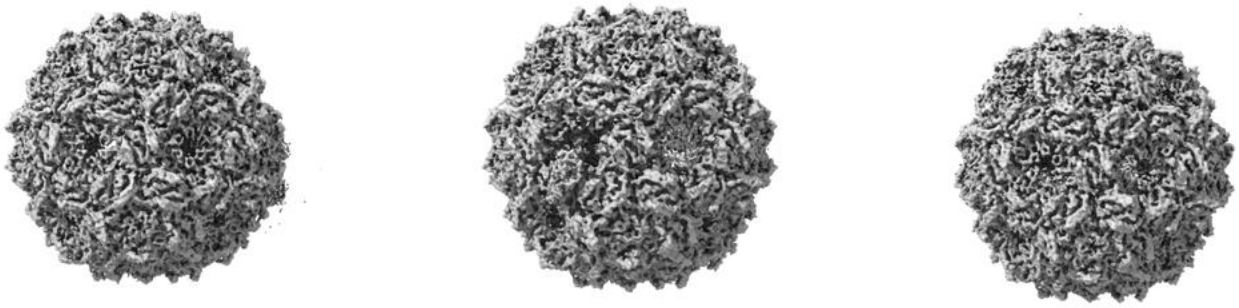


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.018. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

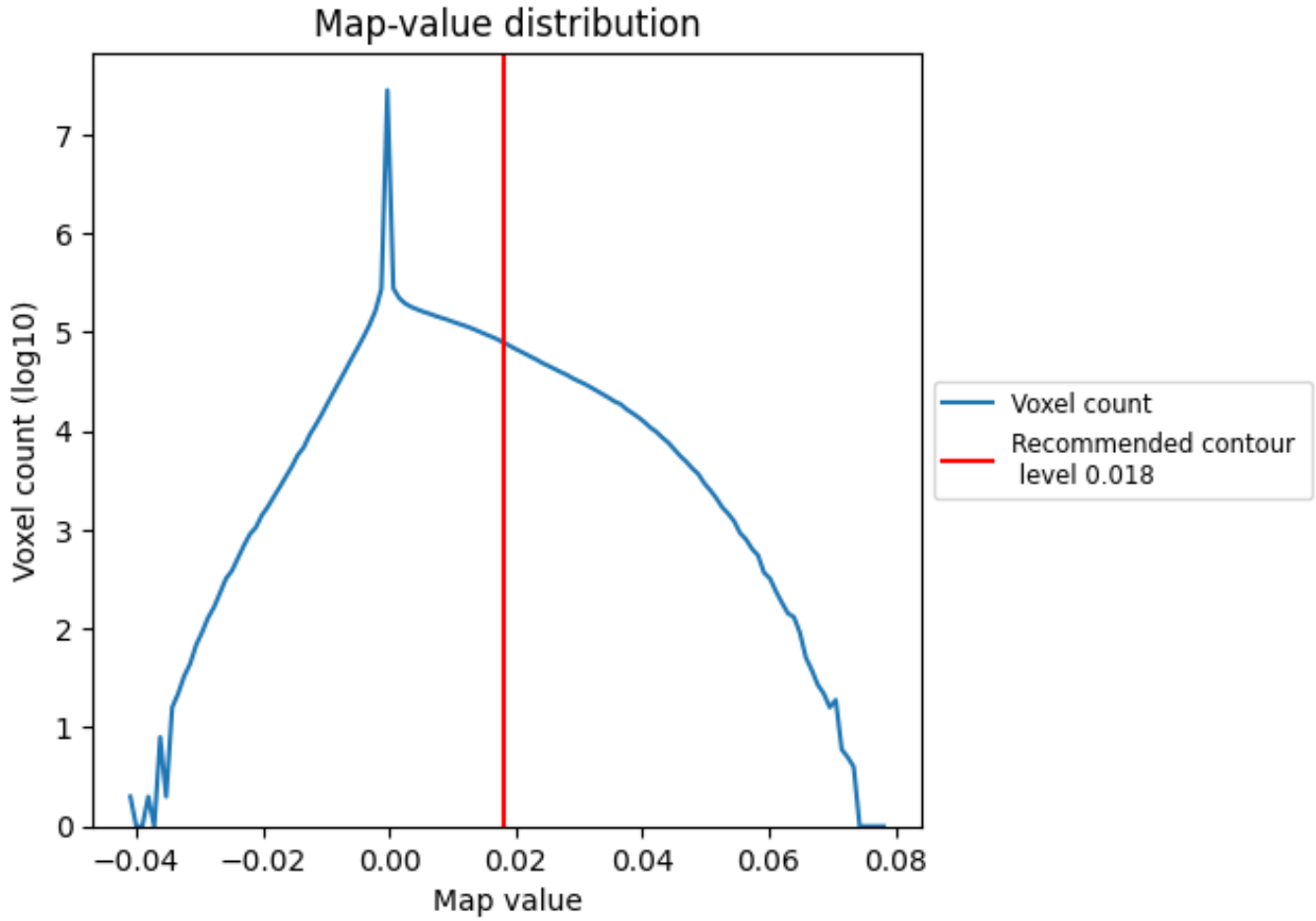
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

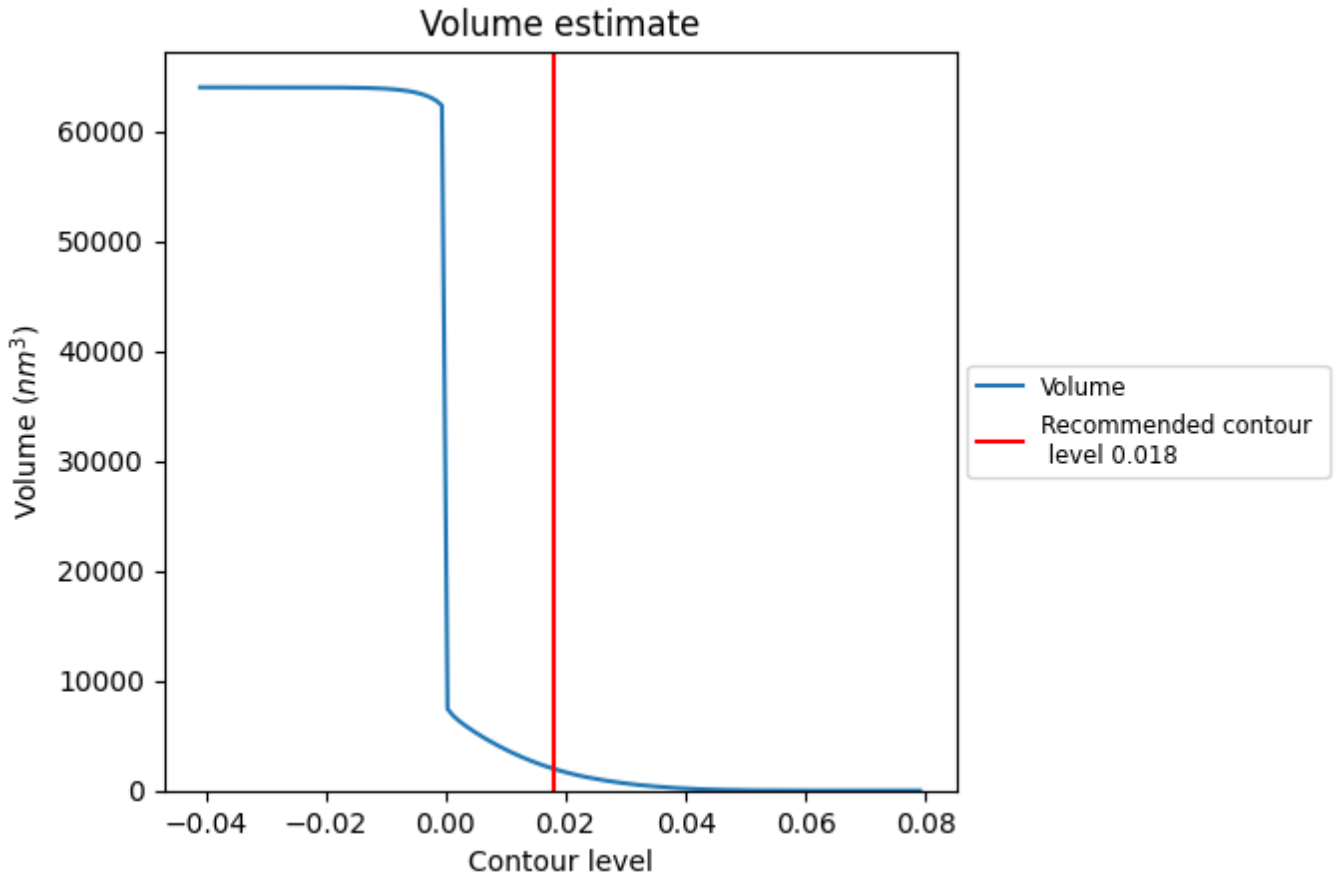
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

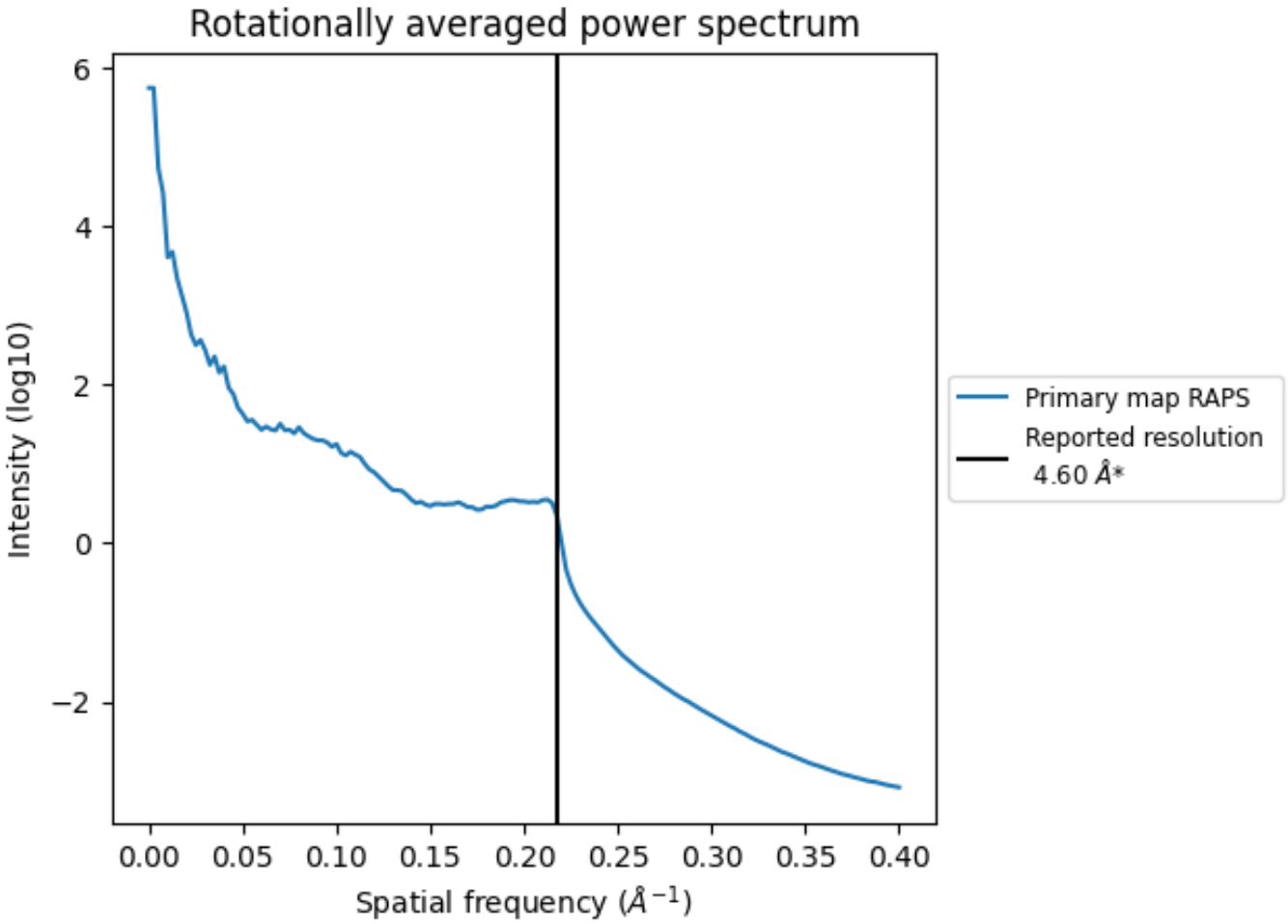
7.2 Volume estimate



The volume at the recommended contour level is 1981 nm^3; this corresponds to an approximate mass of 1790 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)

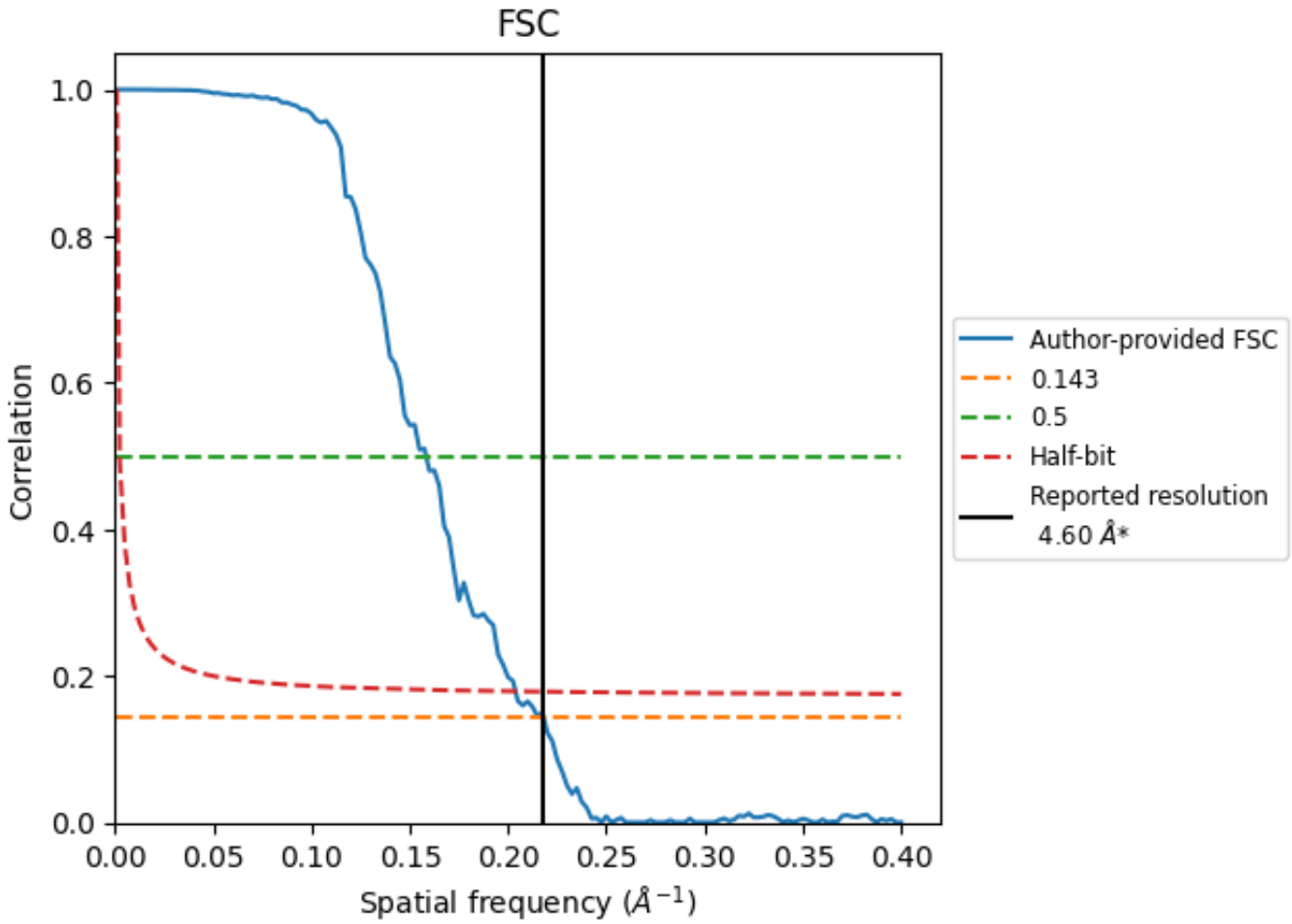


*Reported resolution corresponds to spatial frequency of 0.217 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.217 Å^{-1}

8.2 Resolution estimates (i)

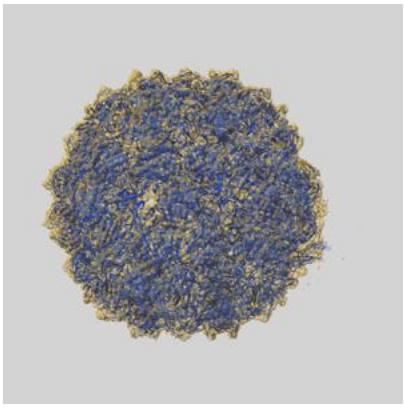
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.60	-	-
Author-provided FSC curve	4.59	6.32	4.91
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

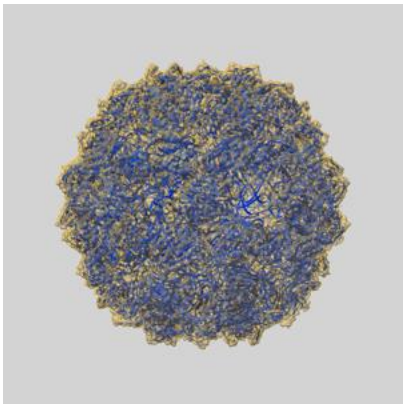
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-23336 and PDB model 7LHD. Per-residue inclusion information can be found in section 3 on page 20.

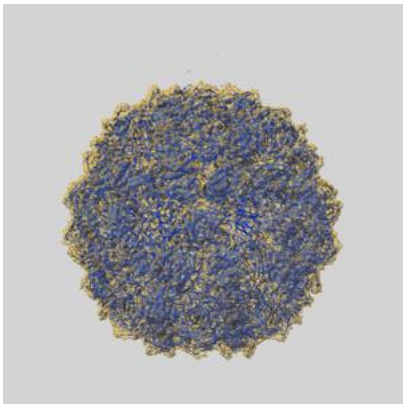
9.1 Map-model overlay



X



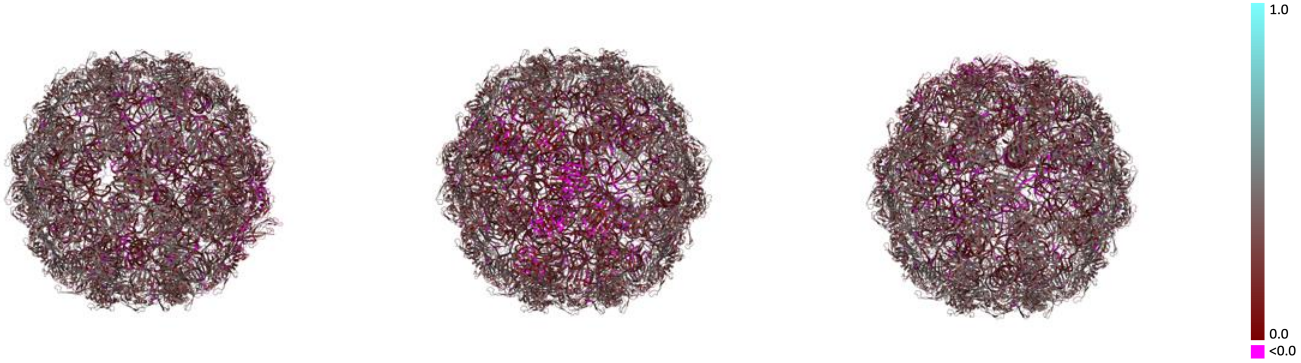
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.018 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

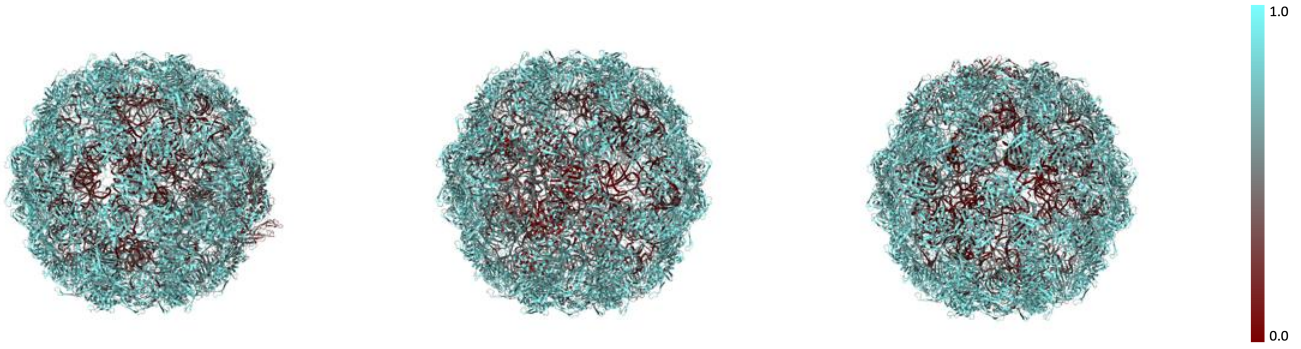
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

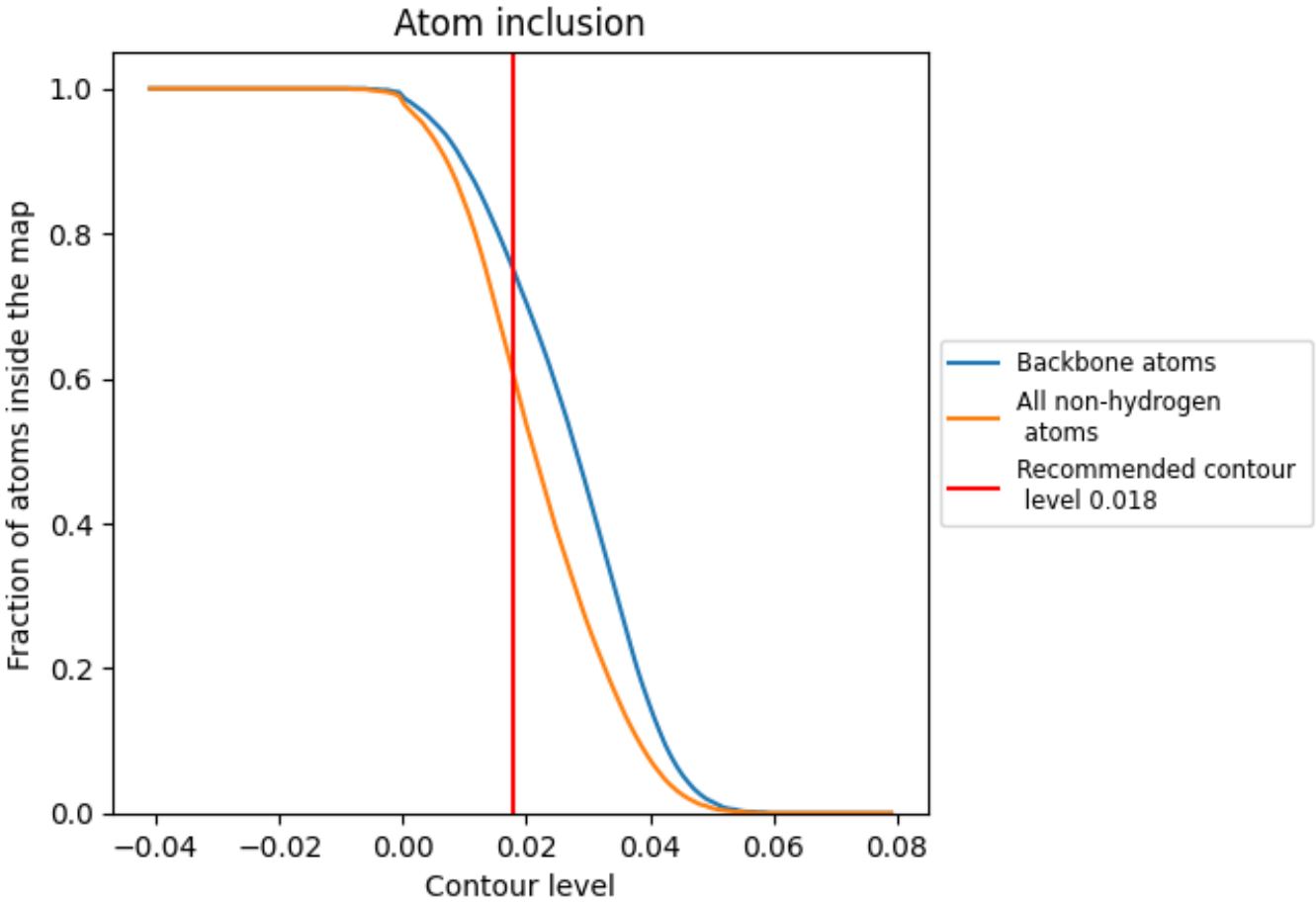
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.018).

9.4 Atom inclusion (i)



At the recommended contour level, 75% of all backbone atoms, 60% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.018) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6020	0.2620
A	0.3700	0.1470
B	0.1130	0.0760
BA	0.7340	0.3420
BB	0.7450	0.3450
BC	0.7550	0.3500
BD	0.7490	0.3420
BE	0.7710	0.3540
BF	0.7710	0.3570
BG	0.7660	0.3570
BH	0.7740	0.3600
BI	0.7240	0.3490
BJ	0.7570	0.3310
BK	0.7850	0.3550
BL	0.7420	0.3510
BM	0.7700	0.3560
BN	0.7810	0.3680
CA	0.7390	0.3440
CB	0.7670	0.3370
CC	0.7590	0.3560
CD	0.7620	0.3600
CE	0.7440	0.3340
CF	0.7650	0.3520
CG	0.7600	0.3590
CH	0.7740	0.3490
CI	0.8050	0.3700
CJ	0.7670	0.3440
CK	0.7590	0.3430
CL	0.7830	0.3660
CM	0.7320	0.3440
CN	0.7530	0.3430
D	0.1120	0.0970
DA	0.7520	0.3480
DB	0.7440	0.3440
DC	0.7490	0.3360

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Chain	Atom inclusion	Q-score
DD	0.7680	0.3510
DE	0.7400	0.3280
DF	0.7470	0.3340
DG	0.7600	0.3560
DH	0.7430	0.3460
DI	0.7630	0.3480
DJ	0.7840	0.3420
DK	0.7410	0.3460
DL	0.7550	0.3310
DM	0.7470	0.3260
DN	0.7100	0.3230
EA	0.7310	0.3150
EB	0.7720	0.3330
EC	0.7070	0.3090
ED	0.7020	0.2550
EE	0.6730	0.2250
EF	0.7090	0.2960
EG	0.5120	0.1790
EH	0.7200	0.2670
EI	0.7270	0.3150
EJ	0.7370	0.3390
EK	0.7400	0.3390
EL	0.7400	0.3410
EM	0.7230	0.3020
EN	0.7470	0.3270
FA	0.7210	0.3140
FB	0.5690	0.1640
FC	0.4310	0.0920
FD	0.4170	0.1180
FE	0.7030	0.2800
FF	0.5590	0.1920
FG	0.4910	0.1460
FH	0.6890	0.2670
FI	0.6710	0.2610
FJ	0.7540	0.3320
FK	0.7430	0.3040
FL	0.7250	0.3090
FM	0.7300	0.3230
FN	0.7600	0.3400
GA	0.7020	0.2980
GB	0.3250	0.0850
GC	0.5530	0.1590

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Chain	Atom inclusion	Q-score
GD	0.6890	0.2740
GE	0.7350	0.3300
GF	0.7300	0.3280
GG	0.7560	0.3300
GH	0.7750	0.3510
GI	0.7460	0.3440
GJ	0.7570	0.3360
GK	0.7650	0.3510
GL	0.7420	0.3450
GM	0.7580	0.3510
GN	0.7810	0.3530
HA	0.7350	0.3470
HB	0.7130	0.3190
HC	0.7630	0.3510
HD	0.7280	0.3190
HE	0.7440	0.3160
HF	0.7550	0.3430
HG	0.7370	0.3270
HH	0.7640	0.3440
HI	0.7890	0.3660
HJ	0.7700	0.3520
HK	0.7560	0.3490
HL	0.7560	0.3640
HM	0.7680	0.3660
HN	0.7620	0.3420
IA	0.7860	0.3720
IB	0.7730	0.3590
IC	0.7630	0.3540
ID	0.7870	0.3650
IE	0.7590	0.3570
IF	0.7430	0.3530
IG	0.7760	0.3670
IH	0.7510	0.3370
II	0.7660	0.3340
IJ	0.7900	0.3560
IK	0.7640	0.3440
IL	0.7740	0.3490
IM	0.7770	0.3720
IN	0.7450	0.3550
JA	0.7580	0.3350
JB	0.7620	0.3450
JC	0.7420	0.3470

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Chain	Atom inclusion	Q-score
JD	0.7500	0.3440
JE	0.7630	0.3490
JF	0.7370	0.3380
JG	0.7590	0.3450
JH	0.7530	0.3390
JI	0.7320	0.3430
JJ	0.7580	0.3500
JK	0.7830	0.3600
JL	0.7690	0.3490
JM	0.7610	0.3490
JN	0.7970	0.3720
KA	0.7440	0.3510
KB	0.7390	0.3380
KC	0.7560	0.3390
KD	0.7100	0.3270
KE	0.6040	0.2110
KF	0.7270	0.2890
KG	0.5710	0.1930
KH	0.7120	0.3190
KI	0.7320	0.3110
KJ	0.7220	0.3270
KK	0.7400	0.3000
KL	0.7530	0.3400
KM	0.7260	0.3380
KN	0.7610	0.3540
LA	0.7610	0.3600
LB	0.7460	0.3410
LC	0.7570	0.3340
LD	0.7590	0.3510
LE	0.7360	0.3230
LF	0.4680	0.1430
LG	0.6730	0.2680
LH	0.4190	0.1080
LI	0.6810	0.2400
LJ	0.5820	0.1930
LK	0.6690	0.2710
LL	0.7360	0.3190
LM	0.7510	0.3360
LN	0.7200	0.2920
M	0.4280	0.2330
MA	0.7560	0.3340
MB	0.7610	0.3310

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Chain	Atom inclusion	Q-score
MC	0.7280	0.3280
MD	0.7370	0.3370
ME	0.7580	0.3600
MF	0.7050	0.3290
MG	0.6910	0.2760
MH	0.7330	0.3230
MI	0.6990	0.2980
MJ	0.7580	0.3150
MK	0.7510	0.3340
ML	0.7420	0.3370
MM	0.7760	0.3340
MN	0.7550	0.3440
NA	0.7610	0.3570
NB	0.7500	0.3520
NC	0.7780	0.3620
ND	0.7350	0.3370
NE	0.7840	0.3550
NF	0.7700	0.3590
NG	0.7560	0.3290
NH	0.7450	0.3390
NI	0.7540	0.3510
NJ	0.7450	0.3390