Full wwPDB EM Validation Report ⓘ

Apr 20, 2026 – 04:26 PM EDT

PDB ID	:	9ZZY / pdb_00009zzy
EMDB ID	:	EMD-75020
Title	:	ssRNA phage PRR1 virion with 3' gRNA
Authors	:	Lill, Z.R.; Zhang, J.
Deposited on	:	2026-01-08
Resolution	:	3.45 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:

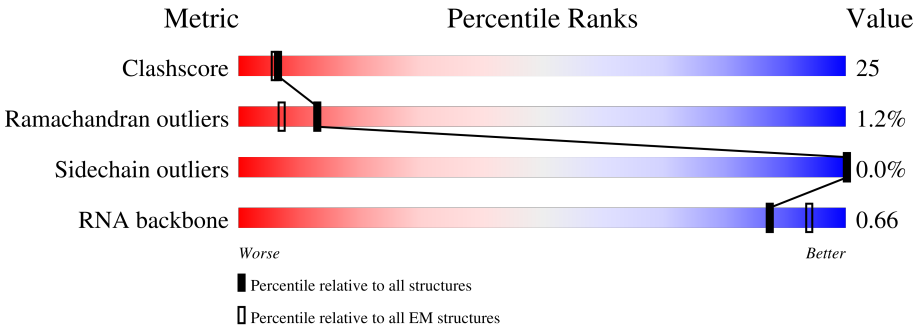
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

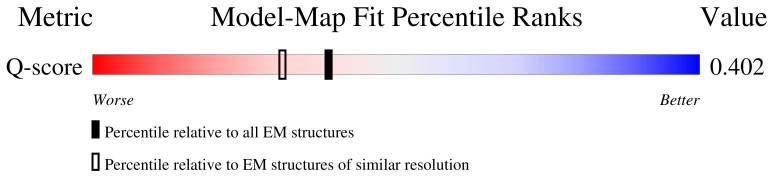
1 Overall quality at a glance

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

The reported resolution of this entry is 3.45 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
RNA backbone	8273	3508	-
Q-score	-	25397	13836 (2.95 - 3.95)

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	F	406	97% 98%
2	AE	132	84% 83% 15%
3	0	131	12% 46% 54%

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Mol	Chain	Length	Quality of chain
3	1	131	7% 57% 43%
3	2	131	10% 66% 34%
3	3	131	11% 53% 47%
3	4	131	16% 41% 58%
3	5	131	8% 56% 44%
3	6	131	11% 50% 50%
3	7	131	11% 46% 53%
3	8	131	10% 46% 54%
3	9	131	15% 51% 49%
3	A	131	5% 46% 52%
3	A0	131	8% 52% 48%
3	A1	131	8% 52% 47%
3	A2	131	8% 48% 50%
3	A3	131	8% 54% 46%
3	A4	131	8% 46% 53%
3	A5	131	11% 47% 52%
3	A6	131	6% 47% 53%
3	A7	131	6% 51% 49%
3	A8	131	11% 44% 56%
3	A9	131	7% 50% 49%
3	AA	131	8% 49% 51%
3	AB	131	15% 42% 58%
3	AC	131	12% 54% 46%
3	AD	131	11% 56% 44%
3	AO	131	8% 50% 50%

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Mol	Chain	Length	Quality of chain
3	AP	131	11% 43% 56%
3	AQ	131	9% 60% 40%
3	AR	131	11% 57% 43%
3	AS	131	7% 53% 47%
3	AT	131	11% 44% 56%
3	AU	131	5% 50% 48%
3	AV	131	6% 37% 63%
3	AW	131	11% 52% 48%
3	AX	131	8% 63% 37%
3	AY	131	12% 49% 50%
3	AZ	131	9% 44% 55%
3	Aa	131	12% 47% 53%
3	Ab	131	10% 49% 51%
3	Ac	131	13% 47% 53%
3	Ad	131	17% 41% 58%
3	Ae	131	11% 47% 53%
3	Af	131	18% 47% 52%
3	Ag	131	21% 48% 52%
3	Ah	131	17% 46% 53%
3	Ai	131	7% 53% 47%
3	Aj	131	11% 37% 63%
3	Ak	131	11% 56% 44%
3	Al	131	11% 47% 52%
3	Am	131	12% 47% 52%
3	An	131	11% 46% 53%

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Mol	Chain	Length	Quality of chain
3	Ao	131	8% 53% 47%
3	Ap	131	12% 47% 52%
3	Aq	131	14% 60% 40%
3	Ar	131	9% 54% 46%
3	As	131	8% 50% 50%
3	At	131	9% 44% 56%
3	Au	131	8% 48% 51%
3	Av	131	12% 42% 57%
3	Aw	131	10% 51% 49%
3	Ax	131	8% 47% 52%
3	Ay	131	8% 56% 44%
3	Az	131	8% 53% 47%
3	B	131	14% 44% 56%
3	B0	131	16% 38% 62%
3	B1	131	9% 54% 44%
3	B2	131	12% 46% 54%
3	B3	131	12% 47% 53%
3	B4	131	14% 49% 50%
3	B5	131	8% 45% 54%
3	B6	131	18% 46% 54%
3	B7	131	9% 50% 48%
3	B8	131	11% 40% 60%
3	B9	131	12% 50% 50%
3	BA	131	7% 48% 52%
3	BB	131	5% 44% 56%

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Mol	Chain	Length	Quality of chain
3	BC	131	5% 44% 56%
3	BD	131	6% 48% 51%
3	BE	131	5% 53% 46%
3	BF	131	8% 40% 60%
3	BG	131	11% 50% 49%
3	BH	131	13% 36% 63%
3	BI	131	11% 53% 47%
3	BJ	131	10% 55% 45%
3	BK	131	11% 47% 51%
3	BL	131	12% 50% 50%
3	BM	131	10% 52% 48%
3	BN	131	9% 47% 53%
3	BO	131	9% 59% 41%
3	BP	131	12% 52% 47%
3	BQ	131	5% 51% 48%
3	BR	131	8% 48% 50%
3	BS	131	10% 46% 54%
3	BV	131	5% 39% 61%
3	BY	131	8% 56% 43%
3	BZ	131	8% 52% 48%
3	Bb	131	11% 50% 50%
3	Bc	131	9% 49% 50%
3	Bd	131	8% 47% 53%
3	Bg	131	14% 50% 50%
3	Bh	131	12% 51% 48%

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Mol	Chain	Length	Quality of chain
3	Bi	131	7% 59% 40%
3	Bj	131	9% 50% 50%
3	Bk	131	6% 49% 51%
3	Bl	131	5% 47% 53%
3	Bm	131	8% 48% 52%
3	Bn	131	12% 38% 62%
3	Bu	131	8% 50% 50%
3	Bv	131	11% 44% 56%
3	Bw	131	8% 50% 50%
3	Bx	131	9% 45% 54%
3	By	131	10% 53% 46%
3	Bz	131	8% 40% 60%
3	C	131	46% 54%
3	CA	131	8% 58% 42%
3	CB	131	13% 43% 56%
3	CC	131	15% 47% 52%
3	CD	131	11% 44% 56%
3	CH	131	10% 47% 53%
3	CI	131	7% 51% 49%
3	CK	131	25% 55% 44%
3	CL	131	27% 49% 51%
3	CM	131	39% 51% 48%
3	CN	131	21% 48% 51%
3	CO	131	12% 50% 50%
3	CP	131	18% 48% 51%

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Mol	Chain	Length	Quality of chain
3	CQ	131	30% 47% 52%
3	CR	131	28% 47% 53%
3	CS	131	33% 54% 46%
3	CT	131	14% 49% 50%
3	D	131	11% 59% 41%
3	E	131	7% 53% 45%
3	G	131	5% 58% 42%
3	H	131	6% 54% 45%
3	I	131	11% 53% 46%
3	J	131	8% 41% 56%
3	K	131	10% 44% 56%
3	L	131	5% 56% 44%
3	M	131	7% 48% 50%
3	N	131	8% 41% 59%
3	O	131	10% 44% 56%
3	P	131	11% 47% 53%
3	Q	131	7% 47% 53%
3	R	131	8% 40% 60%
3	S	131	5% 53% 47%
3	T	131	10% 51% 49%
3	U	131	6% 63% 37%
3	V	131	7% 56% 44%
3	W	131	8% 49% 51%
3	X	131	11% 53% 47%
3	Y	131	8% 48% 52%

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Mol	Chain	Length	Quality of chain
3	Z	131	5% 56% 44%
3	a	131	8% 59% 41%
3	b	131	11% 43% 56%
3	c	131	6% 60% 40%
3	d	131	9% 65% 35%
3	e	131	6% 56% 44%
3	f	131	9% 47% 53%
3	g	131	8% 55% 45%
3	h	131	6% 51% 49%
3	i	131	8% 44% 54%
3	j	131	8% 44% 55%
3	k	131	8% 60% 40%
3	l	131	9% 53% 47%
3	m	131	5% 49% 50%
3	n	131	11% 49% 51%
3	o	131	6% 56% 44%
3	p	131	10% 52% 48%
3	q	131	11% 51% 48%
3	r	131	11% 44% 56%
3	s	131	11% 51% 49%
3	t	131	10% 50% 50%
3	u	131	8% 51% 48%
3	v	131	11% 48% 52%
3	w	131	11% 57% 43%
3	x	131	11% 58% 42%

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Mol	Chain	Length	Quality of chain
3	y	131	
3	z	131	

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 192962 atoms, of which 4643 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 protein called Maturation Protein.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	F	406	Total	C	H	N	O	S	0	0
			6461	2072	3222	566	590	11		

- Molecule 2 is a RNA chain called 3' gRNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
2	AE	132	Total	C	H	N	O	P	0	0
			4225	1252	1421	493	927	132		

- Molecule 3 is a protein called Coat Protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	0	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	1	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	2	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	3	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	4	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	5	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	6	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	7	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	8	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	9	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	A	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	B	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	C	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	D	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	E	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	O	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	P	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Q	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	R	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	S	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	T	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	U	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	V	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	W	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	X	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Y	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Z	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	a	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	b	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	c	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	d	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	e	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	f	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	g	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	h	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	i	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	j	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	k	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	l	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	m	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	n	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	o	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	p	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	q	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	r	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	s	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	t	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	u	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	v	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	w	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	x	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	y	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	z	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	G	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	H	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	I	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	J	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	K	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	L	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	M	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	N	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AA	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AB	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AC	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AD	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AO	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AP	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AQ	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AR	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AS	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AT	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AU	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AV	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AW	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	AX	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AY	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	AZ	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Aa	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Ab	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Ac	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Ad	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Ae	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Af	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Ag	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Ah	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Ai	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Aj	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Ak	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Al	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Am	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	An	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Ao	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Ap	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Aq	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Ar	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	As	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	At	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Au	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Av	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Aw	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Ax	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Ay	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Az	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	A1	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	A2	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	A3	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	A4	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	A5	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	A6	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	A7	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	A8	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	A9	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	A0	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BA	131	Total	C	N	O	S	1	0
			1028	642	182	202	2		
3	BB	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BC	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	BD	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BE	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BF	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BG	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BH	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BI	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BJ	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BK	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BL	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BM	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BN	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BO	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BP	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BQ	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BR	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BS	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BV	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BY	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	BZ	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bb	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bc	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	Bd	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bg	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bh	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bi	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bj	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bk	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bl	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bm	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bn	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bu	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bv	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bw	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bx	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	By	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	Bz	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	B1	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	B2	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	B3	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	B4	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	B5	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	B6	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		

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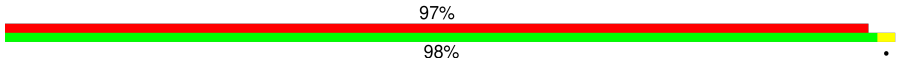
Mol	Chain	Residues	Atoms					AltConf	Trace
3	B7	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	B8	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	B9	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	B0	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CA	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CB	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CC	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CD	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CH	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CI	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CK	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CL	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CM	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CN	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CO	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CP	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CQ	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CR	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CS	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		
3	CT	131	Total	C	N	O	S	0	0
			1024	640	182	200	2		

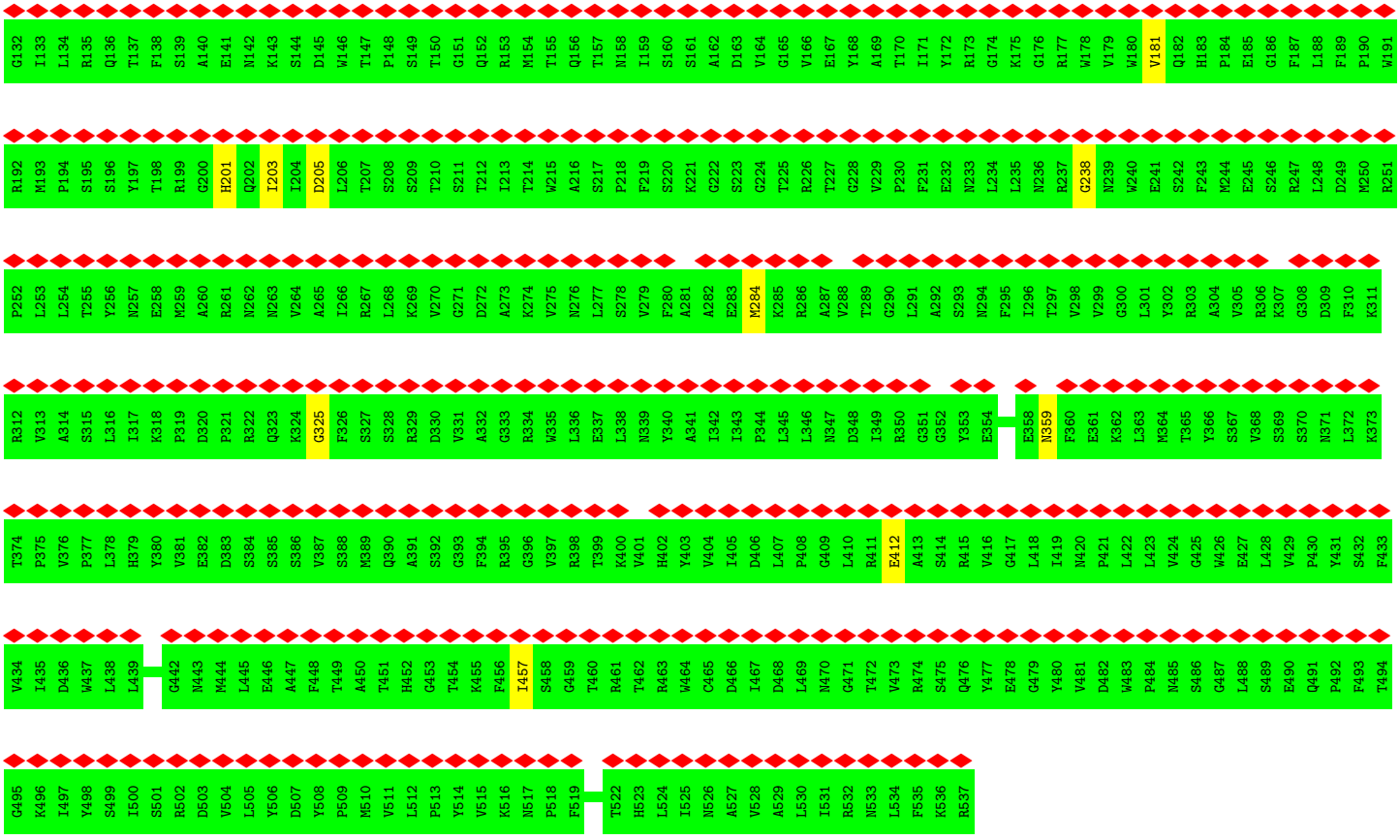
3 Residue-property plots (i)

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: Maturation Protein

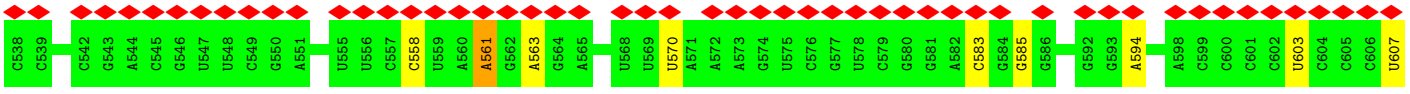
Chain F:

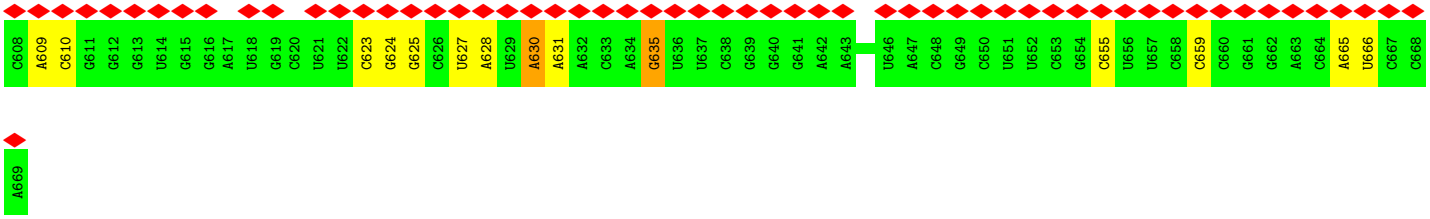




• Molecule 2: 3' gRNA

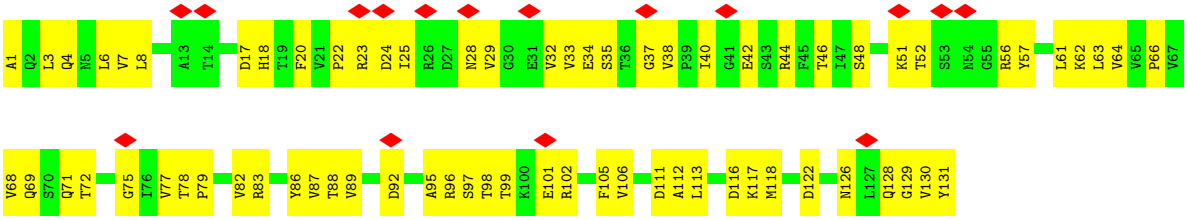
Chain AE:





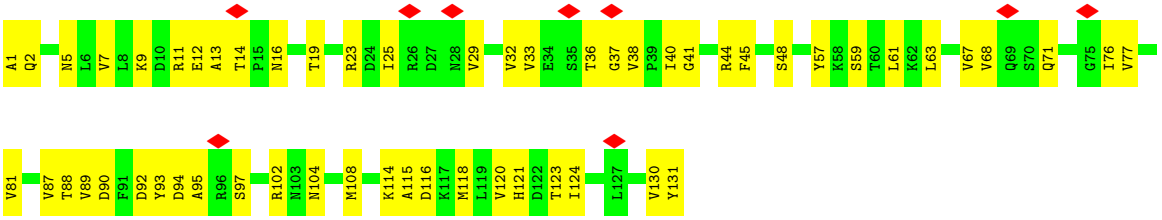
• Molecule 3: Coat Protein

Chain 0:



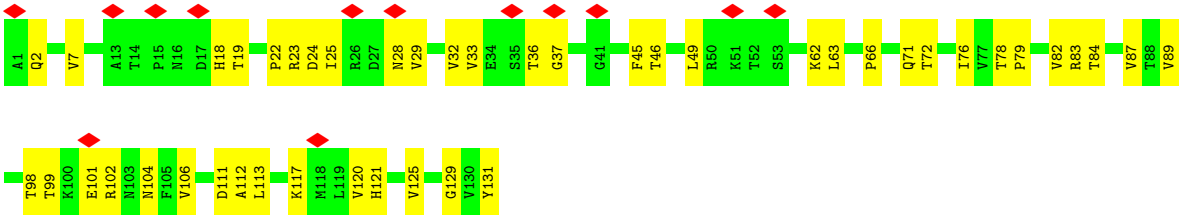
• Molecule 3: Coat Protein

Chain 1:



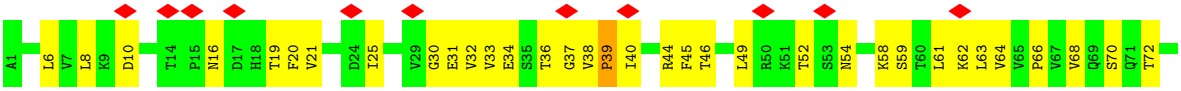
• Molecule 3: Coat Protein

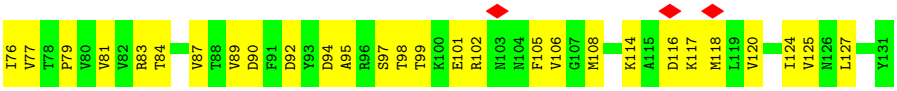
Chain 2:



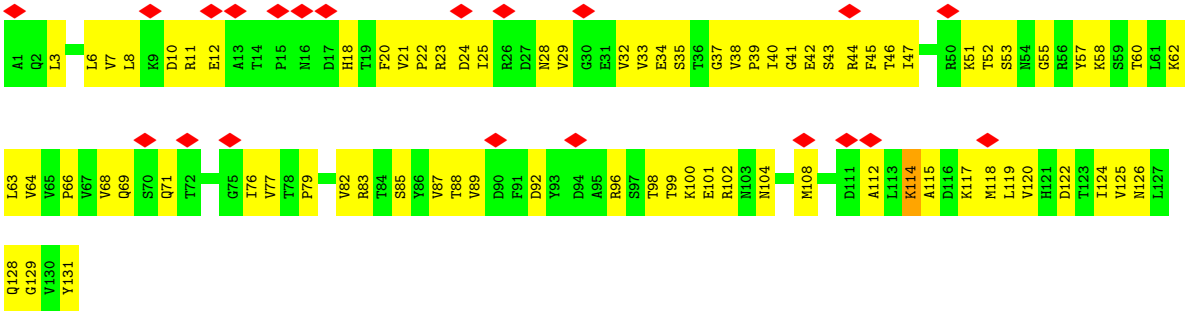
• Molecule 3: Coat Protein

Chain 3:

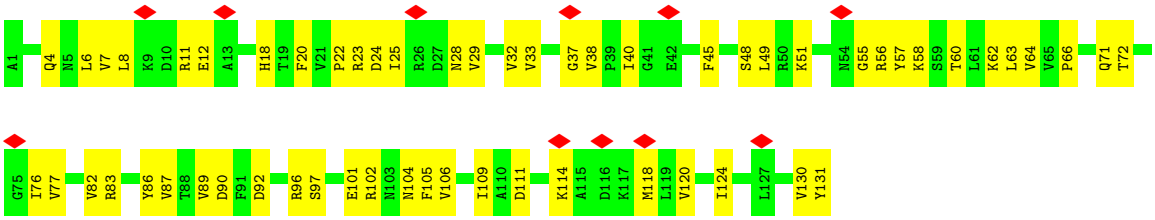




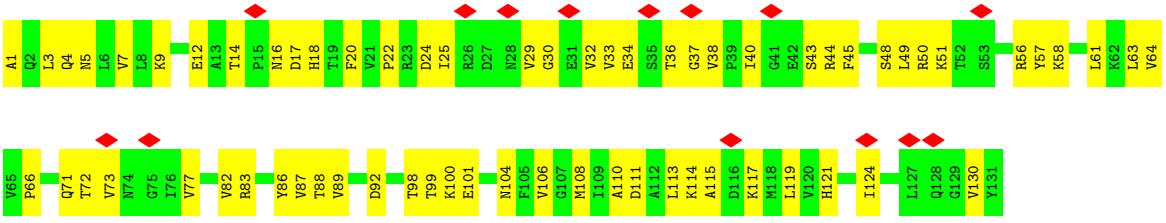
• Molecule 3: Coat Protein



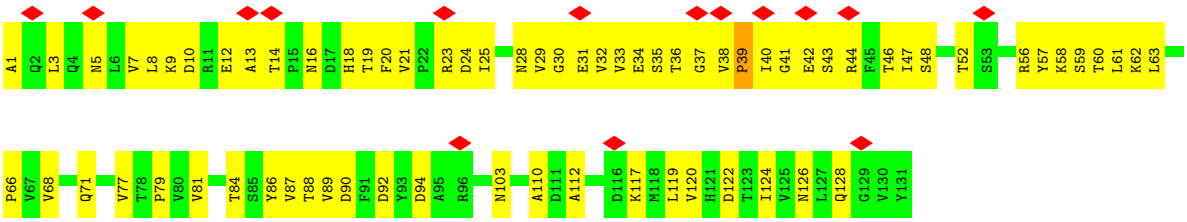
• Molecule 3: Coat Protein



• Molecule 3: Coat Protein

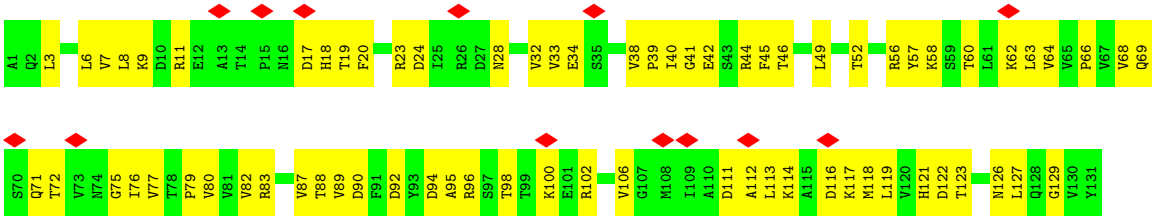


• Molecule 3: Coat Protein



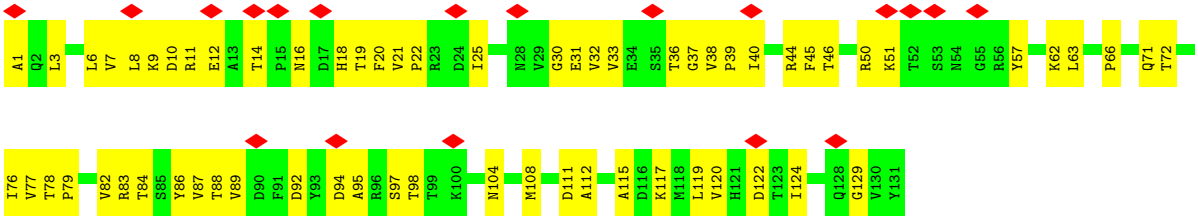
• Molecule 3: Coat Protein

Chain 8:



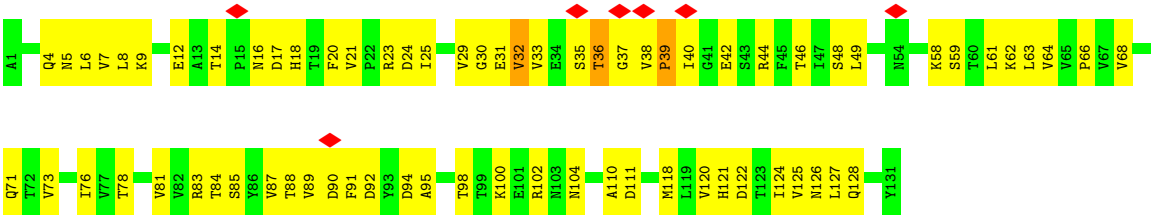
• Molecule 3: Coat Protein

Chain 9:



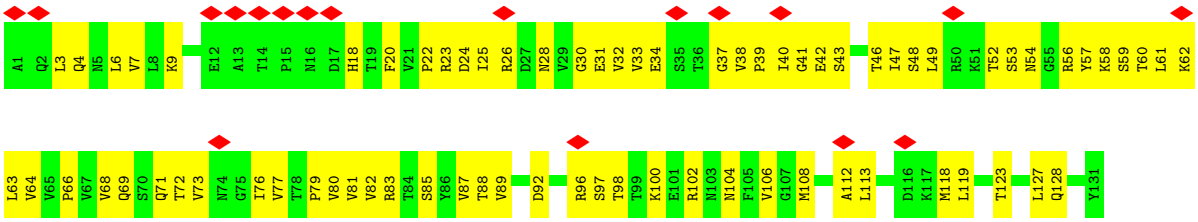
• Molecule 3: Coat Protein

Chain A:



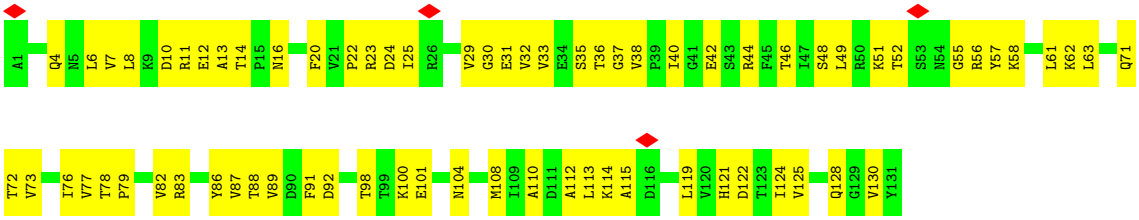
• Molecule 3: Coat Protein

Chain B:



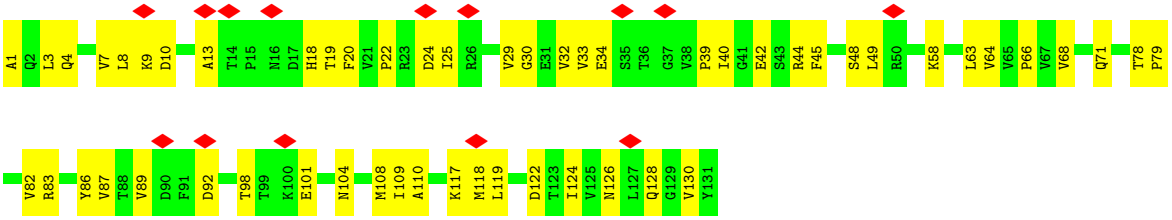
• Molecule 3: Coat Protein

Chain C:



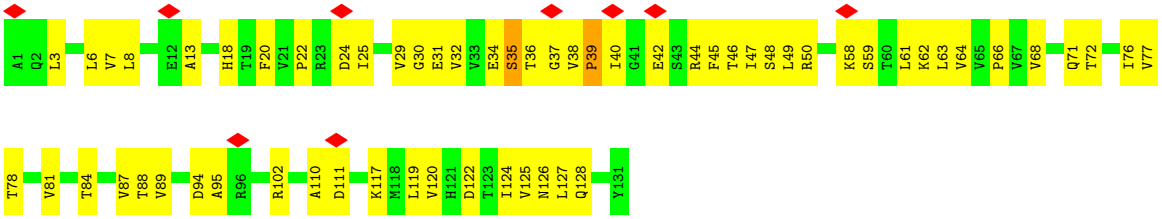
• Molecule 3: Coat Protein

Chain D:



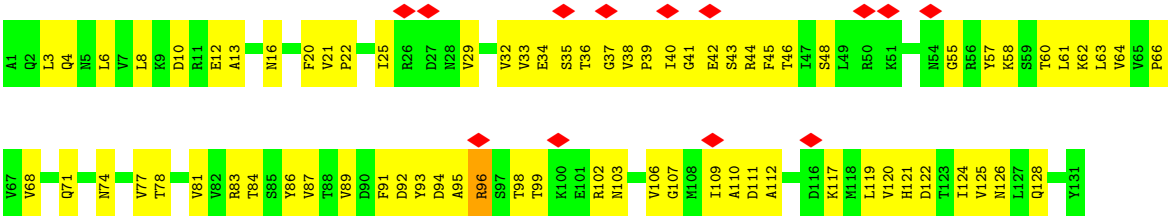
• Molecule 3: Coat Protein

Chain E:



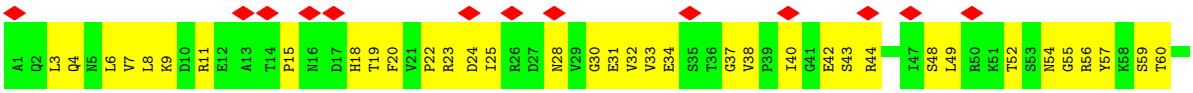
• Molecule 3: Coat Protein

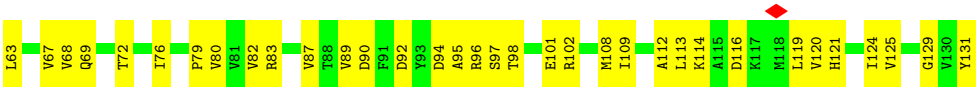
Chain O:



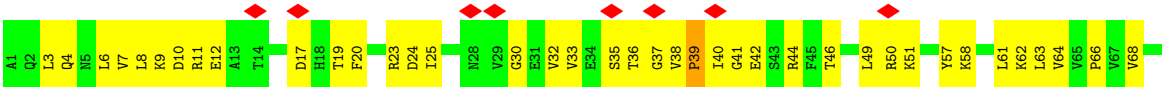
• Molecule 3: Coat Protein

Chain P:

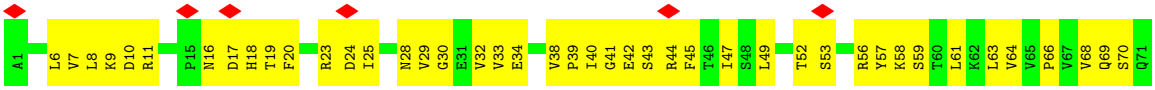


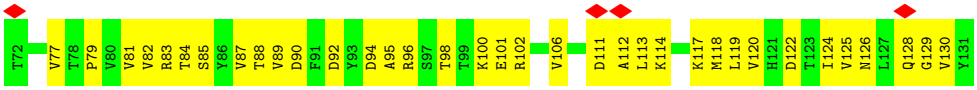


• Molecule 3: Coat Protein

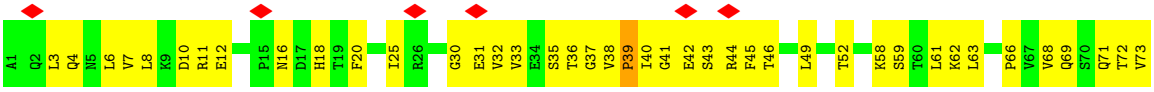


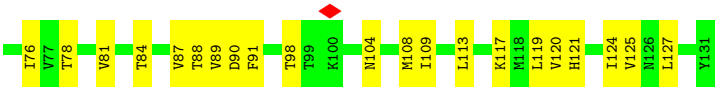
• Molecule 3: Coat Protein



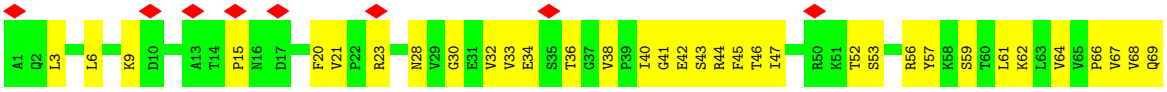


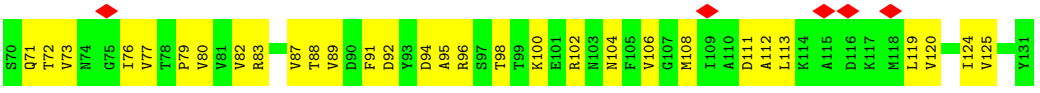
• Molecule 3: Coat Protein





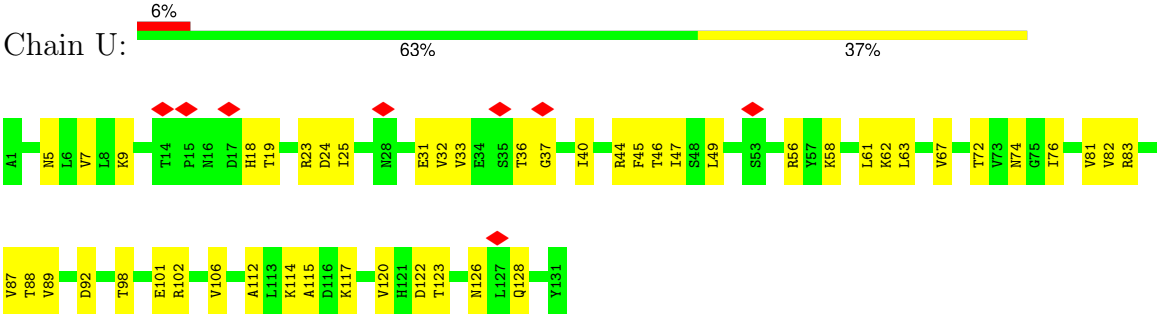
• Molecule 3: Coat Protein





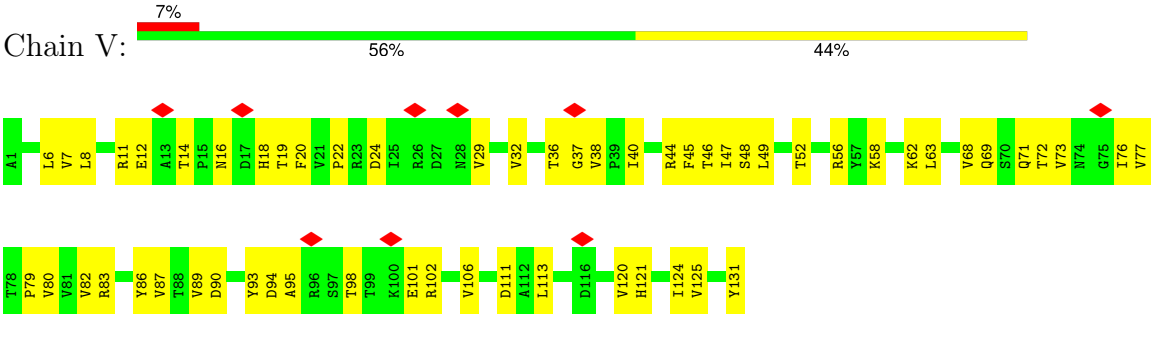
• Molecule 3: Coat Protein

Chain U:



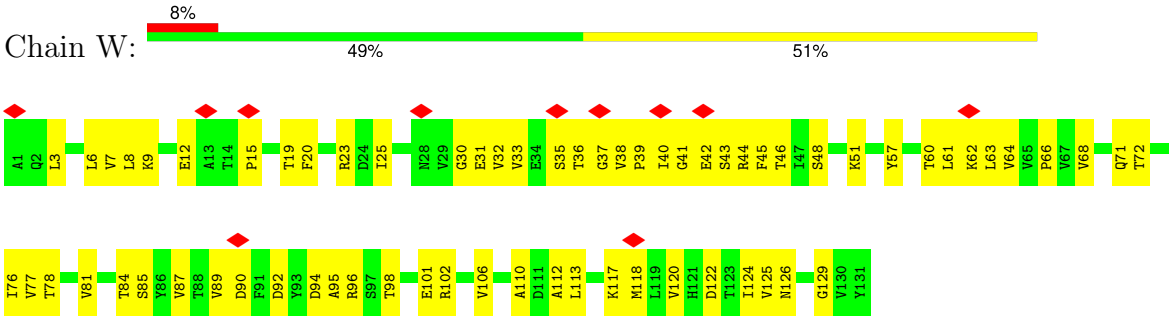
• Molecule 3: Coat Protein

Chain V:



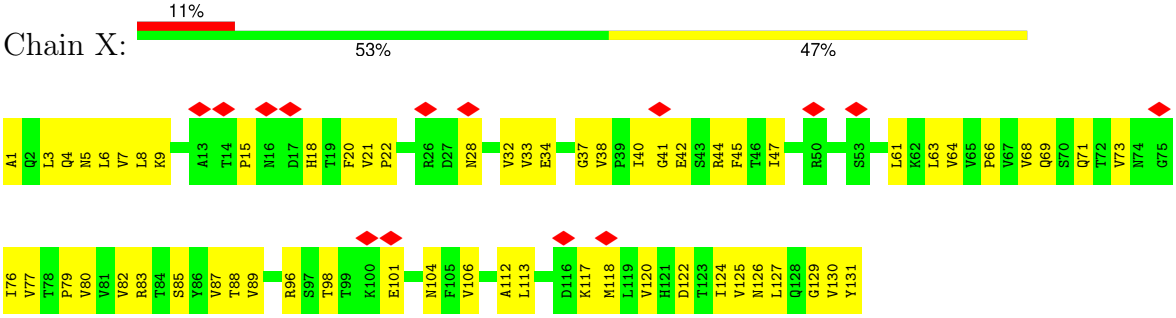
• Molecule 3: Coat Protein

Chain W:



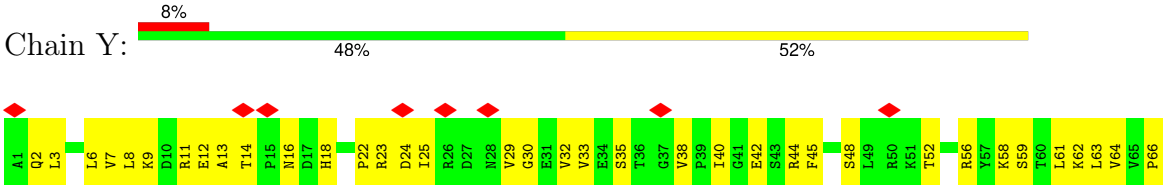
• Molecule 3: Coat Protein

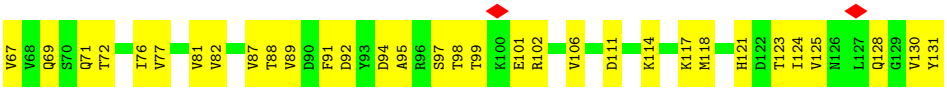
Chain X:



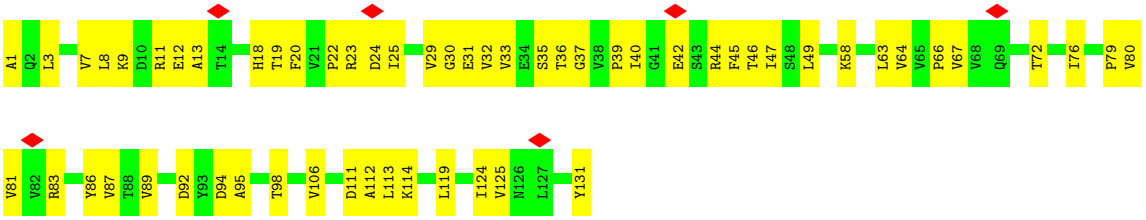
• Molecule 3: Coat Protein

Chain Y:

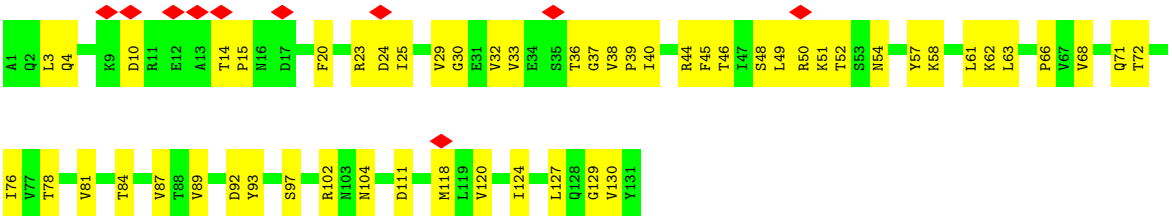




• Molecule 3: Coat Protein



• Molecule 3: Coat Protein



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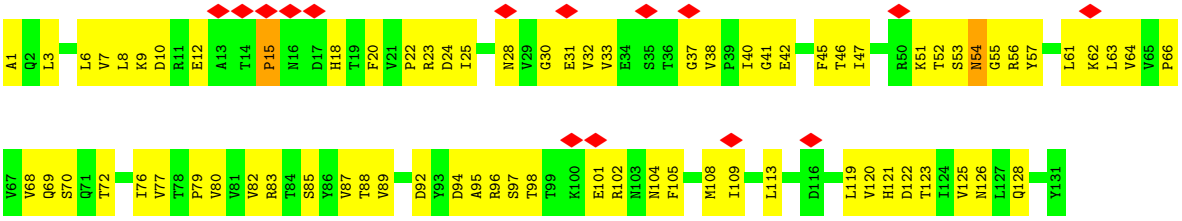
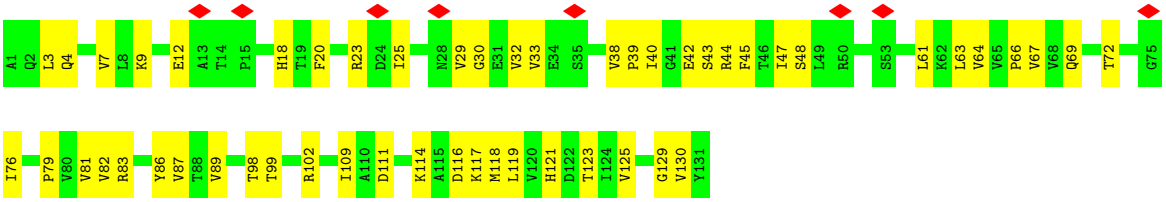


• Molecule 3: Coat Protein



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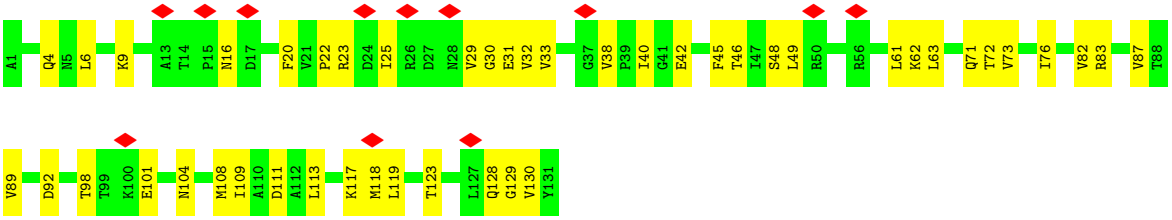
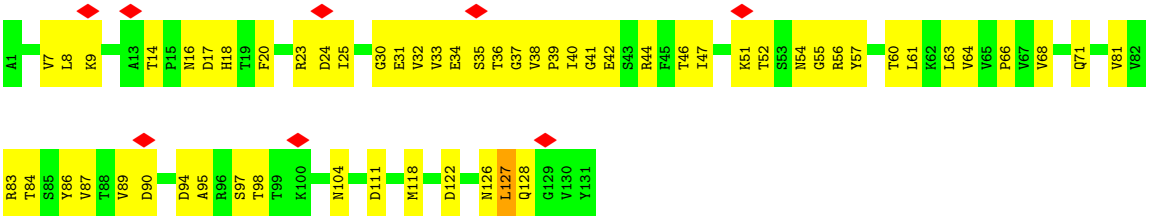
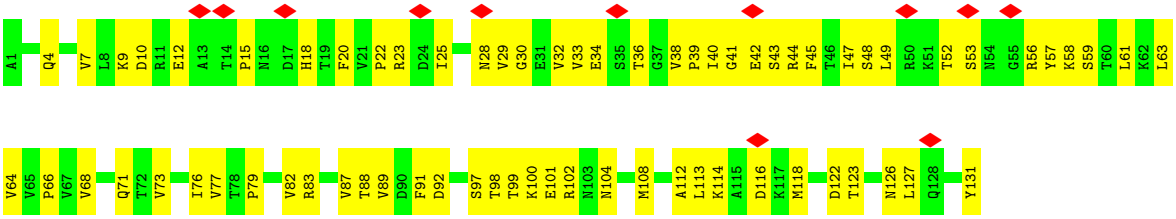


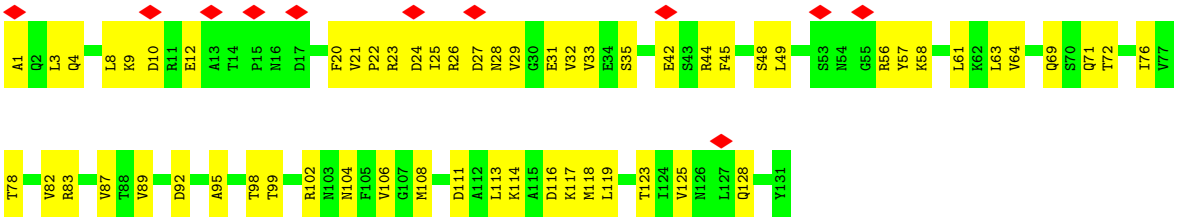
• Molecule 3: Coat Protein



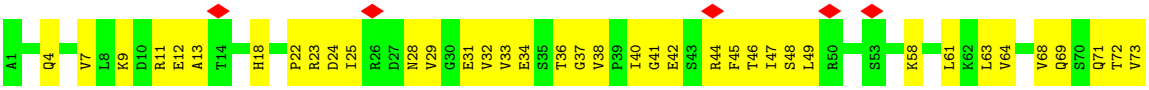
• Molecule 3: Coat Protein

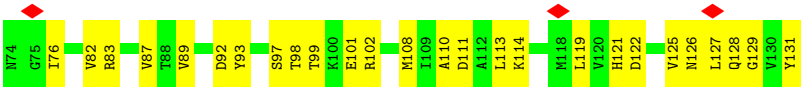


• Molecule 3: Coat Protein

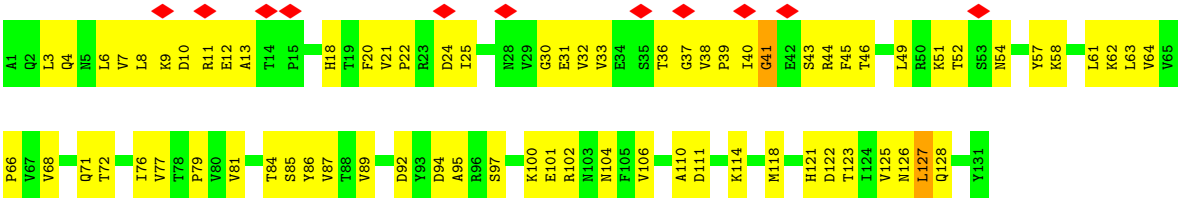


• Molecule 3: Coat Protein





• Molecule 3: Coat Protein



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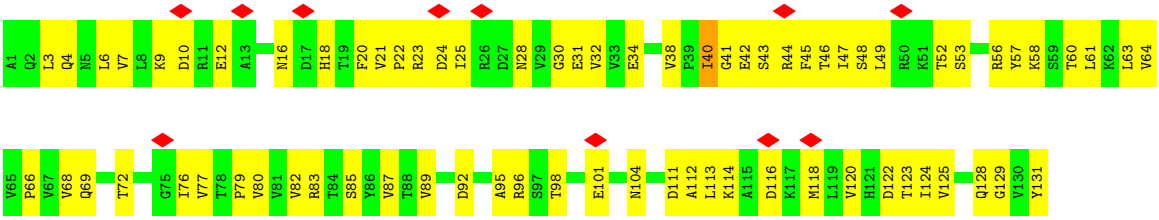
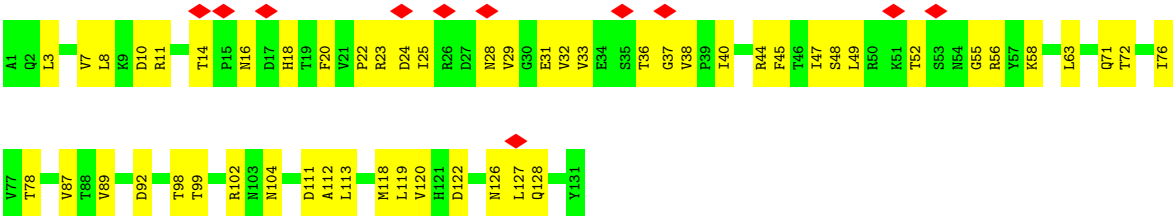
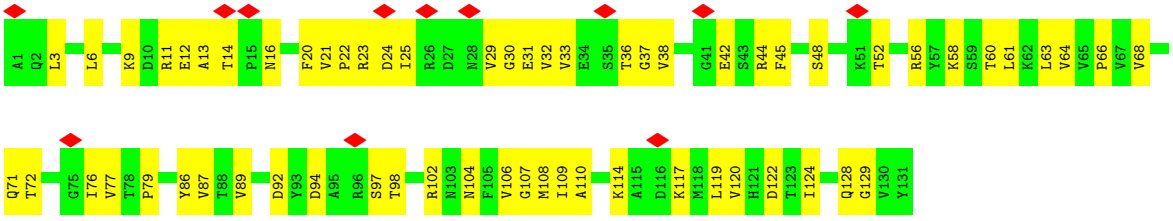


• Molecule 3: Coat Protein



• Molecule 3: Coat Protein



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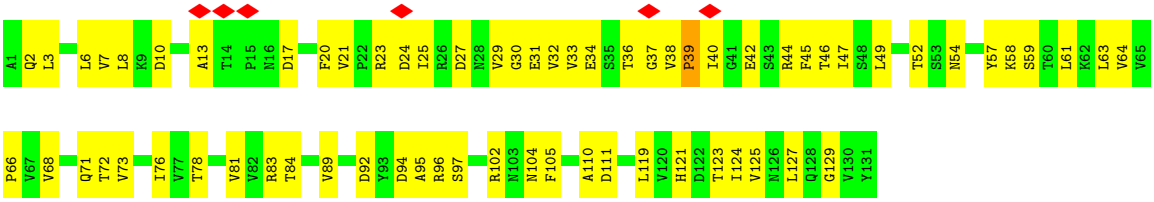

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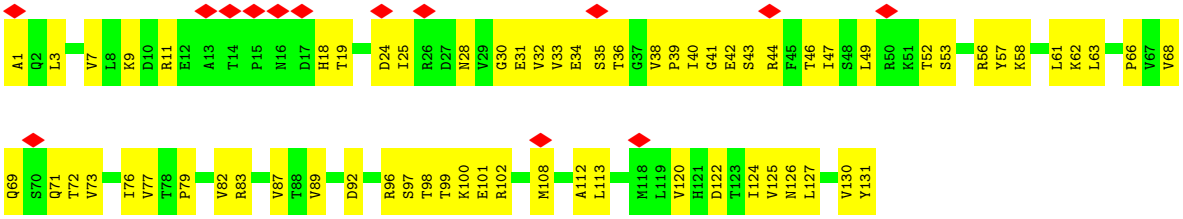

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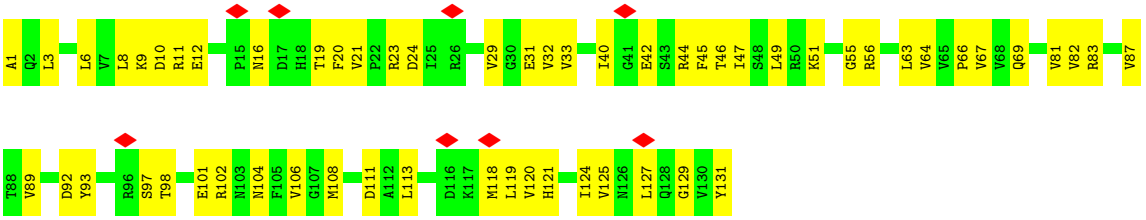

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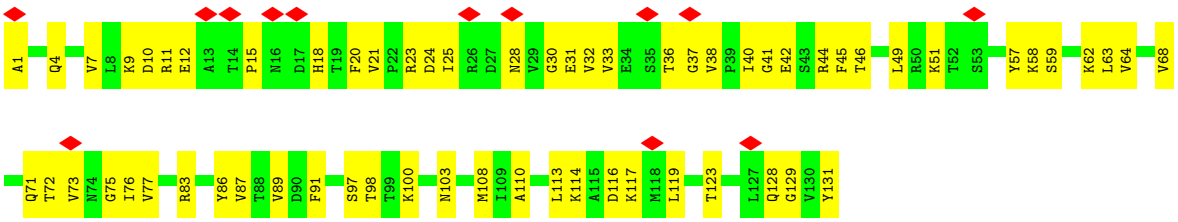

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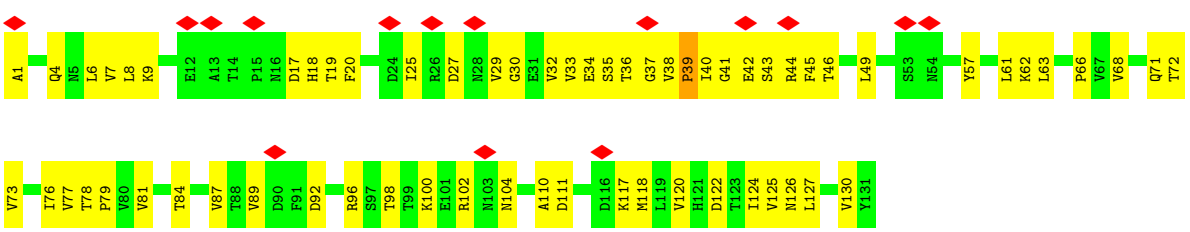

• Molecule 3: Coat Protein

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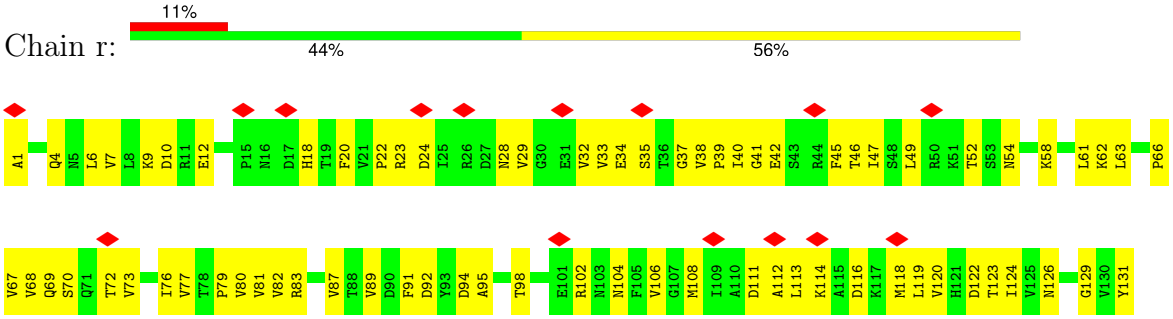
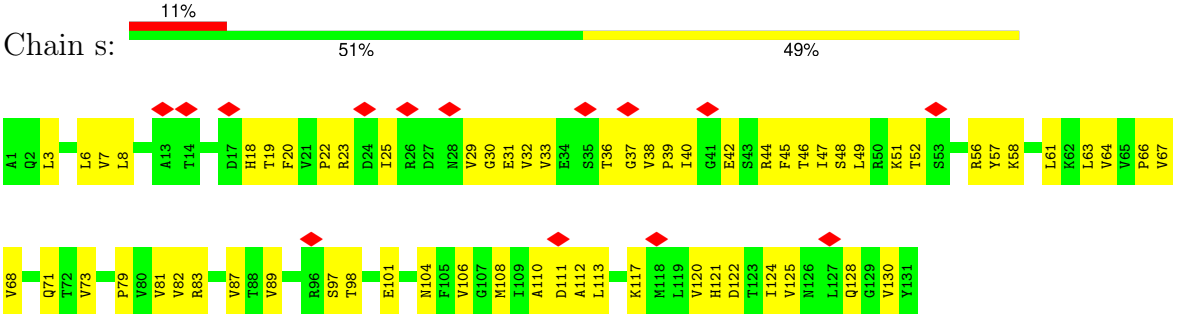


• Molecule 3: Coat Protein

Chain s:



• Molecule 3: Coat Protein

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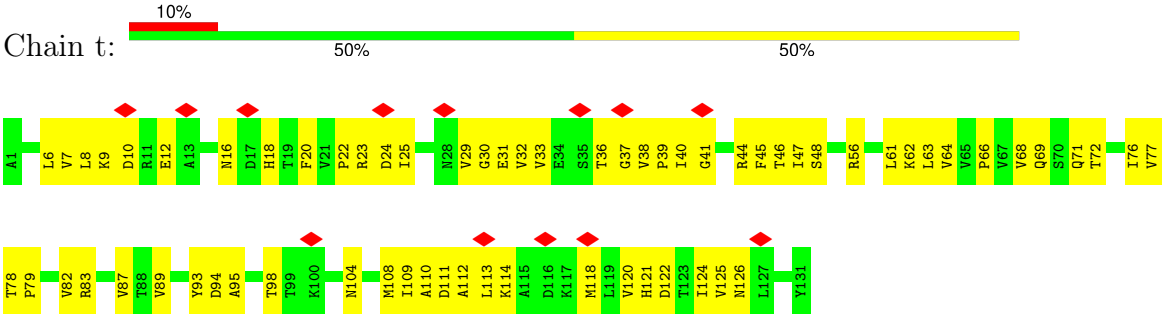

• Molecule 3: Coat Protein

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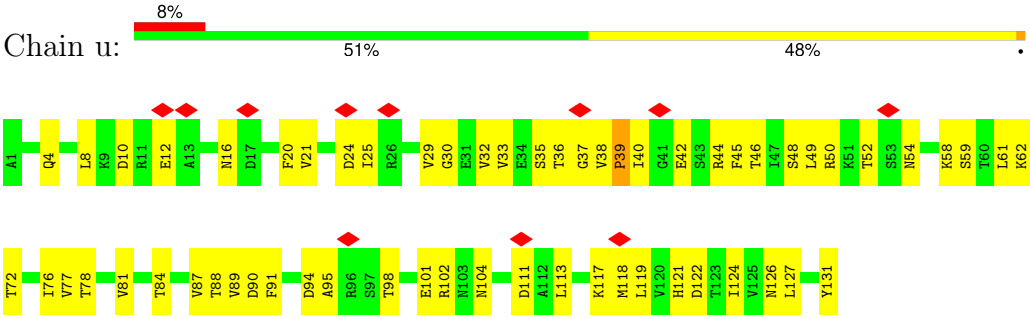
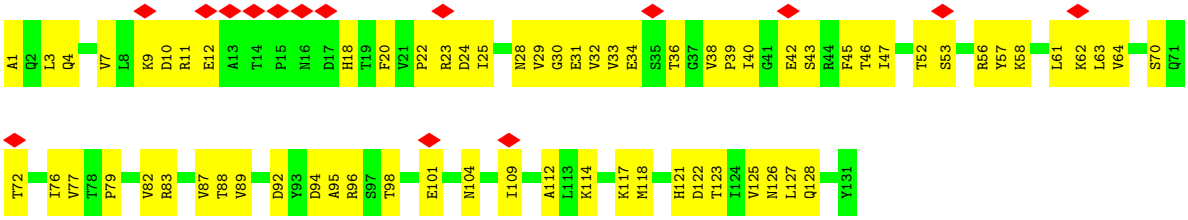


• Molecule 3: Coat Protein

Chain v:



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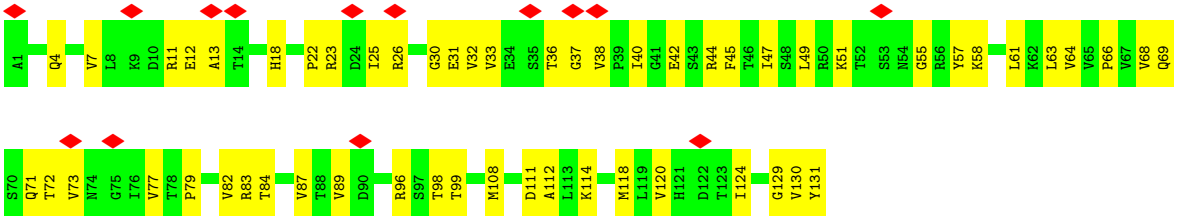

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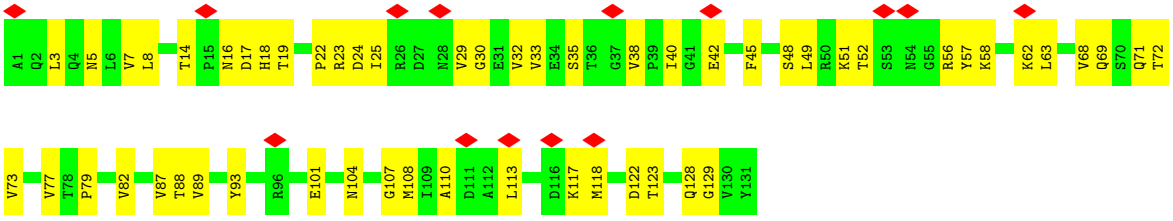

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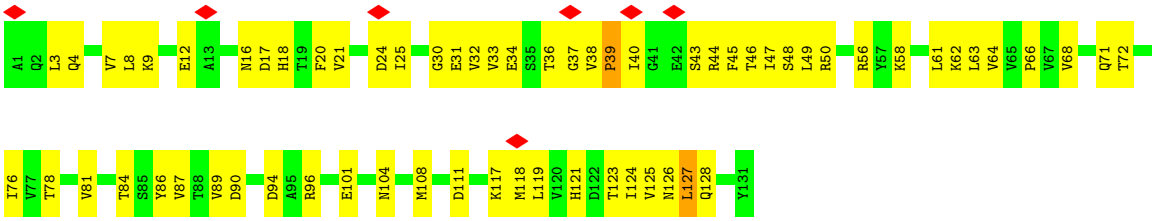

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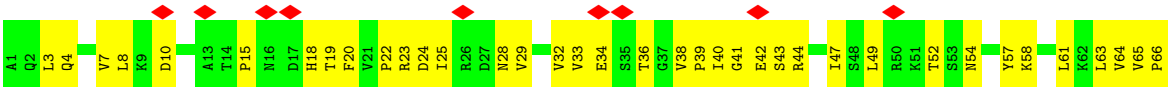

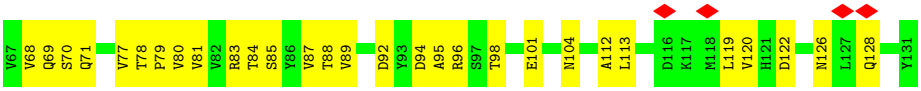

• Molecule 3: Coat Protein

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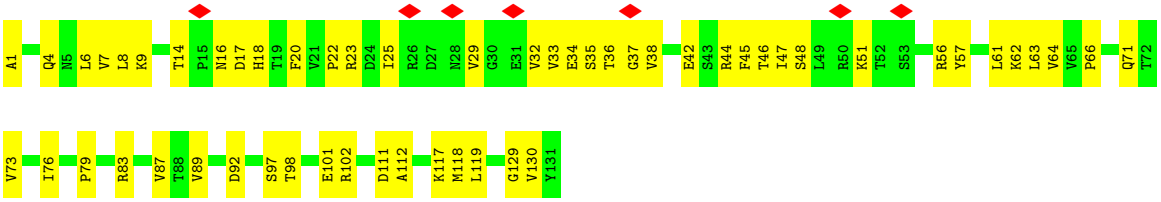
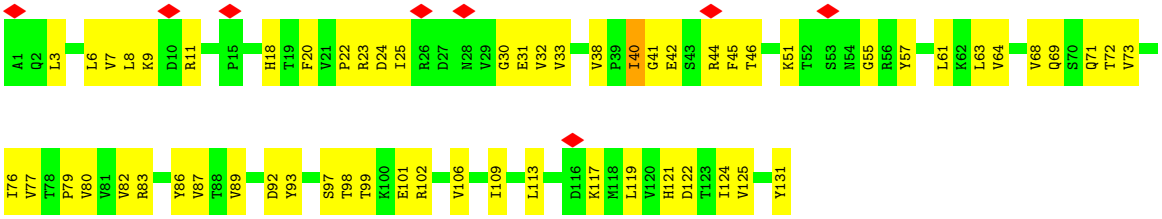


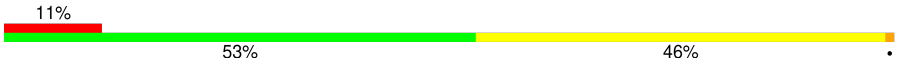
• Molecule 3: Coat Protein

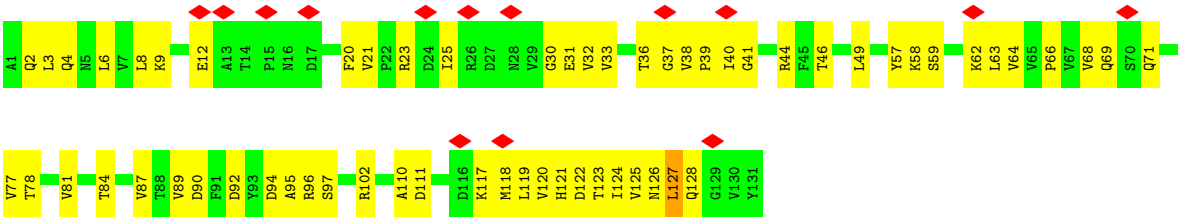
Chain H:



• Molecule 3: Coat Protein

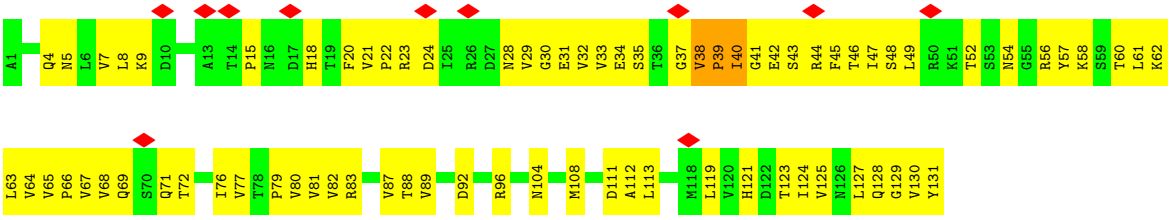
Chain I:





• Molecule 3: Coat Protein

Chain J:



• Molecule 3: Coat Protein

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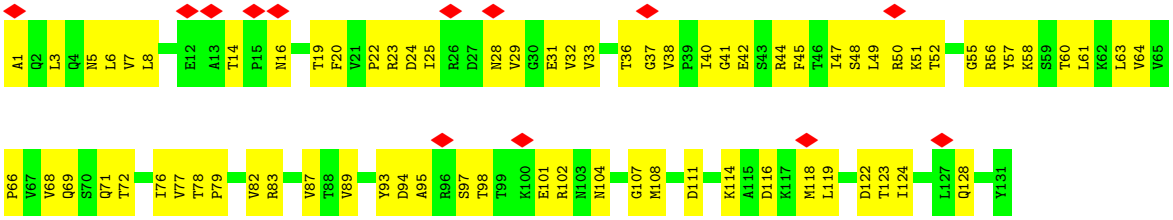
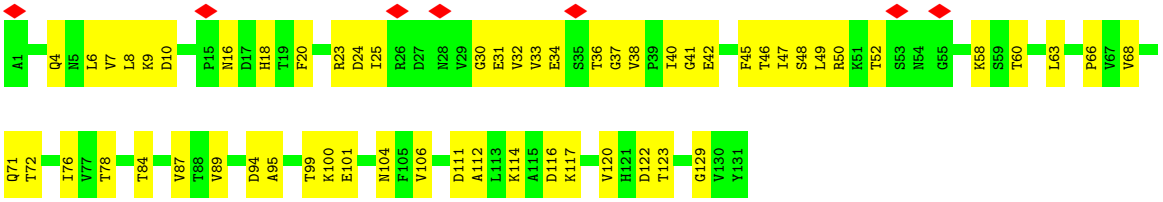


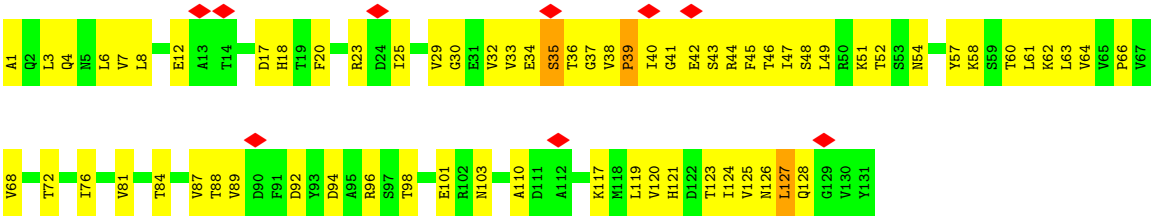
• Molecule 3: Coat Protein

Chain L:



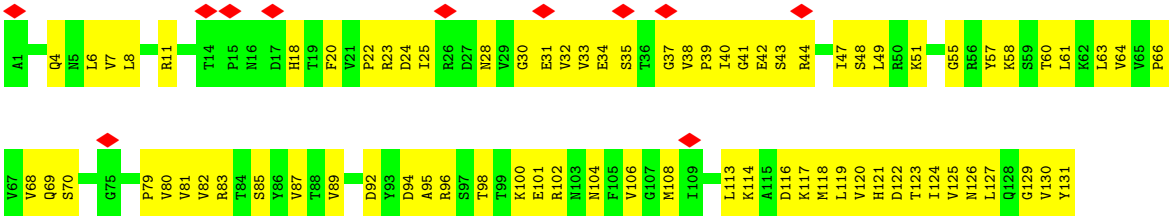
• Molecule 3: Coat Protein

Chain M:



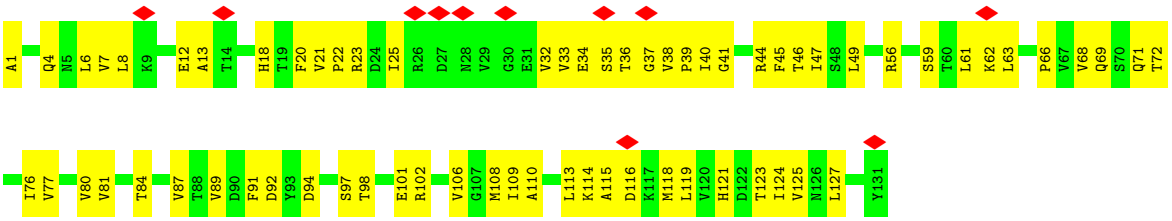
• Molecule 3: Coat Protein

Chain N:



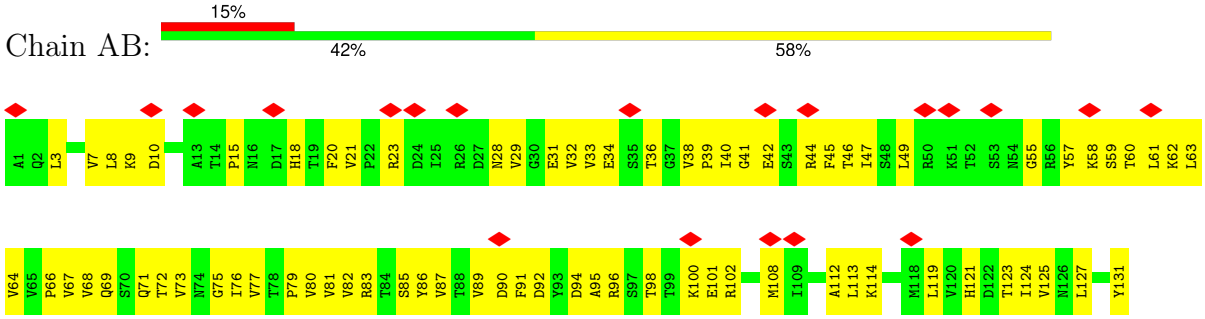
• Molecule 3: Coat Protein

Chain AA:



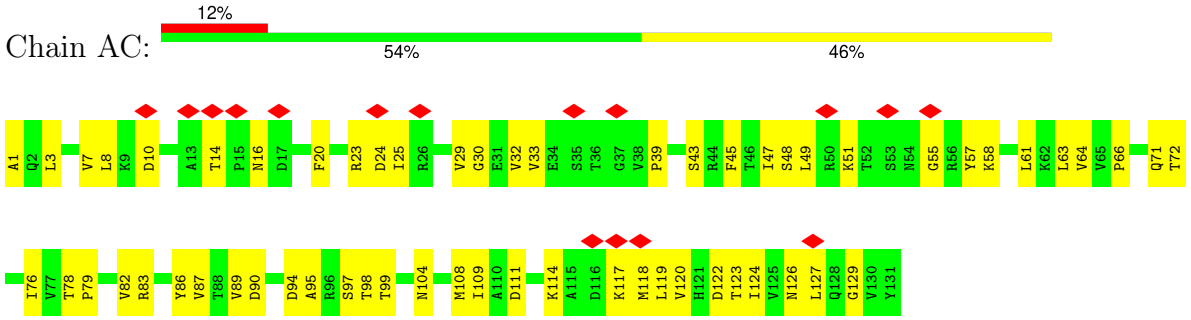
• Molecule 3: Coat Protein

Chain AB:



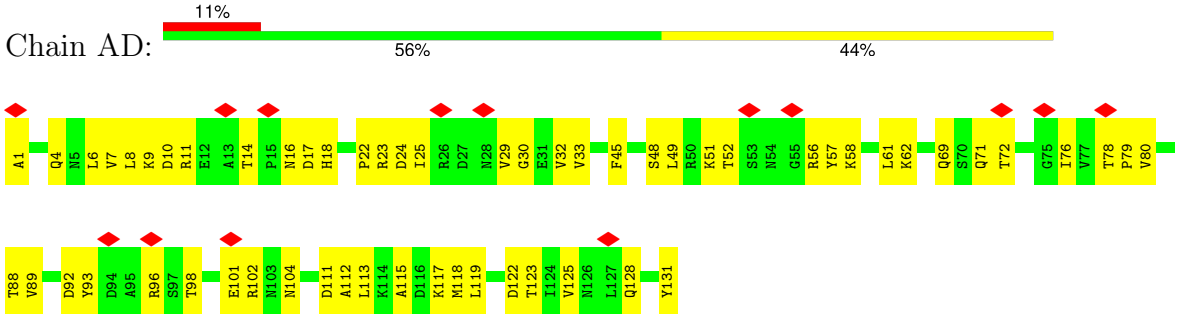
• Molecule 3: Coat Protein

Chain AC:



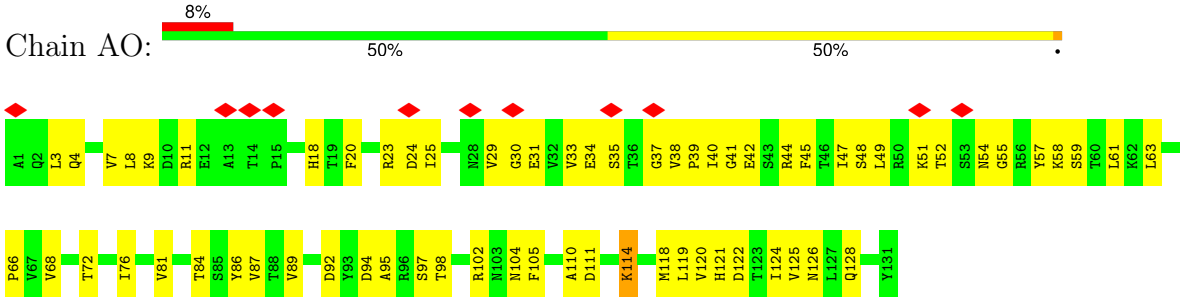
• Molecule 3: Coat Protein

Chain AD:



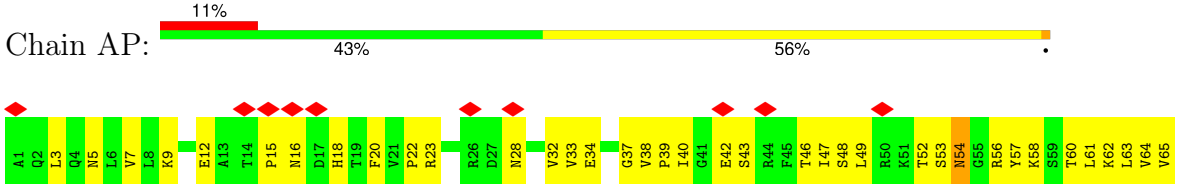
• Molecule 3: Coat Protein

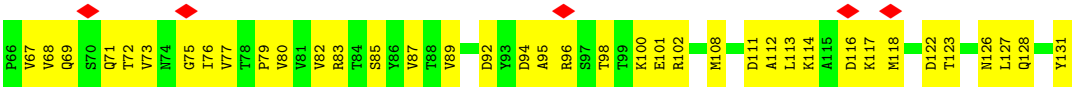
Chain AO:



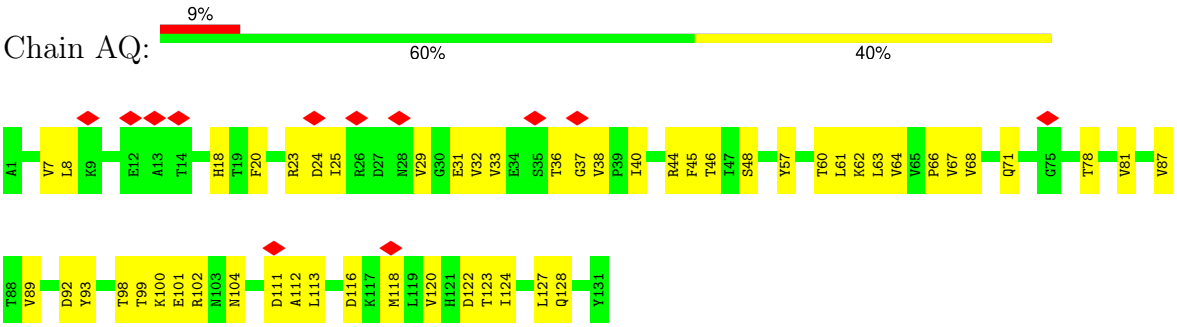
• Molecule 3: Coat Protein

Chain AP:

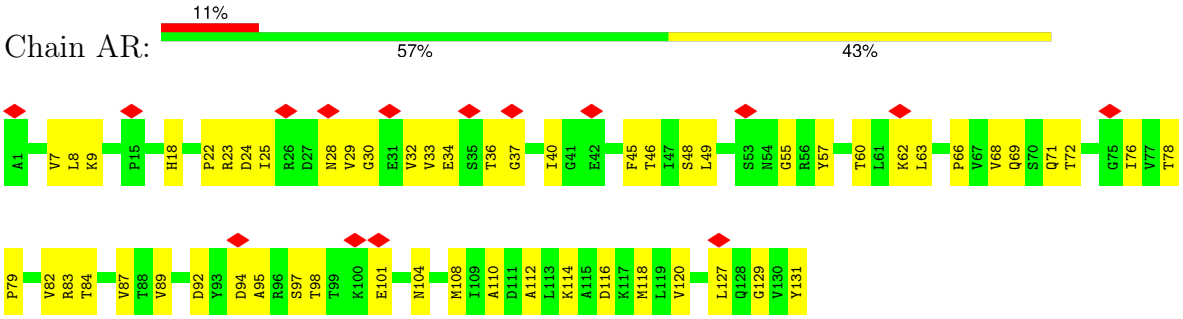




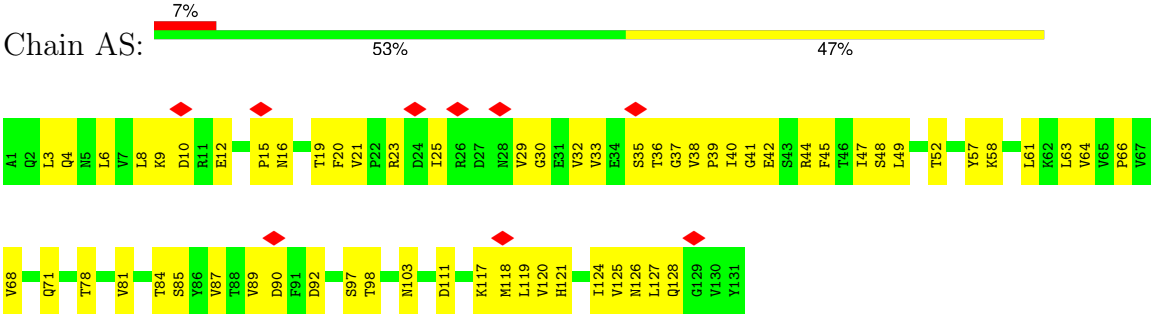
• Molecule 3: Coat Protein



• Molecule 3: Coat Protein



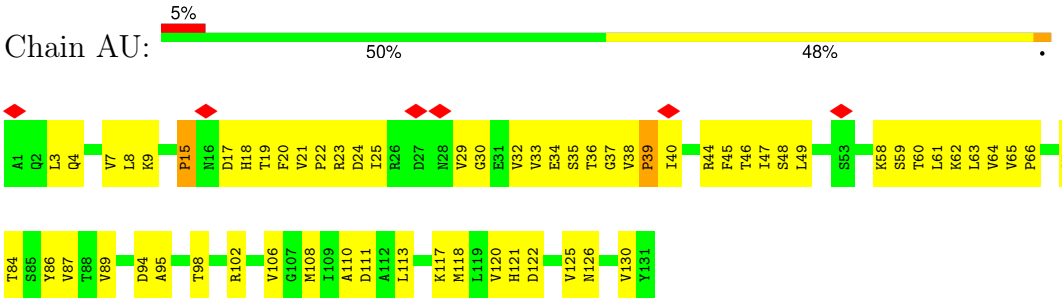
• Molecule 3: Coat Protein



• Molecule 3: Coat Protein

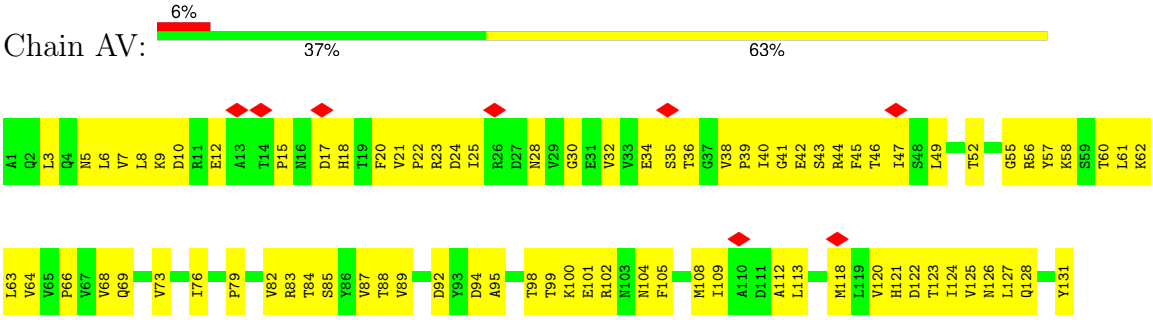
• Molecule 3: Coat Protein

Chain AU:



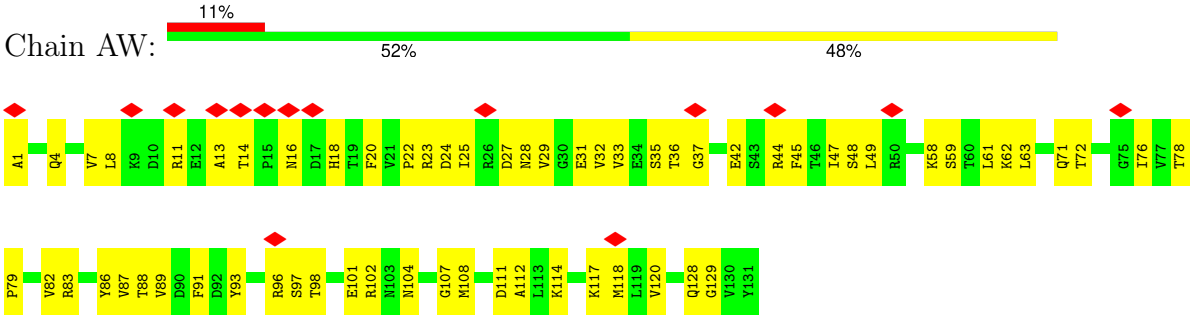
• Molecule 3: Coat Protein

Chain AV:



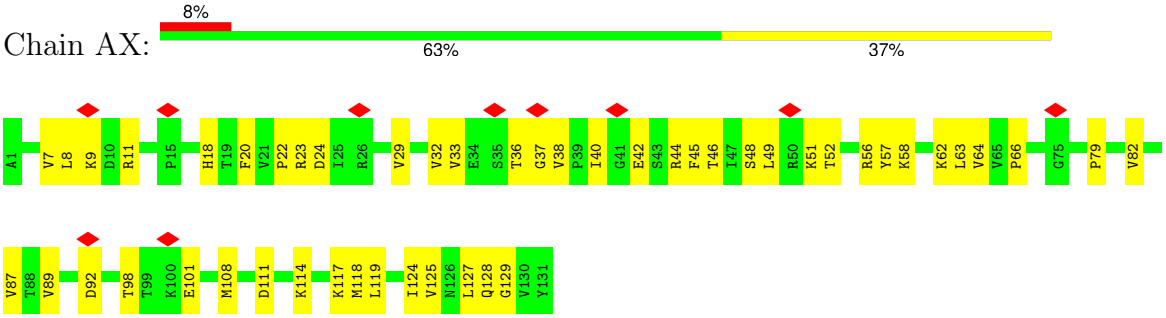
• Molecule 3: Coat Protein

Chain AW:



• Molecule 3: Coat Protein

Chain AX:



• Molecule 3: Coat Protein

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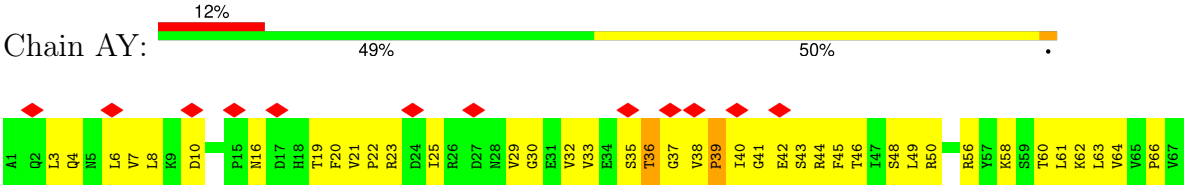
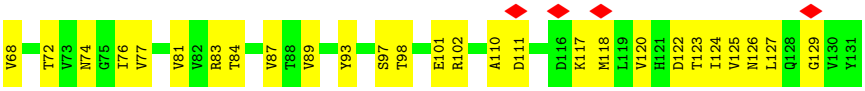
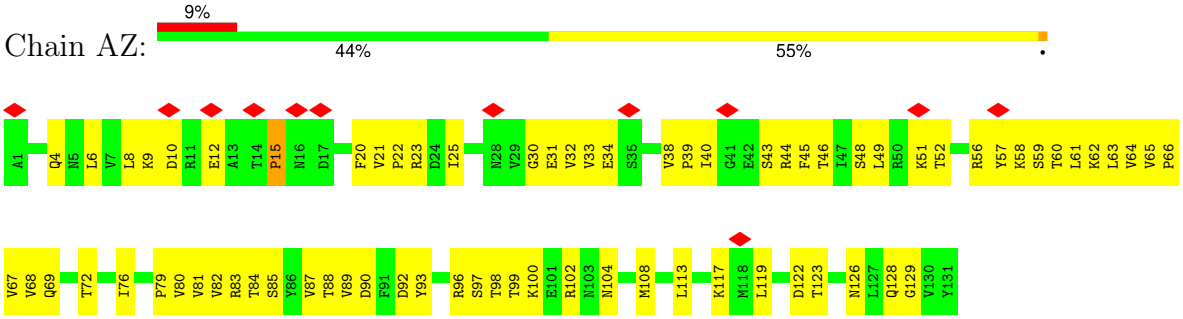




• Molecule 3: Coat Protein



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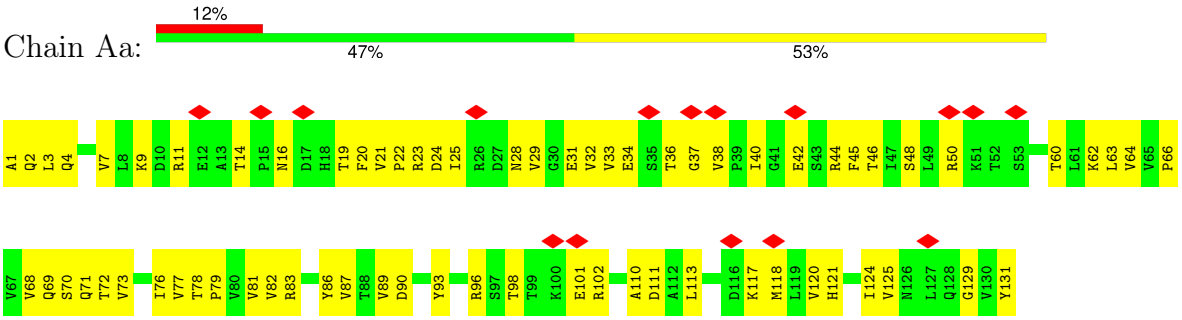

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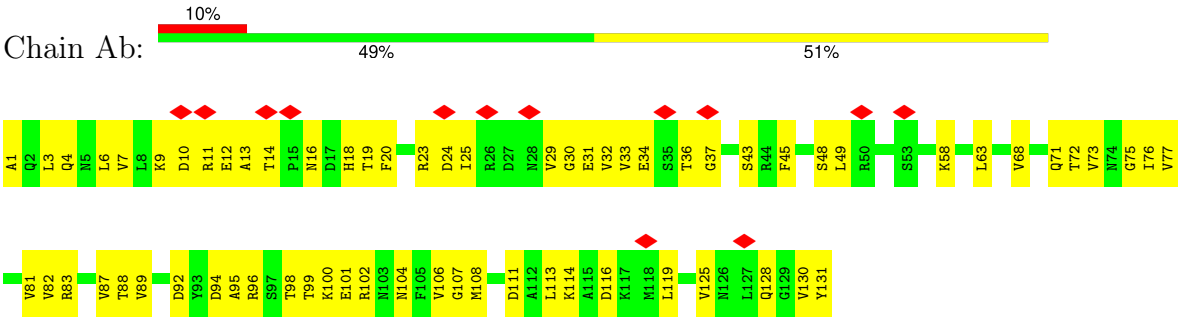
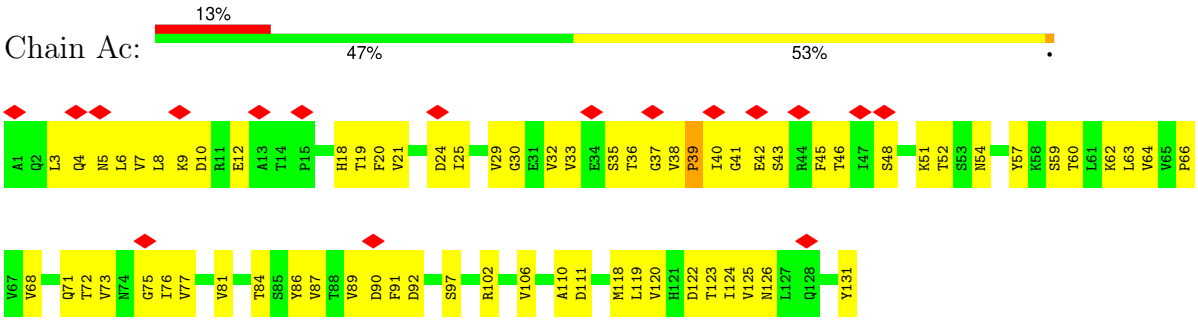
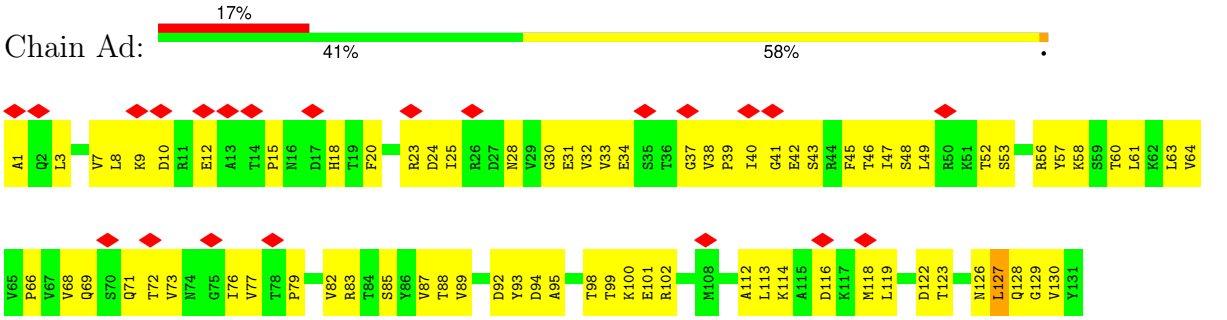


• Molecule 3: Coat Protein



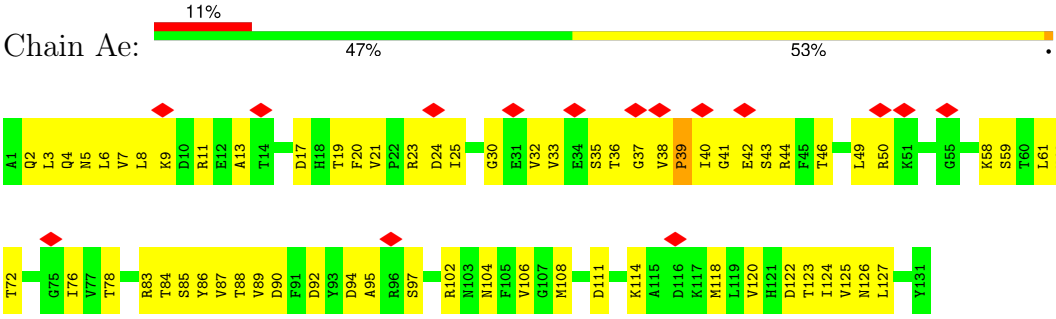
• Molecule 3: Coat Protein

Chain Ad:



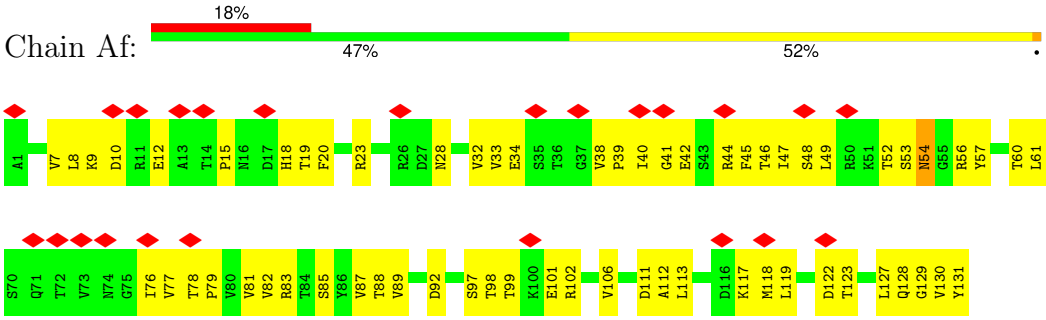
• Molecule 3: Coat Protein

Chain Ae:



• Molecule 3: Coat Protein

Chain Af:



• Molecule 3: Coat Protein

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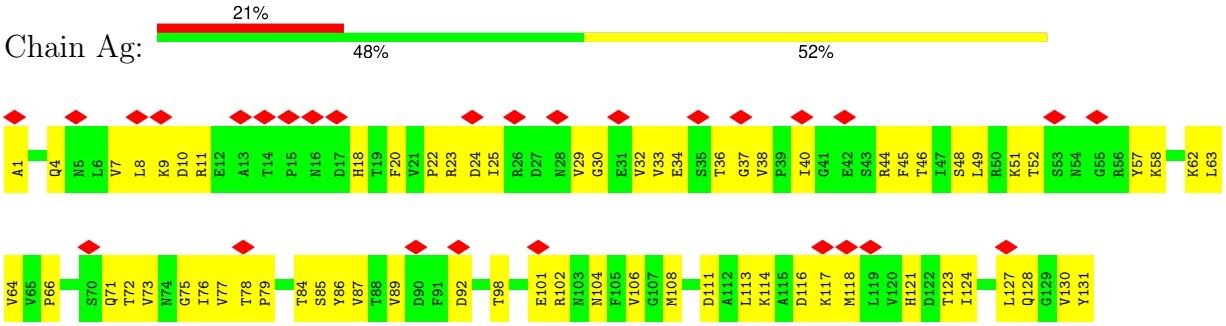

• Molecule 3: Coat Protein

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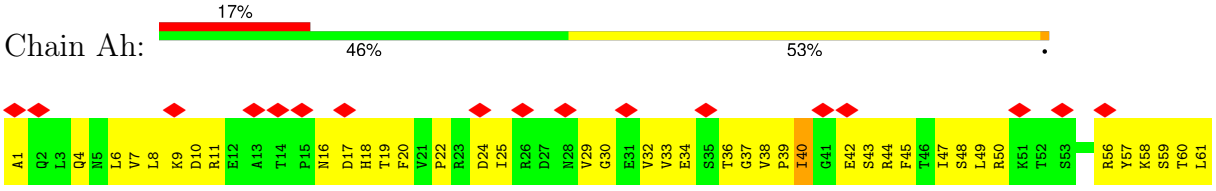

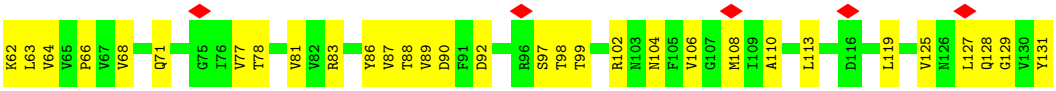

• Molecule 3: Coat Protein

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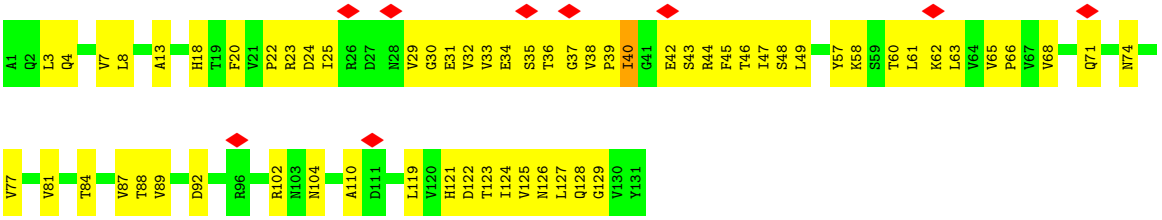

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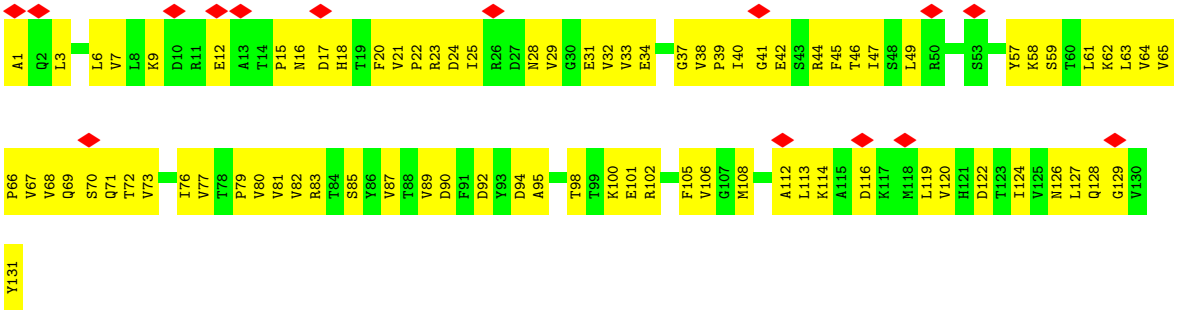

• Molecule 3: Coat Protein

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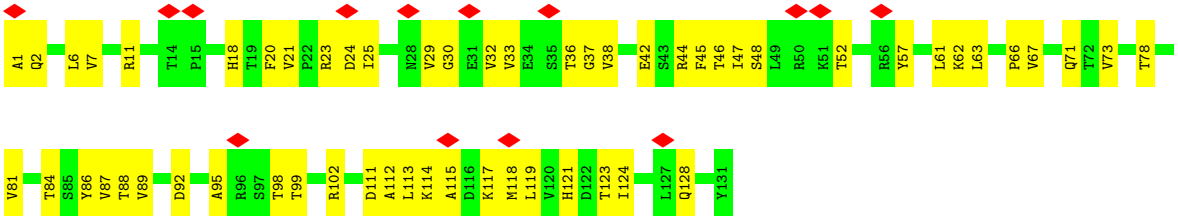

• Molecule 3: Coat Protein

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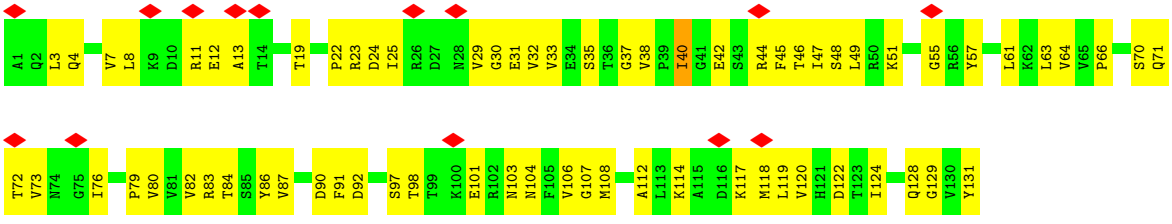

• Molecule 3: Coat Protein

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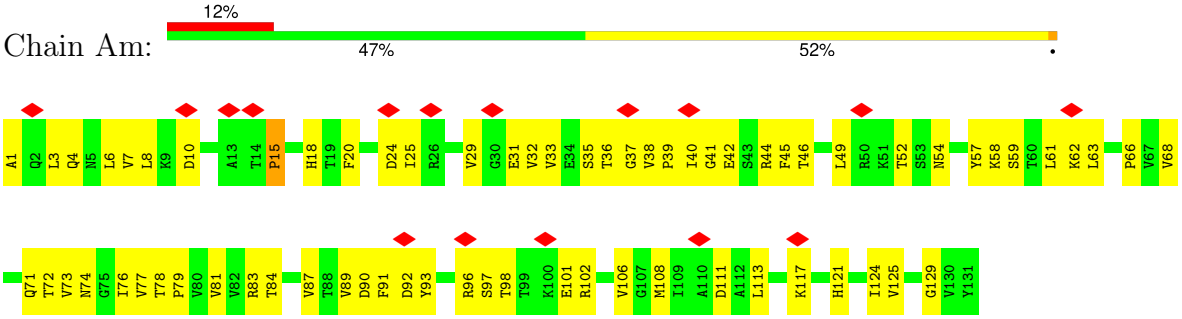

• Molecule 3: Coat Protein

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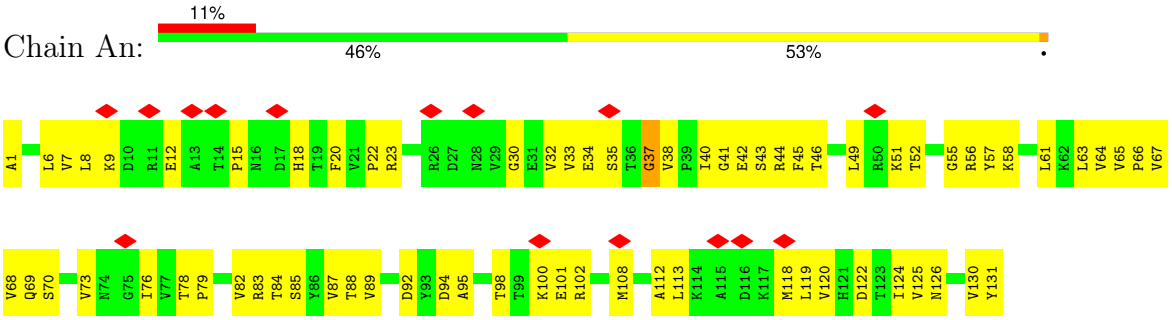

• Molecule 3: Coat Protein

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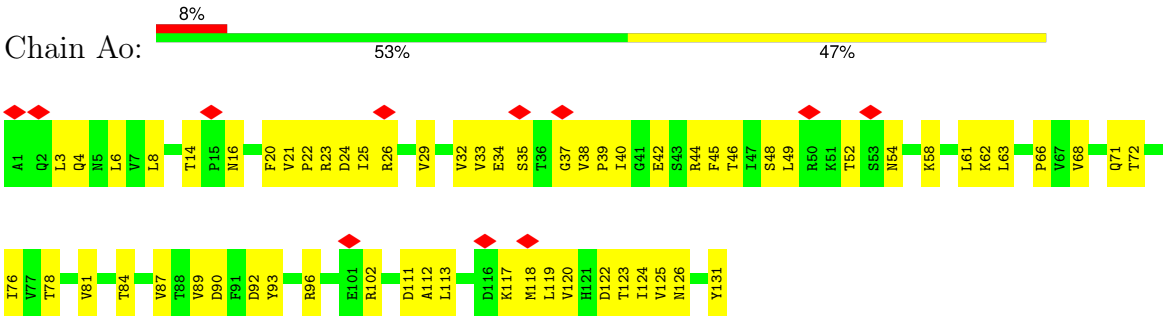

• Molecule 3: Coat Protein

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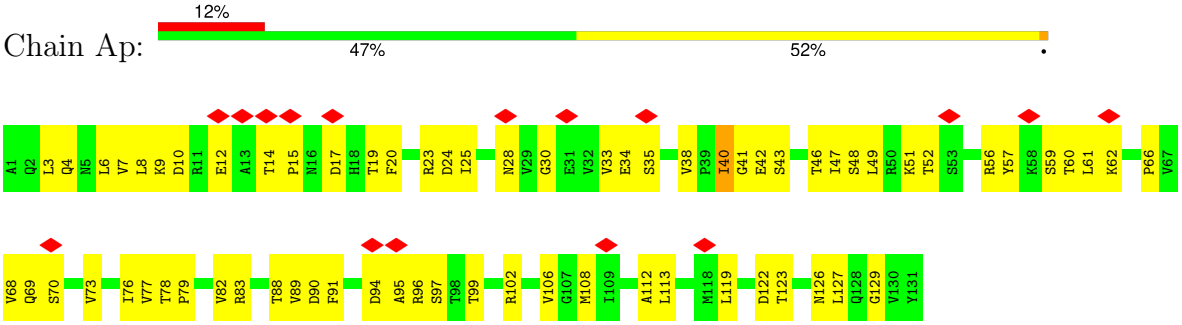

• Molecule 3: Coat Protein

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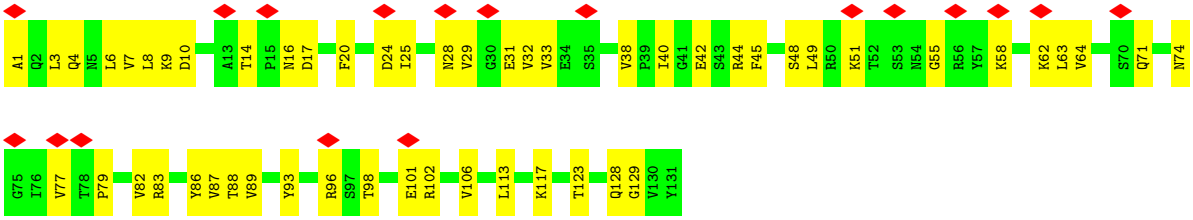
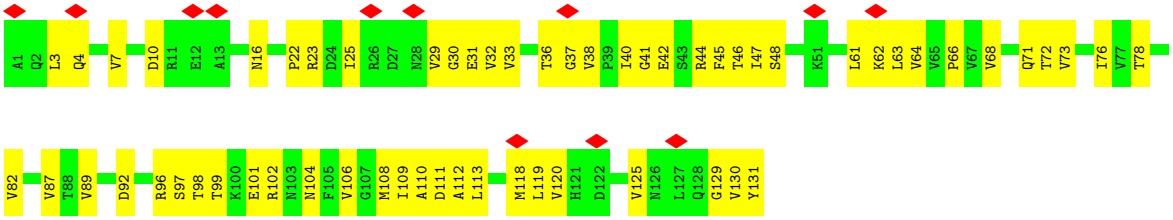
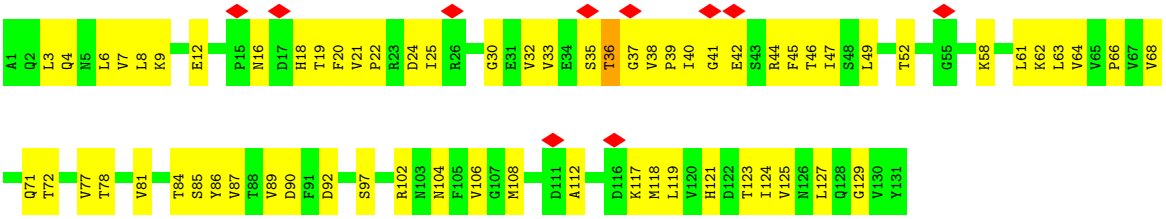


• Molecule 3: Coat Protein



• Molecule 3: Coat Protein



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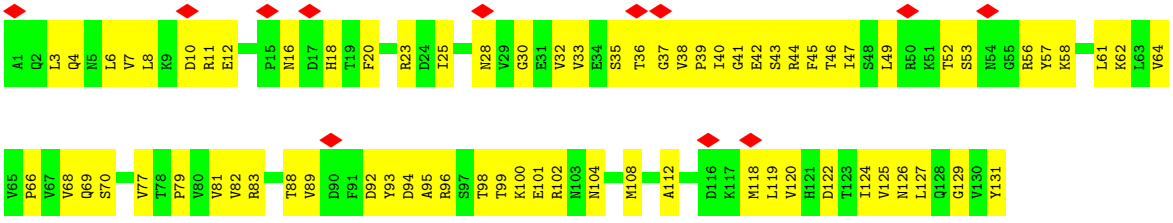

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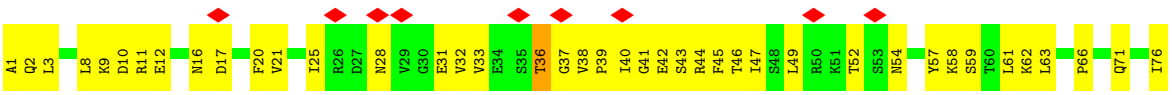

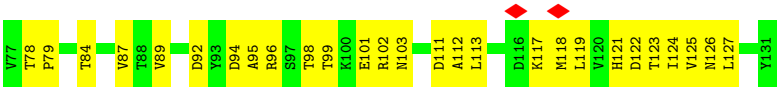

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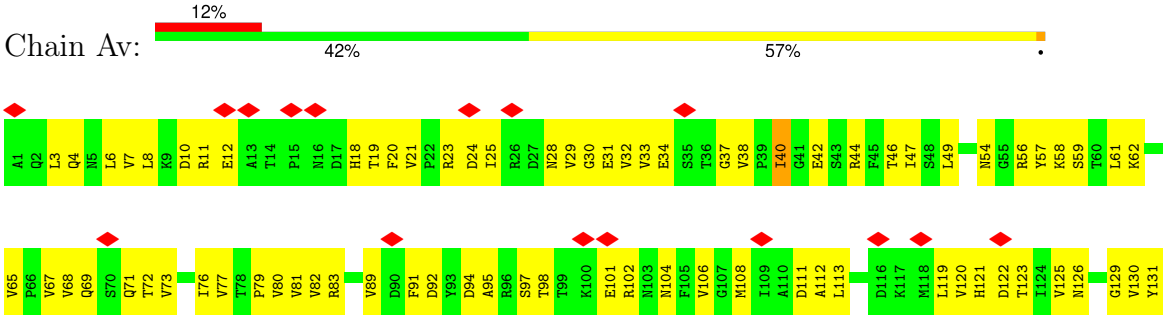

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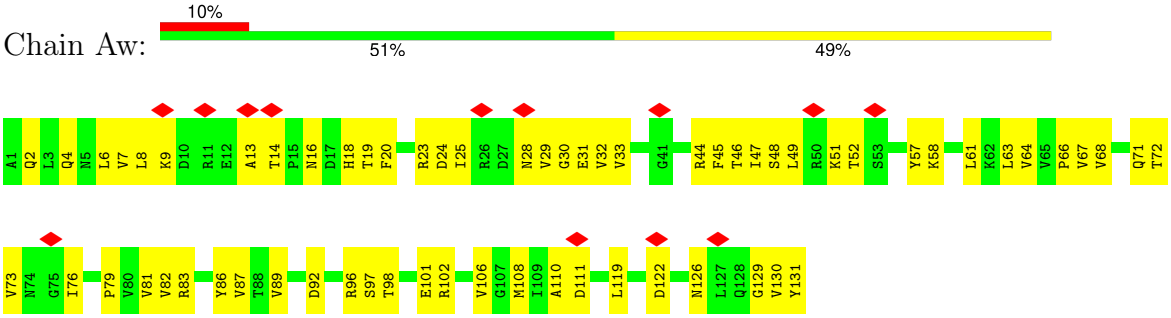

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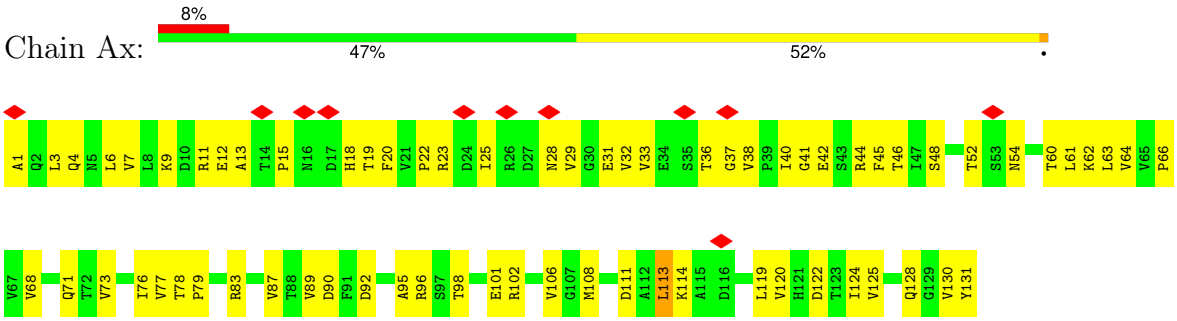

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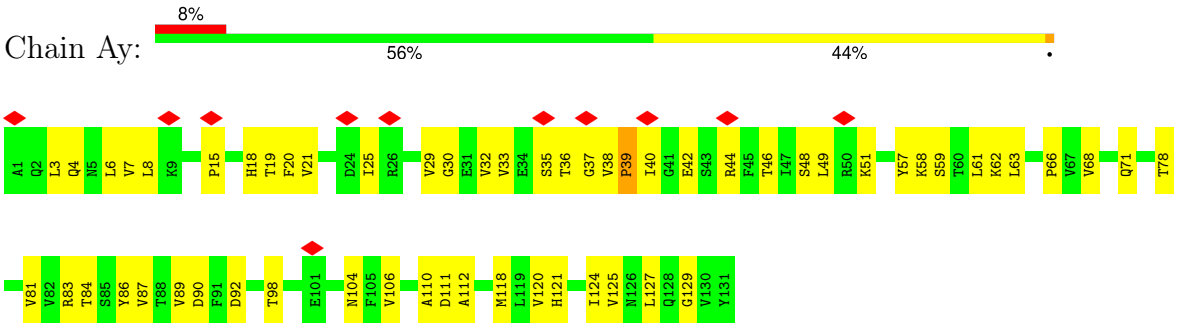
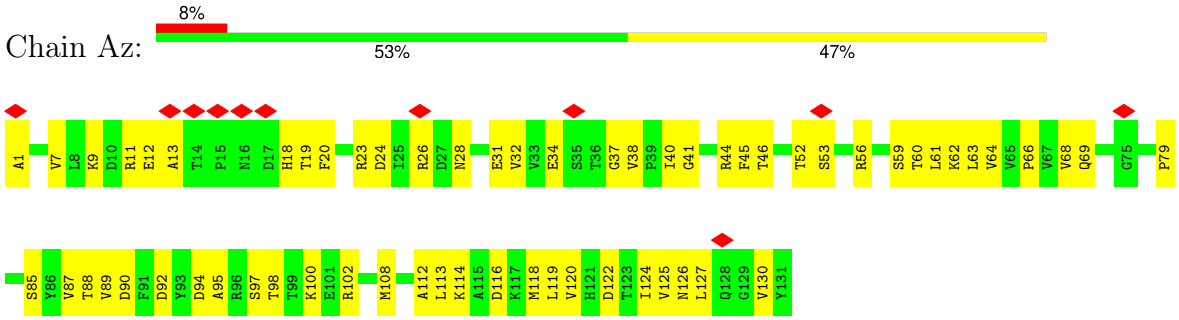


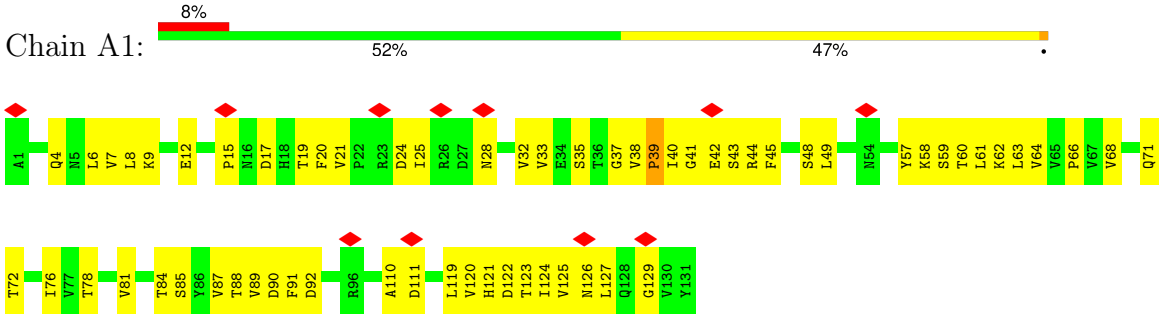
• Molecule 3: Coat Protein

Chain Az:



• Molecule 3: Coat Protein

Chain A1:



• Molecule 3: Coat Protein

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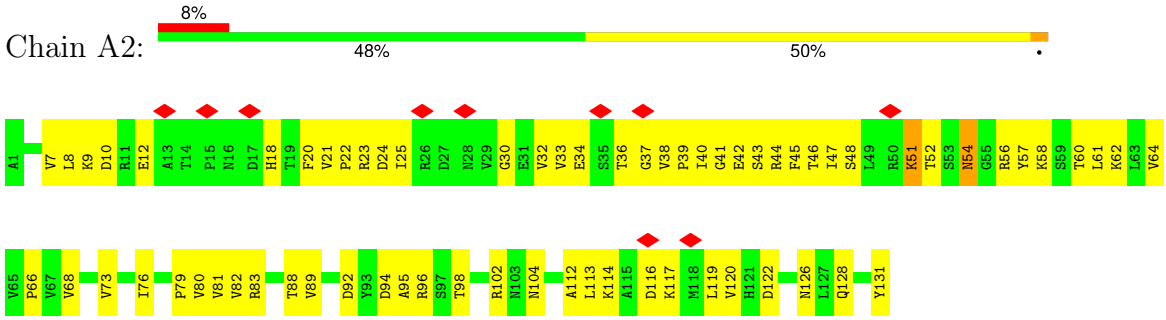

• Molecule 3: Coat Protein

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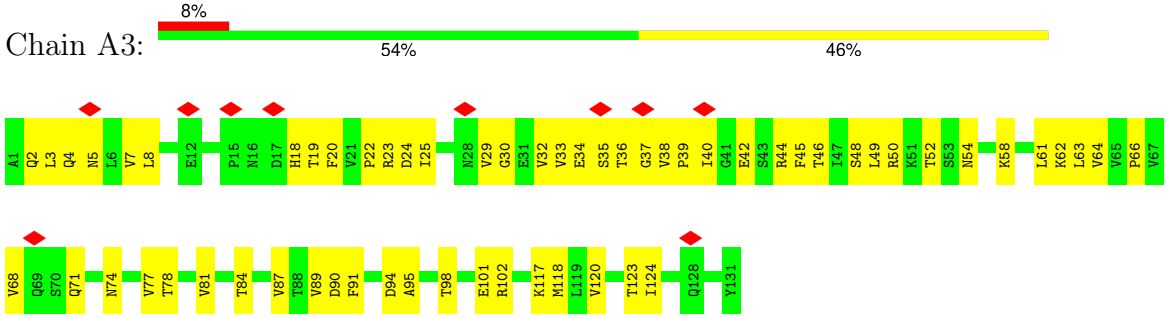

• Molecule 3: Coat Protein

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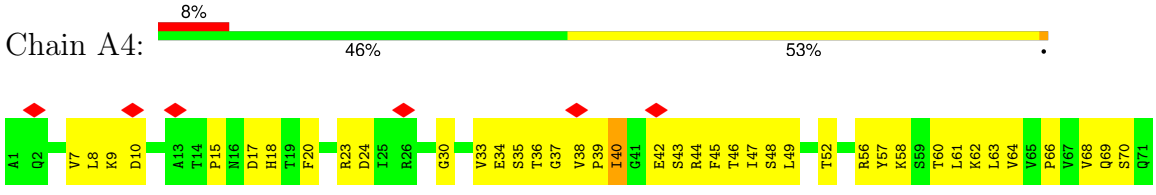
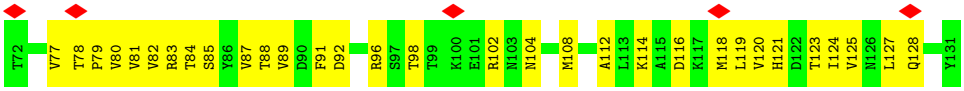
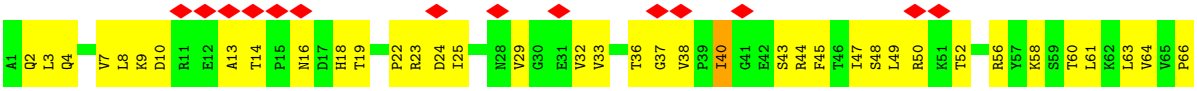
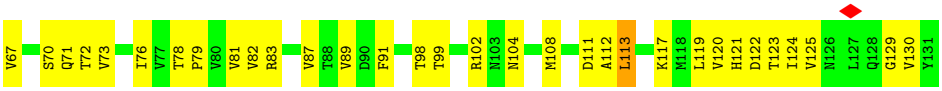




• Molecule 3: Coat Protein

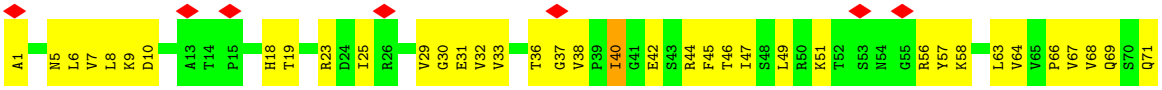
Chain A5:





• Molecule 3: Coat Protein

Chain A6:



• Molecule 3: Coat Protein

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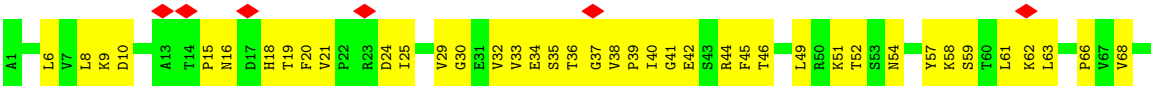
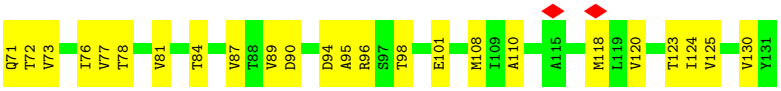
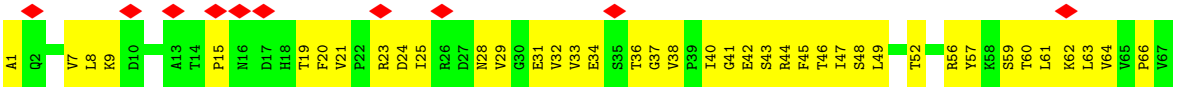
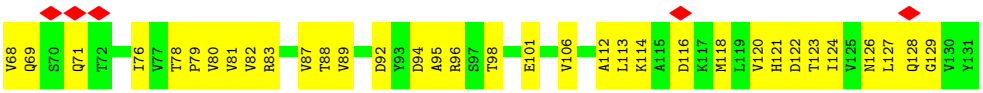




• Molecule 3: Coat Protein

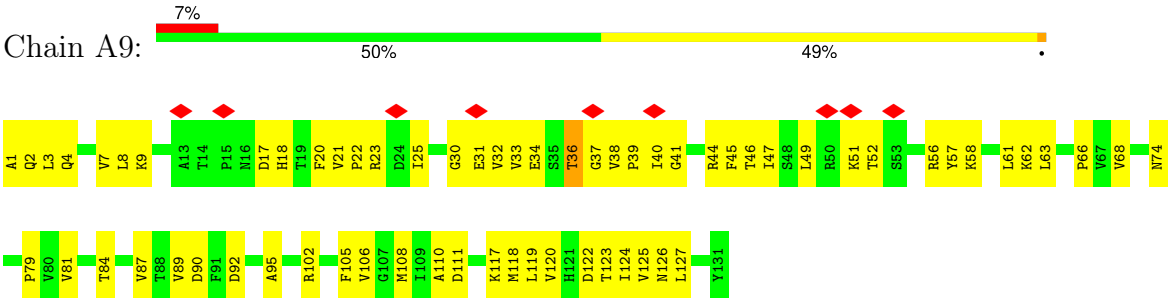
Chain A8:





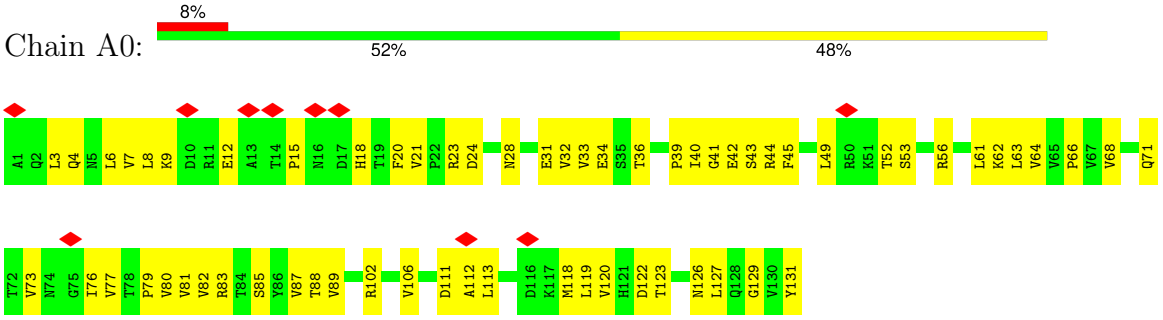
• Molecule 3: Coat Protein

Chain A9:



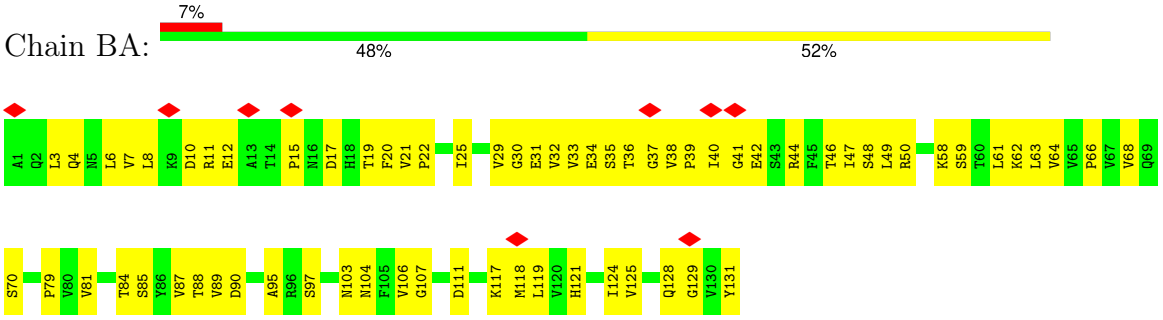
• Molecule 3: Coat Protein

Chain A0:



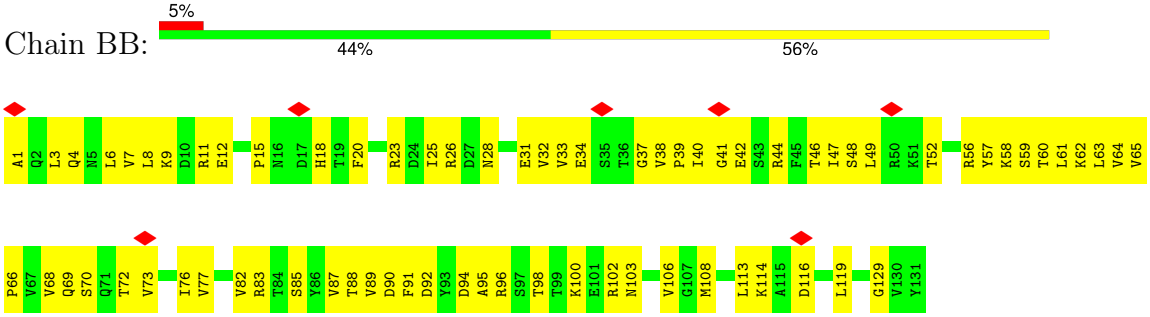
• Molecule 3: Coat Protein

Chain BA:



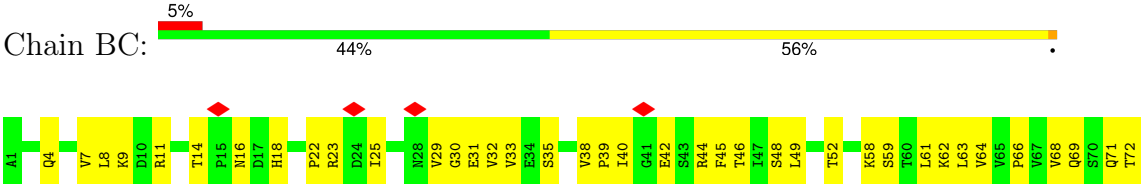
• Molecule 3: Coat Protein

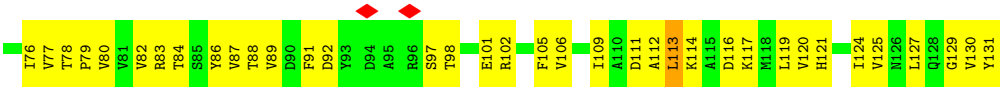
Chain BB:



• Molecule 3: Coat Protein

Chain BC:





• Molecule 3: Coat Protein

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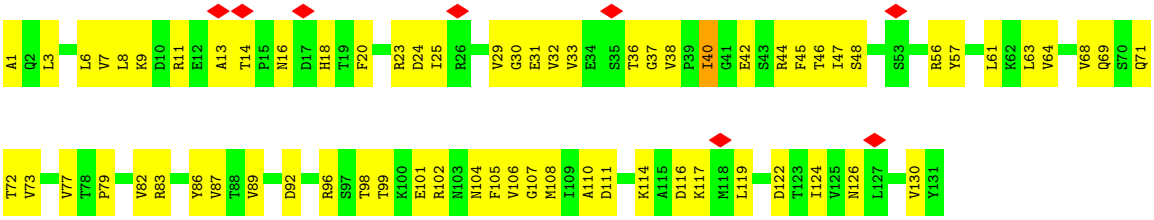
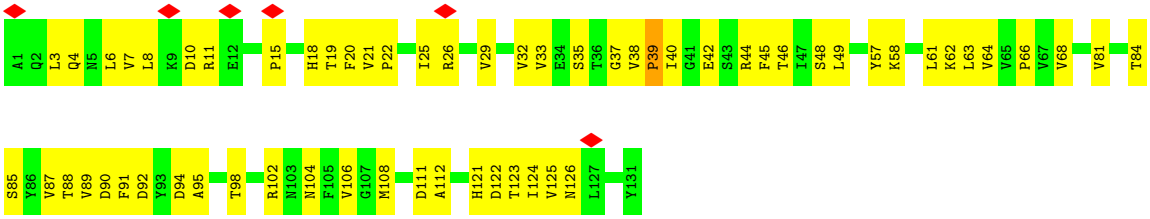


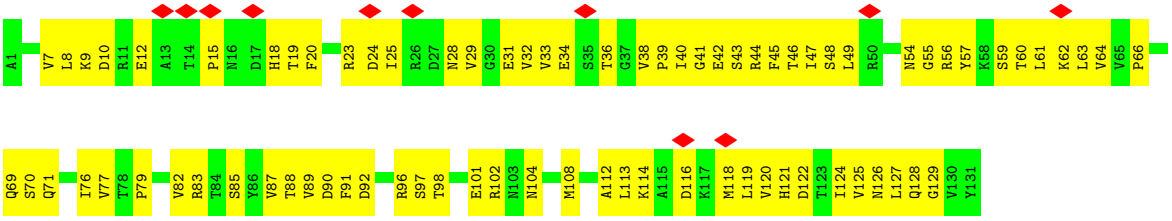
• Molecule 3: Coat Protein

Chain BE:



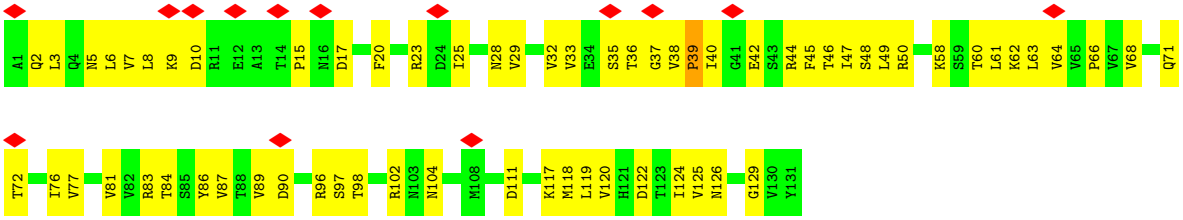
• Molecule 3: Coat Protein

Chain BF:



• Molecule 3: Coat Protein

Chain BG:



• Molecule 3: Coat Protein

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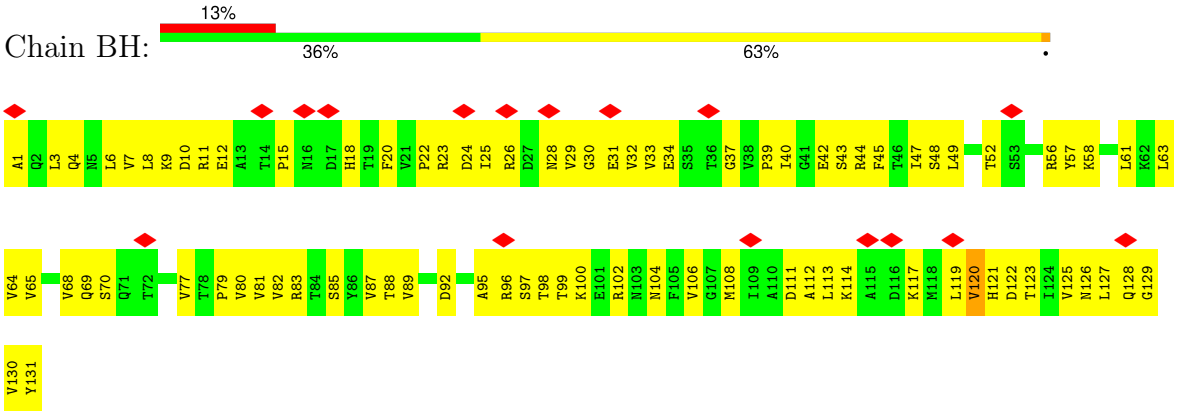
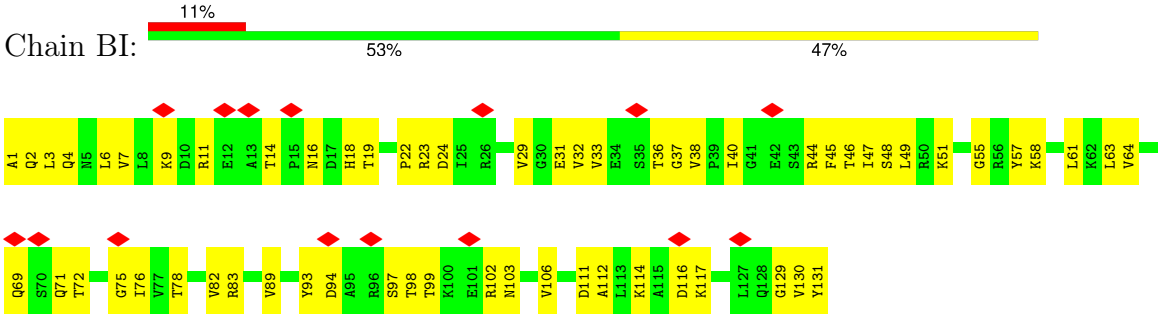


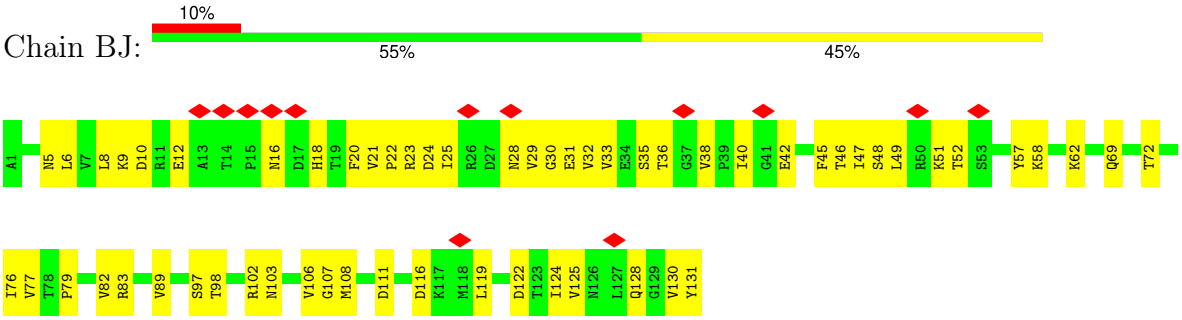
• Molecule 3: Coat Protein

Chain BI:



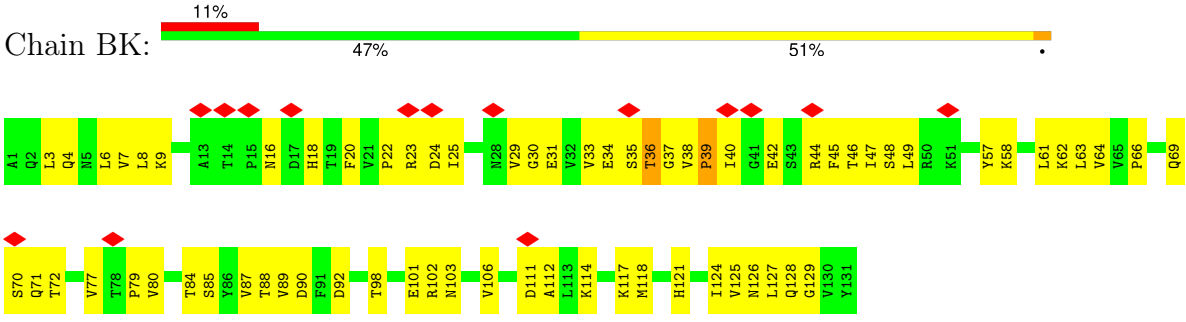
• Molecule 3: Coat Protein

Chain BJ:



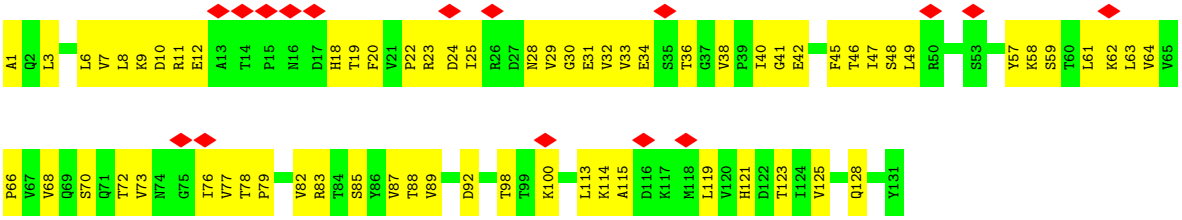
• Molecule 3: Coat Protein

Chain BK:



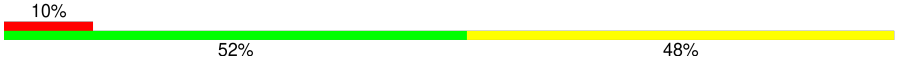
• Molecule 3: Coat Protein

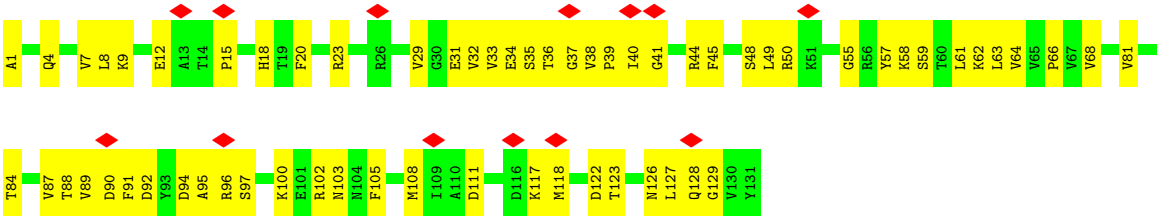
Chain BL:



• Molecule 3: Coat Protein

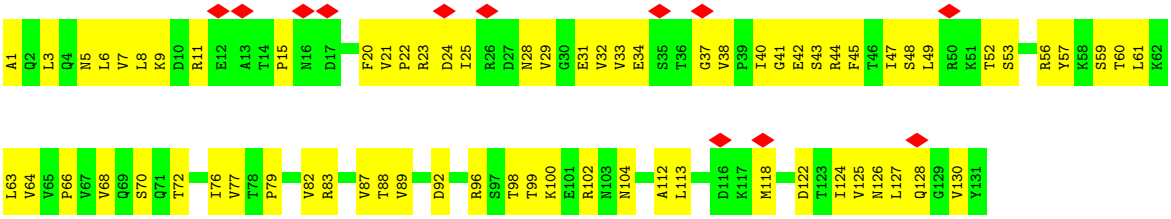
Chain BM:





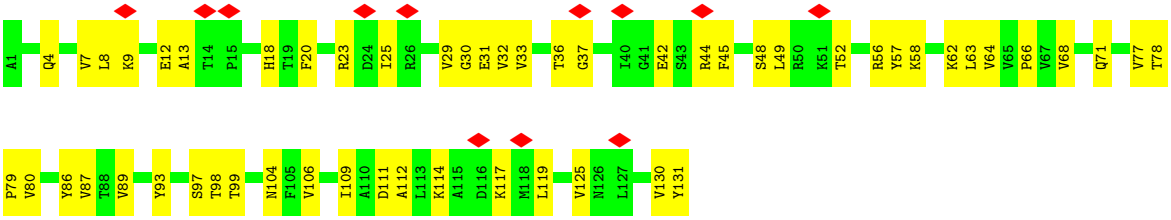
• Molecule 3: Coat Protein

Chain BN:



• Molecule 3: Coat Protein

Chain BO:



• Molecule 3: Coat Protein

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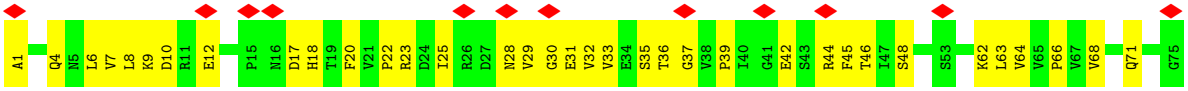

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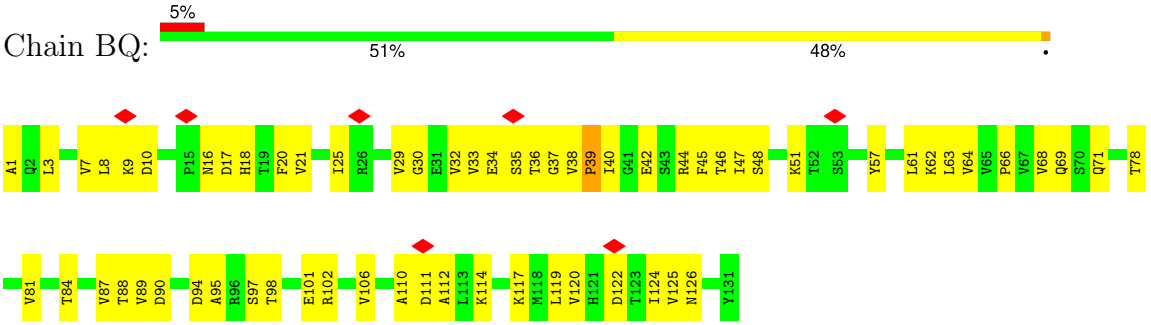

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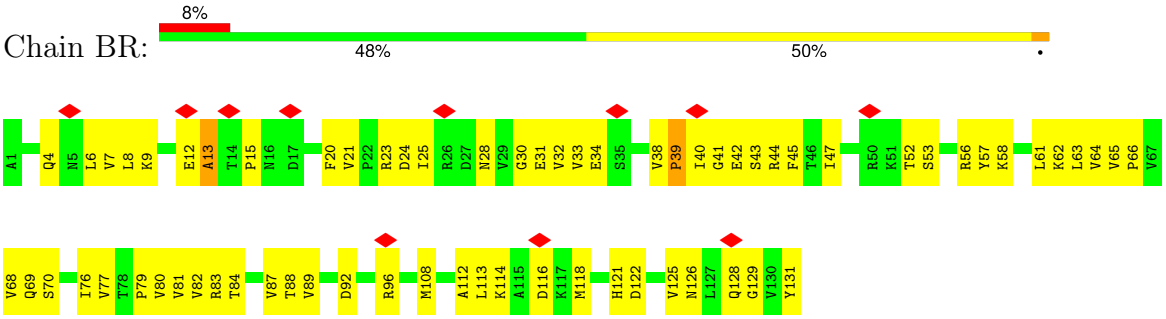

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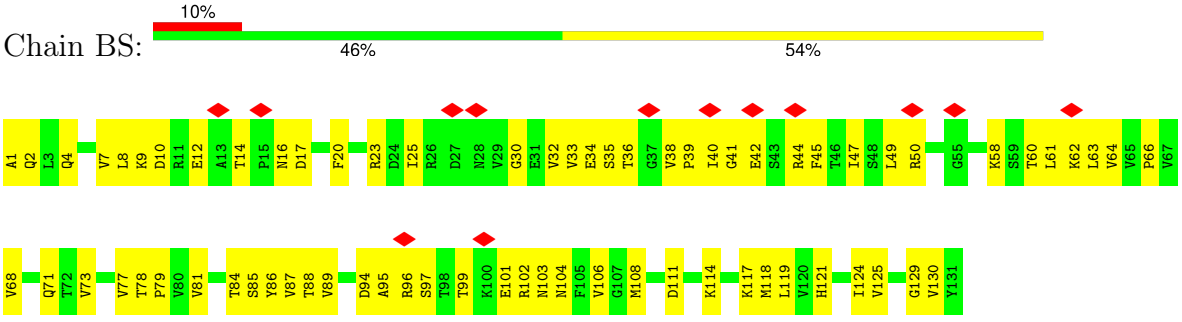
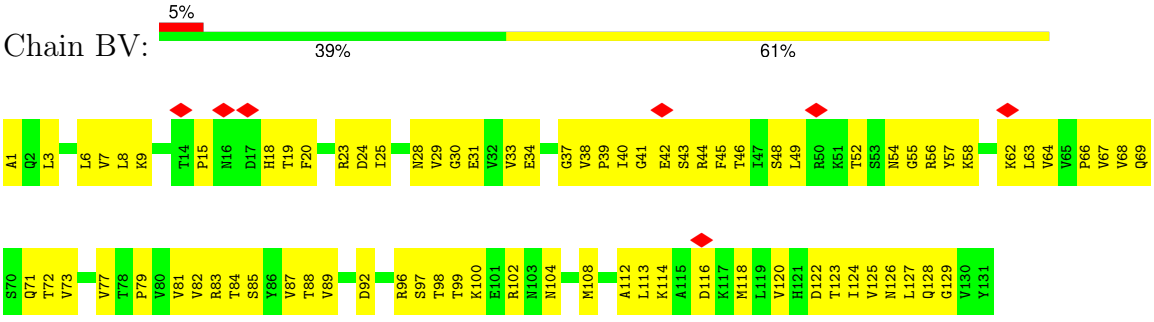
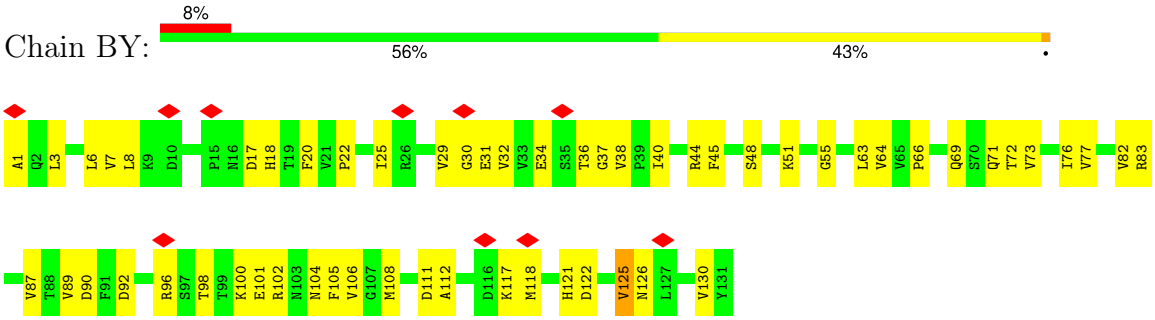


• Molecule 3: Coat Protein



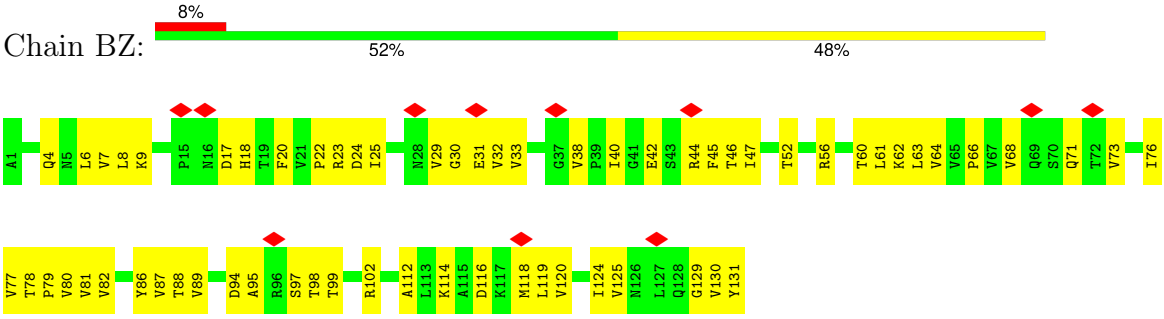
• Molecule 3: Coat Protein

Chain BY:



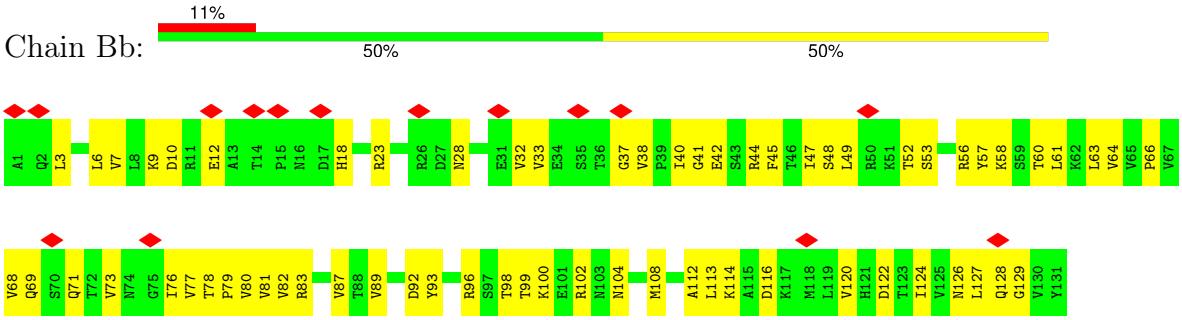
• Molecule 3: Coat Protein

Chain BZ:



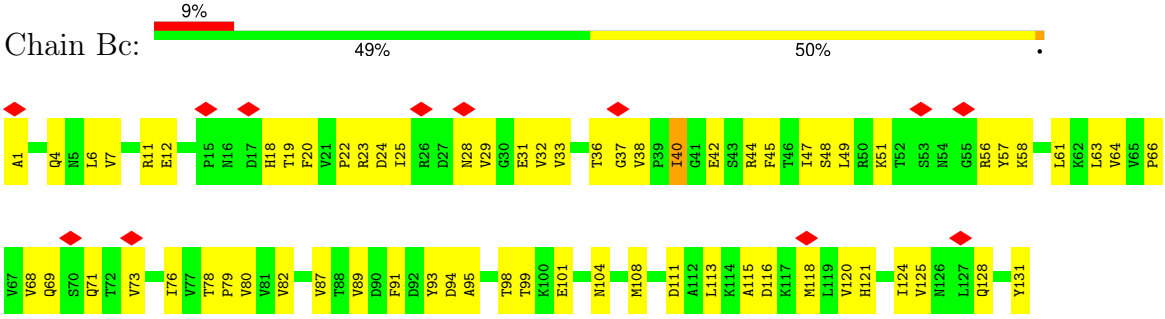
• Molecule 3: Coat Protein

Chain Bb:



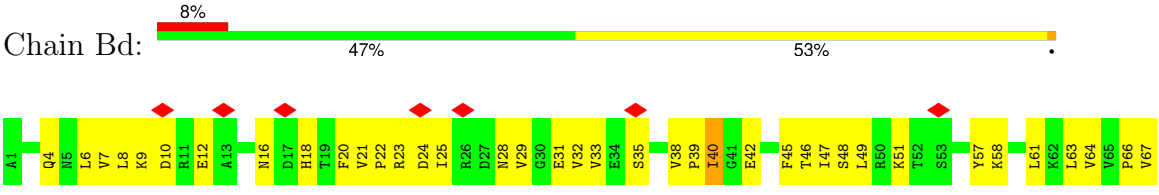
• Molecule 3: Coat Protein

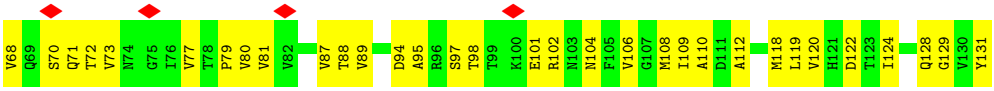
Chain Bc:



• Molecule 3: Coat Protein

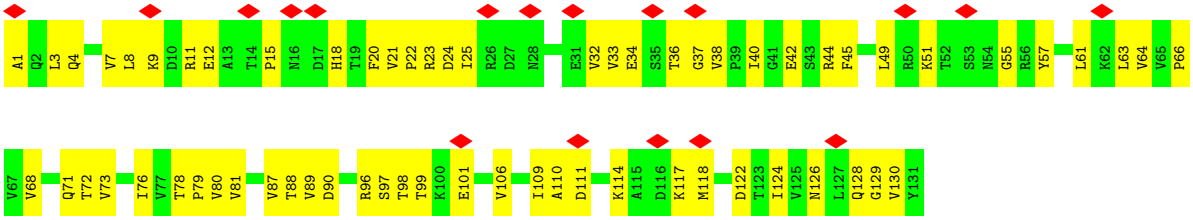
Chain Bd:





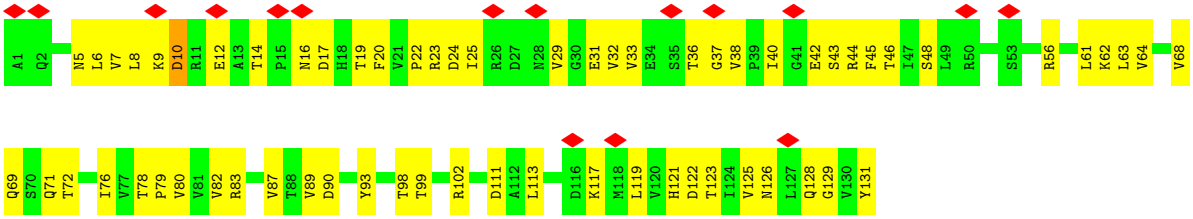
• Molecule 3: Coat Protein

Chain Bg:



• Molecule 3: Coat Protein

Chain Bh:



• Molecule 3: Coat Protein

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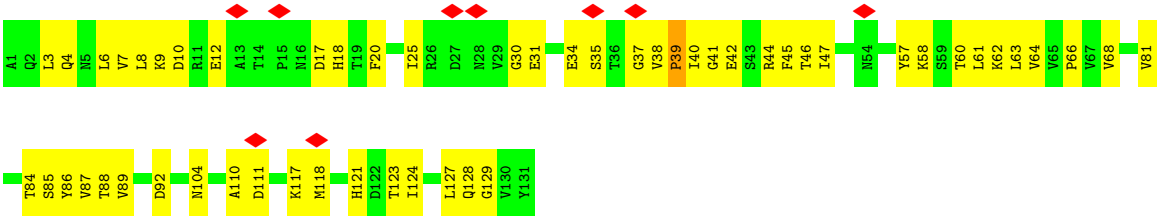

• Molecule 3: Coat Protein

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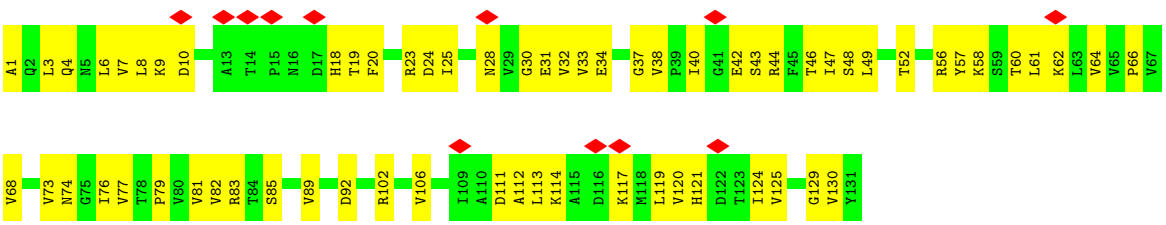
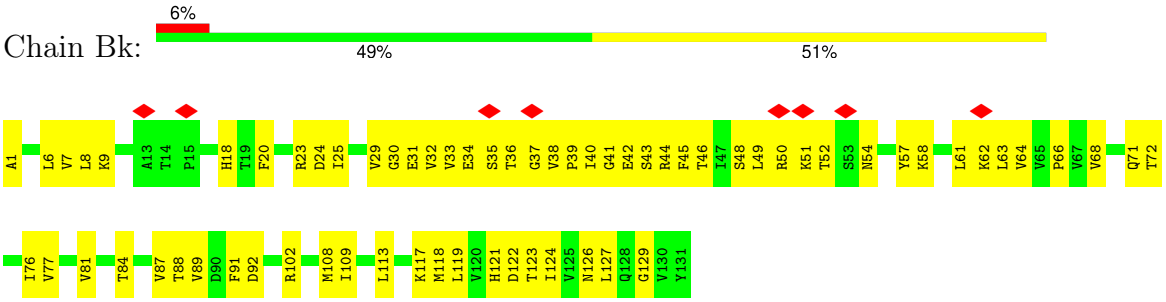


• Molecule 3: Coat Protein

Chain Bk:



• Molecule 3: Coat Protein

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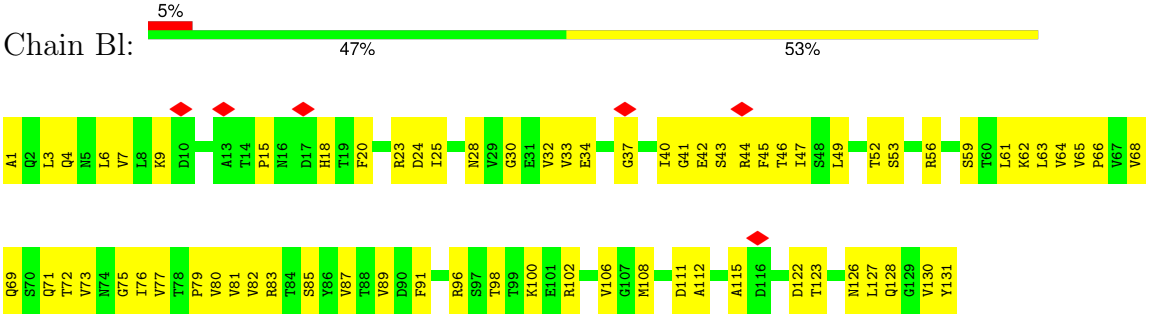

• Molecule 3: Coat Protein

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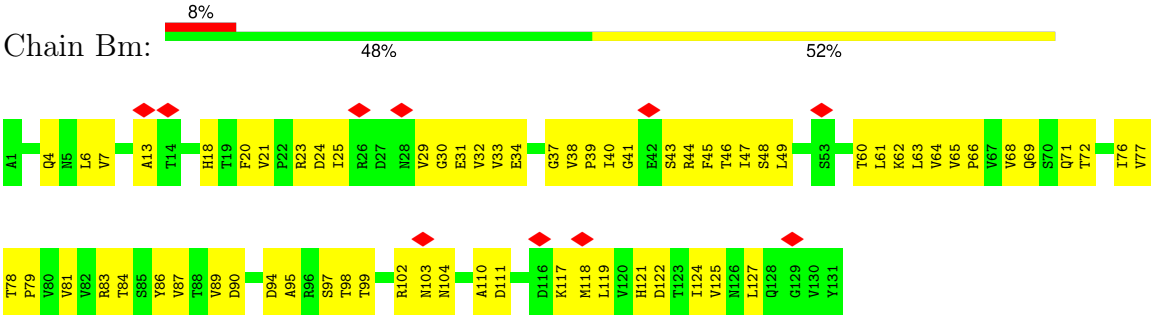
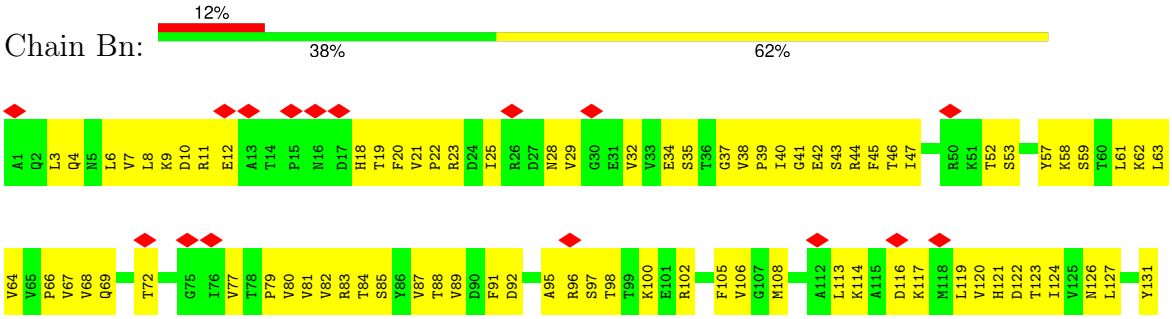


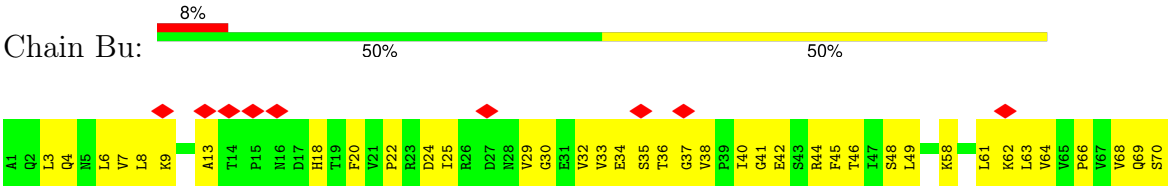
• Molecule 3: Coat Protein

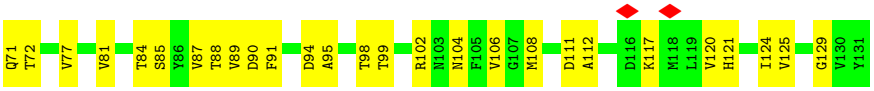
Chain Bn:



• Molecule 3: Coat Protein

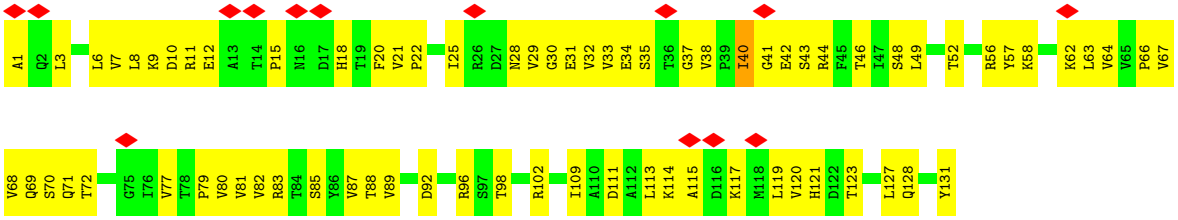
Chain Bu:





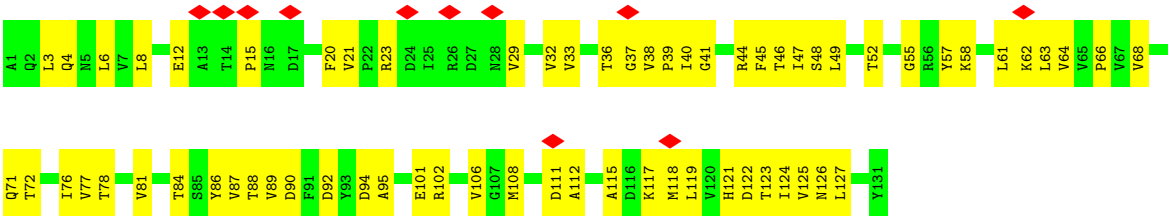
• Molecule 3: Coat Protein

Chain Bv:



• Molecule 3: Coat Protein

Chain Bw:



• Molecule 3: Coat Protein

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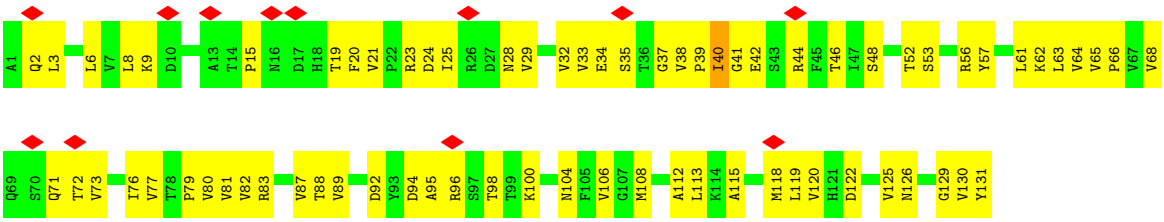
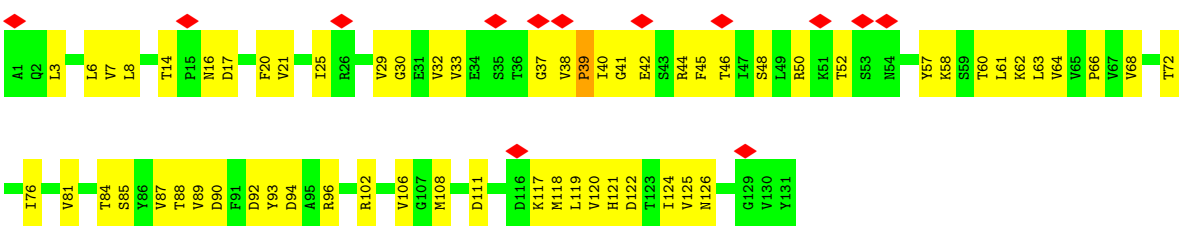


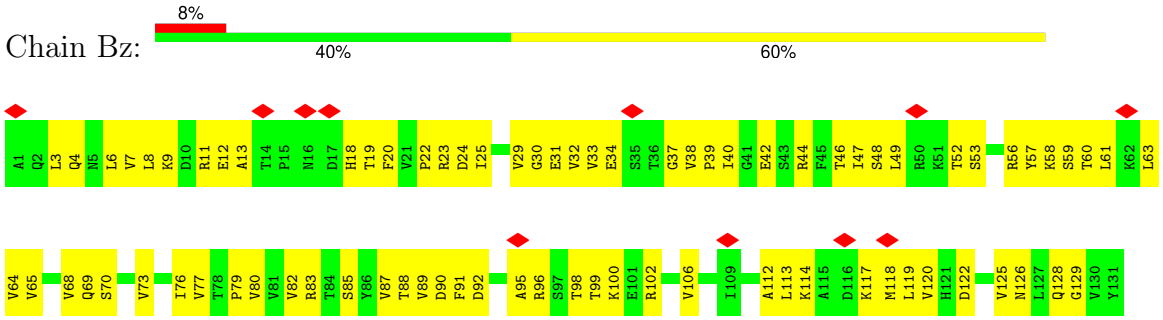
• Molecule 3: Coat Protein

Chain By:



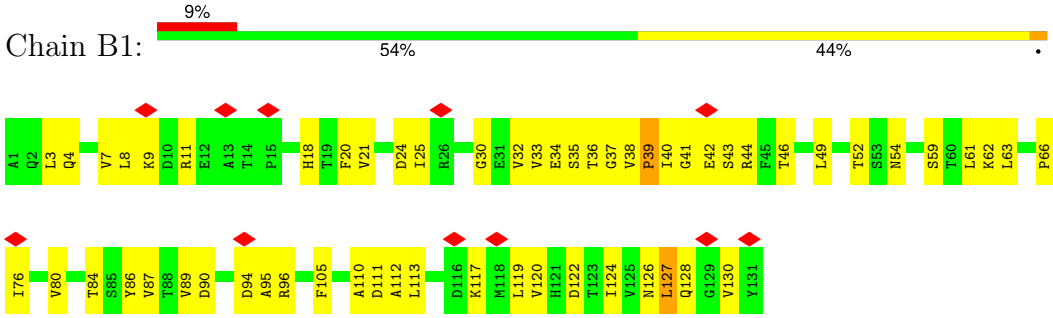
• Molecule 3: Coat Protein

Chain Bz:



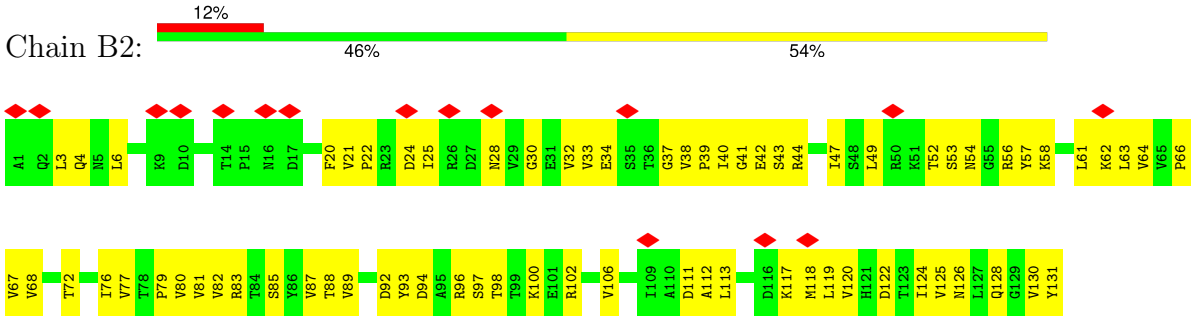
• Molecule 3: Coat Protein

Chain B1:



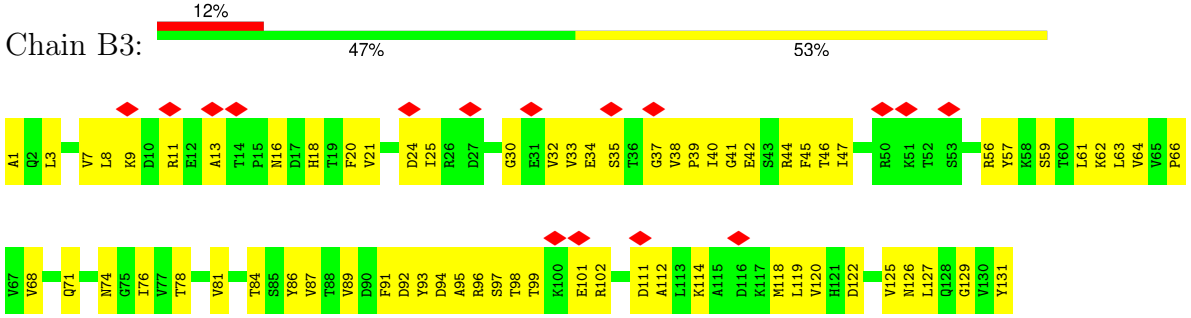
• Molecule 3: Coat Protein

Chain B2:



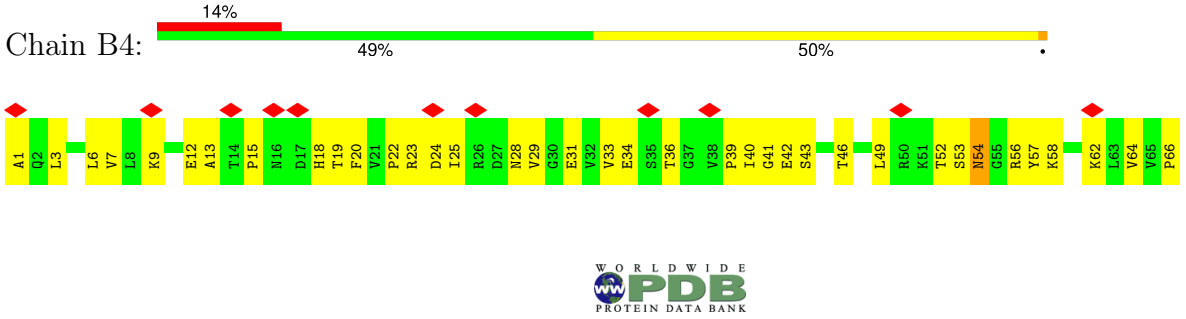
• Molecule 3: Coat Protein

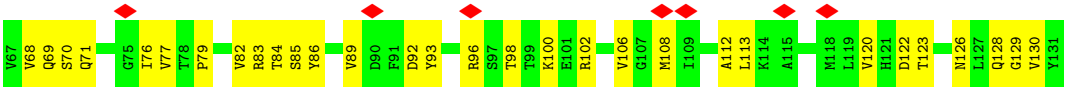
Chain B3:



• Molecule 3: Coat Protein

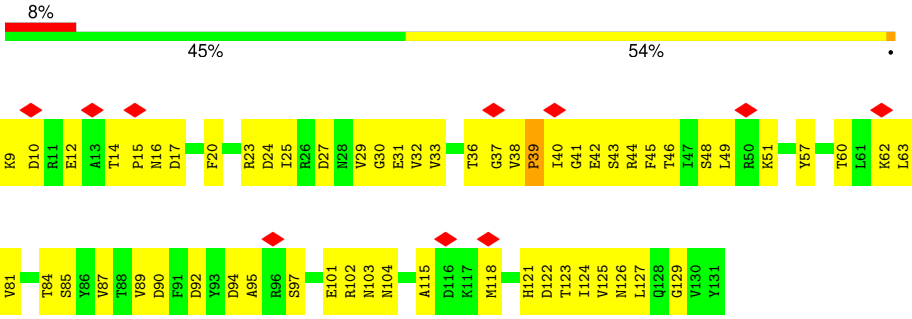
Chain B4:





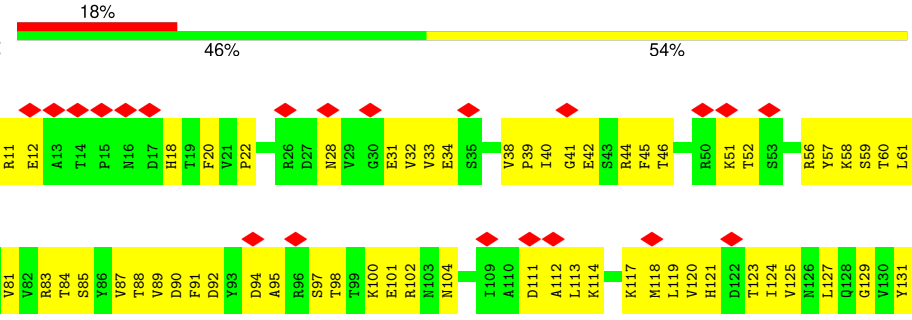
• Molecule 3: Coat Protein

Chain B5:



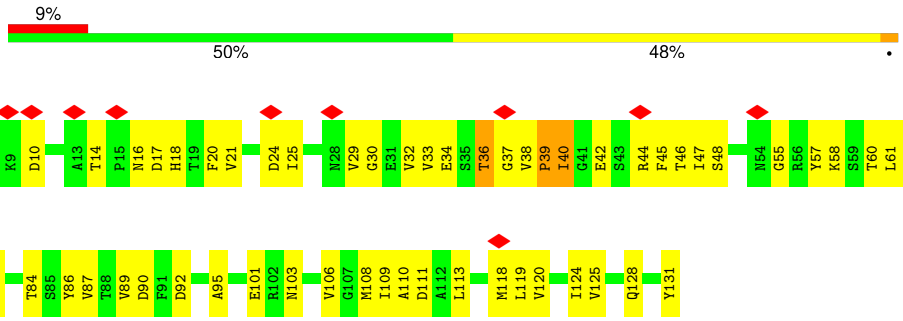
• Molecule 3: Coat Protein

Chain B6:



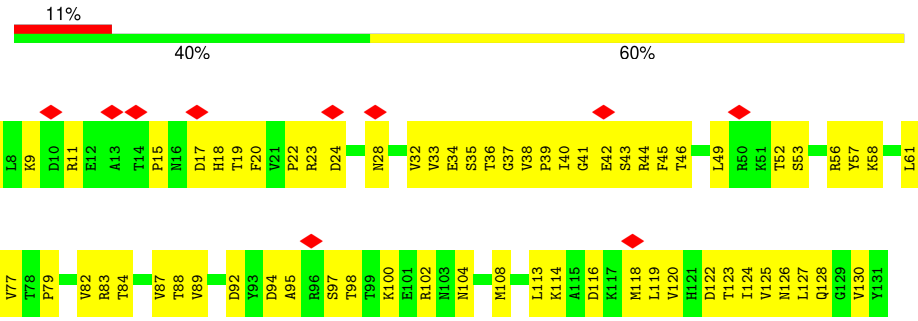
• Molecule 3: Coat Protein

Chain B7:



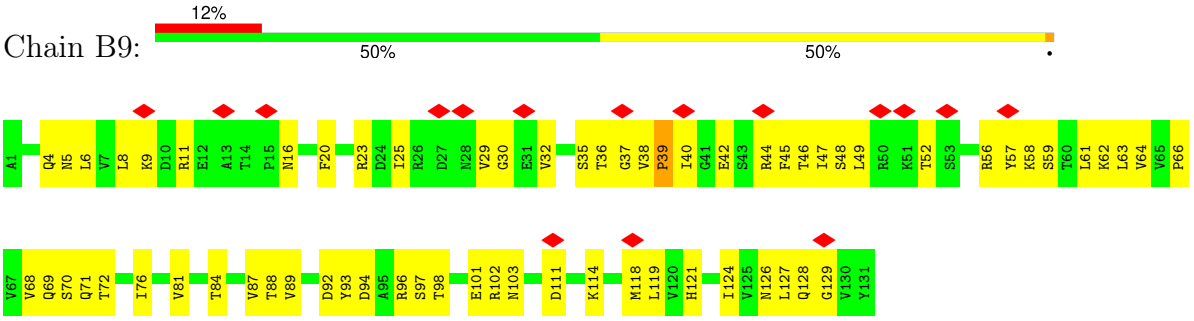
• Molecule 3: Coat Protein

Chain B8:



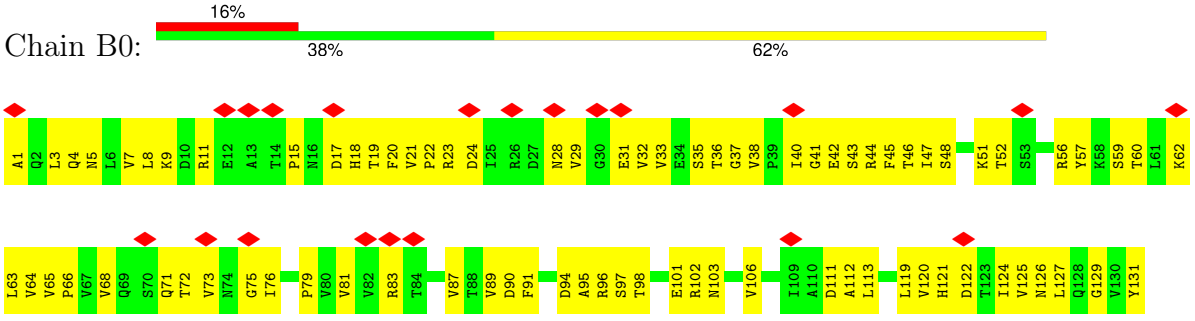
• Molecule 3: Coat Protein

Chain B9:



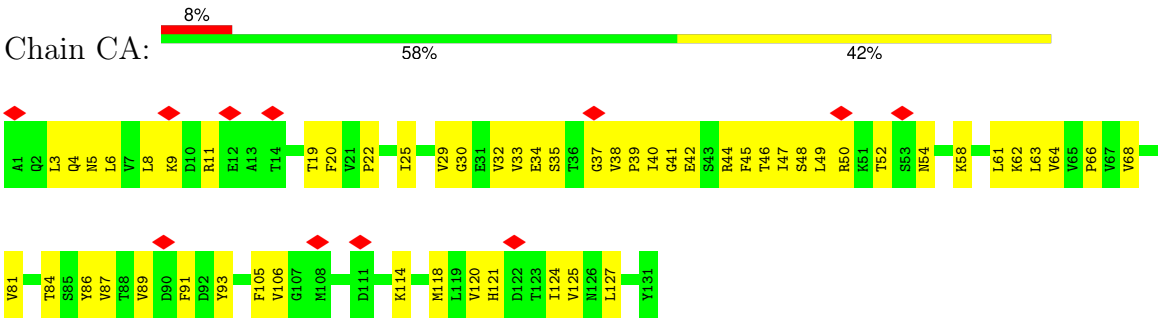
• Molecule 3: Coat Protein

Chain B0:



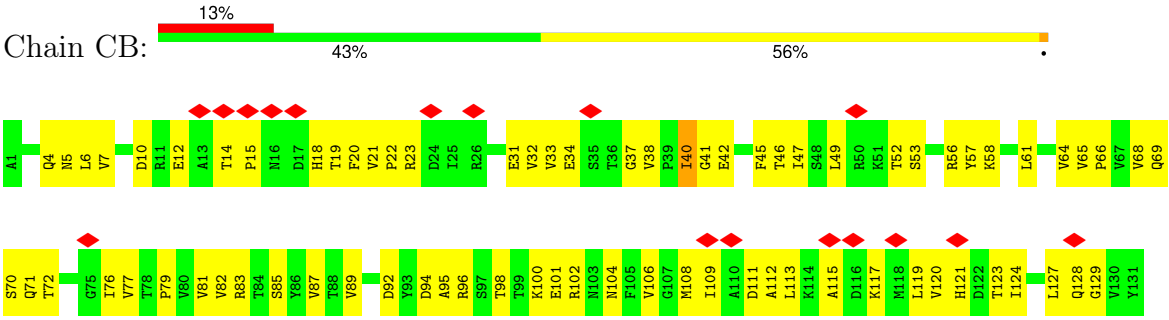
• Molecule 3: Coat Protein

Chain CA:



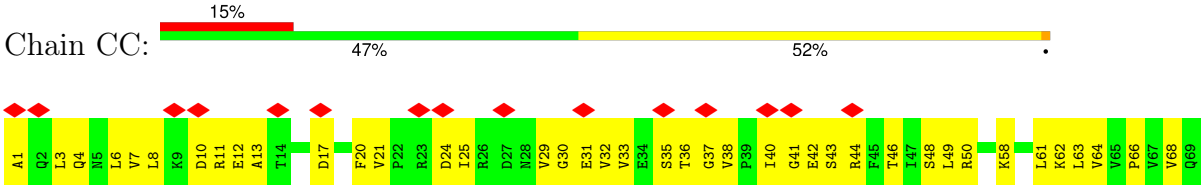
• Molecule 3: Coat Protein

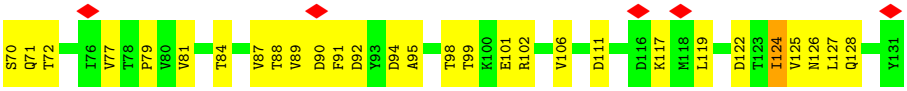
Chain CB:



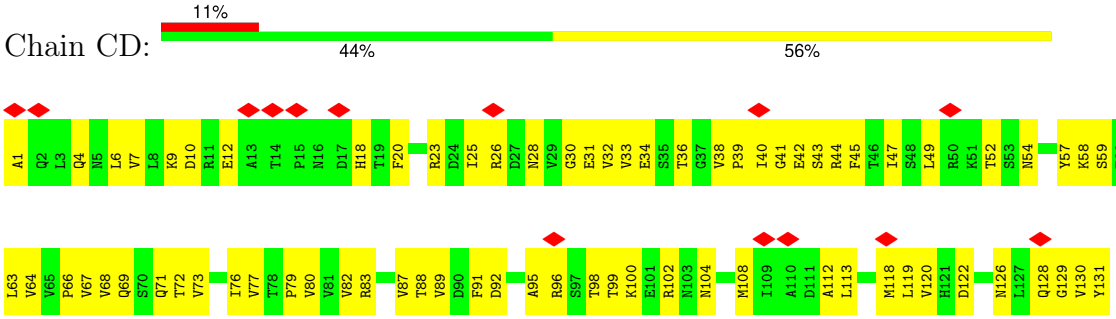
• Molecule 3: Coat Protein

Chain CC:

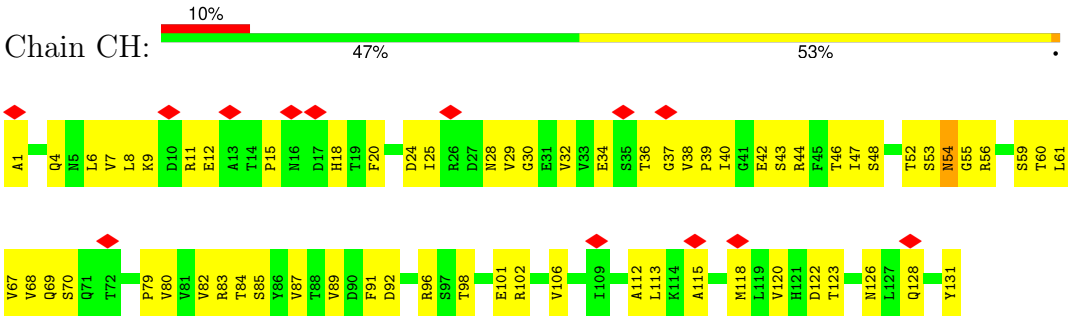




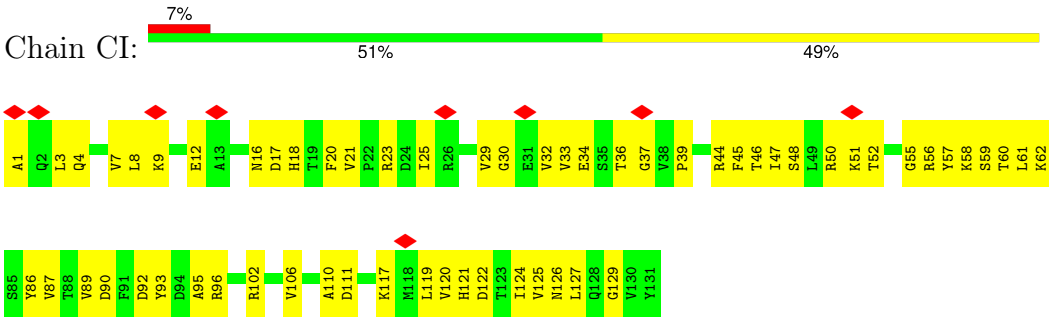
• Molecule 3: Coat Protein



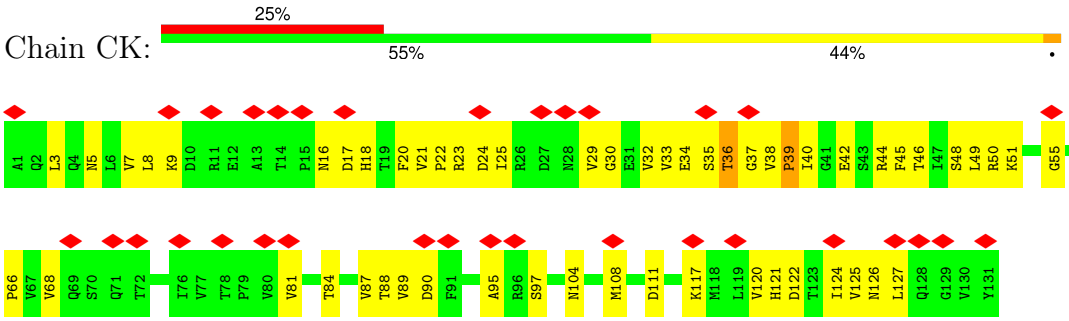
• Molecule 3: Coat Protein



• Molecule 3: Coat Protein

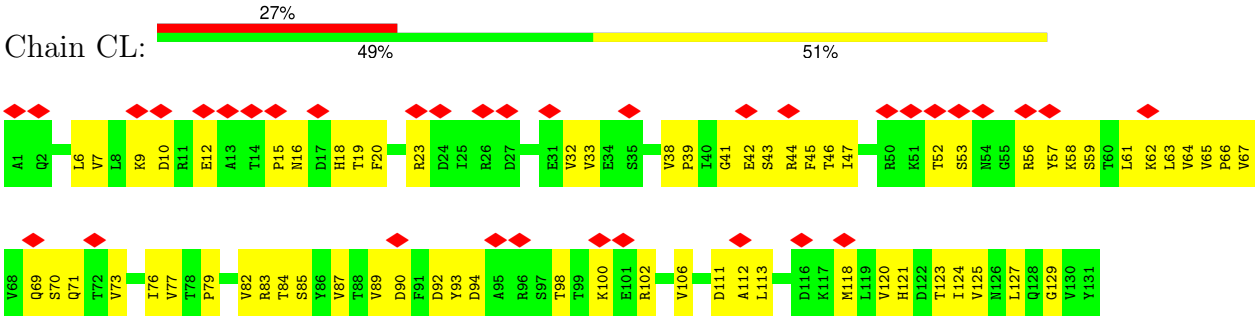


• Molecule 3: Coat Protein



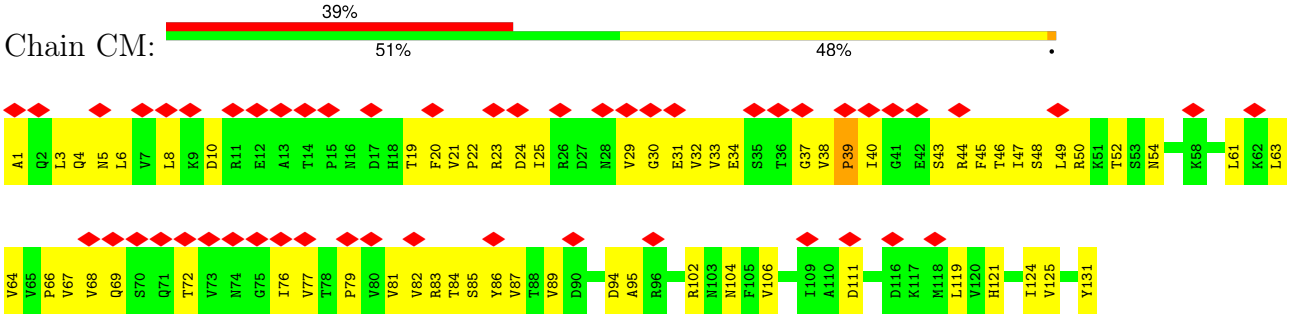
• Molecule 3: Coat Protein

Chain CL:



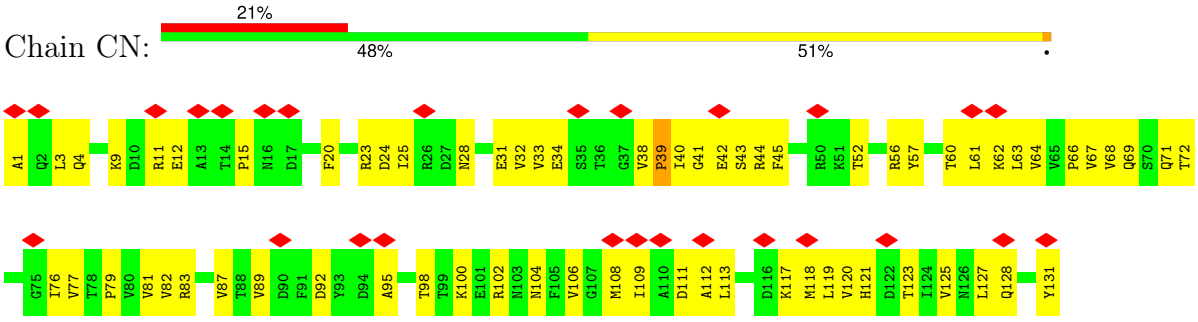
• Molecule 3: Coat Protein

Chain CM:



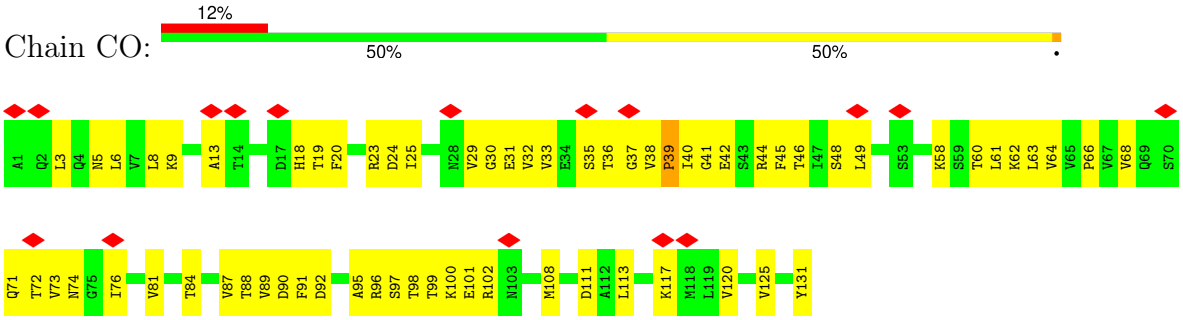
• Molecule 3: Coat Protein

Chain CN:



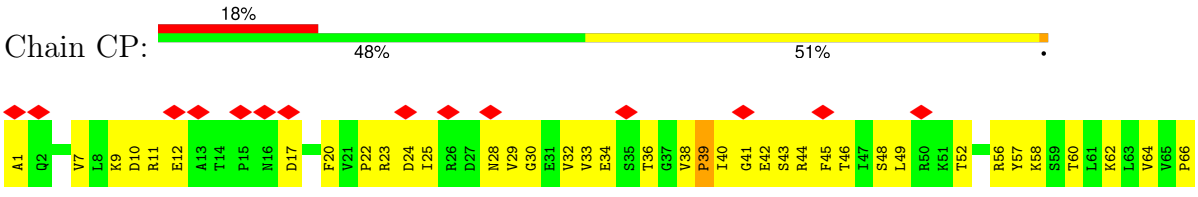
• Molecule 3: Coat Protein

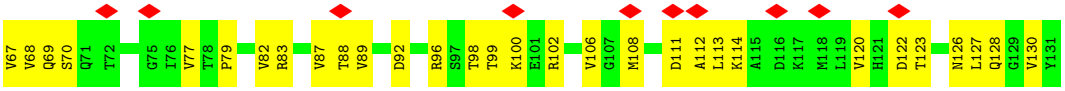
Chain CO:



• Molecule 3: Coat Protein

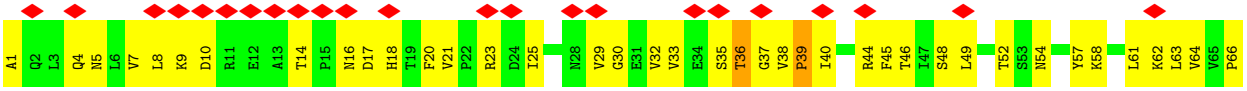
Chain CP:





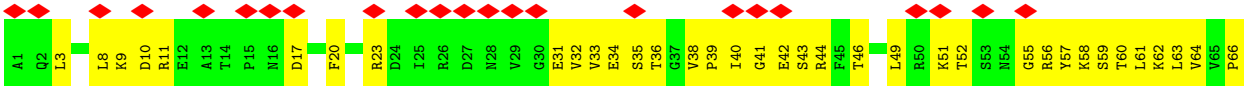
• Molecule 3: Coat Protein

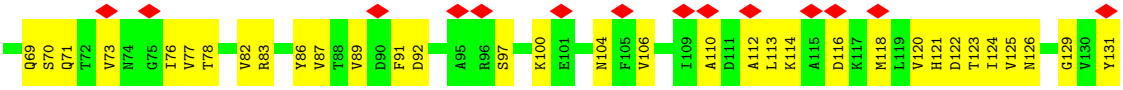
Chain CQ:



• Molecule 3: Coat Protein

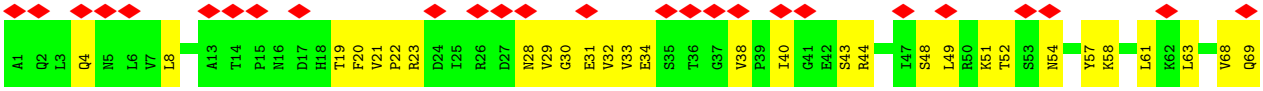
Chain CR:

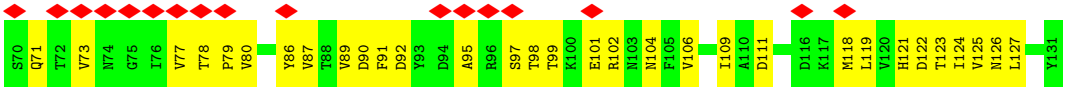




• Molecule 3: Coat Protein

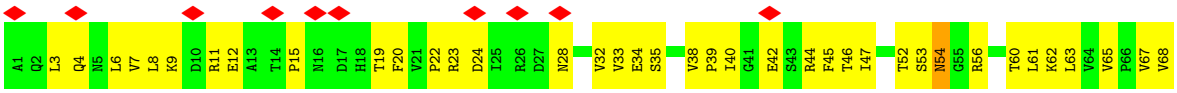
Chain CS:

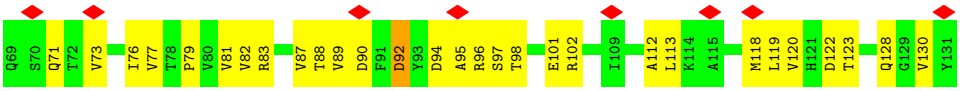




• Molecule 3: Coat Protein

Chain CT:





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	30437	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.471	Depositor
Minimum map value	-0.229	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.027	Depositor
Recommended contour level	0.15	Depositor
Map size (Å)	510.0, 510.0, 510.0	wwPDB
Map dimensions	600, 600, 600	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.85, 0.85, 0.85	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	F	0.06	0/3323	0.14	0/4515
2	AE	0.13	0/3131	0.11	0/4876
3	0	0.05	0/1038	0.15	0/1410
3	1	0.06	0/1038	0.14	0/1410
3	2	0.05	0/1038	0.12	0/1410
3	3	0.05	0/1038	0.15	0/1410
3	4	0.05	0/1038	0.13	0/1410
3	5	0.05	0/1038	0.14	0/1410
3	6	0.05	0/1038	0.13	0/1410
3	7	0.05	0/1038	0.17	0/1410
3	8	0.05	0/1038	0.14	0/1410
3	9	0.06	0/1038	0.19	0/1410
3	A	0.04	0/1038	0.12	0/1410
3	A0	0.05	0/1038	0.13	0/1410
3	A1	0.05	0/1038	0.13	0/1410
3	A2	0.05	0/1038	0.13	0/1410
3	A3	0.05	0/1038	0.12	0/1410
3	A4	0.05	0/1038	0.16	0/1410
3	A5	0.07	0/1038	0.14	0/1410
3	A6	0.05	0/1038	0.16	0/1410
3	A7	0.06	0/1038	0.18	0/1410
3	A8	0.05	0/1038	0.13	0/1410
3	A9	0.06	0/1038	0.14	0/1410
3	AA	0.05	0/1038	0.13	0/1410
3	AB	0.06	0/1038	0.17	0/1410
3	AC	0.05	0/1038	0.13	0/1410
3	AD	0.04	0/1038	0.12	0/1410
3	AO	0.05	0/1038	0.13	0/1410
3	AP	0.05	0/1038	0.13	0/1410
3	AQ	0.06	0/1038	0.14	0/1410
3	AR	0.05	0/1038	0.13	0/1410
3	AS	0.05	0/1038	0.12	0/1410
3	AT	0.05	0/1038	0.14	0/1410
3	AU	0.05	0/1038	0.15	0/1410

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
3	AV	0.05	0/1038	0.12	0/1410
3	AW	0.05	0/1038	0.13	0/1410
3	AX	0.05	0/1038	0.14	0/1410
3	AY	0.06	0/1038	0.18	0/1410
3	AZ	0.05	0/1038	0.14	0/1410
3	Aa	0.07	0/1038	0.17	0/1410
3	Ab	0.07	0/1038	0.16	0/1410
3	Ac	0.05	0/1038	0.13	0/1410
3	Ad	0.05	0/1038	0.13	0/1410
3	Ae	0.05	0/1038	0.13	0/1410
3	Af	0.04	0/1038	0.12	0/1410
3	Ag	0.04	0/1038	0.12	0/1410
3	Ah	0.06	0/1038	0.15	0/1410
3	Ai	0.06	0/1038	0.15	0/1410
3	Aj	0.05	0/1038	0.14	0/1410
3	Ak	0.07	0/1038	0.19	0/1410
3	Al	0.05	0/1038	0.13	0/1410
3	Am	0.05	0/1038	0.13	0/1410
3	An	0.05	0/1038	0.13	0/1410
3	Ao	0.05	0/1038	0.13	0/1410
3	Ap	0.08	0/1038	0.22	0/1410
3	Aq	0.06	0/1038	0.15	0/1410
3	Ar	0.06	0/1038	0.16	0/1410
3	As	0.05	0/1038	0.13	0/1410
3	At	0.05	0/1038	0.13	0/1410
3	Au	0.06	0/1038	0.14	0/1410
3	Av	0.05	0/1038	0.14	0/1410
3	Aw	0.06	0/1038	0.17	0/1410
3	Ax	0.05	0/1038	0.14	0/1410
3	Ay	0.05	0/1038	0.12	0/1410
3	Az	0.04	0/1038	0.14	0/1410
3	B	0.05	0/1038	0.14	0/1410
3	B0	0.05	0/1038	0.13	0/1410
3	B1	0.05	0/1038	0.13	0/1410
3	B2	0.06	0/1038	0.15	0/1410
3	B3	0.06	0/1038	0.17	0/1410
3	B4	0.06	0/1038	0.18	0/1410
3	B5	0.05	0/1038	0.16	0/1410
3	B6	0.05	0/1038	0.14	0/1410
3	B7	0.05	0/1038	0.13	0/1410
3	B8	0.06	0/1038	0.15	0/1410
3	B9	0.05	0/1038	0.13	0/1410
3	BA	0.05	0/1046	0.15	0/1421

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
3	BB	0.05	0/1038	0.13	0/1410
3	BC	0.05	0/1038	0.12	0/1410
3	BD	0.05	0/1038	0.13	0/1410
3	BE	0.05	0/1038	0.13	0/1410
3	BF	0.05	0/1038	0.13	0/1410
3	BG	0.05	0/1038	0.14	0/1410
3	BH	0.05	0/1038	0.14	0/1410
3	BI	0.05	0/1038	0.17	0/1410
3	BJ	0.06	0/1038	0.14	0/1410
3	BK	0.06	0/1038	0.14	0/1410
3	BL	0.05	0/1038	0.13	0/1410
3	BM	0.04	0/1038	0.12	0/1410
3	BN	0.05	0/1038	0.13	0/1410
3	BO	0.04	0/1038	0.13	0/1410
3	BP	0.08	0/1038	0.23	0/1410
3	BQ	0.05	0/1038	0.18	0/1410
3	BR	0.05	0/1038	0.13	0/1410
3	BS	0.06	0/1038	0.15	0/1410
3	BV	0.05	0/1038	0.16	0/1410
3	BY	0.06	0/1038	0.16	0/1410
3	BZ	0.05	0/1038	0.13	0/1410
3	Bb	0.07	0/1038	0.16	0/1410
3	Bc	0.05	0/1038	0.13	0/1410
3	Bd	0.05	0/1038	0.18	0/1410
3	Bg	0.05	0/1038	0.13	0/1410
3	Bh	0.06	0/1038	0.16	0/1410
3	Bi	0.05	0/1038	0.16	0/1410
3	Bj	0.05	0/1038	0.20	0/1410
3	Bk	0.05	0/1038	0.16	0/1410
3	Bl	0.05	0/1038	0.13	0/1410
3	Bm	0.05	0/1038	0.17	0/1410
3	Bn	0.06	0/1038	0.18	0/1410
3	Bu	0.06	0/1038	0.19	0/1410
3	Bv	0.06	0/1038	0.17	0/1410
3	Bw	0.06	0/1038	0.19	0/1410
3	Bx	0.06	0/1038	0.17	0/1410
3	By	0.06	0/1038	0.18	0/1410
3	Bz	0.05	0/1038	0.16	0/1410
3	C	0.06	0/1038	0.19	0/1410
3	CA	0.05	0/1038	0.13	0/1410
3	CB	0.07	0/1038	0.18	0/1410
3	CC	0.05	0/1038	0.12	0/1410
3	CD	0.06	0/1038	0.19	0/1410

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
3	CH	0.05	0/1038	0.13	0/1410
3	CI	0.05	0/1038	0.13	0/1410
3	CK	0.05	0/1038	0.14	0/1410
3	CL	0.05	0/1038	0.13	0/1410
3	CM	0.05	0/1038	0.14	0/1410
3	CN	0.05	0/1038	0.15	0/1410
3	CO	0.06	0/1038	0.15	0/1410
3	CP	0.06	0/1038	0.17	0/1410
3	CQ	0.05	0/1038	0.13	0/1410
3	CR	0.06	0/1038	0.15	0/1410
3	CS	0.05	0/1038	0.16	0/1410
3	CT	0.05	0/1038	0.13	0/1410
3	D	0.05	0/1038	0.14	0/1410
3	E	0.05	0/1038	0.13	0/1410
3	G	0.05	0/1038	0.17	0/1410
3	H	0.06	0/1038	0.18	0/1410
3	I	0.05	0/1038	0.15	0/1410
3	J	0.05	0/1038	0.14	0/1410
3	K	0.05	0/1038	0.16	0/1410
3	L	0.06	0/1038	0.15	0/1410
3	M	0.05	0/1038	0.15	0/1410
3	N	0.07	0/1038	0.18	0/1410
3	O	0.05	0/1038	0.15	0/1410
3	P	0.05	0/1038	0.13	0/1410
3	Q	0.05	0/1038	0.14	0/1410
3	R	0.05	0/1038	0.13	0/1410
3	S	0.05	0/1038	0.12	0/1410
3	T	0.05	0/1038	0.15	0/1410
3	U	0.05	0/1038	0.13	0/1410
3	V	0.05	0/1038	0.14	0/1410
3	W	0.06	0/1038	0.16	0/1410
3	X	0.05	0/1038	0.14	0/1410
3	Y	0.05	0/1038	0.13	0/1410
3	Z	0.06	0/1038	0.14	0/1410
3	a	0.05	0/1038	0.14	0/1410
3	b	0.05	0/1038	0.13	0/1410
3	c	0.05	0/1038	0.13	0/1410
3	d	0.05	0/1038	0.12	0/1410
3	e	0.05	0/1038	0.14	0/1410
3	f	0.05	0/1038	0.13	0/1410
3	g	0.06	0/1038	0.13	0/1410
3	h	0.05	0/1038	0.13	0/1410
3	i	0.05	0/1038	0.14	0/1410

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	j	0.06	0/1038	0.16	0/1410
3	k	0.05	0/1038	0.14	0/1410
3	l	0.05	0/1038	0.14	0/1410
3	m	0.05	0/1038	0.13	0/1410
3	n	0.05	0/1038	0.13	0/1410
3	o	0.05	0/1038	0.13	0/1410
3	p	0.06	0/1038	0.14	0/1410
3	q	0.05	0/1038	0.15	0/1410
3	r	0.06	0/1038	0.16	0/1410
3	s	0.05	0/1038	0.13	0/1410
3	t	0.04	0/1038	0.12	0/1410
3	u	0.06	0/1038	0.15	0/1410
3	v	0.08	0/1038	0.23	0/1410
3	w	0.05	0/1038	0.13	0/1410
3	x	0.04	0/1038	0.12	0/1410
3	y	0.05	0/1038	0.13	0/1410
3	z	0.05	0/1038	0.13	0/1410
All	All	0.06	0/191226	0.15	0/260382

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	3239	3222	3221	6	0
2	AE	2804	1421	1422	5	0
3	0	1024	0	1043	80	0
3	1	1024	0	1043	44	0
3	2	1024	0	1043	40	0
3	3	1024	0	1043	61	0
3	4	1024	0	1043	70	0
3	5	1024	0	1043	62	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	6	1024	0	1043	63	0
3	7	1024	0	1043	61	0
3	8	1024	0	1043	74	0
3	9	1024	0	1043	71	0
3	A	1024	0	1043	67	0
3	A0	1024	0	1043	64	0
3	A1	1024	0	1043	67	0
3	A2	1024	0	1043	65	0
3	A3	1024	0	1043	60	0
3	A4	1024	0	1043	64	0
3	A5	1024	0	1043	71	0
3	A6	1024	0	1043	68	0
3	A7	1024	0	1043	64	0
3	A8	1024	0	1043	74	0
3	A9	1024	0	1043	62	0
3	AA	1024	0	1043	66	0
3	AB	1024	0	1043	75	0
3	AC	1024	0	1043	59	0
3	AD	1024	0	1043	55	0
3	AO	1024	0	1043	58	0
3	AP	1024	0	1043	74	0
3	AQ	1024	0	1043	47	0
3	AR	1024	0	1043	50	0
3	AS	1024	0	1043	60	0
3	AT	1024	0	1043	71	0
3	AU	1024	0	1043	70	0
3	AV	1024	0	1043	82	0
3	AW	1024	0	1043	60	0
3	AX	1024	0	1043	48	0
3	AY	1024	0	1043	64	0
3	AZ	1024	0	1043	66	0
3	Aa	1024	0	1043	70	0
3	Ab	1024	0	1043	60	0
3	Ac	1024	0	1043	64	0
3	Ad	1024	0	1043	78	0
3	Ae	1024	0	1043	75	0
3	Af	1024	0	1043	78	0
3	Ag	1024	0	1043	70	0
3	Ah	1024	0	1043	76	0
3	Ai	1024	0	1043	67	0
3	Aj	1024	0	1043	79	0
3	Ak	1024	0	1043	65	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	Al	1024	0	1043	67	0
3	Am	1024	0	1043	67	0
3	An	1024	0	1043	73	0
3	Ao	1024	0	1043	62	0
3	Ap	1024	0	1043	76	0
3	Aq	1024	0	1043	51	0
3	Ar	1024	0	1043	62	0
3	As	1024	0	1043	65	0
3	At	1024	0	1043	73	0
3	Au	1024	0	1043	65	0
3	Av	1024	0	1043	70	0
3	Aw	1024	0	1043	59	0
3	Ax	1024	0	1043	65	0
3	Ay	1024	0	1043	56	0
3	Az	1024	0	1043	69	0
3	B	1024	0	1043	76	0
3	B0	1024	0	1043	84	0
3	B1	1024	0	1043	62	0
3	B2	1024	0	1043	75	0
3	B3	1024	0	1043	62	0
3	B4	1024	0	1043	74	0
3	B5	1024	0	1043	68	0
3	B6	1024	0	1043	72	0
3	B7	1024	0	1043	62	0
3	B8	1024	0	1043	83	0
3	B9	1024	0	1043	67	0
3	BA	1028	0	1043	68	0
3	BB	1024	0	1043	73	0
3	BC	1024	0	1043	68	0
3	BD	1024	0	1043	61	0
3	BE	1024	0	1043	65	0
3	BF	1024	0	1043	85	0
3	BG	1024	0	1043	81	0
3	BH	1024	0	1043	82	0
3	BI	1024	0	1043	61	0
3	BJ	1024	0	1043	57	0
3	BK	1024	0	1043	64	0
3	BL	1024	0	1043	60	0
3	BM	1024	0	1043	61	0
3	BN	1024	0	1043	72	0
3	BO	1024	0	1043	54	0
3	BP	1024	0	1043	63	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	BQ	1024	0	1043	58	0
3	BR	1024	0	1043	72	0
3	BS	1024	0	1043	72	0
3	BV	1024	0	1043	85	0
3	BY	1024	0	1043	52	0
3	BZ	1024	0	1043	69	0
3	Bb	1024	0	1043	66	0
3	Bc	1024	0	1043	64	0
3	Bd	1024	0	1043	69	0
3	Bg	1024	0	1043	66	0
3	Bh	1024	0	1043	63	0
3	Bi	1024	0	1043	49	0
3	Bj	1024	0	1043	68	0
3	Bk	1024	0	1043	65	0
3	Bl	1024	0	1043	67	0
3	Bm	1024	0	1043	66	0
3	Bn	1024	0	1043	81	0
3	Bu	1024	0	1043	50	0
3	Bv	1024	0	1043	77	0
3	Bw	1024	0	1043	68	0
3	Bx	1024	0	1043	82	0
3	By	1024	0	1043	70	0
3	Bz	1024	0	1043	88	0
3	C	1024	0	1043	67	0
3	CA	1024	0	1043	54	0
3	CB	1024	0	1043	64	0
3	CC	1024	0	1043	69	0
3	CD	1024	0	1043	79	0
3	CH	1024	0	1043	68	0
3	CI	1024	0	1043	60	0
3	CK	1024	0	1043	63	0
3	CL	1024	0	1043	66	0
3	CM	1024	0	1043	65	0
3	CN	1024	0	1043	69	0
3	CO	1024	0	1043	63	0
3	CP	1024	0	1043	67	0
3	CQ	1024	0	1043	74	0
3	CR	1024	0	1043	68	0
3	CS	1024	0	1043	58	0
3	CT	1024	0	1043	80	0
3	D	1024	0	1043	58	0
3	E	1024	0	1043	56	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	G	1024	0	1043	49	0
3	H	1024	0	1043	56	0
3	I	1024	0	1043	56	0
3	J	1024	0	1043	81	0
3	K	1024	0	1043	67	0
3	L	1024	0	1043	49	0
3	M	1024	0	1043	71	0
3	N	1024	0	1043	75	0
3	O	1024	0	1043	77	0
3	P	1024	0	1043	74	0
3	Q	1024	0	1043	74	0
3	R	1024	0	1043	78	0
3	S	1024	0	1043	62	0
3	T	1024	0	1043	72	0
3	U	1024	0	1043	44	0
3	V	1024	0	1043	55	0
3	W	1024	0	1043	73	0
3	X	1024	0	1043	55	0
3	Y	1024	0	1043	63	0
3	Z	1024	0	1043	58	0
3	a	1024	0	1043	49	0
3	b	1024	0	1043	65	0
3	c	1024	0	1043	53	0
3	d	1024	0	1043	54	0
3	e	1024	0	1043	58	0
3	f	1024	0	1043	69	0
3	g	1024	0	1043	60	0
3	h	1024	0	1043	62	0
3	i	1024	0	1043	67	0
3	j	1024	0	1043	78	0
3	k	1024	0	1043	47	0
3	l	1024	0	1043	52	0
3	m	1024	0	1043	72	0
3	n	1024	0	1043	67	0
3	o	1024	0	1043	58	0
3	p	1024	0	1043	67	0
3	q	1024	0	1043	72	0
3	r	1024	0	1043	77	0
3	s	1024	0	1043	60	0
3	t	1024	0	1043	67	0
3	u	1024	0	1043	64	0
3	v	1024	0	1043	62	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	w	1024	0	1043	53	0
3	x	1024	0	1043	48	0
3	y	1024	0	1043	65	0
3	z	1024	0	1043	70	0
All	All	188319	4643	190297	9542	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 25.

All (9542) 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:BZ:52:THR:HG22	3:BZ:56:ARG:O	1.58	1.02
3:8:41:GLY:HA2	3:8:66:PRO:HG2	1.45	0.99
3:CR:71:GLN:HB2	3:CR:78:THR:HB	1.43	0.97
3:Ak:6:LEU:HD12	3:Al:119:LEU:HD23	1.44	0.97
3:A:6:LEU:HB3	3:A:20:PHE:HB2	1.43	0.97
3:CQ:25:ILE:HG22	3:CQ:30:GLY:HA2	1.45	0.97
3:f:41:GLY:HA2	3:f:66:PRO:HG2	1.47	0.96
3:BB:41:GLY:HA2	3:BB:66:PRO:HG2	1.45	0.96
3:8:46:THR:HB	3:8:62:LYS:HB2	1.47	0.96
3:Ak:62:LYS:HE3	3:Ak:88:THR:HG23	1.46	0.96
3:BF:41:GLY:HA2	3:BF:66:PRO:HG2	1.46	0.96
3:I:6:LEU:HB3	3:I:20:PHE:HB2	1.45	0.96
3:C:113:LEU:HD21	3:D:109:ILE:HG23	1.47	0.96
3:b:40:ILE:HG22	3:b:68:VAL:HG21	1.46	0.96
3:AS:33:VAL:HG12	3:AS:44:ARG:HA	1.48	0.96
3:P:40:ILE:HG22	3:P:68:VAL:HG21	1.48	0.95
3:Bv:20:PHE:HA	3:Bv:34:GLU:HG2	1.47	0.95
3:BN:41:GLY:HA2	3:BN:66:PRO:HG2	1.48	0.95
3:B1:25:ILE:HG22	3:B1:30:GLY:HA2	1.49	0.95
3:X:22:PRO:HA	3:X:32:VAL:HA	1.45	0.95
3:A8:40:ILE:HG22	3:A8:68:VAL:HG21	1.47	0.95
3:r:113:LEU:HA	3:r:120:VAL:HG11	1.49	0.95
3:BQ:33:VAL:HG12	3:BQ:44:ARG:HA	1.48	0.95
3:AV:38:VAL:HG11	3:AV:79:PRO:HG3	1.49	0.94
3:AT:41:GLY:HA2	3:AT:66:PRO:HG2	1.49	0.94
3:BC:113:LEU:HD22	3:BD:110:ALA:HB2	1.50	0.94
3:B3:25:ILE:HG22	3:B3:30:GLY:HA2	1.47	0.94
3:Bu:25:ILE:HG22	3:Bu:30:GLY:HA2	1.48	0.94
3:BP:6:LEU:HB3	3:BP:20:PHE:HB2	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bu:35:SER:HA	3:Bu:42:GLU:HG2	1.49	0.94
3:Am:35:SER:HA	3:Am:42:GLU:HG2	1.48	0.93
3:Au:111:ASP:HB3	3:Av:8:LEU:HD23	1.49	0.93
3:BA:25:ILE:HG22	3:BA:30:GLY:HA2	1.48	0.93
3:3:25:ILE:HG22	3:3:30:GLY:HA2	1.51	0.93
3:A9:25:ILE:HG13	3:A9:30:GLY:HA2	1.50	0.93
3:CC:33:VAL:HG12	3:CC:44:ARG:HA	1.48	0.93
3:Ai:119:LEU:HD11	3:Aj:3:LEU:HD12	1.51	0.93
3:Ay:33:VAL:HG12	3:Ay:44:ARG:HA	1.51	0.93
3:Bu:33:VAL:HG12	3:Bu:44:ARG:HA	1.48	0.93
3:s:25:ILE:HG12	3:s:30:GLY:HA2	1.51	0.93
3:CO:46:THR:HB	3:CO:62:LYS:HB3	1.50	0.93
3:AY:25:ILE:HG22	3:AY:30:GLY:HA2	1.50	0.92
3:A7:33:VAL:HG12	3:A7:44:ARG:HA	1.50	0.92
3:Bd:61:LEU:HB2	3:Bd:89:VAL:HB	1.49	0.92
3:CA:33:VAL:HG12	3:CA:44:ARG:HA	1.50	0.92
3:K:49:LEU:HD12	3:L:123:THR:HG23	1.50	0.92
3:BV:8:LEU:HD23	3:CI:111:ASP:HB3	1.49	0.92
3:A3:35:SER:HA	3:A3:42:GLU:HG2	1.50	0.92
3:Bg:49:LEU:HD12	3:Bh:123:THR:HG23	1.51	0.92
3:Ae:123:THR:HG23	3:Af:49:LEU:HD22	1.52	0.92
3:M:3:LEU:HD11	3:N:130:VAL:HB	1.50	0.92
3:Bb:40:ILE:HG22	3:Bb:68:VAL:HG21	1.51	0.92
3:Bc:61:LEU:HB2	3:Bc:89:VAL:HB	1.52	0.92
3:CM:47:ILE:HD11	3:CN:123:THR:HG21	1.51	0.92
3:CO:35:SER:HA	3:CO:42:GLU:HG2	1.51	0.92
3:X:40:ILE:HG22	3:X:68:VAL:HG21	1.51	0.91
3:X:32:VAL:HB	3:X:45:PHE:HB3	1.52	0.91
3:Ao:35:SER:HA	3:Ao:42:GLU:HG2	1.51	0.91
3:CC:35:SER:HA	3:CC:42:GLU:HG2	1.52	0.91
3:BS:49:LEU:HD11	3:CH:123:THR:HG23	1.51	0.91
3:CC:68:VAL:HG12	3:CC:81:VAL:HG22	1.52	0.91
3:BQ:35:SER:HA	3:BQ:42:GLU:HG2	1.50	0.90
3:B2:41:GLY:HA2	3:B2:66:PRO:HG2	1.54	0.90
3:E:46:THR:HB	3:E:62:LYS:HB3	1.53	0.90
3:Q:33:VAL:HG12	3:Q:44:ARG:HA	1.50	0.90
3:K:89:VAL:HG13	3:L:89:VAL:HG22	1.53	0.90
3:Aj:40:ILE:HG22	3:Aj:68:VAL:HG21	1.52	0.90
3:CD:41:GLY:HA2	3:CD:66:PRO:HG2	1.53	0.90
3:8:76:ILE:HD11	3:AT:69:GLN:HB3	1.51	0.90
3:Bi:25:ILE:HG22	3:Bi:30:GLY:HA2	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B3:33:VAL:HG12	3:B3:44:ARG:HA	1.53	0.90
3:3:6:LEU:HD13	3:4:119:LEU:HD21	1.54	0.90
3:W:25:ILE:HG22	3:W:30:GLY:HA2	1.51	0.90
3:Ad:41:GLY:HA2	3:Ad:66:PRO:HG2	1.54	0.90
3:BR:40:ILE:HG22	3:BR:68:VAL:HG21	1.54	0.89
3:CS:58:LYS:HG2	3:CS:92:ASP:HB3	1.52	0.89
3:Au:117:LYS:HD2	3:Av:6:LEU:HD11	1.54	0.89
3:A3:25:ILE:HG22	3:A3:30:GLY:HA2	1.51	0.89
3:BG:68:VAL:HG12	3:BG:81:VAL:HG22	1.54	0.89
3:w:25:ILE:HG22	3:w:30:GLY:HA2	1.51	0.89
3:I:46:THR:HB	3:I:62:LYS:HB3	1.52	0.89
3:Ac:123:THR:HG23	3:Ad:49:LEU:HD22	1.53	0.89
3:An:61:LEU:HB2	3:An:89:VAL:HB	1.54	0.89
3:e:35:SER:HA	3:e:42:GLU:HG2	1.53	0.89
3:i:25:ILE:HG22	3:i:30:GLY:HA2	1.54	0.89
3:A1:25:ILE:HD11	3:A1:28:ASN:HA	1.54	0.89
3:Bg:117:LYS:HD3	3:Bh:6:LEU:HD11	1.54	0.89
3:I:25:ILE:HG22	3:I:30:GLY:HA2	1.51	0.89
3:u:25:ILE:HG22	3:u:30:GLY:HA2	1.55	0.89
3:m:119:LEU:HD11	3:n:3:LEU:HD12	1.54	0.88
3:Ak:20:PHE:HB3	3:Ak:32:VAL:HB	1.53	0.88
3:BR:20:PHE:HB3	3:BR:32:VAL:HG11	1.53	0.88
3:B5:49:LEU:HD11	3:B6:123:THR:HG23	1.55	0.88
3:O:111:ASP:HB3	3:P:8:LEU:HD23	1.54	0.88
3:AQ:89:VAL:HG22	3:AR:89:VAL:HG13	1.53	0.88
3:BH:33:VAL:HG22	3:BH:44:ARG:HA	1.54	0.88
3:B7:58:LYS:HG2	3:B7:92:ASP:HB3	1.55	0.88
3:s:3:LEU:HD22	3:s:25:ILE:HD11	1.53	0.88
3:Bw:33:VAL:HG12	3:Bw:44:ARG:HA	1.53	0.88
3:A3:4:GLN:HG3	3:A4:119:LEU:HD12	1.52	0.88
3:Aj:105:PHE:HA	3:Aj:108:MET:HE2	1.55	0.88
3:BG:46:THR:HB	3:BG:62:LYS:HB3	1.56	0.88
3:Al:22:PRO:HA	3:Al:32:VAL:HA	1.55	0.88
3:y:111:ASP:HB3	3:z:8:LEU:HD12	1.56	0.88
3:G:89:VAL:HG22	3:H:89:VAL:HG13	1.54	0.88
3:AO:35:SER:HA	3:AO:42:GLU:HG2	1.55	0.88
3:Am:58:LYS:HG2	3:Am:92:ASP:HB3	1.55	0.88
3:B9:25:ILE:HG22	3:B9:30:GLY:HA2	1.56	0.88
3:O:46:THR:HB	3:O:62:LYS:HB2	1.56	0.88
3:B7:89:VAL:HG12	3:B8:89:VAL:HG13	1.55	0.88
3:Y:89:VAL:HG22	3:Z:89:VAL:HG13	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:22:PRO:HA	3:P:32:VAL:HA	1.54	0.87
3:AB:40:ILE:HG22	3:AB:68:VAL:HG21	1.54	0.87
3:A7:46:THR:HB	3:A7:62:LYS:HB3	1.55	0.87
3:Bc:29:VAL:HG22	3:Bc:48:SER:HB3	1.55	0.87
3:7:46:THR:HB	3:7:62:LYS:HB3	1.53	0.87
3:s:122:ASP:HB2	3:s:128:GLN:HG3	1.55	0.87
3:Bw:6:LEU:HB3	3:Bw:20:PHE:HB2	1.55	0.87
3:CP:41:GLY:HA2	3:CP:66:PRO:HG2	1.55	0.87
3:A8:41:GLY:HA2	3:A8:66:PRO:HG2	1.57	0.87
3:BG:10:ASP:HB2	3:BG:15:PRO:HB3	1.56	0.87
3:i:110:ALA:HB2	3:j:113:LEU:HD11	1.57	0.87
3:K:89:VAL:HG22	3:L:89:VAL:HG13	1.57	0.87
3:Aq:29:VAL:HA	3:Aq:48:SER:HB3	1.57	0.87
3:BA:33:VAL:HG12	3:BA:44:ARG:HA	1.57	0.87
3:I:33:VAL:HG12	3:I:44:ARG:HA	1.54	0.87
3:B7:110:ALA:HB2	3:B8:113:LEU:HD11	1.54	0.87
3:q:29:VAL:HG13	3:q:46:THR:HG23	1.57	0.86
3:M:46:THR:HB	3:M:62:LYS:HB3	1.57	0.86
3:AO:25:ILE:HG22	3:AO:30:GLY:HA2	1.55	0.86
3:B3:47:ILE:HG22	3:B3:61:LEU:HG	1.57	0.86
3:AR:25:ILE:HD11	3:AR:28:ASN:HA	1.56	0.86
3:Am:33:VAL:HG12	3:Am:44:ARG:HA	1.55	0.86
3:BS:47:ILE:HG22	3:BS:61:LEU:HG	1.56	0.86
3:B7:3:LEU:HD22	3:B7:25:ILE:HD11	1.58	0.86
3:1:89:VAL:HG13	3:2:89:VAL:HG22	1.54	0.86
3:B7:119:LEU:HD11	3:B8:3:LEU:HD12	1.57	0.86
3:B:41:GLY:HA2	3:B:66:PRO:HG2	1.58	0.86
3:s:8:LEU:HD12	3:t:111:ASP:HB3	1.55	0.86
3:Bc:25:ILE:HD11	3:Bc:28:ASN:HA	1.57	0.86
3:v:46:THR:HB	3:v:62:LYS:HB3	1.56	0.86
3:BH:40:ILE:HG22	3:BH:68:VAL:HG21	1.56	0.86
3:Bj:61:LEU:HB2	3:Bj:89:VAL:HB	1.56	0.86
3:i:33:VAL:HG12	3:i:44:ARG:HA	1.55	0.86
3:Bu:46:THR:HB	3:Bu:62:LYS:HB3	1.57	0.86
3:h:40:ILE:HD12	3:n:96:ARG:HG2	1.58	0.86
3:BH:20:PHE:HA	3:BH:34:GLU:HG2	1.56	0.85
3:BY:89:VAL:HG22	3:BZ:89:VAL:HG13	1.57	0.85
3:Bh:31:GLU:HG3	3:Bh:46:THR:HG22	1.58	0.85
3:AA:89:VAL:HG12	3:AB:89:VAL:HG13	1.57	0.85
3:i:46:THR:HB	3:i:62:LYS:HB2	1.59	0.85
3:Ay:35:SER:HA	3:Ay:42:GLU:HG2	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B4:41:GLY:HA2	3:B4:66:PRO:HG2	1.58	0.85
3:r:76:ILE:HG21	3:Ad:69:GLN:HB3	1.58	0.85
3:X:96:ARG:HG2	3:d:40:ILE:HD12	1.58	0.85
3:k:113:LEU:HD21	3:l:109:ILE:HG23	1.58	0.85
3:o:89:VAL:HG22	3:p:89:VAL:HG13	1.59	0.85
3:y:25:ILE:HG22	3:y:30:GLY:HA2	1.57	0.85
3:Al:76:ILE:HD11	3:Ao:71:GLN:HB3	1.59	0.85
3:Ap:41:GLY:HA2	3:Ap:66:PRO:HG2	1.57	0.85
3:A7:35:SER:HA	3:A7:42:GLU:HG2	1.58	0.85
3:CI:58:LYS:HG2	3:CI:92:ASP:HB3	1.59	0.85
3:S:25:ILE:HG22	3:S:30:GLY:HA2	1.57	0.85
3:Al:70:SER:HA	3:Al:79:PRO:HA	1.59	0.85
3:2:112:ALA:HB1	3:2:120:VAL:HG11	1.56	0.84
3:At:96:ARG:HG2	3:Ax:40:ILE:HD12	1.59	0.84
3:m:3:LEU:HD11	3:n:130:VAL:HB	1.57	0.84
3:Ai:68:VAL:HG12	3:Ai:81:VAL:HG22	1.58	0.84
3:CI:25:ILE:HG12	3:CI:30:GLY:HA2	1.58	0.84
3:7:25:ILE:HG22	3:7:30:GLY:HA2	1.59	0.84
3:a:111:ASP:HB3	3:b:8:LEU:HD22	1.57	0.84
3:AA:46:THR:HB	3:AA:62:LYS:HB2	1.59	0.84
3:BH:29:VAL:HG13	3:BH:48:SER:HB3	1.59	0.84
3:By:25:ILE:HG13	3:By:30:GLY:HA2	1.58	0.84
3:W:35:SER:HA	3:W:42:GLU:HG2	1.58	0.84
3:j:41:GLY:HA2	3:j:66:PRO:HG2	1.57	0.84
3:AA:68:VAL:HG12	3:AA:81:VAL:HG22	1.60	0.84
3:Bk:35:SER:HA	3:Bk:42:GLU:HG2	1.57	0.84
3:Bv:72:THR:HA	3:Bv:77:VAL:HG22	1.60	0.84
3:B3:89:VAL:HG12	3:B4:89:VAL:HG13	1.57	0.84
3:B7:3:LEU:HD11	3:B8:130:VAL:HB	1.58	0.84
3:CP:32:VAL:HB	3:CP:45:PHE:HB3	1.60	0.84
3:A9:123:THR:HG23	3:A0:49:LEU:HD12	1.60	0.84
3:B:46:THR:HB	3:B:62:LYS:HB2	1.57	0.84
3:BS:25:ILE:HG22	3:BS:30:GLY:HA2	1.59	0.84
3:AQ:31:GLU:HG3	3:AQ:46:THR:HG22	1.60	0.84
3:AQ:89:VAL:HG13	3:AR:89:VAL:HG22	1.58	0.84
3:BO:89:VAL:HG13	3:BP:89:VAL:HG22	1.60	0.84
3:Bi:66:PRO:HA	3:Bi:84:THR:HG22	1.58	0.84
3:CK:35:SER:HA	3:CK:42:GLU:HG2	1.59	0.84
3:AC:25:ILE:HG22	3:AC:30:GLY:HA2	1.59	0.83
3:A4:68:VAL:HG22	3:A4:81:VAL:HG22	1.58	0.83
3:AA:110:ALA:HB2	3:AB:113:LEU:HD11	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ag:89:VAL:HG22	3:Ah:89:VAL:HG13	1.61	0.83
3:M:33:VAL:HB	3:M:42:GLU:HB3	1.60	0.83
3:AY:33:VAL:HG12	3:AY:44:ARG:HA	1.60	0.83
3:R:40:ILE:HG22	3:R:68:VAL:HG21	1.60	0.83
3:As:3:LEU:HD11	3:As:25:ILE:HD11	1.58	0.83
3:A3:33:VAL:HG12	3:A3:44:ARG:HA	1.60	0.83
3:B6:52:THR:HG21	3:B6:56:ARG:HB2	1.59	0.83
3:B7:25:ILE:HG13	3:B7:30:GLY:HA2	1.60	0.83
3:c:61:LEU:HB2	3:c:89:VAL:HB	1.56	0.83
3:f:71:GLN:H	3:f:77:VAL:HG13	1.44	0.83
3:M:3:LEU:HD22	3:M:25:ILE:HD11	1.61	0.83
3:AS:29:VAL:HG13	3:AS:48:SER:HB3	1.59	0.83
3:AU:25:ILE:HG13	3:AU:30:GLY:HA2	1.59	0.83
3:B6:46:THR:HB	3:B6:62:LYS:HB3	1.59	0.83
3:q:33:VAL:HB	3:q:42:GLU:HB3	1.59	0.83
3:A9:89:VAL:HG12	3:A0:89:VAL:HG13	1.60	0.83
3:Bk:29:VAL:HG13	3:Bk:48:SER:HB2	1.58	0.83
3:BF:38:VAL:HG11	3:BF:79:PRO:HG3	1.62	0.82
3:e:68:VAL:HG12	3:e:81:VAL:HG22	1.60	0.82
3:AA:98:THR:HG22	3:AP:38:VAL:HG22	1.61	0.82
3:Ak:88:THR:HB	3:Al:90:ASP:HB3	1.60	0.82
3:AV:105:PHE:HA	3:AV:108:MET:HE2	1.58	0.82
3:B6:61:LEU:HB2	3:B6:89:VAL:HB	1.61	0.82
3:5:76:ILE:HD11	3:B9:71:GLN:HB3	1.61	0.82
3:a:10:ASP:HB3	3:a:15:PRO:HA	1.62	0.82
3:A:25:ILE:HG22	3:A:30:GLY:HA2	1.59	0.82
3:Ax:25:ILE:HD11	3:Ax:28:ASN:HA	1.62	0.82
3:A5:71:GLN:HB3	3:B1:76:ILE:HD11	1.61	0.82
3:A1:66:PRO:HA	3:A1:84:THR:HG22	1.61	0.82
3:BR:9:LYS:HE2	3:BR:15:PRO:HB2	1.62	0.82
3:A:33:VAL:HG12	3:A:44:ARG:HA	1.60	0.82
3:Ak:86:TYR:HB2	3:Al:92:ASP:HB3	1.61	0.82
3:BA:68:VAL:HG12	3:BA:81:VAL:HG22	1.60	0.82
3:BR:96:ARG:HG3	3:BY:40:ILE:HD12	1.61	0.82
3:9:25:ILE:HG22	3:9:30:GLY:HA2	1.62	0.82
3:AW:25:ILE:HD11	3:AW:28:ASN:HA	1.62	0.82
3:BZ:22:PRO:HA	3:BZ:32:VAL:HA	1.62	0.82
3:K:25:ILE:HD11	3:K:28:ASN:HA	1.60	0.81
3:B9:89:VAL:HG12	3:B0:89:VAL:HG13	1.61	0.81
3:t:61:LEU:HB2	3:t:89:VAL:HB	1.61	0.81
3:Bh:29:VAL:HG22	3:Bh:48:SER:HB3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CS:49:LEU:HD11	3:CT:123:THR:HG23	1.62	0.81
3:O:33:VAL:HG12	3:O:44:ARG:HA	1.59	0.81
3:Y:35:SER:HB2	3:Y:42:GLU:HB3	1.62	0.81
3:AA:91:PHE:HA	3:AB:87:VAL:HG12	1.61	0.81
3:BN:38:VAL:HG11	3:BN:79:PRO:HG3	1.62	0.81
3:By:33:VAL:HB	3:By:42:GLU:HB3	1.60	0.81
3:CC:89:VAL:HG12	3:CD:89:VAL:HG13	1.61	0.81
3:4:41:GLY:HA2	3:4:66:PRO:HG2	1.61	0.81
3:Aj:23:ARG:HD3	3:Aj:33:VAL:HG21	1.62	0.81
3:BK:33:VAL:HG12	3:BK:44:ARG:HA	1.61	0.81
3:Bk:89:VAL:HG12	3:Bl:89:VAL:HG13	1.62	0.81
3:5:29:VAL:HG22	3:5:48:SER:HB3	1.62	0.81
3:c:40:ILE:HD11	3:CB:96:ARG:HG3	1.60	0.81
3:Af:41:GLY:HA2	3:Af:66:PRO:HG2	1.60	0.81
3:A7:25:ILE:HG22	3:A7:30:GLY:HA2	1.61	0.81
3:R:33:VAL:HG13	3:R:42:GLU:HG3	1.62	0.81
3:A5:8:LEU:HD22	3:A6:111:ASP:HB3	1.61	0.81
3:BP:68:VAL:HG22	3:BP:81:VAL:HG22	1.61	0.81
3:3:46:THR:HB	3:3:62:LYS:HB3	1.60	0.81
3:n:33:VAL:HG22	3:n:44:ARG:HG2	1.63	0.81
3:BN:20:PHE:HB3	3:BN:32:VAL:HG11	1.62	0.81
3:D:40:ILE:HG23	3:D:68:VAL:HG21	1.61	0.81
3:Aj:41:GLY:HA2	3:Aj:66:PRO:HG2	1.61	0.81
3:Ak:61:LEU:HD11	3:Al:124:ILE:HD11	1.63	0.81
3:BZ:52:THR:CG2	3:BZ:56:ARG:O	2.28	0.81
3:N:22:PRO:HA	3:N:32:VAL:HA	1.63	0.81
3:Bm:66:PRO:HA	3:Bm:84:THR:HG22	1.62	0.81
3:g:89:VAL:HG22	3:h:89:VAL:HG13	1.63	0.80
3:AZ:38:VAL:HG21	3:AZ:79:PRO:HG3	1.63	0.80
3:Ae:50:ARG:HH12	3:Ae:58:LYS:HB2	1.46	0.80
3:A1:48:SER:HB2	3:A1:60:THR:HB	1.61	0.80
3:BL:73:VAL:HB	3:BL:76:ILE:HD11	1.62	0.80
3:BY:92:ASP:HB3	3:BZ:86:TYR:HB2	1.63	0.80
3:AW:89:VAL:HG22	3:AX:89:VAL:HG13	1.63	0.80
3:Ai:33:VAL:HG12	3:Ai:44:ARG:HA	1.62	0.80
3:A0:40:ILE:HG22	3:A0:68:VAL:HG21	1.61	0.80
3:D:7:VAL:HG22	3:D:19:THR:HA	1.63	0.80
3:A9:68:VAL:HG12	3:A9:81:VAL:HG22	1.64	0.80
3:BL:47:ILE:HD13	3:BL:61:LEU:HG	1.64	0.80
3:Bw:46:THR:HB	3:Bw:62:LYS:HB3	1.62	0.80
3:Q:98:THR:HG22	3:BV:38:VAL:HG22	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:119:LEU:HD11	3:d:4:GLN:HG2	1.63	0.80
3:u:66:PRO:HA	3:u:84:THR:HG22	1.62	0.80
3:AW:76:ILE:HD11	3:Bk:71:GLN:HB3	1.63	0.80
3:Ap:7:VAL:HG12	3:Ap:19:THR:HA	1.63	0.80
3:BK:46:THR:HB	3:BK:62:LYS:HB2	1.64	0.80
3:Bw:117:LYS:HD2	3:Bx:6:LEU:HD11	1.63	0.80
3:B2:57:TYR:HB2	3:B2:93:TYR:HB2	1.61	0.80
3:t:112:ALA:HB1	3:t:120:VAL:HG11	1.62	0.80
3:AY:117:LYS:HD2	3:AZ:6:LEU:HD11	1.63	0.80
3:BV:25:ILE:HG13	3:BV:30:GLY:HA2	1.63	0.80
3:BZ:31:GLU:HG3	3:BZ:46:THR:HG22	1.62	0.80
3:Bk:46:THR:HB	3:Bk:62:LYS:HB3	1.63	0.80
3:B3:35:SER:HA	3:B3:42:GLU:HG2	1.60	0.80
3:N:68:VAL:HG22	3:N:81:VAL:HG22	1.64	0.80
3:Ag:111:ASP:HB3	3:Ah:8:LEU:HD22	1.62	0.80
3:Ay:58:LYS:HG2	3:Ay:92:ASP:HB3	1.64	0.80
3:BF:32:VAL:HB	3:BF:45:PHE:HB3	1.64	0.80
3:An:73:VAL:HB	3:An:76:ILE:HD11	1.63	0.80
3:Ao:6:LEU:HB3	3:Ao:20:PHE:HB2	1.63	0.80
3:1:123:THR:HG23	3:2:49:LEU:HD12	1.62	0.79
3:d:61:LEU:HB2	3:d:89:VAL:HB	1.64	0.79
3:h:76:ILE:HD11	3:m:71:GLN:HB3	1.61	0.79
3:N:40:ILE:HG22	3:N:68:VAL:HG21	1.62	0.79
3:CK:68:VAL:HG12	3:CK:81:VAL:HA	1.64	0.79
3:AP:69:GLN:HB3	3:Bx:76:ILE:HG21	1.64	0.79
3:CO:8:LEU:HB2	3:CO:18:HIS:HB2	1.65	0.79
3:E:25:ILE:HG13	3:E:30:GLY:HA2	1.62	0.79
3:g:89:VAL:HG13	3:h:89:VAL:HG22	1.63	0.79
3:Am:98:THR:HG22	3:Bb:38:VAL:HG22	1.64	0.79
3:B5:66:PRO:HA	3:B5:84:THR:HG22	1.65	0.79
3:B6:41:GLY:HA2	3:B6:66:PRO:HG2	1.63	0.79
3:R:7:VAL:HG12	3:R:19:THR:HA	1.65	0.79
3:A5:76:ILE:HD11	3:B5:71:GLN:HB3	1.65	0.79
3:BQ:66:PRO:HA	3:BQ:84:THR:HG22	1.65	0.79
3:CK:117:LYS:HD2	3:CL:6:LEU:HD11	1.64	0.79
3:CQ:46:THR:HB	3:CQ:62:LYS:HB2	1.64	0.79
3:n:41:GLY:HA2	3:n:66:PRO:HG2	1.62	0.79
3:AD:22:PRO:HA	3:AD:32:VAL:HA	1.64	0.79
3:f:38:VAL:HG21	3:f:79:PRO:HG3	1.65	0.79
3:Bm:89:VAL:HG12	3:Bn:89:VAL:HG13	1.64	0.79
3:m:49:LEU:HD13	3:m:59:SER:HB3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Aw:89:VAL:HG22	3:Ax:89:VAL:HG13	1.63	0.79
3:B0:20:PHE:HB3	3:B0:32:VAL:HG11	1.65	0.79
3:CO:89:VAL:HG12	3:CP:89:VAL:HG13	1.64	0.79
3:8:96:ARG:HH22	3:AD:78:THR:HA	1.46	0.79
3:Q:68:VAL:HG12	3:Q:81:VAL:HG22	1.64	0.79
3:Au:25:ILE:HD11	3:Au:28:ASN:HA	1.63	0.79
3:b:69:GLN:HB3	3:CB:76:ILE:HD11	1.64	0.79
3:I:111:ASP:HB3	3:J:8:LEU:HD12	1.65	0.79
3:AS:3:LEU:HD11	3:AT:130:VAL:HB	1.64	0.79
3:Az:7:VAL:HG12	3:Az:19:THR:HA	1.65	0.79
3:Bg:109:ILE:HG23	3:Bh:113:LEU:HD21	1.65	0.79
3:a:68:VAL:HG12	3:a:81:VAL:HG22	1.65	0.78
3:AU:33:VAL:HG12	3:AU:44:ARG:HA	1.63	0.78
3:By:125:VAL:HG22	3:Bz:106:VAL:HG11	1.65	0.78
3:A9:66:PRO:HA	3:A9:84:THR:HG22	1.65	0.78
3:CA:25:ILE:HG22	3:CA:30:GLY:HA2	1.65	0.78
3:CT:46:THR:HB	3:CT:62:LYS:HB2	1.66	0.78
3:B:33:VAL:HG13	3:B:42:GLU:HG3	1.65	0.78
3:T:44:ARG:HB2	3:T:64:VAL:HB	1.63	0.78
3:AW:22:PRO:HA	3:AW:32:VAL:HA	1.65	0.78
3:CA:47:ILE:HD13	3:CA:61:LEU:HG	1.66	0.78
3:BJ:25:ILE:HD11	3:BJ:28:ASN:HA	1.64	0.78
3:BJ:122:ASP:HB2	3:BJ:128:GLN:HG3	1.66	0.78
3:Q:40:ILE:HG21	3:Q:79:PRO:HG2	1.66	0.78
3:o:89:VAL:HG13	3:p:89:VAL:HG22	1.65	0.78
3:E:119:LEU:HD11	3:Bb:3:LEU:HD12	1.66	0.78
3:A:46:THR:HB	3:A:62:LYS:HB2	1.66	0.78
3:t:29:VAL:HA	3:t:48:SER:HB3	1.65	0.78
3:Ae:108:MET:HE3	3:Af:8:LEU:HD22	1.65	0.78
3:A1:33:VAL:HB	3:A1:42:GLU:HB3	1.64	0.78
3:By:3:LEU:HD22	3:By:25:ILE:HD11	1.65	0.78
3:CK:89:VAL:HG12	3:CL:89:VAL:HG13	1.66	0.78
3:AY:66:PRO:HA	3:AY:84:THR:HG22	1.66	0.78
3:A9:46:THR:HB	3:A9:62:LYS:HB2	1.66	0.78
3:CD:23:ARG:HD2	3:CD:33:VAL:HG21	1.65	0.78
3:As:33:VAL:HG12	3:As:44:ARG:HA	1.66	0.78
3:BE:68:VAL:HG12	3:BE:81:VAL:HG22	1.65	0.78
3:BC:119:LEU:HD11	3:BD:3:LEU:HD12	1.65	0.78
3:c:3:LEU:HD22	3:c:25:ILE:HD11	1.66	0.77
3:G:89:VAL:HG13	3:H:89:VAL:HG22	1.63	0.77
3:BH:129:GLY:HA3	3:CT:24:ASP:HB3	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BR:61:LEU:HB2	3:BR:89:VAL:HB	1.64	0.77
3:By:89:VAL:HG12	3:Bz:89:VAL:HG13	1.66	0.77
3:B5:68:VAL:HG12	3:B5:81:VAL:HG22	1.66	0.77
3:7:33:VAL:HB	3:7:42:GLU:HB3	1.64	0.77
3:O:110:ALA:HB2	3:P:113:LEU:HD11	1.65	0.77
3:Aa:86:TYR:HB2	3:Ab:92:ASP:HB3	1.66	0.77
3:Ac:119:LEU:HD11	3:Ad:3:LEU:HD12	1.66	0.77
3:Ak:118:MET:HE2	3:Al:4:GLN:HE22	1.49	0.77
3:A7:49:LEU:HD13	3:A7:59:SER:HB3	1.64	0.77
3:B8:41:GLY:HA2	3:B8:66:PRO:HG2	1.66	0.77
3:7:23:ARG:HD2	3:7:33:VAL:HG22	1.65	0.77
3:Ai:58:LYS:HG2	3:Ai:92:ASP:HB3	1.67	0.77
3:Bx:3:LEU:HD13	3:Bx:25:ILE:HD11	1.65	0.77
3:Ad:61:LEU:HB2	3:Ad:89:VAL:HB	1.66	0.77
3:Bx:9:LYS:HE3	3:Bx:15:PRO:HB2	1.66	0.77
3:B6:113:LEU:HB3	3:B6:120:VAL:HG11	1.65	0.77
3:AB:61:LEU:HB2	3:AB:89:VAL:HB	1.66	0.77
3:Ai:48:SER:HB2	3:Ai:60:THR:HB	1.67	0.77
3:As:66:PRO:HA	3:As:84:THR:HG22	1.65	0.77
3:Aw:89:VAL:HG13	3:Ax:89:VAL:HG22	1.66	0.77
3:m:68:VAL:HG12	3:m:81:VAL:HG22	1.67	0.77
3:BB:3:LEU:HD22	3:BB:25:ILE:HD11	1.64	0.77
3:B3:68:VAL:HG12	3:B3:81:VAL:HG22	1.65	0.77
3:B6:40:ILE:HG22	3:B6:68:VAL:HG21	1.65	0.77
3:Au:20:PHE:HB3	3:Au:32:VAL:HG21	1.67	0.77
3:Aw:110:ALA:HB2	3:Ax:113:LEU:HD22	1.66	0.77
3:BH:68:VAL:HG22	3:BH:81:VAL:HG22	1.67	0.77
3:CC:50:ARG:HH11	3:CC:58:LYS:HD2	1.49	0.77
3:q:27:ASP:HA	3:BH:26:ARG:HH12	1.50	0.77
3:BM:68:VAL:HG12	3:BM:81:VAL:HG22	1.66	0.77
3:Bb:41:GLY:HA2	3:Bb:66:PRO:HG2	1.67	0.77
3:0:52:THR:HG22	3:0:56:ARG:O	1.85	0.77
3:S:98:THR:HG22	3:Bv:38:VAL:HG22	1.65	0.77
3:r:68:VAL:HG22	3:r:81:VAL:HG22	1.67	0.77
3:Ac:33:VAL:HB	3:Ac:42:GLU:HB3	1.67	0.77
3:Am:31:GLU:HB3	3:Am:46:THR:HA	1.66	0.77
3:A2:40:ILE:HG22	3:A2:68:VAL:HG21	1.67	0.77
3:BL:25:ILE:HG13	3:BL:30:GLY:HA2	1.65	0.77
3:CQ:108:MET:HA	3:CR:8:LEU:HD21	1.67	0.77
3:CR:31:GLU:HB3	3:CR:46:THR:HA	1.67	0.77
3:CS:22:PRO:HA	3:CS:32:VAL:HA	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:8:60:THR:HG22	3:8:90:ASP:HB3	1.67	0.76
3:AT:33:VAL:HG13	3:AT:42:GLU:HG3	1.67	0.76
3:X:3:LEU:HG	3:X:22:PRO:HG3	1.68	0.76
3:Ao:112:ALA:HB2	3:Ap:8:LEU:HD21	1.67	0.76
3:Ax:29:VAL:HG22	3:Ax:48:SER:HB3	1.66	0.76
3:Y:22:PRO:HA	3:Y:32:VAL:HA	1.66	0.76
3:Bc:113:LEU:HD21	3:Bd:109:ILE:HG23	1.67	0.76
3:8:69:GLN:HB3	3:CD:76:ILE:HG21	1.68	0.76
3:J:9:LYS:HE2	3:J:15:PRO:HB2	1.67	0.76
3:Ab:76:ILE:HD11	3:Ae:71:GLN:HB3	1.67	0.76
3:Bc:79:PRO:HD2	3:B4:96:ARG:HH22	1.49	0.76
3:CM:49:LEU:HD11	3:CN:123:THR:HG23	1.68	0.76
3:AB:98:THR:HB	3:AB:101:GLU:HG2	1.68	0.76
3:AW:33:VAL:HG13	3:AW:42:GLU:HG3	1.68	0.76
3:CO:66:PRO:HA	3:CO:84:THR:HG22	1.68	0.76
3:9:76:ILE:HD11	3:CC:71:GLN:HB3	1.67	0.76
3:y:66:PRO:HA	3:y:84:THR:HG22	1.67	0.76
3:By:50:ARG:HD3	3:By:58:LYS:HE2	1.68	0.76
3:e:25:ILE:HG22	3:e:30:GLY:HA2	1.68	0.76
3:Bi:68:VAL:HG12	3:Bi:81:VAL:HG22	1.65	0.76
3:CM:86:TYR:HB2	3:CN:92:ASP:HB3	1.67	0.76
3:E:47:ILE:HD13	3:E:61:LEU:HG	1.68	0.76
3:s:111:ASP:HB3	3:t:8:LEU:HD12	1.65	0.76
3:AQ:29:VAL:HG22	3:AQ:48:SER:HB3	1.67	0.76
3:Ay:66:PRO:HA	3:Ay:84:THR:HG22	1.66	0.76
3:BS:35:SER:HB2	3:BS:42:GLU:HG3	1.67	0.76
3:AC:61:LEU:HB2	3:AC:89:VAL:HB	1.68	0.76
3:Ay:46:THR:HB	3:Ay:62:LYS:HB2	1.66	0.76
3:A0:41:GLY:HA2	3:A0:66:PRO:HG2	1.66	0.76
3:BV:68:VAL:HG22	3:BV:81:VAL:HG22	1.68	0.76
3:CQ:122:ASP:HA	3:CQ:126:ASN:HB2	1.68	0.76
3:q:7:VAL:HG22	3:q:19:THR:HA	1.68	0.76
3:y:47:ILE:HD13	3:y:61:LEU:HG	1.68	0.76
3:Ah:33:VAL:HG22	3:Ah:44:ARG:HG2	1.67	0.76
3:BP:22:PRO:HA	3:BP:32:VAL:HA	1.68	0.76
3:A:89:VAL:HG12	3:B:89:VAL:HG13	1.67	0.75
3:W:125:VAL:HG22	3:X:106:VAL:HG21	1.69	0.75
3:AS:66:PRO:HA	3:AS:84:THR:HG22	1.67	0.75
3:Bl:9:LYS:HE2	3:Bl:15:PRO:HB2	1.68	0.75
3:Al:33:VAL:HG13	3:Al:42:GLU:HG3	1.68	0.75
3:Bd:25:ILE:HD11	3:Bd:28:ASN:HA	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CA:46:THR:HB	3:CA:62:LYS:HB2	1.67	0.75
3:CI:66:PRO:HA	3:CI:84:THR:HG22	1.67	0.75
3:CT:33:VAL:HG22	3:CT:44:ARG:HG2	1.65	0.75
3:Am:40:ILE:HG21	3:Am:79:PRO:HG2	1.68	0.75
3:Ao:66:PRO:HA	3:Ao:84:THR:HG22	1.69	0.75
3:Bd:33:VAL:HG13	3:Bd:42:GLU:HG3	1.67	0.75
3:f:76:ILE:HD11	3:Az:69:GLN:HG3	1.68	0.75
3:A7:66:PRO:HA	3:A7:84:THR:HG22	1.69	0.75
3:Bm:110:ALA:HB2	3:Bn:113:LEU:HD11	1.66	0.75
3:B8:35:SER:HB2	3:B8:42:GLU:HG3	1.68	0.75
3:7:58:LYS:HG2	3:7:92:ASP:HB3	1.68	0.75
3:D:122:ASP:HB3	3:D:128:GLN:HG3	1.68	0.75
3:AU:46:THR:HB	3:AU:62:LYS:HB2	1.69	0.75
3:0:117:LYS:HE2	3:9:8:LEU:HD23	1.68	0.75
3:C:73:VAL:HG22	3:A9:74:ASN:HB3	1.69	0.75
3:Q:89:VAL:HG12	3:R:89:VAL:HG13	1.69	0.75
3:AY:35:SER:HA	3:AY:42:GLU:HG2	1.69	0.75
3:Bx:46:THR:HB	3:Bx:62:LYS:HB2	1.68	0.75
3:An:33:VAL:HG13	3:An:42:GLU:HG3	1.67	0.75
3:At:38:VAL:HG21	3:At:79:PRO:HG3	1.68	0.75
3:Au:47:ILE:HG13	3:Au:61:LEU:HG	1.68	0.75
3:Av:33:VAL:HG22	3:Av:44:ARG:HG2	1.68	0.75
3:CK:124:ILE:HD12	3:CL:106:VAL:HG21	1.68	0.75
3:U:112:ALA:HB2	3:V:8:LEU:HD21	1.69	0.74
3:Aq:38:VAL:HG11	3:Aq:79:PRO:HG3	1.69	0.74
3:Au:33:VAL:HG12	3:Au:44:ARG:HA	1.69	0.74
3:Bu:117:LYS:HD2	3:Bv:6:LEU:HD11	1.69	0.74
3:Aq:89:VAL:HG22	3:Ar:89:VAL:HG13	1.67	0.74
3:B8:9:LYS:HD3	3:B8:15:PRO:HB2	1.69	0.74
3:CB:98:THR:HB	3:CB:101:GLU:HG2	1.69	0.74
3:v:58:LYS:HG2	3:v:92:ASP:HB3	1.69	0.74
3:AT:38:VAL:HG12	3:Bm:98:THR:HA	1.69	0.74
3:Am:46:THR:HB	3:Am:62:LYS:HB2	1.68	0.74
3:S:119:LEU:HD11	3:T:3:LEU:HD12	1.68	0.74
3:q:8:LEU:HD21	3:r:112:ALA:HB2	1.68	0.74
3:Aq:25:ILE:HD11	3:Aq:28:ASN:HA	1.69	0.74
3:Av:47:ILE:HD13	3:Av:61:LEU:HG	1.69	0.74
3:Bm:46:THR:HB	3:Bm:62:LYS:HB2	1.70	0.74
3:B1:89:VAL:HG12	3:B2:89:VAL:HG13	1.68	0.74
3:5:90:ASP:HB2	3:6:88:THR:HB	1.69	0.74
3:n:58:LYS:HG2	3:n:92:ASP:HB3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:25:ILE:HG22	3:L:30:GLY:HA2	1.66	0.74
3:A6:64:VAL:HG12	3:A6:66:PRO:HD3	1.68	0.74
3:B0:32:VAL:HB	3:B0:45:PHE:HB3	1.69	0.74
3:B0:68:VAL:HG22	3:B0:81:VAL:HG22	1.69	0.74
3:A:49:LEU:HD13	3:A:59:SER:HB3	1.69	0.74
3:Ae:58:LYS:HG2	3:Ae:92:ASP:HB3	1.70	0.74
3:B1:33:VAL:HB	3:B1:42:GLU:HB3	1.70	0.74
3:Ah:10:ASP:HB3	3:Ah:16:ASN:HD21	1.50	0.74
3:At:41:GLY:HA2	3:At:66:PRO:HG2	1.69	0.74
3:A3:89:VAL:HG12	3:A4:89:VAL:HG13	1.68	0.74
3:W:89:VAL:HG12	3:X:89:VAL:HG13	1.70	0.74
3:AC:109:ILE:HG23	3:AD:113:LEU:HD21	1.70	0.74
3:BA:46:THR:HB	3:BA:62:LYS:HB2	1.69	0.74
3:BS:89:VAL:HG12	3:CH:89:VAL:HG13	1.68	0.74
3:CA:68:VAL:HG12	3:CA:81:VAL:HG22	1.68	0.74
3:Aa:70:SER:HA	3:Aa:79:PRO:HB3	1.70	0.74
3:Af:68:VAL:HG22	3:Af:81:VAL:HG22	1.69	0.74
3:B:3:LEU:HG	3:B:22:PRO:HG3	1.69	0.74
3:Q:96:ARG:HA	3:BV:40:ILE:HD11	1.70	0.74
3:Az:52:THR:HG21	3:Az:56:ARG:HB2	1.70	0.74
3:BQ:68:VAL:HG12	3:BQ:81:VAL:HG22	1.69	0.74
3:P:33:VAL:HG22	3:P:44:ARG:HA	1.68	0.73
3:S:66:PRO:HA	3:S:84:THR:HG22	1.70	0.73
3:Ar:61:LEU:HB2	3:Ar:89:VAL:HB	1.69	0.73
3:A2:58:LYS:HG2	3:A2:92:ASP:HB3	1.70	0.73
3:CH:9:LYS:HE2	3:CH:15:PRO:HB2	1.68	0.73
3:Ae:46:THR:HB	3:Ae:62:LYS:HB2	1.68	0.73
3:CQ:8:LEU:HD11	3:CR:112:ALA:HA	1.70	0.73
3:5:4:GLN:HG2	3:6:119:LEU:HD12	1.69	0.73
3:L:31:GLU:HB2	3:L:46:THR:HG22	1.70	0.73
3:Aw:32:VAL:HG22	3:Aw:45:PHE:HB3	1.70	0.73
3:T:76:ILE:HD11	3:BV:69:GLN:HG3	1.68	0.73
3:U:89:VAL:HG13	3:V:89:VAL:HG22	1.69	0.73
3:l:32:VAL:HG22	3:l:45:PHE:HB3	1.70	0.73
3:q:6:LEU:HD12	3:r:119:LEU:HD13	1.71	0.73
3:Bb:68:VAL:HG22	3:Bb:81:VAL:HG22	1.70	0.73
3:Bd:64:VAL:HG12	3:Bd:66:PRO:HD3	1.70	0.73
3:AZ:40:ILE:HG22	3:AZ:68:VAL:HG21	1.69	0.73
3:Ad:76:ILE:HD11	3:CR:69:GLN:HG3	1.69	0.73
3:Ai:65:VAL:HG21	3:Aj:108:MET:HE1	1.70	0.73
3:BL:38:VAL:HG21	3:BL:79:PRO:HG3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:7:35:SER:HB2	3:7:42:GLU:HG3	1.71	0.73
3:S:89:VAL:HG12	3:T:89:VAL:HG13	1.71	0.73
3:Bb:52:THR:HG21	3:Bb:56:ARG:HB2	1.70	0.73
3:CQ:33:VAL:HG12	3:CQ:44:ARG:HA	1.71	0.73
3:i:38:VAL:HG22	3:i:40:ILE:HG12	1.69	0.73
3:Am:66:PRO:HA	3:Am:84:THR:HG22	1.71	0.73
3:BC:11:ARG:HG3	3:BD:107:GLY:HA3	1.69	0.73
3:B1:46:THR:HB	3:B1:62:LYS:HB2	1.69	0.73
3:Ai:61:LEU:HD23	3:Ai:89:VAL:HG23	1.71	0.73
3:Ap:73:VAL:HB	3:Ap:76:ILE:HD11	1.70	0.73
3:A5:112:ALA:HB2	3:A6:8:LEU:HD21	1.71	0.73
3:BP:35:SER:HB2	3:BP:42:GLU:HB3	1.70	0.73
3:B0:38:VAL:HG22	3:B0:40:ILE:HG12	1.70	0.73
3:Bc:108:MET:HE3	3:Bd:8:LEU:HD12	1.69	0.73
3:H:25:ILE:HG22	3:H:30:GLY:HA2	1.70	0.73
3:AW:29:VAL:HG22	3:AW:48:SER:HB2	1.71	0.73
3:Am:71:GLN:HB3	3:Ar:76:ILE:HD11	1.69	0.73
3:A2:68:VAL:HG22	3:A2:81:VAL:HG22	1.71	0.73
3:Bl:33:VAL:HG13	3:Bl:42:GLU:HG3	1.70	0.73
3:5:22:PRO:HA	3:5:32:VAL:HA	1.70	0.72
3:n:47:ILE:HD13	3:n:61:LEU:HG	1.71	0.72
3:x:29:VAL:HG22	3:x:48:SER:HB3	1.70	0.72
3:Aa:25:ILE:HD11	3:Aa:28:ASN:HA	1.70	0.72
3:Ad:31:GLU:HA	3:Ad:46:THR:HA	1.70	0.72
3:BB:69:GLN:HG3	3:Bz:76:ILE:HD11	1.69	0.72
3:Bz:113:LEU:HB3	3:Bz:120:VAL:HG11	1.71	0.72
3:A:68:VAL:HG12	3:A:81:VAL:HA	1.70	0.72
3:k:25:ILE:HD11	3:k:28:ASN:HA	1.70	0.72
3:AY:110:ALA:HB2	3:AZ:113:LEU:HD11	1.70	0.72
3:Av:46:THR:HB	3:Av:62:LYS:HB2	1.69	0.72
3:BG:66:PRO:HA	3:BG:84:THR:HG22	1.70	0.72
3:Bm:68:VAL:HG12	3:Bm:81:VAL:HG22	1.71	0.72
3:7:66:PRO:HA	3:7:84:THR:HG22	1.71	0.72
3:a:46:THR:HB	3:a:62:LYS:HB2	1.71	0.72
3:b:22:PRO:HA	3:b:32:VAL:HA	1.71	0.72
3:BL:58:LYS:HG2	3:BL:92:ASP:HB3	1.70	0.72
3:By:38:VAL:HG12	3:By:40:ILE:HG12	1.71	0.72
3:7:119:LEU:HD11	3:8:3:LEU:HD12	1.72	0.72
3:a:3:LEU:HD12	3:b:119:LEU:HD11	1.70	0.72
3:Ag:76:ILE:HD11	3:CO:71:GLN:HB3	1.71	0.72
3:Bl:23:ARG:HD3	3:Bl:33:VAL:HG21	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CM:40:ILE:HD11	3:CM:79:PRO:HG2	1.69	0.72
3:q:40:ILE:HG21	3:q:79:PRO:HG2	1.72	0.72
3:AB:9:LYS:HE2	3:AB:15:PRO:HB2	1.71	0.72
3:Ac:66:PRO:HA	3:Ac:84:THR:HG22	1.71	0.72
3:Ag:52:THR:HG21	3:Ag:58:LYS:HZ3	1.55	0.72
3:Q:25:ILE:HG13	3:Q:30:GLY:HA2	1.69	0.72
3:CA:89:VAL:HG12	3:CB:89:VAL:HG13	1.72	0.72
3:Y:117:LYS:HE2	3:Z:8:LEU:HD13	1.72	0.72
3:Aa:89:VAL:HG22	3:Ab:89:VAL:HG13	1.72	0.72
3:Av:68:VAL:HG22	3:Av:81:VAL:HG22	1.71	0.72
3:CQ:89:VAL:HG12	3:CR:89:VAL:HG13	1.72	0.72
3:Ak:29:VAL:HG22	3:Ak:48:SER:HB3	1.71	0.72
3:BR:38:VAL:HG22	3:BR:40:ILE:HG12	1.71	0.72
3:O:61:LEU:HB2	3:O:89:VAL:HG23	1.70	0.72
3:A4:46:THR:HB	3:A4:62:LYS:HD3	1.70	0.72
3:Bw:29:VAL:HG13	3:Bw:48:SER:HB2	1.72	0.72
3:CA:66:PRO:HA	3:CA:84:THR:HG22	1.72	0.72
3:P:96:ARG:HG3	3:L:40:ILE:HD12	1.71	0.72
3:W:8:LEU:HD11	3:X:112:ALA:HA	1.71	0.72
3:h:61:LEU:HB2	3:h:89:VAL:HB	1.72	0.72
3:Ay:3:LEU:HD12	3:Az:130:VAL:HG21	1.72	0.72
3:BL:40:ILE:HG22	3:BL:68:VAL:HG22	1.72	0.72
3:Bv:68:VAL:HG22	3:Bv:81:VAL:HG22	1.72	0.72
3:CN:72:THR:HA	3:CN:77:VAL:HG22	1.72	0.72
3:BS:9:LYS:HE3	3:BS:17:ASP:HB3	1.72	0.71
3:BS:66:PRO:HA	3:BS:84:THR:HG22	1.70	0.71
3:A3:68:VAL:HG12	3:A3:81:VAL:HG22	1.72	0.71
3:A9:33:VAL:HG12	3:A9:44:ARG:HA	1.72	0.71
3:Bc:32:VAL:HG22	3:Bc:45:PHE:HB3	1.72	0.71
3:j:96:ARG:HG3	3:p:40:ILE:HD12	1.70	0.71
3:y:126:ASN:HB3	3:y:128:GLN:HE22	1.54	0.71
3:An:23:ARG:HD2	3:An:33:VAL:HG21	1.72	0.71
3:A5:32:VAL:HG23	3:A5:45:PHE:HB3	1.71	0.71
3:O:117:LYS:HD2	3:P:6:LEU:HD11	1.71	0.71
3:X:9:LYS:HE2	3:X:15:PRO:HB2	1.72	0.71
3:m:25:ILE:HG22	3:m:30:GLY:HA2	1.71	0.71
3:u:8:LEU:HD11	3:v:112:ALA:HA	1.72	0.71
3:AU:65:VAL:HG21	3:AV:108:MET:HE1	1.72	0.71
3:Ai:66:PRO:HA	3:Ai:84:THR:HG22	1.72	0.71
3:n:25:ILE:HG13	3:n:30:GLY:HA2	1.71	0.71
3:Ao:46:THR:HB	3:Ao:62:LYS:HB2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BG:50:ARG:HH11	3:BG:58:LYS:HD2	1.56	0.71
3:BG:64:VAL:HG12	3:BG:66:PRO:HD3	1.72	0.71
3:Bx:29:VAL:HA	3:Bx:48:SER:HB2	1.71	0.71
3:Bz:22:PRO:HA	3:Bz:32:VAL:HA	1.72	0.71
3:O:38:VAL:HG12	3:O:40:ILE:HG12	1.73	0.71
3:AC:29:VAL:HG22	3:AC:48:SER:HB2	1.72	0.71
3:Ae:20:PHE:HB3	3:Ae:32:VAL:HG22	1.73	0.71
3:BE:89:VAL:HG12	3:BF:89:VAL:HG13	1.72	0.71
3:u:68:VAL:HG12	3:u:81:VAL:HG22	1.71	0.71
3:N:34:GLU:HB3	3:N:43:SER:HB2	1.73	0.71
3:As:68:VAL:HG12	3:As:81:VAL:HG22	1.73	0.71
3:Au:49:LEU:HD13	3:Au:59:SER:HB3	1.71	0.71
3:A0:73:VAL:HG11	3:Bv:71:GLN:HE21	1.54	0.71
3:BF:46:THR:HB	3:BF:62:LYS:HD2	1.71	0.71
3:BI:76:ILE:HD11	3:CS:71:GLN:HB3	1.73	0.71
3:BL:41:GLY:HA2	3:BL:66:PRO:HG2	1.73	0.71
3:Bz:7:VAL:HG12	3:Bz:19:THR:HA	1.72	0.71
3:CM:89:VAL:HG12	3:CN:89:VAL:HG13	1.72	0.71
3:CN:41:GLY:HA2	3:CN:66:PRO:HG2	1.70	0.71
3:AD:29:VAL:HG22	3:AD:48:SER:HB3	1.73	0.71
3:Bv:38:VAL:HG11	3:Bv:79:PRO:HG3	1.73	0.71
3:Bw:89:VAL:HG12	3:Bx:89:VAL:HG13	1.72	0.71
3:B6:31:GLU:HB3	3:B6:46:THR:HA	1.72	0.71
3:0:3:LEU:HD12	3:9:119:LEU:HD11	1.72	0.71
3:AS:35:SER:HA	3:AS:42:GLU:HG2	1.73	0.71
3:A2:41:GLY:HA2	3:A2:66:PRO:HG2	1.73	0.71
3:CK:25:ILE:HG13	3:CK:30:GLY:HA2	1.73	0.71
3:1:29:VAL:HG22	3:1:48:SER:HB3	1.72	0.71
3:Aa:23:ARG:HE	3:Aa:33:VAL:HG21	1.56	0.71
3:Au:89:VAL:HG12	3:Av:89:VAL:HG13	1.73	0.71
3:Az:61:LEU:HD23	3:Az:89:VAL:HB	1.73	0.71
3:BH:22:PRO:HA	3:BH:32:VAL:HA	1.73	0.71
3:a:33:VAL:HG12	3:a:44:ARG:HA	1.72	0.70
3:i:126:ASN:HB3	3:i:128:GLN:HE22	1.56	0.70
3:AT:69:GLN:HE21	3:AT:80:VAL:HB	1.56	0.70
3:Ab:3:LEU:HD22	3:Ab:25:ILE:HD11	1.71	0.70
3:A3:98:THR:HA	3:B6:38:VAL:HG12	1.72	0.70
3:Bj:73:VAL:HG12	3:Bj:74:ASN:HD22	1.55	0.70
3:Bz:33:VAL:HG22	3:Bz:44:ARG:HA	1.72	0.70
3:B8:23:ARG:HB2	3:B8:33:VAL:HG23	1.73	0.70
3:R:68:VAL:HG22	3:R:81:VAL:HG22	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:32:VAL:HG22	3:Z:45:PHE:HB3	1.73	0.70
3:A3:66:PRO:HA	3:A3:84:THR:HG22	1.72	0.70
3:Bu:66:PRO:HA	3:Bu:84:THR:HG22	1.72	0.70
3:Bu:87:VAL:HG21	3:Bv:109:ILE:HD12	1.73	0.70
3:1:89:VAL:HG22	3:2:89:VAL:HG13	1.73	0.70
3:AV:22:PRO:HA	3:AV:32:VAL:HA	1.73	0.70
3:As:35:SER:HA	3:As:42:GLU:HG2	1.73	0.70
3:BK:35:SER:HA	3:BK:42:GLU:HG2	1.72	0.70
3:By:66:PRO:HB3	3:By:84:THR:HG22	1.72	0.70
3:CI:52:THR:HB	3:CI:56:ARG:H	1.56	0.70
3:CN:68:VAL:HG22	3:CN:81:VAL:HG22	1.71	0.70
3:0:89:VAL:HG13	3:9:89:VAL:HG22	1.73	0.70
3:9:38:VAL:HG12	3:9:40:ILE:HG12	1.73	0.70
3:Q:66:PRO:HA	3:Q:84:THR:HG22	1.73	0.70
3:y:8:LEU:HD11	3:z:112:ALA:HA	1.73	0.70
3:y:46:THR:HB	3:y:62:LYS:HB2	1.73	0.70
3:Aa:11:ARG:HG3	3:Ab:107:GLY:HA3	1.73	0.70
3:Ae:89:VAL:HG12	3:Af:89:VAL:HG13	1.72	0.70
3:A0:9:LYS:HE2	3:A0:15:PRO:HB2	1.72	0.70
3:CM:61:LEU:HB2	3:CM:89:VAL:HG22	1.72	0.70
3:3:20:PHE:HA	3:3:34:GLU:HB2	1.73	0.70
3:5:38:VAL:HG12	3:5:40:ILE:HG12	1.72	0.70
3:Aw:52:THR:HG21	3:Aw:58:LYS:HE2	1.73	0.70
3:Az:46:THR:HB	3:Az:62:LYS:HB2	1.72	0.70
3:BG:119:LEU:HD11	3:BH:3:LEU:HD12	1.72	0.70
3:5:92:ASP:HB3	3:6:86:TYR:HB2	1.74	0.70
3:j:6:LEU:HB3	3:j:20:PHE:HB2	1.74	0.70
3:As:71:GLN:HB3	3:Ax:76:ILE:HD11	1.72	0.70
3:BH:113:LEU:HB3	3:BH:120:VAL:HG21	1.73	0.70
3:Bu:38:VAL:HG12	3:Bu:40:ILE:HG12	1.73	0.70
3:Q:96:ARG:HG3	3:BV:40:ILE:HD11	1.73	0.70
3:Az:41:GLY:HA2	3:Az:66:PRO:HG2	1.74	0.70
3:0:35:SER:HB2	3:0:42:GLU:HB3	1.74	0.70
3:0:52:THR:CG2	3:0:56:ARG:O	2.39	0.70
3:C:128:GLN:HG3	3:A9:23:ARG:HA	1.74	0.70
3:r:72:THR:HB	3:r:77:VAL:HG22	1.73	0.70
3:I:49:LEU:HD13	3:I:59:SER:HB3	1.72	0.70
3:AT:76:ILE:HD11	3:Bn:69:GLN:HB3	1.72	0.70
3:Ax:32:VAL:HG22	3:Ax:45:PHE:HB3	1.74	0.70
3:BV:29:VAL:HG13	3:BV:48:SER:HB3	1.74	0.70
3:B8:34:GLU:HB3	3:B8:43:SER:HB2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CK:33:VAL:HG12	3:CK:44:ARG:HA	1.73	0.70
3:N:38:VAL:HG12	3:A7:98:THR:HA	1.73	0.70
3:Al:25:ILE:HG13	3:Al:30:GLY:HA2	1.72	0.70
3:B:6:LEU:HB3	3:B:20:PHE:HB2	1.74	0.70
3:i:71:GLN:HB3	3:p:76:ILE:HD11	1.73	0.70
3:AT:61:LEU:HB2	3:AT:89:VAL:HB	1.74	0.70
3:AW:11:ARG:HH12	3:AW:114:LYS:HA	1.56	0.70
3:BH:113:LEU:HA	3:BH:120:VAL:HG11	1.74	0.70
3:BY:29:VAL:HG13	3:BY:48:SER:HB3	1.73	0.70
3:B2:40:ILE:HG22	3:B2:68:VAL:HG21	1.74	0.70
3:B9:96:ARG:HG2	3:B0:83:ARG:HH21	1.56	0.70
3:8:40:ILE:HG22	3:8:68:VAL:HG21	1.74	0.69
3:AU:87:VAL:HG21	3:AV:109:ILE:HD12	1.72	0.69
3:Aq:8:LEU:HD21	3:Ar:108:MET:HA	1.72	0.69
3:BE:46:THR:HB	3:BE:62:LYS:HB2	1.73	0.69
3:AU:39:PRO:HG2	3:AX:127:LEU:HD12	1.75	0.69
3:Bj:40:ILE:HG22	3:Bj:68:VAL:HG21	1.74	0.69
3:Bw:108:MET:HG3	3:Bx:63:LEU:HD21	1.72	0.69
3:B3:38:VAL:HG12	3:B3:40:ILE:HG12	1.74	0.69
3:E:89:VAL:HG12	3:Bb:89:VAL:HG13	1.73	0.69
3:K:29:VAL:HG22	3:K:48:SER:HB2	1.74	0.69
3:AW:32:VAL:HG22	3:AW:45:PHE:HB3	1.73	0.69
3:CH:113:LEU:HB3	3:CH:120:VAL:HG11	1.74	0.69
3:v:38:VAL:HG11	3:v:79:PRO:HG3	1.74	0.69
3:w:32:VAL:HG22	3:w:45:PHE:HB3	1.73	0.69
3:BC:92:ASP:HB3	3:BD:86:TYR:HB2	1.75	0.69
3:BE:123:THR:HG23	3:BF:49:LEU:HD22	1.73	0.69
3:BY:89:VAL:HG13	3:BZ:89:VAL:HG22	1.73	0.69
3:T:9:LYS:HD3	3:T:15:PRO:HB2	1.73	0.69
3:H:31:GLU:HB3	3:H:46:THR:HG22	1.73	0.69
3:Ab:32:VAL:HG22	3:Ab:45:PHE:HB3	1.74	0.69
3:Au:38:VAL:HG12	3:Au:40:ILE:HG12	1.74	0.69
3:A5:33:VAL:HG22	3:A5:44:ARG:HA	1.74	0.69
3:A7:130:VAL:HA	3:A8:1:ALA:HB3	1.72	0.69
3:BK:112:ALA:HB2	3:BL:8:LEU:HD21	1.72	0.69
3:BL:32:VAL:HB	3:BL:45:PHE:HB3	1.72	0.69
3:BO:44:ARG:HB2	3:BO:64:VAL:HB	1.75	0.69
3:7:89:VAL:HG12	3:8:89:VAL:HG13	1.73	0.69
3:B:22:PRO:HA	3:B:32:VAL:HA	1.75	0.69
3:m:49:LEU:HD21	3:n:127:LEU:HD12	1.75	0.69
3:z:40:ILE:HG22	3:z:68:VAL:HG21	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bi:35:SER:HA	3:Bi:42:GLU:HG2	1.73	0.69
3:CT:47:ILE:HD13	3:CT:61:LEU:HG	1.74	0.69
3:U:92:ASP:HB3	3:V:86:TYR:HB2	1.73	0.69
3:s:112:ALA:HB2	3:t:8:LEU:HD11	1.73	0.69
3:Ak:119:LEU:HD13	3:Al:3:LEU:HA	1.73	0.69
3:Ao:89:VAL:HG12	3:Ap:89:VAL:HA	1.73	0.69
3:Ay:89:VAL:HG12	3:Az:89:VAL:HG13	1.74	0.69
3:BG:25:ILE:HD11	3:BG:28:ASN:HA	1.75	0.69
3:BV:33:VAL:HG22	3:BV:44:ARG:HG2	1.73	0.69
3:Y:130:VAL:HG12	3:Z:25:ILE:HD13	1.74	0.69
3:e:98:THR:HG23	3:f:83:ARG:HH12	1.56	0.69
3:n:40:ILE:HG22	3:n:68:VAL:HG22	1.73	0.69
3:K:40:ILE:HD12	3:BV:96:ARG:HG2	1.73	0.69
3:AA:47:ILE:HD13	3:AA:61:LEU:HG	1.75	0.69
3:AO:57:TYR:HD2	3:AP:127:LEU:HD13	1.57	0.69
3:Aa:22:PRO:HA	3:Aa:32:VAL:HA	1.75	0.69
3:A9:119:LEU:HD11	3:A0:3:LEU:HD12	1.72	0.69
3:A0:68:VAL:HG22	3:A0:81:VAL:HG22	1.75	0.69
3:BM:50:ARG:HD3	3:BM:58:LYS:HD2	1.74	0.69
3:BS:68:VAL:HG12	3:BS:81:VAL:HG22	1.75	0.69
3:BS:124:ILE:HD13	3:CH:106:VAL:HG13	1.75	0.69
3:CK:50:ARG:HD3	3:CK:58:LYS:HE3	1.73	0.69
3:CO:33:VAL:HG12	3:CO:44:ARG:HA	1.74	0.69
3:1:76:ILE:HD11	3:Ay:71:GLN:HB3	1.75	0.69
3:p:32:VAL:HG22	3:p:45:PHE:HB3	1.73	0.69
3:u:50:ARG:HH11	3:u:58:LYS:HD2	1.58	0.69
3:z:7:VAL:HG12	3:z:19:THR:HA	1.75	0.69
3:M:29:VAL:HA	3:M:48:SER:HB3	1.75	0.69
3:AY:38:VAL:HG12	3:AY:40:ILE:HG12	1.75	0.69
3:BI:89:VAL:HG13	3:BJ:89:VAL:HG22	1.73	0.69
3:Bz:25:ILE:HG13	3:Bz:30:GLY:HA2	1.75	0.69
3:0:89:VAL:HG22	3:9:89:VAL:HG13	1.73	0.69
3:S:68:VAL:HG12	3:S:81:VAL:HG22	1.73	0.69
3:Z:25:ILE:HG12	3:Z:30:GLY:HA2	1.73	0.69
3:AR:40:ILE:HG23	3:AR:68:VAL:HG21	1.75	0.69
3:Av:122:ASP:HA	3:Av:126:ASN:HB2	1.74	0.69
3:BS:32:VAL:HG12	3:BS:45:PHE:HB3	1.75	0.69
3:B5:23:ARG:HD3	3:B5:33:VAL:HG22	1.75	0.69
3:B5:25:ILE:HG12	3:B5:30:GLY:HA2	1.74	0.69
3:e:118:MET:SD	3:f:4:GLN:NE2	2.67	0.68
3:m:66:PRO:HA	3:m:84:THR:HG22	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AY:46:THR:HB	3:AY:62:LYS:HB3	1.76	0.68
3:S:38:VAL:HG12	3:S:40:ILE:HG12	1.73	0.68
3:e:66:PRO:HA	3:e:84:THR:HG22	1.73	0.68
3:f:38:VAL:HG12	3:Ay:98:THR:HA	1.75	0.68
3:AS:8:LEU:HD11	3:AT:112:ALA:HA	1.73	0.68
3:Ap:46:THR:HB	3:Ap:62:LYS:HD2	1.75	0.68
3:CC:46:THR:HB	3:CC:62:LYS:HB2	1.74	0.68
3:CO:68:VAL:HG12	3:CO:81:VAL:HG22	1.73	0.68
3:AY:89:VAL:HG12	3:AZ:89:VAL:HG13	1.75	0.68
3:BK:126:ASN:HB3	3:BK:128:GLN:HE22	1.58	0.68
3:CC:6:LEU:HB3	3:CC:20:PHE:HB2	1.75	0.68
3:O:89:VAL:HG12	3:P:89:VAL:HG13	1.76	0.68
3:W:117:LYS:HD3	3:X:6:LEU:HD11	1.75	0.68
3:q:66:PRO:HA	3:q:84:THR:HG22	1.74	0.68
3:AT:23:ARG:HD2	3:AT:33:VAL:HG21	1.75	0.68
3:BE:33:VAL:HG12	3:BE:44:ARG:HA	1.74	0.68
3:BV:89:VAL:HG13	3:CI:89:VAL:HG12	1.74	0.68
3:Bl:122:ASP:HA	3:Bl:126:ASN:HB2	1.75	0.68
3:B2:68:VAL:HG22	3:B2:81:VAL:HA	1.75	0.68
3:M:66:PRO:HA	3:M:84:THR:HG22	1.75	0.68
3:N:58:LYS:HG2	3:N:92:ASP:HB3	1.76	0.68
3:BC:89:VAL:HG22	3:BD:89:VAL:HG13	1.74	0.68
3:9:32:VAL:HG22	3:9:45:PHE:HB3	1.74	0.68
3:o:3:LEU:HD12	3:p:119:LEU:HD11	1.74	0.68
3:AB:68:VAL:HG22	3:AB:81:VAL:HG22	1.75	0.68
3:Ag:22:PRO:HA	3:Ag:32:VAL:HA	1.73	0.68
3:BC:89:VAL:HG13	3:BD:89:VAL:HG22	1.74	0.68
3:h:25:ILE:HD11	3:h:28:ASN:HA	1.76	0.68
3:AS:38:VAL:HG12	3:AS:40:ILE:HG12	1.75	0.68
3:A1:33:VAL:HG12	3:A1:44:ARG:HA	1.74	0.68
3:BL:46:THR:HB	3:BL:62:LYS:HB3	1.76	0.68
3:CK:127:LEU:HD21	3:CL:93:TYR:HD2	1.58	0.68
3:R:41:GLY:HA2	3:R:66:PRO:HG2	1.75	0.68
3:l:11:ARG:HH22	3:l:114:LYS:HA	1.59	0.68
3:z:3:LEU:HG	3:z:22:PRO:HB3	1.76	0.68
3:AV:113:LEU:HA	3:AV:120:VAL:HG11	1.75	0.68
3:As:44:ARG:HG2	3:As:64:VAL:HB	1.76	0.68
3:BE:108:MET:HE3	3:BF:8:LEU:HD12	1.74	0.68
3:Bd:68:VAL:HG12	3:Bd:79:PRO:HB2	1.76	0.68
3:B8:61:LEU:HB2	3:B8:89:VAL:HB	1.76	0.68
3:u:89:VAL:HG12	3:v:89:VAL:HG13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:89:VAL:HG12	3:N:89:VAL:HG13	1.75	0.68
3:AV:38:VAL:HG12	3:AV:40:ILE:HG12	1.74	0.68
3:As:46:THR:HB	3:As:62:LYS:HB2	1.76	0.68
3:At:20:PHE:HB3	3:At:32:VAL:HG11	1.76	0.68
3:A0:52:THR:HG21	3:A0:56:ARG:HB2	1.75	0.68
3:7:112:ALA:HB2	3:8:8:LEU:HD21	1.75	0.68
3:P:20:PHE:HA	3:P:34:GLU:HG2	1.76	0.68
3:A8:38:VAL:HG11	3:A8:79:PRO:HG3	1.74	0.68
3:B3:8:LEU:HD11	3:B4:112:ALA:HA	1.76	0.68
3:Af:23:ARG:HD3	3:Af:33:VAL:HG21	1.75	0.67
3:A1:68:VAL:HG12	3:A1:81:VAL:HG22	1.75	0.67
3:S:33:VAL:HB	3:S:42:GLU:HB3	1.75	0.67
3:w:11:ARG:HH22	3:w:114:LYS:HA	1.59	0.67
3:A6:5:ASN:HD21	3:A6:19:THR:HG23	1.59	0.67
3:BY:105:PHE:HA	3:BY:108:MET:HE2	1.75	0.67
3:Bk:25:ILE:HG12	3:Bk:30:GLY:HA2	1.74	0.67
3:CH:40:ILE:HG22	3:CH:68:VAL:HG21	1.74	0.67
3:CR:41:GLY:HA2	3:CR:66:PRO:HG2	1.77	0.67
3:CR:61:LEU:HB2	3:CR:89:VAL:HB	1.76	0.67
3:m:20:PHE:HA	3:m:34:GLU:HB2	1.77	0.67
3:AO:119:LEU:HD11	3:AP:3:LEU:HD12	1.74	0.67
3:Aj:98:THR:HB	3:Aj:101:GLU:HG2	1.76	0.67
3:Bx:68:VAL:HG22	3:Bx:81:VAL:HG22	1.76	0.67
3:CP:22:PRO:HA	3:CP:32:VAL:HA	1.76	0.67
3:CQ:32:VAL:HG13	3:CQ:45:PHE:HB3	1.76	0.67
3:S:124:ILE:HD13	3:T:106:VAL:HG13	1.76	0.67
3:t:110:ALA:HA	3:t:113:LEU:HD23	1.76	0.67
3:Af:7:VAL:HG12	3:Af:19:THR:HA	1.77	0.67
3:A3:49:LEU:HD11	3:A4:123:THR:HG23	1.76	0.67
3:BI:89:VAL:HG22	3:BJ:89:VAL:HG13	1.75	0.67
3:n:122:ASP:HA	3:n:126:ASN:HB2	1.76	0.67
3:AA:119:LEU:HD11	3:AB:3:LEU:HD12	1.76	0.67
3:Ae:33:VAL:HB	3:Ae:42:GLU:HB3	1.77	0.67
3:BK:66:PRO:HA	3:BK:84:THR:HG22	1.76	0.67
3:Bi:44:ARG:HG2	3:Bi:64:VAL:HB	1.76	0.67
3:B1:8:LEU:HD11	3:B2:112:ALA:HA	1.77	0.67
3:B8:20:PHE:HB3	3:B8:32:VAL:HG11	1.76	0.67
3:CP:122:ASP:HA	3:CP:126:ASN:HB2	1.76	0.67
3:CP:122:ASP:OD1	3:CP:126:ASN:ND2	2.28	0.67
3:Al:44:ARG:HG2	3:Al:64:VAL:HB	1.76	0.67
3:Au:49:LEU:HD22	3:Av:123:THR:HG23	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A7:32:VAL:HG13	3:A7:45:PHE:HB3	1.75	0.67
3:BJ:22:PRO:HA	3:BJ:32:VAL:HG12	1.76	0.67
3:Al:31:GLU:HB2	3:Al:46:THR:HG22	1.77	0.67
3:Bg:89:VAL:HG13	3:Bh:89:VAL:HG22	1.76	0.67
3:Bl:52:THR:HG21	3:Bl:56:ARG:HB2	1.75	0.67
3:Bl:68:VAL:HG22	3:Bl:81:VAL:HG22	1.76	0.67
3:B7:33:VAL:HB	3:B7:42:GLU:HB3	1.75	0.67
3:q:49:LEU:HD12	3:r:123:THR:HG23	1.76	0.67
3:AV:98:THR:HB	3:AV:101:GLU:HG2	1.76	0.67
3:Au:118:MET:SD	3:Av:4:GLN:NE2	2.68	0.67
3:A3:32:VAL:HG13	3:A3:45:PHE:HB3	1.77	0.67
3:A7:38:VAL:HG12	3:A7:40:ILE:HG12	1.76	0.67
3:q:96:ARG:HG2	3:BH:40:ILE:HG13	1.74	0.67
3:Ae:33:VAL:HG12	3:Ae:44:ARG:HA	1.76	0.67
3:Ar:29:VAL:HG22	3:Ar:48:SER:HB3	1.75	0.67
3:Bb:45:PHE:HD1	3:Bb:63:LEU:HD13	1.59	0.67
3:Bi:38:VAL:HG12	3:Bi:40:ILE:HG12	1.75	0.67
3:O:96:ARG:NH2	3:A4:77:VAL:O	2.28	0.67
3:Y:89:VAL:HG13	3:Z:89:VAL:HG22	1.77	0.67
3:AR:22:PRO:HA	3:AR:32:VAL:HA	1.76	0.67
3:Ae:38:VAL:HG12	3:Ae:40:ILE:HG12	1.76	0.67
3:Ae:76:ILE:HD11	3:Ah:71:GLN:HB3	1.76	0.67
3:BM:4:GLN:NE2	3:BN:118:MET:SD	2.68	0.67
3:BR:6:LEU:HB3	3:BR:20:PHE:HB2	1.77	0.67
3:Bk:38:VAL:HG12	3:Bk:40:ILE:HG12	1.76	0.67
3:CR:61:LEU:N	3:CR:89:VAL:O	2.27	0.67
3:e:38:VAL:HG12	3:e:40:ILE:HG12	1.76	0.66
3:AY:61:LEU:HB2	3:AY:89:VAL:HG22	1.77	0.66
3:Bv:41:GLY:HA2	3:Bv:66:PRO:HG2	1.76	0.66
3:Bw:8:LEU:HD11	3:Bx:112:ALA:HA	1.77	0.66
3:CQ:66:PRO:HA	3:CQ:84:THR:HG22	1.77	0.66
3:Z:35:SER:HB2	3:Z:42:GLU:HB3	1.76	0.66
3:q:89:VAL:HG12	3:r:89:VAL:HG13	1.75	0.66
3:s:113:LEU:HD23	3:t:110:ALA:HB2	1.75	0.66
3:u:33:VAL:HG12	3:u:44:ARG:HG2	1.78	0.66
3:AS:126:ASN:HB3	3:AS:128:GLN:HE22	1.59	0.66
3:A9:118:MET:SD	3:A0:4:GLN:NE2	2.69	0.66
3:BL:38:VAL:HG22	3:BL:40:ILE:HG12	1.77	0.66
3:BP:25:ILE:HD11	3:BP:28:ASN:HA	1.75	0.66
3:Bb:122:ASP:HA	3:Bb:126:ASN:HB2	1.77	0.66
3:CO:38:VAL:HG12	3:CO:40:ILE:HG12	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:g:32:VAL:HG22	3:g:45:PHE:HB3	1.76	0.66
3:i:118:MET:SD	3:j:4:GLN:NE2	2.68	0.66
3:AW:89:VAL:HG13	3:AX:89:VAL:HG22	1.76	0.66
3:Aj:122:ASP:HA	3:Aj:126:ASN:HB2	1.77	0.66
3:BQ:89:VAL:HG12	3:BR:89:VAL:HG13	1.77	0.66
3:AU:89:VAL:HG12	3:AV:89:VAL:HG13	1.77	0.66
3:Aq:20:PHE:HB3	3:Aq:32:VAL:HG21	1.78	0.66
3:Ay:4:GLN:HE21	3:Az:119:LEU:HB2	1.60	0.66
3:A5:50:ARG:HB3	3:A5:58:LYS:HB2	1.78	0.66
3:BV:6:LEU:HD11	3:CI:117:LYS:HD2	1.77	0.66
3:CA:91:PHE:HA	3:CB:87:VAL:HG12	1.77	0.66
3:q:118:MET:SD	3:r:4:GLN:NE2	2.69	0.66
3:Ag:130:VAL:HG11	3:Ah:30:GLY:HA2	1.77	0.66
3:Am:113:LEU:HD12	3:Am:124:ILE:HD13	1.76	0.66
3:A6:68:VAL:HG22	3:A6:81:VAL:HG22	1.75	0.66
3:A7:8:LEU:HD11	3:A8:112:ALA:HA	1.78	0.66
3:BG:118:MET:SD	3:BH:4:GLN:NE2	2.68	0.66
3:BR:58:LYS:HG2	3:BR:92:ASP:HB3	1.78	0.66
3:Bv:38:VAL:HG12	3:Bv:40:ILE:HG22	1.77	0.66
3:CC:38:VAL:HG12	3:CC:40:ILE:HG12	1.78	0.66
3:D:29:VAL:HG22	3:D:48:SER:HB3	1.77	0.66
3:T:73:VAL:HG11	3:BV:69:GLN:HE21	1.60	0.66
3:A2:96:ARG:HH22	3:A6:80:VAL:HG12	1.60	0.66
3:A5:49:LEU:HD22	3:A6:129:GLY:HA2	1.78	0.66
3:B0:44:ARG:HG2	3:B0:64:VAL:HB	1.78	0.66
3:Y:123:THR:HG23	3:Z:49:LEU:HD12	1.76	0.66
3:q:8:LEU:HD22	3:r:108:MET:HE3	1.76	0.66
3:AU:3:LEU:HD22	3:AU:22:PRO:HB3	1.78	0.66
3:BG:44:ARG:H	3:BG:64:VAL:HB	1.61	0.66
3:BH:61:LEU:HB2	3:BH:89:VAL:HB	1.78	0.66
3:BQ:114:LYS:HB2	3:BQ:117:LYS:HG2	1.78	0.66
3:CS:33:VAL:HG12	3:CS:44:ARG:HG2	1.77	0.66
3:i:66:PRO:HA	3:i:84:THR:HG22	1.78	0.66
3:x:35:SER:HB3	3:x:42:GLU:HB3	1.78	0.66
3:y:89:VAL:HG12	3:z:89:VAL:HG22	1.78	0.66
3:G:47:ILE:HD13	3:G:61:LEU:HG	1.75	0.66
3:BV:38:VAL:HG11	3:BV:79:PRO:HG3	1.77	0.66
3:Bc:22:PRO:HA	3:Bc:32:VAL:HA	1.77	0.66
3:B1:66:PRO:HA	3:B1:84:THR:HG22	1.78	0.66
3:CO:49:LEU:HD11	3:CP:123:THR:HG23	1.75	0.66
3:8:69:GLN:HA	3:CD:76:ILE:HG13	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:j:69:GLN:HB3	3:Av:76:ILE:HG21	1.78	0.66
3:q:110:ALA:HB2	3:r:113:LEU:HD11	1.78	0.66
3:t:10:ASP:HB2	3:t:16:ASN:HB2	1.78	0.66
3:Am:10:ASP:HB2	3:Am:15:PRO:HA	1.77	0.66
3:BP:29:VAL:HG22	3:BP:48:SER:HB3	1.78	0.66
3:Bv:70:SER:HB2	3:Bv:77:VAL:HG11	1.78	0.66
3:B6:32:VAL:HG12	3:B6:45:PHE:HB3	1.77	0.66
3:0:92:ASP:HB3	3:9:86:TYR:HB2	1.76	0.66
3:1:9:LYS:N	3:2:111:ASP:OD2	2.29	0.66
3:e:98:THR:HA	3:Bj:38:VAL:HG12	1.78	0.66
3:J:68:VAL:HG22	3:J:81:VAL:HG22	1.78	0.66
3:Bd:22:PRO:HA	3:Bd:32:VAL:HA	1.77	0.66
3:3:89:VAL:HG12	3:4:89:VAL:HG13	1.77	0.65
3:7:33:VAL:HG12	3:7:44:ARG:HA	1.77	0.65
3:Q:20:PHE:HB3	3:Q:32:VAL:HG22	1.78	0.65
3:Y:9:LYS:N	3:Z:111:ASP:OD2	2.29	0.65
3:c:25:ILE:HG12	3:c:30:GLY:HA2	1.76	0.65
3:y:117:LYS:NZ	3:z:7:VAL:O	2.29	0.65
3:Bb:38:VAL:HG11	3:Bb:79:PRO:HG3	1.77	0.65
3:CA:20:PHE:HB3	3:CA:32:VAL:HG22	1.79	0.65
3:o:49:LEU:HD22	3:p:123:THR:HG23	1.77	0.65
3:M:25:ILE:HG13	3:M:30:GLY:HA2	1.77	0.65
3:AB:23:ARG:O	3:CB:128:GLN:NE2	2.29	0.65
3:AO:38:VAL:HG12	3:AO:40:ILE:HG12	1.77	0.65
3:BA:35:SER:HB3	3:BA:42:GLU:HG2	1.77	0.65
3:BP:33:VAL:HG13	3:BP:42:GLU:HG3	1.78	0.65
3:BZ:64:VAL:HG12	3:BZ:66:PRO:HD3	1.78	0.65
3:Bg:111:ASP:HB3	3:Bh:8:LEU:HD12	1.77	0.65
3:U:32:VAL:HG22	3:U:45:PHE:HB3	1.77	0.65
3:A1:20:PHE:HB3	3:A1:32:VAL:HG22	1.77	0.65
3:BC:11:ARG:NH2	3:BC:113:LEU:O	2.29	0.65
3:CD:108:MET:HE2	3:CD:108:MET:HA	1.78	0.65
3:CM:8:LEU:HD21	3:CN:111:ASP:HB3	1.79	0.65
3:CQ:61:LEU:HB2	3:CQ:89:VAL:HG22	1.78	0.65
3:7:38:VAL:HG12	3:7:40:ILE:HG12	1.79	0.65
3:8:38:VAL:HG22	3:AS:98:THR:HG22	1.77	0.65
3:W:3:LEU:HD12	3:X:130:VAL:HG21	1.78	0.65
3:BN:99:THR:HA	3:BN:102:ARG:HE	1.62	0.65
3:C:33:VAL:HG22	3:C:44:ARG:HG2	1.78	0.65
3:k:113:LEU:HD23	3:l:110:ALA:HB2	1.79	0.65
3:H:44:ARG:HG2	3:H:64:VAL:HB	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:78:THR:HG22	3:AD:80:VAL:HG13	1.78	0.65
3:Ak:57:TYR:HE2	3:Ak:95:ALA:HA	1.62	0.65
3:A0:23:ARG:HD3	3:A0:33:VAL:HG21	1.78	0.65
3:BI:47:ILE:HD13	3:BI:61:LEU:HG	1.79	0.65
3:BI:130:VAL:HG11	3:BJ:30:GLY:HA3	1.79	0.65
3:CS:20:PHE:HE2	3:CS:43:SER:HB2	1.62	0.65
3:V:40:ILE:HD12	3:b:96:ARG:HG2	1.77	0.65
3:x:5:ASN:HD21	3:x:19:THR:HG23	1.62	0.65
3:Ab:11:ARG:HH22	3:Ab:114:LYS:HA	1.62	0.65
3:Au:12:GLU:OE2	3:Au:16:ASN:ND2	2.30	0.65
3:A9:4:GLN:NE2	3:A0:118:MET:SD	2.70	0.65
3:BL:28:ASN:ND2	3:BP:25:ILE:O	2.29	0.65
3:BM:8:LEU:HD11	3:BN:112:ALA:HA	1.77	0.65
3:Bb:122:ASP:OD1	3:Bb:126:ASN:ND2	2.30	0.65
3:B1:20:PHE:HB3	3:B1:32:VAL:HG22	1.77	0.65
3:B8:38:VAL:HG22	3:B8:40:ILE:HG12	1.79	0.65
3:CC:4:GLN:HE21	3:CD:119:LEU:HB2	1.60	0.65
3:CK:124:ILE:HG13	3:CK:125:VAL:HG23	1.79	0.65
3:CM:33:VAL:HG12	3:CM:44:ARG:HA	1.77	0.65
3:W:118:MET:SD	3:X:4:GLN:NE2	2.70	0.65
3:Z:7:VAL:HG22	3:Z:19:THR:HA	1.77	0.65
3:n:69:GLN:HG3	3:BB:76:ILE:HD11	1.79	0.65
3:w:79:PRO:O	3:AZ:96:ARG:NH1	2.29	0.65
3:An:38:VAL:HG11	3:An:79:PRO:HG3	1.79	0.65
3:BQ:38:VAL:HG12	3:BQ:40:ILE:HG12	1.78	0.65
3:Bd:68:VAL:HG22	3:Bd:81:VAL:HG22	1.77	0.65
3:V:76:ILE:HD11	3:a:71:GLN:HB3	1.77	0.65
3:q:125:VAL:HG22	3:r:106:VAL:HG21	1.78	0.65
3:BK:6:LEU:HB3	3:BK:20:PHE:HB2	1.79	0.65
3:BS:111:ASP:HB3	3:CH:8:LEU:HD12	1.79	0.65
3:Bx:52:THR:HG21	3:Bx:56:ARG:HB2	1.79	0.65
3:CH:46:THR:HB	3:CH:62:LYS:HB2	1.78	0.65
3:e:89:VAL:HG12	3:f:89:VAL:HG13	1.79	0.65
3:q:46:THR:HB	3:q:62:LYS:HB2	1.78	0.65
3:M:38:VAL:HG12	3:M:40:ILE:HG12	1.79	0.65
3:AC:32:VAL:HG22	3:AC:45:PHE:HB3	1.79	0.65
3:AD:22:PRO:HB3	3:AD:32:VAL:HG12	1.79	0.65
3:A5:70:SER:HA	3:A5:79:PRO:HB3	1.77	0.65
3:Bw:66:PRO:HA	3:Bw:84:THR:HG22	1.77	0.65
3:CA:38:VAL:HG12	3:CA:40:ILE:HG12	1.78	0.65
3:CM:124:ILE:HG23	3:CM:125:VAL:HG23	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CN:23:ARG:HD3	3:CN:33:VAL:HG21	1.79	0.65
3:X:122:ASP:OD1	3:X:126:ASN:ND2	2.29	0.65
3:e:126:ASN:HB3	3:e:128:GLN:HE22	1.62	0.65
3:u:98:THR:HA	3:AZ:38:VAL:HG12	1.77	0.65
3:AU:8:LEU:HD11	3:AV:112:ALA:HA	1.77	0.65
3:AW:62:LYS:HE2	3:AW:88:THR:HG23	1.79	0.65
3:Aa:25:ILE:O	3:B2:28:ASN:ND2	2.29	0.65
3:Ac:110:ALA:HB2	3:Ad:113:LEU:HD11	1.78	0.65
3:Ao:96:ARG:NH2	3:Ap:82:VAL:O	2.30	0.65
3:As:89:VAL:HG12	3:At:89:VAL:HG13	1.79	0.65
3:A9:8:LEU:HD21	3:A0:112:ALA:HB2	1.79	0.65
3:BA:124:ILE:HG23	3:BA:125:VAL:HG23	1.79	0.65
3:Bx:61:LEU:HB2	3:Bx:89:VAL:HB	1.78	0.65
3:B7:66:PRO:HB3	3:B7:84:THR:HG22	1.77	0.65
3:p:33:VAL:HG13	3:p:42:GLU:HG3	1.78	0.64
3:q:33:VAL:HG12	3:q:44:ARG:HA	1.79	0.64
3:N:47:ILE:HD12	3:N:61:LEU:HG	1.79	0.64
3:AA:38:VAL:HG12	3:AA:40:ILE:HG12	1.80	0.64
3:At:23:ARG:HD3	3:At:33:VAL:HG21	1.79	0.64
3:Aw:79:PRO:O	3:A8:96:ARG:NH1	2.31	0.64
3:BO:25:ILE:O	3:Bn:28:ASN:ND2	2.29	0.64
3:0:6:LEU:HB3	3:0:20:PHE:HB2	1.78	0.64
3:6:38:VAL:HG12	3:6:40:ILE:HG12	1.77	0.64
3:7:5:ASN:HD21	3:7:19:THR:HG23	1.62	0.64
3:7:14:THR:O	3:7:16:ASN:ND2	2.31	0.64
3:C:86:TYR:HB2	3:D:92:ASP:HB3	1.78	0.64
3:D:3:LEU:HD12	3:D:25:ILE:HD11	1.79	0.64
3:p:11:ARG:NH2	3:p:113:LEU:O	2.30	0.64
3:t:61:LEU:N	3:t:89:VAL:O	2.31	0.64
3:AU:4:GLN:NE2	3:AV:118:MET:SD	2.70	0.64
3:AU:66:PRO:HA	3:AU:84:THR:HG22	1.79	0.64
3:Ag:89:VAL:HG13	3:Ah:89:VAL:HG22	1.77	0.64
3:Ay:86:TYR:HB2	3:Az:92:ASP:HB3	1.80	0.64
3:BV:3:LEU:HD12	3:CI:119:LEU:HD11	1.80	0.64
3:B7:36:THR:OG1	3:B7:37:GLY:N	2.29	0.64
3:Y:101:GLU:OE2	3:Z:83:ARG:NH2	2.29	0.64
3:I:36:THR:OG1	3:I:37:GLY:N	2.30	0.64
3:M:103:ASN:OD1	3:N:11:ARG:NH1	2.31	0.64
3:BG:32:VAL:HG12	3:BG:45:PHE:HB3	1.79	0.64
3:CQ:71:GLN:NE2	3:CQ:78:THR:O	2.30	0.64
3:3:8:LEU:HD11	3:4:112:ALA:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:9:31:GLU:HB3	3:9:46:THR:HG22	1.80	0.64
3:u:118:MET:SD	3:v:4:GLN:NE2	2.71	0.64
3:Aa:33:VAL:HG13	3:Aa:42:GLU:HG3	1.79	0.64
3:As:117:LYS:HD2	3:At:6:LEU:HD11	1.78	0.64
3:At:25:ILE:HD12	3:At:30:GLY:HA2	1.79	0.64
3:A2:96:ARG:NH1	3:A6:79:PRO:O	2.29	0.64
3:CL:38:VAL:HG11	3:CL:79:PRO:HG3	1.80	0.64
3:4:46:THR:HB	3:4:62:LYS:HB3	1.78	0.64
3:b:38:VAL:HG11	3:b:79:PRO:HG3	1.80	0.64
3:i:51:LYS:NZ	3:i:52:THR:O	2.30	0.64
3:Ar:31:GLU:HB2	3:Ar:46:THR:HG22	1.78	0.64
3:At:68:VAL:HG22	3:At:81:VAL:HG22	1.80	0.64
3:A5:71:GLN:NE2	3:A5:78:THR:O	2.29	0.64
3:A6:31:GLU:HB2	3:A6:46:THR:HG22	1.80	0.64
3:BG:38:VAL:HG12	3:BG:40:ILE:HG12	1.80	0.64
3:Bg:68:VAL:HG22	3:Bg:81:VAL:HG22	1.79	0.64
3:CT:56:ARG:NH2	3:CT:92:ASP:O	2.30	0.64
3:A:66:PRO:HA	3:A:84:THR:HG22	1.80	0.64
3:C:79:PRO:O	3:BF:96:ARG:NH1	2.31	0.64
3:Q:108:MET:HE3	3:R:8:LEU:HD22	1.80	0.64
3:S:6:LEU:HB3	3:S:20:PHE:HB2	1.79	0.64
3:f:32:VAL:HB	3:f:45:PHE:HB3	1.79	0.64
3:q:32:VAL:HG13	3:q:45:PHE:HB3	1.80	0.64
3:u:122:ASP:OD1	3:u:126:ASN:ND2	2.31	0.64
3:AY:50:ARG:HD3	3:AY:58:LYS:HD2	1.79	0.64
3:Ai:71:GLN:HB3	3:Bg:76:ILE:HD11	1.79	0.64
3:An:79:PRO:HG2	3:CO:96:ARG:HG3	1.80	0.64
3:Ax:52:THR:HG22	3:Ax:54:ASN:H	1.62	0.64
3:A2:38:VAL:HG22	3:A2:40:ILE:HG12	1.80	0.64
3:A7:89:VAL:HG12	3:A8:89:VAL:HG13	1.80	0.64
3:Bm:49:LEU:HD11	3:Bn:123:THR:HG23	1.78	0.64
3:B1:122:ASP:O	3:B1:127:LEU:N	2.31	0.64
3:B4:23:ARG:HD3	3:B4:33:VAL:HG21	1.79	0.64
3:B4:54:ASN:HD21	3:B4:56:ARG:HG2	1.63	0.64
3:CQ:52:THR:OG1	3:CQ:58:LYS:NZ	2.30	0.64
3:D:79:PRO:O	3:R:96:ARG:NH1	2.31	0.64
3:O:119:LEU:HD11	3:P:3:LEU:HD12	1.78	0.64
3:P:28:ASN:ND2	3:L:25:ILE:O	2.30	0.64
3:b:54:ASN:HD21	3:b:56:ARG:HG2	1.61	0.64
3:s:31:GLU:HB2	3:s:46:THR:HG22	1.78	0.64
3:s:36:THR:OG1	3:s:37:GLY:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Al:79:PRO:O	3:Ap:96:ARG:NH2	2.31	0.64
3:BA:66:PRO:HA	3:BA:84:THR:HG22	1.80	0.64
3:BR:68:VAL:HG22	3:BR:81:VAL:HG22	1.79	0.64
3:Bw:118:MET:HA	3:Bw:118:MET:HE3	1.80	0.64
3:B8:122:ASP:OD1	3:B8:126:ASN:ND2	2.30	0.64
3:CB:71:GLN:H	3:CB:77:VAL:HG13	1.63	0.64
3:CT:35:SER:HB2	3:CT:42:GLU:HG3	1.78	0.64
3:c:25:ILE:HD13	3:d:130:VAL:HG12	1.80	0.64
3:i:68:VAL:HG12	3:i:81:VAL:HG22	1.79	0.64
3:Ae:25:ILE:HG22	3:Ae:30:GLY:HA2	1.79	0.64
3:BE:66:PRO:HA	3:BE:84:THR:HG22	1.78	0.64
3:Bd:32:VAL:HG22	3:Bd:45:PHE:HB3	1.80	0.64
3:Bz:47:ILE:HD12	3:Bz:61:LEU:HG	1.79	0.64
3:B4:108:MET:HE2	3:B4:108:MET:HA	1.78	0.64
3:0:112:ALA:HB2	3:9:8:LEU:HD11	1.79	0.64
3:k:111:ASP:OD2	3:l:9:LYS:N	2.31	0.64
3:AQ:123:THR:HG23	3:AR:49:LEU:HD22	1.78	0.64
3:Aa:3:LEU:HD21	3:Ab:130:VAL:HG13	1.80	0.64
3:Ap:47:ILE:HD12	3:Ap:61:LEU:HG	1.79	0.64
3:BA:38:VAL:HG12	3:BA:40:ILE:HG12	1.79	0.64
3:CS:71:GLN:NE2	3:CS:78:THR:O	2.30	0.64
3:2:79:PRO:O	3:v:96:ARG:NH1	2.31	0.64
3:T:96:ARG:NH1	3:Z:79:PRO:O	2.31	0.64
3:W:71:GLN:HB3	3:d:76:ILE:HD11	1.78	0.64
3:k:89:VAL:HG13	3:l:89:VAL:HG22	1.80	0.64
3:n:61:LEU:HB2	3:n:89:VAL:HB	1.79	0.64
3:u:117:LYS:NZ	3:v:7:VAL:O	2.31	0.64
3:L:32:VAL:HG22	3:L:45:PHE:HB3	1.78	0.64
3:AC:10:ASP:OD1	3:AD:104:ASN:ND2	2.31	0.64
3:AC:61:LEU:N	3:AC:89:VAL:O	2.31	0.64
3:Au:40:ILE:HG21	3:Au:79:PRO:HG2	1.79	0.64
3:A1:8:LEU:HD11	3:A2:112:ALA:HA	1.80	0.64
3:BK:103:ASN:OD1	3:BL:11:ARG:NH1	2.31	0.64
3:BS:71:GLN:NE2	3:BS:78:THR:O	2.31	0.64
3:BY:112:ALA:HB2	3:BZ:8:LEU:HD11	1.80	0.64
3:BY:118:MET:SD	3:BZ:4:GLN:NE2	2.71	0.64
3:Bv:11:ARG:NH1	3:Bv:114:LYS:O	2.31	0.64
3:CM:20:PHE:HB3	3:CM:32:VAL:HG22	1.80	0.64
3:0:52:THR:CG2	3:0:56:ARG:H	2.11	0.63
3:R:70:SER:HB3	3:R:77:VAL:HG13	1.80	0.63
3:f:52:THR:HG21	3:f:56:ARG:HB2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s:79:PRO:O	3:BH:96:ARG:NH1	2.29	0.63
3:AP:9:LYS:HZ1	3:AP:15:PRO:HB2	1.62	0.63
3:B9:126:ASN:HB3	3:B9:128:GLN:HE22	1.63	0.63
3:Q:122:ASP:OD1	3:Q:126:ASN:ND2	2.28	0.63
3:l:29:VAL:HG22	3:l:48:SER:HB3	1.79	0.63
3:J:69:GLN:HB3	3:Aj:76:ILE:HG21	1.79	0.63
3:AT:40:ILE:HG22	3:AT:68:VAL:HG21	1.80	0.63
3:AZ:61:LEU:HB2	3:AZ:89:VAL:HB	1.80	0.63
3:Am:108:MET:HE2	3:Am:108:MET:HA	1.80	0.63
3:A2:122:ASP:HA	3:A2:126:ASN:HB2	1.79	0.63
3:BF:122:ASP:OD1	3:BF:126:ASN:ND2	2.31	0.63
3:Bm:124:ILE:HG23	3:Bm:125:VAL:HG23	1.80	0.63
3:g:35:SER:HB2	3:g:42:GLU:HB3	1.80	0.63
3:AP:9:LYS:NZ	3:AP:16:ASN:O	2.32	0.63
3:Ak:66:PRO:HA	3:Ak:84:THR:HA	1.78	0.63
3:Al:32:VAL:HG22	3:Al:45:PHE:HB3	1.80	0.63
3:As:52:THR:OG1	3:As:58:LYS:NZ	2.32	0.63
3:A2:122:ASP:OD1	3:A2:126:ASN:ND2	2.30	0.63
3:A5:113:LEU:HD23	3:A6:110:ALA:HB2	1.81	0.63
3:BA:118:MET:SD	3:BB:4:GLN:NE2	2.71	0.63
3:BE:6:LEU:HB3	3:BE:20:PHE:HB2	1.78	0.63
3:BE:112:ALA:HB2	3:BF:8:LEU:HD21	1.80	0.63
3:BO:71:GLN:NE2	3:BO:78:THR:O	2.31	0.63
3:B3:57:TYR:HE1	3:B3:95:ALA:HB2	1.64	0.63
3:CO:111:ASP:OD2	3:CP:9:LYS:N	2.31	0.63
3:9:25:ILE:HG12	3:CD:28:ASN:HD21	1.63	0.63
3:N:98:THR:HB	3:N:101:GLU:HG2	1.79	0.63
3:Aa:11:ARG:NH2	3:Aa:113:LEU:O	2.31	0.63
3:As:104:ASN:ND2	3:At:12:GLU:OE2	2.31	0.63
3:Av:23:ARG:NH2	3:Av:31:GLU:OE2	2.31	0.63
3:Ax:22:PRO:HA	3:Ax:32:VAL:HA	1.79	0.63
3:Bm:33:VAL:HG12	3:Bm:44:ARG:HG2	1.79	0.63
3:Bn:63:LEU:HB3	3:Bn:87:VAL:HG21	1.81	0.63
3:Bw:12:GLU:OE2	3:Bx:104:ASN:ND2	2.32	0.63
3:0:129:GLY:HA3	3:7:24:ASP:HB2	1.80	0.63
3:3:66:PRO:HA	3:3:84:THR:HG22	1.80	0.63
3:A:8:LEU:HD11	3:B:112:ALA:HA	1.81	0.63
3:A:36:THR:OG1	3:A:37:GLY:N	2.32	0.63
3:Q:46:THR:HB	3:Q:62:LYS:HB2	1.79	0.63
3:c:119:LEU:HD21	3:d:4:GLN:HE21	1.63	0.63
3:q:130:VAL:HA	3:r:1:ALA:HB3	1.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AU:111:ASP:OD2	3:AV:9:LYS:N	2.30	0.63
3:Ad:58:LYS:HG2	3:Ad:92:ASP:HB3	1.81	0.63
3:Af:128:GLN:NE2	3:CP:23:ARG:O	2.31	0.63
3:Ao:119:LEU:HD11	3:Ap:3:LEU:HD12	1.80	0.63
3:Az:108:MET:HE2	3:Az:108:MET:HA	1.80	0.63
3:BC:79:PRO:O	3:Bz:96:ARG:NH2	2.32	0.63
3:BV:112:ALA:HA	3:CI:8:LEU:HD11	1.79	0.63
3:Bj:46:THR:HB	3:Bj:62:LYS:HB2	1.80	0.63
3:Bl:41:GLY:HA2	3:Bl:66:PRO:HG2	1.80	0.63
3:B9:9:LYS:N	3:B0:111:ASP:OD2	2.31	0.63
3:B9:66:PRO:HA	3:B9:84:THR:HG22	1.79	0.63
3:CN:20:PHE:HB3	3:CN:32:VAL:HG11	1.81	0.63
3:9:6:LEU:HB3	3:9:20:PHE:HB2	1.81	0.63
3:Az:11:ARG:HH12	3:Az:114:LYS:HA	1.64	0.63
3:A5:23:ARG:HD3	3:B6:51:LYS:HD2	1.81	0.63
3:BG:111:ASP:OD2	3:BH:9:LYS:N	2.31	0.63
3:By:118:MET:SD	3:Bz:4:GLN:NE2	2.72	0.63
3:B1:126:ASN:HB3	3:B1:128:GLN:HE22	1.62	0.63
3:0:96:ARG:HG3	3:9:83:ARG:HD3	1.81	0.63
3:V:11:ARG:NH2	3:V:113:LEU:O	2.31	0.63
3:W:36:THR:OG1	3:W:37:GLY:N	2.32	0.63
3:X:5:ASN:HB3	3:X:21:VAL:HG12	1.81	0.63
3:q:111:ASP:OD2	3:r:9:LYS:N	2.31	0.63
3:K:32:VAL:HG22	3:K:45:PHE:HB3	1.80	0.63
3:AC:111:ASP:OD2	3:AD:9:LYS:N	2.29	0.63
3:Ak:11:ARG:NH2	3:Ak:113:LEU:O	2.32	0.63
3:Bx:38:VAL:HG11	3:Bx:79:PRO:HG3	1.80	0.63
3:CH:38:VAL:HG11	3:CH:79:PRO:HG3	1.79	0.63
3:m:24:ASP:HB2	3:p:129:GLY:HA3	1.79	0.63
3:u:4:GLN:NE2	3:v:118:MET:SD	2.71	0.63
3:w:89:VAL:HG22	3:x:89:VAL:HG13	1.79	0.63
3:J:128:GLN:NE2	3:Aj:23:ARG:O	2.32	0.63
3:Ao:111:ASP:OD2	3:Ap:9:LYS:N	2.32	0.63
3:As:38:VAL:HG12	3:As:40:ILE:HG12	1.79	0.63
3:BN:49:LEU:HD13	3:BN:59:SER:HB3	1.81	0.63
3:5:23:ARG:HH21	3:5:33:VAL:HG21	1.64	0.63
3:R:122:ASP:OD1	3:R:126:ASN:ND2	2.32	0.63
3:R:129:GLY:HA3	3:BV:24:ASP:HB3	1.80	0.63
3:W:38:VAL:HG12	3:W:40:ILE:HG12	1.80	0.63
3:e:89:VAL:HG12	3:f:89:VAL:HG22	1.81	0.63
3:J:29:VAL:HG13	3:J:48:SER:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:63:LEU:HD21	3:AB:108:MET:HB3	1.81	0.63
3:AP:54:ASN:HD21	3:AP:56:ARG:HG2	1.62	0.63
3:At:30:GLY:N	3:At:47:ILE:O	2.30	0.63
3:A4:82:VAL:HG23	3:A4:83:ARG:HG2	1.81	0.63
3:A7:68:VAL:HG12	3:A7:81:VAL:HG22	1.80	0.63
3:B6:11:ARG:NH2	3:B6:114:LYS:O	2.32	0.63
3:O:117:LYS:NZ	3:P:7:VAL:O	2.32	0.62
3:j:122:ASP:O	3:j:128:GLN:N	2.30	0.62
3:I:68:VAL:HG12	3:I:81:VAL:HA	1.81	0.62
3:M:126:ASN:HB3	3:M:128:GLN:HE22	1.64	0.62
3:AC:20:PHE:HE1	3:AC:43:SER:HB2	1.64	0.62
3:A7:20:PHE:HB3	3:A7:32:VAL:HG22	1.81	0.62
3:BL:29:VAL:HG22	3:BL:48:SER:HB3	1.81	0.62
3:BN:23:ARG:HD3	3:BN:33:VAL:HG21	1.81	0.62
3:BS:8:LEU:HD11	3:CH:112:ALA:HA	1.80	0.62
3:BS:62:LYS:NZ	3:BS:88:THR:OG1	2.32	0.62
3:Bw:61:LEU:HB2	3:Bw:89:VAL:HG22	1.81	0.62
3:B2:38:VAL:HG22	3:B2:40:ILE:HG12	1.80	0.62
3:B3:3:LEU:HD11	3:B4:130:VAL:HB	1.80	0.62
3:B0:40:ILE:HG22	3:B0:68:VAL:HG21	1.81	0.62
3:8:114:LYS:HB3	3:8:117:LYS:HD3	1.80	0.62
3:B:49:LEU:HD13	3:B:59:SER:HB3	1.80	0.62
3:O:25:ILE:HD12	3:H:131:TYR:HB2	1.81	0.62
3:q:35:SER:HB3	3:q:42:GLU:HG3	1.81	0.62
3:v:23:ARG:NH2	3:At:127:LEU:O	2.32	0.62
3:AV:30:GLY:HA3	3:AV:47:ILE:HB	1.81	0.62
3:AY:118:MET:SD	3:AZ:4:GLN:NE2	2.71	0.62
3:Ae:35:SER:HB2	3:Ae:42:GLU:HG3	1.80	0.62
3:Ah:68:VAL:HG22	3:Ah:81:VAL:HG22	1.81	0.62
3:Am:8:LEU:HD11	3:An:112:ALA:HA	1.79	0.62
3:A3:36:THR:OG1	3:A3:37:GLY:N	2.32	0.62
3:BH:56:ARG:HH21	3:BH:92:ASP:HB2	1.64	0.62
3:BN:3:LEU:HG	3:BN:22:PRO:HG3	1.80	0.62
3:Bm:29:VAL:HG13	3:Bm:46:THR:HG23	1.79	0.62
3:Bn:46:THR:H	3:Bn:62:LYS:HB2	1.64	0.62
3:B2:3:LEU:HD13	3:B2:25:ILE:HD11	1.81	0.62
3:B5:8:LEU:HD11	3:B6:112:ALA:HA	1.82	0.62
3:CS:119:LEU:HD13	3:CT:6:LEU:HB2	1.80	0.62
3:7:117:LYS:HD2	3:8:6:LEU:HD11	1.81	0.62
3:8:23:ARG:HD2	3:8:33:VAL:HB	1.81	0.62
3:b:46:THR:HB	3:b:62:LYS:HD2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:f:47:ILE:HD12	3:f:61:LEU:HG	1.80	0.62
3:s:104:ASN:ND2	3:t:10:ASP:OD1	2.32	0.62
3:Aa:96:ARG:NH2	3:Ab:82:VAL:O	2.32	0.62
3:Af:54:ASN:HD21	3:Af:56:ARG:HG2	1.64	0.62
3:Aj:70:SER:O	3:B8:74:ASN:ND2	2.32	0.62
3:Au:36:THR:OG1	3:Au:37:GLY:N	2.33	0.62
3:Av:113:LEU:HB3	3:Av:120:VAL:HG11	1.81	0.62
3:A6:71:GLN:NE2	3:A6:78:THR:O	2.29	0.62
3:BA:104:ASN:ND2	3:BB:12:GLU:OE2	2.33	0.62
3:Bb:96:ARG:NH1	3:Bh:79:PRO:O	2.31	0.62
3:CC:8:LEU:HD11	3:CD:112:ALA:HA	1.81	0.62
3:CT:122:ASP:HB2	3:CT:128:GLN:HG3	1.82	0.62
3:7:110:ALA:HB2	3:8:113:LEU:HD11	1.80	0.62
3:C:119:LEU:HD12	3:D:4:GLN:HG3	1.81	0.62
3:Q:111:ASP:OD2	3:R:9:LYS:N	2.31	0.62
3:d:61:LEU:N	3:d:89:VAL:O	2.32	0.62
3:s:23:ARG:HH21	3:s:33:VAL:HG11	1.64	0.62
3:t:79:PRO:O	3:z:96:ARG:NH1	2.32	0.62
3:M:68:VAL:HG12	3:M:81:VAL:HG22	1.82	0.62
3:AC:8:LEU:HD12	3:AD:111:ASP:HB3	1.82	0.62
3:Ap:61:LEU:N	3:Ap:89:VAL:O	2.28	0.62
3:BC:22:PRO:HA	3:BC:32:VAL:HA	1.80	0.62
3:Bi:128:GLN:HE21	3:Bj:1:ALA:H1	1.47	0.62
3:Bn:40:ILE:HG22	3:Bn:68:VAL:HG21	1.80	0.62
3:B9:30:GLY:N	3:B9:47:ILE:O	2.31	0.62
3:9:62:LYS:NZ	3:9:88:THR:OG1	2.32	0.62
3:V:79:PRO:O	3:b:96:ARG:NH1	2.32	0.62
3:m:89:VAL:HG12	3:n:89:VAL:HG13	1.80	0.62
3:G:22:PRO:HA	3:G:32:VAL:HA	1.80	0.62
3:AO:51:LYS:NZ	3:AO:52:THR:O	2.33	0.62
3:Ay:111:ASP:OD2	3:Az:9:LYS:N	2.33	0.62
3:Az:122:ASP:OD1	3:Az:126:ASN:ND2	2.31	0.62
3:BJ:79:PRO:O	3:BN:96:ARG:NH1	2.32	0.62
3:BM:89:VAL:HG12	3:BN:89:VAL:HG13	1.82	0.62
3:Bg:96:ARG:NH2	3:Bh:82:VAL:O	2.33	0.62
3:CC:99:THR:OG1	3:CC:102:ARG:NH2	2.33	0.62
3:7:56:ARG:NH1	3:7:94:ASP:OD1	2.33	0.62
3:l:52:THR:HG21	3:l:58:LYS:HE3	1.80	0.62
3:o:8:LEU:HD23	3:p:117:LYS:HE2	1.80	0.62
3:AW:96:ARG:NH2	3:AX:82:VAL:O	2.33	0.62
3:A3:117:LYS:NZ	3:A4:7:VAL:O	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bn:41:GLY:HA2	3:Bn:66:PRO:HG2	1.81	0.62
3:B8:38:VAL:HG21	3:B8:79:PRO:HG3	1.81	0.62
3:B9:56:ARG:HH12	3:B0:83:ARG:HD2	1.64	0.62
3:CH:122:ASP:OD1	3:CH:126:ASN:ND2	2.32	0.62
3:3:97:SER:O	3:3:102:ARG:NH1	2.33	0.62
3:E:50:ARG:HG3	3:E:58:LYS:HB2	1.80	0.62
3:U:89:VAL:HG22	3:V:89:VAL:HG13	1.81	0.62
3:N:122:ASP:OD1	3:N:126:ASN:ND2	2.33	0.62
3:AZ:22:PRO:HA	3:AZ:32:VAL:HA	1.81	0.62
3:Aj:122:ASP:O	3:Aj:128:GLN:N	2.28	0.62
3:Am:68:VAL:HG12	3:Am:81:VAL:HG22	1.81	0.62
3:An:98:THR:HB	3:An:101:GLU:HG2	1.80	0.62
3:BH:11:ARG:NH1	3:BH:114:LYS:O	2.32	0.62
3:Bk:52:THR:OG1	3:Bk:58:LYS:NZ	2.29	0.62
3:B7:46:THR:HB	3:B7:62:LYS:HB2	1.81	0.62
3:BB:57:TYR:HE2	3:BB:95:ALA:HA	1.64	0.62
3:BZ:68:VAL:HG22	3:BZ:81:VAL:HG22	1.82	0.62
3:Bd:29:VAL:HG22	3:Bd:48:SER:HB3	1.82	0.62
3:Bn:57:TYR:HE2	3:Bn:95:ALA:HA	1.65	0.62
3:B0:41:GLY:HA2	3:B0:66:PRO:HG2	1.80	0.62
3:CI:45:PHE:HZ	3:CI:61:LEU:HD23	1.65	0.62
3:c:29:VAL:HG22	3:c:48:SER:HB3	1.81	0.62
3:i:100:LYS:NZ	3:i:104:ASN:OD1	2.33	0.62
3:j:98:THR:N	3:j:101:GLU:OE2	2.32	0.62
3:AA:36:THR:OG1	3:AA:37:GLY:N	2.32	0.62
3:AQ:71:GLN:NE2	3:AQ:78:THR:O	2.30	0.62
3:AR:94:ASP:HB3	3:AR:97:SER:HB3	1.81	0.62
3:AY:98:THR:N	3:AY:101:GLU:OE2	2.33	0.62
3:Ag:71:GLN:O	3:Ag:78:THR:N	2.31	0.62
3:At:28:ASN:ND2	3:Ax:25:ILE:O	2.33	0.62
3:A2:54:ASN:HD21	3:A2:56:ARG:HG2	1.64	0.62
3:A3:74:ASN:HB3	3:A6:73:VAL:HG22	1.80	0.62
3:A5:130:VAL:HG12	3:A6:25:ILE:HD13	1.82	0.62
3:BE:4:GLN:HE21	3:BF:119:LEU:HB2	1.64	0.62
3:BF:63:LEU:HB3	3:BF:87:VAL:HG21	1.81	0.62
3:BN:38:VAL:HG22	3:BN:40:ILE:HG12	1.81	0.62
3:BZ:23:ARG:HH21	3:BZ:33:VAL:HG21	1.65	0.62
3:Bz:99:THR:OG1	3:Bz:102:ARG:NH2	2.33	0.62
3:CM:4:GLN:HE21	3:CN:119:LEU:HB2	1.63	0.62
3:CN:44:ARG:HD2	3:CN:64:VAL:HG21	1.82	0.62
3:CR:122:ASP:OD1	3:CR:126:ASN:ND2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T:72:THR:HA	3:T:77:VAL:HG22	1.81	0.62
3:Z:58:LYS:NZ	3:Z:92:ASP:OD2	2.32	0.62
3:i:122:ASP:O	3:i:127:LEU:N	2.33	0.62
3:k:127:LEU:HD22	3:Ay:39:PRO:HG2	1.82	0.62
3:K:98:THR:O	3:K:102:ARG:NE	2.32	0.62
3:AA:8:LEU:HD11	3:AB:112:ALA:HA	1.81	0.62
3:AO:4:GLN:NE2	3:AP:118:MET:SD	2.73	0.62
3:AU:110:ALA:HB2	3:AV:113:LEU:HD11	1.82	0.62
3:Ae:111:ASP:OD2	3:Af:9:LYS:N	2.33	0.62
3:BE:8:LEU:HD11	3:BF:112:ALA:HA	1.82	0.62
3:BM:36:THR:OG1	3:BM:37:GLY:N	2.33	0.62
3:Bm:32:VAL:HG12	3:Bm:45:PHE:HB3	1.81	0.62
3:Bv:25:ILE:HG22	3:Bv:30:GLY:HA2	1.82	0.62
3:0:1:ALA:N	3:9:122:ASP:OD2	2.33	0.61
3:A:128:GLN:HE22	3:Bd:35:SER:HB3	1.65	0.61
3:h:23:ARG:HH21	3:h:33:VAL:HG11	1.66	0.61
3:I:12:GLU:OE2	3:J:104:ASN:ND2	2.33	0.61
3:AB:69:GLN:HB3	3:AP:76:ILE:HD11	1.80	0.61
3:AP:68:VAL:HG21	3:AP:79:PRO:HB2	1.82	0.61
3:AS:89:VAL:HG12	3:AT:89:VAL:HG13	1.82	0.61
3:As:36:THR:OG1	3:As:37:GLY:N	2.33	0.61
3:A9:47:ILE:HD13	3:A9:61:LEU:HG	1.82	0.61
3:BI:22:PRO:HA	3:BI:32:VAL:HA	1.82	0.61
3:BZ:33:VAL:HG13	3:BZ:42:GLU:HG3	1.81	0.61
3:Bc:61:LEU:N	3:Bc:89:VAL:O	2.32	0.61
3:B6:68:VAL:HG22	3:B6:81:VAL:HG22	1.81	0.61
3:B0:9:LYS:HE3	3:B0:15:PRO:HB2	1.82	0.61
3:CH:38:VAL:HG22	3:CH:40:ILE:HG13	1.80	0.61
3:CO:20:PHE:HB3	3:CO:32:VAL:HG22	1.81	0.61
3:Q:4:GLN:HE21	3:R:119:LEU:HB2	1.65	0.61
3:g:33:VAL:HG13	3:g:42:GLU:HG3	1.82	0.61
3:q:71:GLN:NE2	3:q:78:THR:O	2.32	0.61
3:G:111:ASP:OD2	3:H:9:LYS:N	2.31	0.61
3:N:69:GLN:HB3	3:BF:76:ILE:HD11	1.82	0.61
3:AA:56:ARG:NH1	3:AA:94:ASP:OD1	2.33	0.61
3:AY:20:PHE:HE2	3:AY:43:SER:HB2	1.66	0.61
3:Ac:38:VAL:HG12	3:Ac:40:ILE:HG12	1.81	0.61
3:Ao:96:ARG:HG3	3:CN:79:PRO:HG2	1.82	0.61
3:A4:35:SER:HA	3:A4:42:GLU:HG2	1.82	0.61
3:A7:110:ALA:HB2	3:A8:113:LEU:HD11	1.81	0.61
3:A8:44:ARG:HG2	3:A8:64:VAL:HB	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:By:111:ASP:OD2	3:Bz:9:LYS:N	2.33	0.61
3:B5:97:SER:O	3:B5:102:ARG:NH1	2.33	0.61
3:CC:8:LEU:HB3	3:CD:108:MET:HE1	1.81	0.61
3:9:79:PRO:O	3:CD:96:ARG:NH1	2.32	0.61
3:m:104:ASN:ND2	3:n:11:ARG:O	2.33	0.61
3:n:108:MET:HE2	3:n:108:MET:HA	1.82	0.61
3:N:70:SER:HB3	3:N:79:PRO:HA	1.82	0.61
3:An:20:PHE:HB3	3:An:32:VAL:HG11	1.83	0.61
3:An:41:GLY:HA2	3:An:66:PRO:HG2	1.82	0.61
3:Au:3:LEU:HD12	3:Av:130:VAL:HG21	1.82	0.61
3:Au:112:ALA:HA	3:Au:117:LYS:HG3	1.82	0.61
3:Av:69:GLN:HE21	3:A8:76:ILE:HG21	1.66	0.61
3:Ay:25:ILE:HG13	3:Ay:30:GLY:HA2	1.82	0.61
3:BI:38:VAL:HG12	3:BI:40:ILE:HG12	1.82	0.61
3:BY:111:ASP:OD2	3:BZ:9:LYS:N	2.33	0.61
3:Bi:46:THR:HB	3:Bi:62:LYS:HB2	1.82	0.61
3:CQ:58:LYS:HG2	3:CQ:92:ASP:HA	1.83	0.61
3:5:25:ILE:HD12	3:6:130:VAL:HG12	1.82	0.61
3:7:103:ASN:OD1	3:8:11:ARG:NH1	2.32	0.61
3:S:46:THR:HB	3:S:62:LYS:HB2	1.81	0.61
3:T:52:THR:HG21	3:T:56:ARG:HB2	1.83	0.61
3:a:20:PHE:HB3	3:a:32:VAL:HG22	1.82	0.61
3:y:20:PHE:HB3	3:y:32:VAL:HG22	1.83	0.61
3:AC:118:MET:SD	3:AD:4:GLN:NE2	2.73	0.61
3:At:82:VAL:HG23	3:At:83:ARG:HG2	1.82	0.61
3:Ax:71:GLN:NE2	3:Ax:78:THR:O	2.31	0.61
3:Az:46:THR:HB	3:Az:62:LYS:HD2	1.83	0.61
3:BB:23:ARG:HD3	3:BB:33:VAL:HB	1.82	0.61
3:BD:61:LEU:HB2	3:BD:89:VAL:HB	1.82	0.61
3:Bg:36:THR:OG1	3:Bg:37:GLY:N	2.32	0.61
3:Ab:6:LEU:O	3:Ab:20:PHE:N	2.30	0.61
3:Ac:20:PHE:HB3	3:Ac:32:VAL:HG22	1.83	0.61
3:Af:40:ILE:HG22	3:Af:68:VAL:HG21	1.83	0.61
3:A9:58:LYS:HB3	3:A9:92:ASP:HB3	1.83	0.61
3:CT:32:VAL:HG12	3:CT:45:PHE:HB3	1.81	0.61
3:4:71:GLN:H	3:4:77:VAL:HG13	1.65	0.61
3:C:29:VAL:HG22	3:C:48:SER:HB3	1.80	0.61
3:D:33:VAL:HG11	3:D:42:GLU:HB3	1.83	0.61
3:S:33:VAL:HG12	3:S:44:ARG:HA	1.82	0.61
3:N:22:PRO:HB3	3:N:32:VAL:HG22	1.81	0.61
3:AR:118:MET:HA	3:AR:118:MET:HE2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AW:25:ILE:O	3:Bl:28:ASN:ND2	2.32	0.61
3:Ag:111:ASP:OD2	3:Ah:9:LYS:N	2.29	0.61
3:Ao:123:THR:HG23	3:Ap:49:LEU:HD12	1.83	0.61
3:Aw:108:MET:HE3	3:Ax:63:LEU:HD21	1.83	0.61
3:BK:71:GLN:HB3	3:BP:76:ILE:HD11	1.82	0.61
3:B1:119:LEU:HD11	3:B2:3:LEU:HA	1.82	0.61
3:B4:70:SER:HB2	3:B4:77:VAL:HG11	1.83	0.61
3:B5:10:ASP:HB3	3:B5:16:ASN:HB3	1.82	0.61
3:B9:96:ARG:NH2	3:B0:83:ARG:O	2.33	0.61
3:8:68:VAL:HG11	3:8:79:PRO:HB2	1.83	0.61
3:8:122:ASP:OD1	3:8:126:ASN:ND2	2.31	0.61
3:J:23:ARG:HD3	3:J:33:VAL:HG21	1.83	0.61
3:At:52:THR:HG21	3:At:56:ARG:HB2	1.82	0.61
3:BM:129:GLY:O	3:BN:1:ALA:N	2.33	0.61
3:BO:89:VAL:HG22	3:BP:89:VAL:HG13	1.81	0.61
3:BQ:36:THR:OG1	3:BQ:37:GLY:N	2.30	0.61
3:Bb:47:ILE:HD12	3:Bb:61:LEU:HG	1.83	0.61
3:Bk:61:LEU:HB2	3:Bk:89:VAL:HG22	1.81	0.61
3:CC:124:ILE:HG23	3:CC:125:VAL:HG23	1.82	0.61
3:CN:62:LYS:HZ1	3:CN:64:VAL:HG22	1.66	0.61
3:z:33:VAL:HG13	3:z:42:GLU:HB3	1.82	0.61
3:J:28:ASN:ND2	3:BZ:25:ILE:O	2.28	0.61
3:AW:111:ASP:OD2	3:AX:9:LYS:N	2.34	0.61
3:Aa:118:MET:SD	3:Ab:4:GLN:NE2	2.74	0.61
3:Ag:101:GLU:OE2	3:Ah:83:ARG:NH2	2.33	0.61
3:BQ:25:ILE:HG13	3:BQ:30:GLY:HA2	1.83	0.61
3:Bi:6:LEU:HB3	3:Bi:20:PHE:HB2	1.80	0.61
3:B4:46:THR:HB	3:B4:62:LYS:HB2	1.82	0.61
3:A:111:ASP:OD2	3:B:9:LYS:N	2.33	0.61
3:X:41:GLY:HA2	3:X:66:PRO:HG2	1.83	0.61
3:j:52:THR:HG21	3:j:56:ARG:HB2	1.82	0.61
3:m:23:ARG:HH21	3:m:33:VAL:HG21	1.66	0.61
3:s:25:ILE:O	3:BH:28:ASN:ND2	2.34	0.61
3:BM:61:LEU:HB2	3:BM:89:VAL:HG22	1.81	0.61
3:Bu:111:ASP:OD2	3:Bv:9:LYS:N	2.31	0.61
3:CD:122:ASP:OD1	3:CD:126:ASN:ND2	2.34	0.61
3:CS:8:LEU:HD11	3:CT:112:ALA:HA	1.82	0.61
3:C:92:ASP:HB3	3:D:86:TYR:HB2	1.82	0.61
3:e:52:THR:HB	3:e:56:ARG:H	1.65	0.61
3:g:21:VAL:HG11	3:Bi:128:GLN:HB2	1.82	0.61
3:k:92:ASP:HB3	3:l:86:TYR:HB2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AS:58:LYS:HG2	3:AS:92:ASP:HB3	1.82	0.61
3:AZ:9:LYS:HE2	3:AZ:15:PRO:HG2	1.83	0.61
3:Af:122:ASP:O	3:Af:128:GLN:N	2.28	0.61
3:Av:68:VAL:HG11	3:Av:79:PRO:HB2	1.83	0.61
3:A5:7:VAL:HG22	3:A5:19:THR:HA	1.83	0.61
3:BJ:6:LEU:HB3	3:BJ:20:PHE:HB2	1.83	0.61
3:Bm:111:ASP:OD2	3:Bn:9:LYS:N	2.31	0.61
3:Bn:32:VAL:HB	3:Bn:45:PHE:HB3	1.82	0.61
3:By:68:VAL:HG12	3:By:81:VAL:HG22	1.82	0.61
3:Bz:99:THR:HA	3:Bz:102:ARG:HE	1.66	0.61
3:CC:66:PRO:HA	3:CC:84:THR:HG22	1.82	0.61
3:CP:113:LEU:HB3	3:CP:120:VAL:HG11	1.82	0.61
3:D:71:GLN:NE2	3:D:78:THR:O	2.34	0.60
3:Q:8:LEU:HD21	3:R:112:ALA:HB2	1.82	0.60
3:R:122:ASP:HB3	3:R:128:GLN:HG3	1.81	0.60
3:L:36:THR:OG1	3:L:37:GLY:N	2.33	0.60
3:M:96:ARG:HG3	3:BF:40:ILE:HD11	1.83	0.60
3:AT:96:ARG:HD3	3:AX:79:PRO:HD2	1.82	0.60
3:Af:82:VAL:HG23	3:Af:83:ARG:HG2	1.83	0.60
3:Ak:111:ASP:O	3:Ak:114:LYS:NZ	2.33	0.60
3:A8:46:THR:HB	3:A8:62:LYS:HB3	1.82	0.60
3:BG:129:GLY:O	3:BH:1:ALA:N	2.34	0.60
3:Bg:89:VAL:HG22	3:Bh:89:VAL:HG13	1.82	0.60
3:CK:36:THR:OG1	3:CK:37:GLY:N	2.34	0.60
3:CR:100:LYS:O	3:CR:104:ASN:ND2	2.32	0.60
3:4:82:VAL:HG23	3:4:83:ARG:HG2	1.83	0.60
3:6:100:LYS:NZ	3:6:104:ASN:OD1	2.31	0.60
3:A:100:LYS:NZ	3:A:104:ASN:OD1	2.34	0.60
3:D:9:LYS:NZ	3:D:10:ASP:O	2.33	0.60
3:g:22:PRO:HA	3:g:32:VAL:HA	1.83	0.60
3:n:99:THR:HA	3:n:102:ARG:HE	1.66	0.60
3:AC:64:VAL:HG12	3:AC:66:PRO:HD3	1.83	0.60
3:BE:111:ASP:OD2	3:BF:9:LYS:N	2.32	0.60
3:Bk:129:GLY:O	3:Bl:1:ALA:N	2.33	0.60
3:Bm:25:ILE:HG13	3:Bm:30:GLY:HA2	1.81	0.60
3:C:25:ILE:O	3:BF:28:ASN:ND2	2.33	0.60
3:X:38:VAL:HG11	3:X:79:PRO:HG3	1.84	0.60
3:i:3:LEU:HD22	3:i:22:PRO:HB3	1.82	0.60
3:G:76:ILE:HD11	3:A3:71:GLN:HB3	1.83	0.60
3:AS:118:MET:SD	3:AT:4:GLN:NE2	2.73	0.60
3:Ai:47:ILE:HG22	3:Ai:61:LEU:HD12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:124:ILE:HG13	3:BB:106:VAL:HG21	1.83	0.60
3:BD:29:VAL:HA	3:BD:48:SER:HB3	1.83	0.60
3:BP:23:ARG:HH21	3:BP:33:VAL:HG11	1.66	0.60
3:BY:96:ARG:NH2	3:BZ:82:VAL:O	2.35	0.60
3:Bc:104:ASN:ND2	3:Bd:10:ASP:OD1	2.34	0.60
3:CL:73:VAL:HB	3:CL:76:ILE:HG13	1.82	0.60
3:3:33:VAL:HG12	3:3:44:ARG:HA	1.82	0.60
3:4:58:LYS:HG2	3:4:92:ASP:HB3	1.82	0.60
3:S:52:THR:OG1	3:S:58:LYS:NZ	2.34	0.60
3:Y:29:VAL:HG22	3:Y:48:SER:HB2	1.83	0.60
3:p:114:LYS:HG3	3:p:116:ASP:H	1.67	0.60
3:K:61:LEU:N	3:K:89:VAL:O	2.30	0.60
3:AZ:23:ARG:NH2	3:AZ:31:GLU:OE2	2.34	0.60
3:Ao:8:LEU:HB3	3:Ap:108:MET:HE1	1.84	0.60
3:Ay:20:PHE:HB3	3:Ay:32:VAL:HG22	1.83	0.60
3:A5:124:ILE:HD12	3:A6:106:VAL:HG11	1.82	0.60
3:Bz:23:ARG:HD2	3:Bz:33:VAL:HB	1.82	0.60
3:B0:98:THR:N	3:B0:101:GLU:OE2	2.34	0.60
3:CD:113:LEU:HB3	3:CD:120:VAL:HG11	1.83	0.60
3:CK:9:LYS:N	3:CL:111:ASP:OD2	2.33	0.60
3:CO:63:LEU:HD21	3:CP:108:MET:HB3	1.83	0.60
3:CP:58:LYS:HG2	3:CP:92:ASP:HB3	1.82	0.60
3:C:51:LYS:HZ1	3:C:55:GLY:HA2	1.66	0.60
3:u:111:ASP:OD2	3:v:9:LYS:N	2.31	0.60
3:Ap:10:ASP:HB3	3:Ap:12:GLU:OE1	2.02	0.60
3:A3:52:THR:OG1	3:A3:58:LYS:NZ	2.35	0.60
3:BN:122:ASP:HA	3:BN:126:ASN:HB2	1.83	0.60
3:BS:4:GLN:NE2	3:CH:118:MET:SD	2.75	0.60
3:Bm:121:HIS:HA	3:Bm:124:ILE:HG22	1.83	0.60
3:B2:54:ASN:HD21	3:B2:56:ARG:HG2	1.66	0.60
3:CA:50:ARG:HH11	3:CA:58:LYS:HD2	1.66	0.60
3:8:9:LYS:NZ	3:8:17:ASP:OD1	2.34	0.60
3:X:82:VAL:HG23	3:X:83:ARG:HG2	1.83	0.60
3:n:69:GLN:HE21	3:BB:73:VAL:HG11	1.67	0.60
3:N:38:VAL:HG21	3:N:79:PRO:HG3	1.82	0.60
3:AS:89:VAL:HG12	3:AT:89:VAL:HG22	1.83	0.60
3:A0:28:ASN:ND2	3:BD:25:ILE:O	2.30	0.60
3:BB:58:LYS:HG2	3:BB:92:ASP:HB3	1.83	0.60
3:Bj:31:GLU:HA	3:Bj:46:THR:HA	1.84	0.60
3:By:122:ASP:OD1	3:By:126:ASN:ND2	2.35	0.60
3:B7:118:MET:SD	3:B8:4:GLN:NE2	2.74	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:89:VAL:HG12	3:4:89:VAL:HG22	1.83	0.60
3:B:58:LYS:HG2	3:B:92:ASP:HB3	1.83	0.60
3:O:103:ASN:OD1	3:P:11:ARG:NH1	2.35	0.60
3:P:9:LYS:HE2	3:P:15:PRO:HG2	1.83	0.60
3:i:89:VAL:HG12	3:j:89:VAL:HG22	1.83	0.60
3:AO:111:ASP:OD2	3:AP:9:LYS:N	2.32	0.60
3:AY:10:ASP:OD1	3:AZ:104:ASN:ND2	2.35	0.60
3:Ak:71:GLN:NE2	3:Ak:78:THR:O	2.33	0.60
3:Am:36:THR:OG1	3:Am:37:GLY:N	2.30	0.60
3:Ao:58:LYS:HG2	3:Ao:92:ASP:HB3	1.83	0.60
3:Av:82:VAL:HG23	3:Av:83:ARG:HG2	1.84	0.60
3:A1:38:VAL:HG12	3:A1:40:ILE:HG12	1.82	0.60
3:A:110:ALA:HB2	3:B:113:LEU:HD11	1.84	0.60
3:V:22:PRO:HA	3:V:32:VAL:HA	1.83	0.60
3:z:41:GLY:HA2	3:z:66:PRO:HG2	1.84	0.60
3:I:110:ALA:HB2	3:J:113:LEU:HD11	1.83	0.60
3:Au:9:LYS:N	3:Av:111:ASP:OD2	2.34	0.60
3:A5:104:ASN:ND2	3:A6:10:ASP:OD1	2.34	0.60
3:Bm:122:ASP:O	3:Bm:127:LEU:N	2.35	0.60
3:Bz:122:ASP:OD1	3:Bz:126:ASN:ND2	2.34	0.60
3:B2:20:PHE:HB3	3:B2:32:VAL:HG11	1.84	0.60
3:B6:61:LEU:N	3:B6:89:VAL:O	2.34	0.60
3:CC:25:ILE:HG22	3:CC:30:GLY:HA2	1.84	0.60
3:U:47:ILE:HD13	3:U:61:LEU:HG	1.84	0.60
3:b:82:VAL:HG23	3:b:83:ARG:HG2	1.83	0.60
3:g:111:ASP:OD2	3:h:9:LYS:N	2.34	0.60
3:r:28:ASN:ND2	3:x:25:ILE:O	2.29	0.60
3:BB:82:VAL:HG23	3:BB:83:ARG:HG2	1.83	0.60
3:BC:35:SER:HB2	3:BC:42:GLU:HB3	1.84	0.60
3:BE:20:PHE:HB3	3:BE:32:VAL:HG22	1.84	0.60
3:BR:52:THR:HG21	3:BR:56:ARG:HB2	1.83	0.60
3:BS:104:ASN:ND2	3:CH:12:GLU:OE2	2.33	0.60
3:Bm:65:VAL:HG21	3:Bn:108:MET:HE1	1.83	0.60
3:Bx:44:ARG:HG2	3:Bx:64:VAL:HB	1.84	0.60
3:B4:71:GLN:H	3:B4:77:VAL:HG13	1.67	0.60
3:4:23:ARG:HD3	3:4:33:VAL:HG21	1.84	0.60
3:B:40:ILE:HG22	3:B:68:VAL:HG21	1.84	0.60
3:c:4:GLN:NE2	3:d:118:MET:SD	2.74	0.60
3:i:40:ILE:HG21	3:i:79:PRO:HG2	1.84	0.60
3:i:58:LYS:HG2	3:i:92:ASP:HB3	1.84	0.60
3:n:82:VAL:HG23	3:n:83:ARG:HG2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:79:PRO:O	3:N:96:ARG:NH1	2.33	0.60
3:K:111:ASP:O	3:K:114:LYS:NZ	2.34	0.60
3:AQ:113:LEU:HD22	3:AR:110:ALA:HB2	1.84	0.60
3:Ao:33:VAL:HG12	3:Ao:44:ARG:HA	1.84	0.60
3:A1:122:ASP:OD1	3:A1:126:ASN:ND2	2.34	0.60
3:BD:20:PHE:HB3	3:BD:32:VAL:HG21	1.84	0.60
3:BI:3:LEU:HD11	3:BJ:130:VAL:HG13	1.84	0.60
3:Bc:69:GLN:HE21	3:B5:76:ILE:HD12	1.67	0.60
3:B1:117:LYS:HD3	3:B2:6:LEU:HD11	1.83	0.60
3:B6:56:ARG:NH1	3:B6:94:ASP:OD1	2.35	0.60
3:B6:58:LYS:HG2	3:B6:92:ASP:HB3	1.82	0.60
3:CK:8:LEU:HD21	3:CL:112:ALA:HB2	1.83	0.60
3:W:61:LEU:HB2	3:W:89:VAL:HG22	1.84	0.59
3:b:122:ASP:OD1	3:b:126:ASN:ND2	2.29	0.59
3:t:111:ASP:OD1	3:t:114:LYS:NZ	2.32	0.59
3:Am:96:ARG:NH2	3:Bb:79:PRO:O	2.33	0.59
3:CL:63:LEU:HB3	3:CL:87:VAL:HG21	1.84	0.59
3:CP:82:VAL:HG23	3:CP:83:ARG:HG2	1.84	0.59
3:CT:40:ILE:HG22	3:CT:68:VAL:HG21	1.84	0.59
3:B:52:THR:HG23	3:B:54:ASN:H	1.67	0.59
3:V:32:VAL:HG22	3:V:45:PHE:HB3	1.84	0.59
3:s:22:PRO:HA	3:s:32:VAL:HA	1.85	0.59
3:Ai:89:VAL:HG12	3:Aj:89:VAL:HG13	1.84	0.59
3:A3:46:THR:HB	3:A3:62:LYS:HB2	1.83	0.59
3:BF:98:THR:N	3:BF:101:GLU:OE2	2.35	0.59
3:Bv:113:LEU:HB3	3:Bv:120:VAL:HG13	1.84	0.59
3:CH:63:LEU:HB3	3:CH:87:VAL:HG21	1.85	0.59
3:5:51:LYS:HE2	3:5:55:GLY:HA2	1.83	0.59
3:D:22:PRO:HA	3:D:32:VAL:HG12	1.85	0.59
3:P:52:THR:HG21	3:P:56:ARG:HB2	1.83	0.59
3:c:61:LEU:N	3:c:89:VAL:O	2.36	0.59
3:j:25:ILE:HG22	3:j:30:GLY:HA2	1.82	0.59
3:AC:79:PRO:HD2	3:AP:96:ARG:HD3	1.83	0.59
3:AW:36:THR:OG1	3:AW:37:GLY:N	2.36	0.59
3:Aa:71:GLN:HB3	3:B3:76:ILE:HD11	1.84	0.59
3:Av:10:ASP:HB3	3:Av:12:GLU:OE1	2.02	0.59
3:A3:4:GLN:HE21	3:A4:119:LEU:HB2	1.67	0.59
3:BA:89:VAL:HG12	3:BB:89:VAL:HG13	1.82	0.59
3:BC:32:VAL:HG22	3:BC:45:PHE:HB3	1.82	0.59
3:Bb:113:LEU:HB3	3:Bb:120:VAL:HG11	1.84	0.59
3:Bk:36:THR:OG1	3:Bk:37:GLY:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B3:66:PRO:HA	3:B3:84:THR:HG22	1.84	0.59
3:1:1:ALA:N	3:2:129:GLY:O	2.32	0.59
3:5:32:VAL:HG22	3:5:45:PHE:HB3	1.85	0.59
3:X:42:GLU:OE2	3:X:44:ARG:NH2	2.35	0.59
3:G:4:GLN:HG3	3:H:119:LEU:HD12	1.83	0.59
3:M:58:LYS:HG2	3:M:92:ASP:HB3	1.84	0.59
3:AC:3:LEU:HA	3:AD:119:LEU:HD13	1.84	0.59
3:AS:117:LYS:HD2	3:AT:6:LEU:HD11	1.85	0.59
3:Ai:61:LEU:HB2	3:Ai:89:VAL:HG22	1.85	0.59
3:An:40:ILE:HD11	3:CO:95:ALA:HB1	1.83	0.59
3:Aq:32:VAL:HG12	3:Aq:45:PHE:HB3	1.85	0.59
3:A:12:GLU:OE2	3:B:104:ASN:ND2	2.34	0.59
3:e:20:PHE:HB3	3:e:32:VAL:HG22	1.84	0.59
3:J:41:GLY:HA2	3:J:66:PRO:HG2	1.84	0.59
3:M:35:SER:HB2	3:M:42:GLU:HG3	1.85	0.59
3:AY:68:VAL:HG12	3:AY:81:VAL:HG22	1.83	0.59
3:AY:89:VAL:HG12	3:AZ:89:VAL:HG22	1.83	0.59
3:Ai:20:PHE:HE2	3:Ai:43:SER:HB2	1.66	0.59
3:Aj:82:VAL:HG23	3:Aj:83:ARG:HG2	1.85	0.59
3:Ak:45:PHE:HB2	3:Ak:63:LEU:HD13	1.83	0.59
3:Ar:71:GLN:NE2	3:Ar:78:THR:O	2.31	0.59
3:A0:71:GLN:H	3:A0:77:VAL:HG13	1.67	0.59
3:BB:63:LEU:HB3	3:BB:87:VAL:HG21	1.84	0.59
3:BF:108:MET:HA	3:BF:108:MET:HE2	1.84	0.59
3:B0:35:SER:HB2	3:B0:42:GLU:HB3	1.85	0.59
3:CT:7:VAL:HG12	3:CT:19:THR:HA	1.82	0.59
3:w:33:VAL:HG13	3:w:42:GLU:HG3	1.83	0.59
3:x:32:VAL:HG22	3:x:45:PHE:HB3	1.82	0.59
3:G:79:PRO:O	3:A4:96:ARG:NH1	2.35	0.59
3:I:126:ASN:HB3	3:I:128:GLN:HE22	1.66	0.59
3:N:39:PRO:HG2	3:A7:95:ALA:HA	1.83	0.59
3:AA:20:PHE:HB3	3:AA:32:VAL:HG22	1.85	0.59
3:AQ:111:ASP:OD2	3:AR:9:LYS:N	2.34	0.59
3:AZ:99:THR:HA	3:AZ:102:ARG:HE	1.66	0.59
3:Aq:89:VAL:HG13	3:Ar:89:VAL:HG22	1.83	0.59
3:Aq:96:ARG:NH2	3:Ar:82:VAL:O	2.36	0.59
3:A3:38:VAL:HG12	3:A3:40:ILE:HG12	1.85	0.59
3:CN:40:ILE:HG22	3:CN:68:VAL:HG21	1.85	0.59
3:CT:54:ASN:HD21	3:CT:56:ARG:HG2	1.67	0.59
3:2:36:THR:OG1	3:2:37:GLY:N	2.33	0.59
3:O:36:THR:OG1	3:O:37:GLY:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T:40:ILE:HD11	3:CI:95:ALA:HB1	1.84	0.59
3:y:89:VAL:HG12	3:z:89:VAL:HG13	1.84	0.59
3:Af:113:LEU:HD23	3:Af:113:LEU:H	1.67	0.59
3:Aj:6:LEU:HB3	3:Aj:20:PHE:HB2	1.84	0.59
3:Au:45:PHE:HD1	3:Au:63:LEU:HD13	1.67	0.59
3:A2:23:ARG:HD3	3:A2:33:VAL:HG21	1.83	0.59
3:A5:121:HIS:HA	3:A5:124:ILE:HG12	1.85	0.59
3:A0:82:VAL:HG23	3:A0:83:ARG:HG2	1.85	0.59
3:BB:113:LEU:H	3:BB:113:LEU:HD23	1.66	0.59
3:BF:122:ASP:HB3	3:BF:128:GLN:HG3	1.84	0.59
3:BV:41:GLY:HA2	3:BV:66:PRO:HG2	1.84	0.59
3:B4:9:LYS:HE2	3:B4:9:LYS:HA	1.85	0.59
3:CO:31:GLU:HG2	3:CO:46:THR:HA	1.85	0.59
3:CQ:99:THR:OG1	3:CQ:102:ARG:NH2	2.36	0.59
3:T:40:ILE:HG22	3:T:68:VAL:HG21	1.84	0.59
3:AB:38:VAL:HG22	3:AB:40:ILE:HG12	1.85	0.59
3:AZ:58:LYS:NZ	3:AZ:90:ASP:OD2	2.32	0.59
3:Af:46:THR:HB	3:Af:62:LYS:HB2	1.83	0.59
3:BG:35:SER:HB2	3:BG:42:GLU:CB	2.32	0.59
3:BM:38:VAL:HG12	3:BM:40:ILE:HG12	1.85	0.59
3:Bm:117:LYS:HD2	3:Bn:6:LEU:HD11	1.85	0.59
3:B1:7:VAL:O	3:B2:117:LYS:NZ	2.31	0.59
3:CT:113:LEU:HD23	3:CT:113:LEU:H	1.67	0.59
3:P:108:MET:HE2	3:P:108:MET:HA	1.85	0.59
3:T:23:ARG:NE	3:BV:128:GLN:OE1	2.35	0.59
3:T:38:VAL:HG22	3:T:40:ILE:HG12	1.84	0.59
3:c:111:ASP:OD2	3:d:9:LYS:N	2.36	0.59
3:o:11:ARG:NH1	3:p:103:ASN:OD1	2.32	0.59
3:t:118:MET:SD	3:t:118:MET:N	2.76	0.59
3:v:47:ILE:HD13	3:v:61:LEU:HG	1.84	0.59
3:z:70:SER:HB2	3:z:77:VAL:HG13	1.85	0.59
3:M:33:VAL:HG12	3:M:44:ARG:HG2	1.84	0.59
3:As:118:MET:SD	3:At:4:GLN:NE2	2.75	0.59
3:At:108:MET:HA	3:At:108:MET:HE2	1.85	0.59
3:A0:122:ASP:HA	3:A0:126:ASN:HB2	1.85	0.59
3:BC:101:GLU:OE2	3:BD:83:ARG:NH2	2.32	0.59
3:BN:9:LYS:HE3	3:BN:15:PRO:HB2	1.85	0.59
3:BR:82:VAL:HG23	3:BR:83:ARG:HG2	1.83	0.59
3:B7:103:ASN:OD1	3:B8:11:ARG:NH1	2.33	0.59
3:CD:38:VAL:HG11	3:CD:79:PRO:HG3	1.83	0.59
3:2:7:VAL:HG22	3:2:19:THR:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T:23:ARG:NH2	3:BV:127:LEU:O	2.36	0.59
3:X:38:VAL:HG22	3:X:40:ILE:HG12	1.84	0.59
3:i:20:PHE:HB3	3:i:32:VAL:HG22	1.85	0.59
3:w:44:ARG:HG2	3:w:64:VAL:HB	1.85	0.59
3:AP:123:THR:HA	3:AP:128:GLN:H	1.66	0.59
3:A2:23:ARG:HG3	3:B2:128:GLN:HG3	1.85	0.59
3:A2:82:VAL:HG23	3:A2:83:ARG:HG2	1.84	0.59
3:A8:23:ARG:HD3	3:A8:33:VAL:HG21	1.85	0.59
3:A8:38:VAL:HG22	3:A8:40:ILE:HG12	1.83	0.59
3:Bu:89:VAL:HG12	3:Bv:89:VAL:HG13	1.85	0.59
3:CM:68:VAL:HA	3:CM:81:VAL:HA	1.85	0.59
3:Z:33:VAL:HG13	3:Z:42:GLU:HG3	1.84	0.58
3:d:25:ILE:HG12	3:d:30:GLY:HA2	1.85	0.58
3:f:113:LEU:HD23	3:f:113:LEU:H	1.68	0.58
3:j:57:TYR:HE2	3:j:95:ALA:HA	1.68	0.58
3:v:10:ASP:HB3	3:v:12:GLU:OE1	2.03	0.58
3:AT:57:TYR:HE2	3:AT:95:ALA:HA	1.67	0.58
3:Ai:38:VAL:HG13	3:Ai:40:ILE:HG22	1.84	0.58
3:Al:7:VAL:HG22	3:Al:19:THR:HG23	1.84	0.58
3:A6:36:THR:OG1	3:A6:37:GLY:N	2.33	0.58
3:Bx:82:VAL:HG23	3:Bx:83:ARG:HG2	1.84	0.58
3:CC:117:LYS:NZ	3:CD:7:VAL:O	2.30	0.58
3:CR:118:MET:N	3:CR:118:MET:SD	2.75	0.58
3:0:29:VAL:HG22	3:0:48:SER:HB3	1.85	0.58
3:S:49:LEU:HD23	3:S:59:SER:HB3	1.85	0.58
3:a:23:ARG:HH21	3:a:33:VAL:HG21	1.68	0.58
3:N:82:VAL:HG23	3:N:83:ARG:HG2	1.85	0.58
3:AP:122:ASP:HA	3:AP:126:ASN:HD22	1.67	0.58
3:AU:108:MET:HA	3:AU:108:MET:HE2	1.85	0.58
3:AW:47:ILE:HD13	3:AW:61:LEU:HG	1.85	0.58
3:Ak:71:GLN:HB3	3:B9:76:ILE:HD11	1.83	0.58
3:Ay:118:MET:HA	3:Ay:118:MET:HE2	1.85	0.58
3:A1:35:SER:HB3	3:A1:42:GLU:HG3	1.84	0.58
3:A5:22:PRO:HA	3:A5:32:VAL:HA	1.84	0.58
3:BK:36:THR:OG1	3:BK:37:GLY:N	2.31	0.58
3:Bi:6:LEU:HD13	3:Bj:119:LEU:HD13	1.85	0.58
3:Bu:68:VAL:HG12	3:Bu:81:VAL:HG22	1.85	0.58
3:By:20:PHE:HB3	3:By:32:VAL:HG22	1.85	0.58
3:B6:58:LYS:HA	3:B6:92:ASP:HA	1.84	0.58
3:Q:103:ASN:OD1	3:R:11:ARG:NH2	2.36	0.58
3:W:46:THR:HB	3:W:62:LYS:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:3:LEU:HB2	3:Z:119:LEU:HD11	1.84	0.58
3:d:33:VAL:HG13	3:d:42:GLU:HG3	1.85	0.58
3:k:32:VAL:HG22	3:k:45:PHE:HB3	1.85	0.58
3:x:122:ASP:HB3	3:x:128:GLN:HG3	1.83	0.58
3:Aa:32:VAL:HG22	3:Aa:45:PHE:HB3	1.86	0.58
3:Ag:77:VAL:HG12	3:Ag:79:PRO:HD3	1.84	0.58
3:Au:8:LEU:HD21	3:Av:112:ALA:HB2	1.84	0.58
3:BE:32:VAL:HG13	3:BE:45:PHE:HB3	1.85	0.58
3:BO:52:THR:OG1	3:BO:56:ARG:O	2.20	0.58
3:Bn:113:LEU:HD23	3:Bn:113:LEU:H	1.69	0.58
3:Bw:36:THR:OG1	3:Bw:37:GLY:N	2.32	0.58
3:By:106:VAL:HG21	3:Bz:125:VAL:HG22	1.85	0.58
3:CP:38:VAL:HG12	3:CP:40:ILE:HG12	1.84	0.58
3:Z:22:PRO:HA	3:Z:32:VAL:HA	1.85	0.58
3:e:33:VAL:HG12	3:e:44:ARG:HA	1.86	0.58
3:j:10:ASP:HB3	3:j:16:ASN:H	1.69	0.58
3:Au:43:SER:HA	3:Au:66:PRO:HD2	1.85	0.58
3:A1:89:VAL:HG12	3:A2:89:VAL:HG13	1.86	0.58
3:A1:89:VAL:HG12	3:A2:89:VAL:HG22	1.85	0.58
3:BM:12:GLU:OE2	3:BN:104:ASN:ND2	2.36	0.58
3:Bl:108:MET:HE2	3:Bl:108:MET:HA	1.86	0.58
3:Bv:10:ASP:HB3	3:Bv:12:GLU:OE1	2.03	0.58
3:0:111:ASP:HB3	3:9:8:LEU:HD22	1.85	0.58
3:C:121:HIS:HA	3:C:124:ILE:HG12	1.85	0.58
3:O:122:ASP:OD1	3:O:126:ASN:ND2	2.27	0.58
3:M:6:LEU:HB3	3:M:20:PHE:HB2	1.83	0.58
3:An:108:MET:HA	3:An:108:MET:HE2	1.85	0.58
3:A1:61:LEU:HB2	3:A1:89:VAL:HG22	1.84	0.58
3:BM:66:PRO:HB3	3:BM:84:THR:HG22	1.85	0.58
3:Bm:118:MET:SD	3:Bn:4:GLN:NE2	2.76	0.58
3:U:31:GLU:HB3	3:U:46:THR:HG22	1.85	0.58
3:w:112:ALA:HB2	3:x:8:LEU:HD21	1.86	0.58
3:AA:20:PHE:HA	3:AA:34:GLU:HB2	1.86	0.58
3:AB:113:LEU:HD23	3:AB:113:LEU:H	1.68	0.58
3:Am:6:LEU:HB3	3:Am:20:PHE:HB2	1.86	0.58
3:Am:20:PHE:HB3	3:Am:32:VAL:HG22	1.85	0.58
3:Ap:108:MET:HE2	3:Ap:108:MET:HA	1.84	0.58
3:Av:20:PHE:HB3	3:Av:32:VAL:HG11	1.86	0.58
3:BG:7:VAL:HG13	3:BG:17:ASP:HB2	1.85	0.58
3:Bw:3:LEU:HB2	3:Bx:130:VAL:HG23	1.86	0.58
3:Bx:35:SER:HA	3:Bx:42:GLU:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B6:118:MET:SD	3:B6:118:MET:N	2.76	0.58
3:CK:108:MET:HE2	3:CK:108:MET:HA	1.84	0.58
3:j:76:ILE:HD11	3:BF:69:GLN:HG3	1.85	0.58
3:y:68:VAL:HG12	3:y:81:VAL:HG22	1.85	0.58
3:z:71:GLN:HE21	3:z:78:THR:HB	1.68	0.58
3:AU:32:VAL:HG13	3:AU:45:PHE:HB3	1.84	0.58
3:Ah:38:VAL:HG13	3:Ah:40:ILE:HG22	1.85	0.58
3:Aw:29:VAL:HG22	3:Aw:48:SER:HB3	1.86	0.58
3:Az:40:ILE:HG22	3:Az:68:VAL:HG22	1.86	0.58
3:A6:122:ASP:HB3	3:A6:128:GLN:HG3	1.86	0.58
3:BJ:6:LEU:O	3:BJ:20:PHE:N	2.33	0.58
3:BN:122:ASP:O	3:BN:128:GLN:N	2.32	0.58
3:BV:108:MET:HE2	3:BV:108:MET:HA	1.85	0.58
3:CD:122:ASP:HA	3:CD:126:ASN:HB2	1.86	0.58
3:CN:41:GLY:HA2	3:CN:66:PRO:CG	2.34	0.58
3:CO:101:GLU:OE2	3:CP:83:ARG:NH2	2.33	0.58
3:CR:38:VAL:HG22	3:CR:40:ILE:HG12	1.84	0.58
3:CS:111:ASP:OD2	3:CT:9:LYS:N	2.35	0.58
3:6:110:ALA:HA	3:6:113:LEU:HD23	1.83	0.58
3:A:38:VAL:HG12	3:A:40:ILE:HG12	1.85	0.58
3:P:113:LEU:HD23	3:P:113:LEU:H	1.69	0.58
3:Y:9:LYS:HE2	3:Y:9:LYS:HA	1.86	0.58
3:u:37:GLY:HA3	3:w:99:THR:H	1.67	0.58
3:w:118:MET:SD	3:w:118:MET:N	2.75	0.58
3:H:11:ARG:NH2	3:H:113:LEU:O	2.36	0.58
3:AV:10:ASP:HB3	3:AV:12:GLU:OE1	2.04	0.58
3:AX:36:THR:OG1	3:AX:37:GLY:N	2.37	0.58
3:Ad:32:VAL:HB	3:Ad:45:PHE:HB3	1.86	0.58
3:Ak:118:MET:N	3:Ak:118:MET:SD	2.77	0.58
3:Av:25:ILE:HG13	3:Av:30:GLY:HA2	1.86	0.58
3:BJ:108:MET:HE2	3:BJ:108:MET:HA	1.86	0.58
3:BR:108:MET:HE2	3:BR:108:MET:HA	1.84	0.58
3:Bi:117:LYS:HD2	3:Bj:6:LEU:HD11	1.86	0.58
3:Bk:66:PRO:HA	3:Bk:84:THR:HG22	1.85	0.58
3:B7:47:ILE:HD13	3:B7:61:LEU:HG	1.85	0.58
3:B9:11:ARG:NH1	3:B9:114:LYS:O	2.37	0.58
3:CB:38:VAL:HG22	3:CB:40:ILE:HG22	1.85	0.58
3:CR:113:LEU:HD23	3:CR:113:LEU:H	1.69	0.58
3:CS:104:ASN:ND2	3:CT:11:ARG:O	2.36	0.58
3:C:122:ASP:HB3	3:D:1:ALA:HB2	1.86	0.58
3:E:110:ALA:HB2	3:Bb:113:LEU:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:23:ARG:HD2	3:R:33:VAL:HG21	1.86	0.58
3:Z:36:THR:OG1	3:Z:37:GLY:N	2.36	0.58
3:q:68:VAL:HG12	3:q:81:VAL:HA	1.86	0.58
3:Ai:36:THR:OG1	3:Ai:37:GLY:N	2.36	0.58
3:Am:4:GLN:HE21	3:An:119:LEU:HB2	1.68	0.58
3:An:35:SER:HB2	3:An:42:GLU:HB3	1.86	0.58
3:As:12:GLU:OE2	3:At:104:ASN:ND2	2.36	0.58
3:A3:8:LEU:HD22	3:A4:112:ALA:HA	1.86	0.58
3:BC:25:ILE:HD13	3:BD:130:VAL:HG12	1.86	0.58
3:BV:31:GLU:OE2	3:BV:44:ARG:NH1	2.33	0.58
3:Bx:113:LEU:HB3	3:Bx:120:VAL:HG11	1.86	0.58
3:C:61:LEU:HD21	3:D:124:ILE:HD11	1.86	0.58
3:Q:36:THR:OG1	3:Q:37:GLY:N	2.33	0.58
3:d:32:VAL:HG22	3:d:45:PHE:HB3	1.84	0.58
3:AT:108:MET:HE2	3:AT:108:MET:HA	1.86	0.58
3:Aa:73:VAL:HG22	3:B3:74:ASN:HB3	1.86	0.58
3:Ad:98:THR:O	3:Ad:102:ARG:NE	2.36	0.58
3:Ae:49:LEU:HD13	3:Ae:59:SER:HB3	1.85	0.58
3:BN:61:LEU:N	3:BN:89:VAL:O	2.35	0.58
3:Bc:118:MET:HB2	3:Bd:4:GLN:HE22	1.68	0.58
3:B3:1:ALA:N	3:B4:129:GLY:O	2.37	0.58
3:4:76:ILE:HD11	3:CL:69:GLN:HG2	1.86	0.57
3:E:95:ALA:HB1	3:B4:40:ILE:HD11	1.85	0.57
3:R:82:VAL:HG23	3:R:83:ARG:HG2	1.86	0.57
3:f:118:MET:N	3:f:118:MET:SD	2.77	0.57
3:A5:22:PRO:HA	3:A5:32:VAL:HG12	1.84	0.57
3:A6:32:VAL:HG22	3:A6:45:PHE:HB3	1.86	0.57
3:A9:36:THR:OG1	3:A9:37:GLY:N	2.34	0.57
3:BC:8:LEU:HD22	3:BD:111:ASP:HB3	1.87	0.57
3:BP:10:ASP:HB3	3:BP:12:GLU:OE1	2.04	0.57
3:CB:10:ASP:HB3	3:CB:12:GLU:OE1	2.03	0.57
3:a:118:MET:SD	3:a:118:MET:N	2.77	0.57
3:I:38:VAL:HG12	3:I:40:ILE:HG12	1.86	0.57
3:K:36:THR:OG1	3:K:37:GLY:N	2.35	0.57
3:K:101:GLU:HG3	3:K:102:ARG:HD3	1.86	0.57
3:AP:82:VAL:HG23	3:AP:83:ARG:HG2	1.85	0.57
3:Af:99:THR:HA	3:Af:102:ARG:HE	1.69	0.57
3:Ap:35:SER:HA	3:Ap:42:GLU:HG3	1.86	0.57
3:At:118:MET:SD	3:At:118:MET:N	2.78	0.57
3:Ax:122:ASP:HB3	3:Ax:128:GLN:HG3	1.86	0.57
3:BO:25:ILE:HG23	3:BO:29:VAL:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BV:113:LEU:HD23	3:BV:113:LEU:H	1.69	0.57
3:Bc:118:MET:HE2	3:Bc:118:MET:HA	1.86	0.57
3:2:25:ILE:HD11	3:2:28:ASN:HA	1.87	0.57
3:P:98:THR:N	3:P:101:GLU:OE2	2.38	0.57
3:Y:40:ILE:HD12	3:CH:96:ARG:HG3	1.85	0.57
3:a:36:THR:OG1	3:a:37:GLY:N	2.35	0.57
3:f:82:VAL:HG23	3:f:83:ARG:HG2	1.86	0.57
3:y:101:GLU:OE2	3:z:83:ARG:NH2	2.37	0.57
3:AA:118:MET:N	3:AA:118:MET:SD	2.77	0.57
3:AV:52:THR:HG21	3:AV:56:ARG:HB2	1.85	0.57
3:Ad:9:LYS:HA	3:Ad:9:LYS:HE2	1.86	0.57
3:Bh:36:THR:OG1	3:Bh:37:GLY:N	2.35	0.57
3:Bn:72:THR:HA	3:Bn:77:VAL:HG22	1.84	0.57
3:CI:122:ASP:HA	3:CI:126:ASN:HB2	1.86	0.57
3:CK:117:LYS:NZ	3:CL:7:VAL:O	2.32	0.57
3:b:57:TYR:HE2	3:b:95:ALA:HA	1.69	0.57
3:q:38:VAL:HG12	3:q:40:ILE:HG12	1.86	0.57
3:AS:68:VAL:HG12	3:AS:81:VAL:HG22	1.86	0.57
3:AT:71:GLN:H	3:AT:77:VAL:HG13	1.70	0.57
3:Ad:113:LEU:HD23	3:Ad:113:LEU:H	1.68	0.57
3:Ae:66:PRO:HA	3:Ae:84:THR:HG22	1.87	0.57
3:Ah:108:MET:HE2	3:Ah:108:MET:HA	1.85	0.57
3:A2:57:TYR:HE2	3:A2:95:ALA:HA	1.68	0.57
3:BF:70:SER:HB2	3:BF:77:VAL:HB	1.86	0.57
3:BY:36:THR:OG1	3:BY:37:GLY:N	2.38	0.57
3:Bb:42:GLU:OE2	3:Bb:44:ARG:NH2	2.37	0.57
3:CM:66:PRO:HB3	3:CM:84:THR:HG22	1.85	0.57
3:0:22:PRO:HA	3:0:32:VAL:HA	1.85	0.57
3:6:40:ILE:HD11	3:AB:96:ARG:HG2	1.85	0.57
3:a:38:VAL:HG12	3:a:40:ILE:HG12	1.86	0.57
3:n:38:VAL:HG22	3:n:40:ILE:HG12	1.86	0.57
3:z:10:ASP:HB2	3:z:15:PRO:HB3	1.87	0.57
3:z:122:ASP:HA	3:z:126:ASN:HB2	1.87	0.57
3:AB:82:VAL:HG23	3:AB:83:ARG:HG2	1.86	0.57
3:AX:118:MET:SD	3:AX:118:MET:N	2.76	0.57
3:Ao:113:LEU:HD23	3:Ao:120:VAL:HG11	1.86	0.57
3:Av:38:VAL:HG22	3:Av:40:ILE:HG22	1.87	0.57
3:BK:89:VAL:HG12	3:BL:89:VAL:HA	1.87	0.57
3:Bg:68:VAL:HG11	3:Bg:79:PRO:HB2	1.87	0.57
3:Bm:20:PHE:HB3	3:Bm:32:VAL:HG22	1.87	0.57
3:Bz:82:VAL:HG23	3:Bz:83:ARG:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bz:122:ASP:HA	3:Bz:126:ASN:HB2	1.87	0.57
3:B2:38:VAL:HG11	3:B2:79:PRO:HG3	1.87	0.57
3:B9:62:LYS:NZ	3:B9:88:THR:OG1	2.38	0.57
3:CI:20:PHE:HB3	3:CI:32:VAL:HG22	1.86	0.57
3:B:20:PHE:HB3	3:B:32:VAL:HG11	1.87	0.57
3:T:41:GLY:HA2	3:T:66:PRO:HG2	1.87	0.57
3:J:40:ILE:HD11	3:J:81:VAL:HG23	1.87	0.57
3:J:47:ILE:HD12	3:J:61:LEU:HG	1.86	0.57
3:M:96:ARG:HA	3:BF:40:ILE:HD11	1.87	0.57
3:Ac:5:ASN:HB3	3:Ac:19:THR:HG23	1.86	0.57
3:Ad:40:ILE:HG22	3:Ad:68:VAL:HG21	1.86	0.57
3:A5:64:VAL:HG12	3:A5:66:PRO:HD3	1.85	0.57
3:BC:64:VAL:HG12	3:BC:66:PRO:HD3	1.86	0.57
3:BV:54:ASN:HD21	3:BV:56:ARG:HG2	1.70	0.57
3:CA:35:SER:HA	3:CA:42:GLU:HG2	1.85	0.57
3:CH:54:ASN:HD21	3:CH:56:ARG:HG2	1.69	0.57
3:a:4:GLN:HE21	3:b:119:LEU:HB2	1.68	0.57
3:v:98:THR:N	3:v:101:GLU:OE2	2.38	0.57
3:AA:108:MET:HE2	3:AA:108:MET:HA	1.87	0.57
3:AU:3:LEU:HD13	3:AU:25:ILE:HD11	1.86	0.57
3:AY:98:THR:HG22	3:B2:38:VAL:HB	1.85	0.57
3:Ax:108:MET:HE2	3:Ax:108:MET:HA	1.85	0.57
3:Az:61:LEU:HB2	3:Az:89:VAL:HB	1.86	0.57
3:Bd:23:ARG:HH21	3:Bd:33:VAL:HG11	1.69	0.57
3:By:61:LEU:HB2	3:By:89:VAL:HG22	1.86	0.57
3:CT:68:VAL:HG22	3:CT:81:VAL:HG22	1.87	0.57
3:CT:118:MET:SD	3:CT:118:MET:N	2.77	0.57
3:3:101:GLU:OE2	3:4:83:ARG:NH2	2.32	0.57
3:E:8:LEU:HD11	3:Bb:112:ALA:HA	1.86	0.57
3:Q:3:LEU:HD11	3:R:130:VAL:HG23	1.87	0.57
3:j:82:VAL:HG23	3:j:83:ARG:HG2	1.86	0.57
3:q:9:LYS:N	3:r:111:ASP:OD2	2.38	0.57
3:w:96:ARG:NH2	3:x:82:VAL:O	2.38	0.57
3:y:96:ARG:HG3	3:Az:79:PRO:HG2	1.85	0.57
3:AS:61:LEU:HB2	3:AS:89:VAL:HG22	1.85	0.57
3:Ay:8:LEU:HB3	3:Az:108:MET:HE1	1.86	0.57
3:A1:32:VAL:HG13	3:A1:45:PHE:HB3	1.85	0.57
3:A0:45:PHE:HD1	3:A0:63:LEU:HD13	1.68	0.57
3:BA:47:ILE:HD13	3:BA:61:LEU:HG	1.86	0.57
3:BQ:117:LYS:HZ1	3:BR:6:LEU:HD11	1.69	0.57
3:CD:118:MET:N	3:CD:118:MET:SD	2.76	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:20:PHE:HE1	3:CH:43:SER:HB2	1.70	0.57
3:O:44:ARG:HH21	3:O:64:VAL:HG21	1.68	0.57
3:Q:118:MET:SD	3:Q:118:MET:N	2.76	0.57
3:W:112:ALA:HB2	3:X:8:LEU:HD21	1.87	0.57
3:w:26:ARG:HH22	3:AZ:51:LYS:HB3	1.70	0.57
3:w:108:MET:HA	3:w:108:MET:HE2	1.86	0.57
3:G:112:ALA:HB2	3:H:8:LEU:HD11	1.86	0.57
3:Am:129:GLY:O	3:An:1:ALA:N	2.38	0.57
3:Ap:38:VAL:HG21	3:Ap:79:PRO:HG3	1.85	0.57
3:Ar:31:GLU:OE2	3:Ar:44:ARG:NH1	2.37	0.57
3:Az:63:LEU:HB3	3:Az:87:VAL:HG21	1.87	0.57
3:A8:98:THR:N	3:A8:101:GLU:OE2	2.38	0.57
3:A9:38:VAL:HG22	3:A9:40:ILE:HG12	1.86	0.57
3:BL:82:VAL:HG23	3:BL:83:ARG:HG2	1.87	0.57
3:B9:61:LEU:HB2	3:B9:89:VAL:HG23	1.87	0.57
3:CO:23:ARG:HH11	3:CO:23:ARG:HA	1.70	0.57
3:X:98:THR:N	3:X:101:GLU:OE2	2.38	0.57
3:BF:47:ILE:HD12	3:BF:61:LEU:HG	1.85	0.57
3:BG:3:LEU:HD11	3:BH:130:VAL:HG23	1.86	0.57
3:CA:11:ARG:HH22	3:CA:114:LYS:HA	1.69	0.57
1:F:284:MET:SD	1:F:359:ASN:ND2	2.78	0.56
3:b:52:THR:HG21	3:b:56:ARG:HB2	1.86	0.56
3:AS:20:PHE:HB3	3:AS:32:VAL:HG22	1.86	0.56
3:AS:47:ILE:HG22	3:AS:61:LEU:HG	1.87	0.56
3:AZ:108:MET:HE2	3:AZ:108:MET:HA	1.85	0.56
3:Ag:10:ASP:OD2	3:Ah:104:ASN:ND2	2.37	0.56
3:Av:98:THR:HB	3:Av:101:GLU:OE1	2.05	0.56
3:Bl:82:VAL:HG23	3:Bl:83:ARG:HG2	1.87	0.56
3:CM:32:VAL:HG13	3:CM:45:PHE:HB3	1.87	0.56
3:0:4:GLN:HE21	3:9:119:LEU:HB2	1.70	0.56
3:8:118:MET:HE2	3:8:118:MET:HA	1.86	0.56
3:j:113:LEU:HD23	3:j:113:LEU:H	1.69	0.56
3:n:33:VAL:HG13	3:n:42:GLU:HB3	1.87	0.56
3:t:32:VAL:HG22	3:t:45:PHE:HB3	1.86	0.56
3:y:32:VAL:HG12	3:y:45:PHE:HB3	1.86	0.56
3:AR:36:THR:OG1	3:AR:37:GLY:N	2.33	0.56
3:AS:12:GLU:OE2	3:AT:104:ASN:ND2	2.37	0.56
3:Af:78:THR:HA	3:B3:96:ARG:HH22	1.70	0.56
3:Ag:108:MET:HE2	3:Ag:108:MET:HA	1.86	0.56
3:BA:20:PHE:HA	3:BA:34:GLU:HB3	1.88	0.56
3:BS:40:ILE:HG21	3:BS:79:PRO:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B8:113:LEU:HD23	3:B8:113:LEU:H	1.69	0.56
3:CR:33:VAL:HG22	3:CR:44:ARG:HG2	1.86	0.56
3:T:108:MET:HA	3:T:108:MET:HE2	1.86	0.56
3:f:73:VAL:O	3:f:76:ILE:HG12	2.05	0.56
3:h:108:MET:HE2	3:h:108:MET:HA	1.87	0.56
3:u:121:HIS:HA	3:u:124:ILE:HG22	1.88	0.56
3:v:11:ARG:NH2	3:v:114:LYS:O	2.39	0.56
3:AO:66:PRO:HA	3:AO:84:THR:HG22	1.87	0.56
3:AT:63:LEU:HB3	3:AT:87:VAL:HG21	1.85	0.56
3:Ac:25:ILE:HG22	3:Ac:30:GLY:HA2	1.86	0.56
3:Aq:10:ASP:OD1	3:Ar:104:ASN:ND2	2.38	0.56
3:Au:103:ASN:OD1	3:Av:11:ARG:NH1	2.37	0.56
3:Ax:36:THR:OG1	3:Ax:37:GLY:N	2.33	0.56
3:Az:113:LEU:HD23	3:Az:113:LEU:H	1.70	0.56
3:BF:23:ARG:HB2	3:BF:33:VAL:HG23	1.87	0.56
3:BF:113:LEU:HD23	3:BF:113:LEU:H	1.69	0.56
3:BI:131:TYR:HB2	3:CC:25:ILE:HD11	1.87	0.56
3:BM:20:PHE:HB3	3:BM:32:VAL:HG22	1.88	0.56
3:BN:47:ILE:HD12	3:BN:61:LEU:HG	1.87	0.56
3:BN:82:VAL:HG23	3:BN:83:ARG:HG2	1.87	0.56
3:BR:52:THR:OG1	3:BR:53:SER:N	2.38	0.56
3:BR:113:LEU:HD23	3:BR:113:LEU:H	1.71	0.56
3:Bx:20:PHE:HA	3:Bx:34:GLU:HG3	1.87	0.56
3:B3:119:LEU:HD11	3:B4:3:LEU:HD12	1.87	0.56
3:B5:36:THR:OG1	3:B5:37:GLY:N	2.38	0.56
3:B5:101:GLU:OE2	3:B6:83:ARG:NH2	2.39	0.56
3:B8:82:VAL:HG23	3:B8:83:ARG:HG2	1.86	0.56
3:B9:111:ASP:HB3	3:B0:8:LEU:HD23	1.86	0.56
3:5:118:MET:N	3:5:118:MET:SD	2.77	0.56
3:g:23:ARG:HH21	3:g:33:VAL:HG11	1.70	0.56
3:l:33:VAL:HG13	3:l:42:GLU:HG3	1.87	0.56
3:AW:86:TYR:HB2	3:AX:92:ASP:HB3	1.87	0.56
3:As:20:PHE:HB3	3:As:32:VAL:HG22	1.88	0.56
3:A5:3:LEU:HD23	3:A6:119:LEU:HD11	1.88	0.56
3:A6:33:VAL:HG13	3:A6:42:GLU:HG3	1.88	0.56
3:BH:23:ARG:HB3	3:BH:31:GLU:HG3	1.87	0.56
3:BO:52:THR:HG21	3:BO:58:LYS:HZ3	1.71	0.56
3:Bh:99:THR:OG1	3:Bh:102:ARG:NH2	2.39	0.56
3:B7:108:MET:HE2	3:B7:108:MET:HA	1.86	0.56
3:CB:7:VAL:HG12	3:CB:19:THR:HA	1.88	0.56
3:CP:122:ASP:O	3:CP:128:GLN:N	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:10:ASP:HB3	3:4:12:GLU:OE1	2.05	0.56
3:i:89:VAL:HG12	3:j:89:VAL:HG13	1.88	0.56
3:Ag:131:TYR:HB2	3:CQ:25:ILE:HD11	1.87	0.56
3:Au:40:ILE:HD11	3:Aw:96:ARG:HG2	1.86	0.56
3:A6:108:MET:HE2	3:A6:108:MET:HA	1.88	0.56
3:BO:111:ASP:O	3:BO:114:LYS:NZ	2.32	0.56
3:BQ:47:ILE:HD13	3:BQ:61:LEU:HG	1.87	0.56
3:CQ:127:LEU:HD12	3:CR:49:LEU:HD21	1.86	0.56
3:8:82:VAL:HG23	3:8:83:ARG:HG2	1.87	0.56
3:D:22:PRO:HA	3:D:32:VAL:HA	1.87	0.56
3:T:9:LYS:HE2	3:T:9:LYS:HA	1.88	0.56
3:a:129:GLY:O	3:b:1:ALA:N	2.39	0.56
3:e:71:GLN:HB3	3:l:76:ILE:HD11	1.88	0.56
3:AP:20:PHE:HB3	3:AP:32:VAL:HG11	1.88	0.56
3:AP:52:THR:HG21	3:AP:56:ARG:HB2	1.88	0.56
3:AS:10:ASP:HB3	3:AS:16:ASN:HB2	1.86	0.56
3:Al:38:VAL:HG12	3:Al:40:ILE:HG22	1.88	0.56
3:BS:97:SER:HB2	3:BS:101:GLU:OE2	2.06	0.56
3:Bg:33:VAL:HG13	3:Bg:42:GLU:HG3	1.86	0.56
3:B5:33:VAL:HB	3:B5:42:GLU:HG3	1.87	0.56
3:CB:31:GLU:HA	3:CB:46:THR:HA	1.88	0.56
3:CB:64:VAL:HG13	3:CB:85:SER:O	2.06	0.56
3:CN:57:TYR:HE2	3:CN:95:ALA:HA	1.69	0.56
3:B:26:ARG:HH22	3:B5:27:ASP:HA	1.71	0.56
3:E:102:ARG:HD2	3:Bb:127:LEU:HD11	1.88	0.56
3:g:57:TYR:HE2	3:g:95:ALA:HA	1.71	0.56
3:w:23:ARG:HH21	3:w:33:VAL:HG11	1.70	0.56
3:z:38:VAL:HG22	3:z:40:ILE:HG12	1.86	0.56
3:G:101:GLU:OE2	3:H:83:ARG:NH2	2.34	0.56
3:J:82:VAL:HG23	3:J:83:ARG:HG2	1.87	0.56
3:AA:66:PRO:HA	3:AA:84:THR:HG22	1.87	0.56
3:AQ:101:GLU:OE2	3:AR:83:ARG:NH2	2.33	0.56
3:Am:121:HIS:HA	3:Am:124:ILE:HG12	1.88	0.56
3:As:32:VAL:HG13	3:As:45:PHE:HB3	1.87	0.56
3:A4:63:LEU:HB3	3:A4:87:VAL:HG21	1.87	0.56
3:BG:8:LEU:HD11	3:BH:112:ALA:HA	1.86	0.56
3:Bk:122:ASP:OD1	3:Bk:126:ASN:ND2	2.34	0.56
3:Bz:52:THR:OG1	3:Bz:53:SER:N	2.39	0.56
3:B9:52:THR:OG1	3:B9:56:ARG:N	2.38	0.56
3:CO:5:ASN:HB3	3:CO:19:THR:HG23	1.87	0.56
3:CQ:9:LYS:NZ	3:CQ:17:ASP:OD1	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:l:6:LEU:O	3:l:20:PHE:N	2.29	0.56
3:y:38:VAL:HG12	3:y:40:ILE:HG12	1.88	0.56
3:N:108:MET:HE2	3:N:108:MET:HA	1.86	0.56
3:AC:8:LEU:HD23	3:AC:20:PHE:HE2	1.70	0.56
3:AS:6:LEU:HB3	3:AS:20:PHE:HB2	1.88	0.56
3:Aa:83:ARG:NH2	3:Ab:101:GLU:OE2	2.38	0.56
3:Ai:104:ASN:ND2	3:Aj:12:GLU:OE2	2.38	0.56
3:BR:40:ILE:HG21	3:BR:68:VAL:HG11	1.87	0.56
3:Bl:122:ASP:O	3:Bl:128:GLN:N	2.33	0.56
3:B8:61:LEU:N	3:B8:89:VAL:O	2.30	0.56
3:7:61:LEU:HB2	3:7:89:VAL:HG22	1.88	0.56
3:D:25:ILE:O	3:R:28:ASN:ND2	2.31	0.56
3:S:20:PHE:HB3	3:S:32:VAL:HG22	1.88	0.56
3:c:32:VAL:HG22	3:c:45:PHE:HB3	1.88	0.56
3:s:68:VAL:HG22	3:s:81:VAL:HG22	1.88	0.56
3:w:51:LYS:HZ1	3:w:55:GLY:HA2	1.70	0.56
3:J:108:MET:HE2	3:J:108:MET:HA	1.86	0.56
3:AV:82:VAL:HG23	3:AV:83:ARG:HG2	1.87	0.56
3:Aa:9:LYS:N	3:Ab:111:ASP:OD2	2.33	0.56
3:Ah:36:THR:OG1	3:Ah:37:GLY:N	2.33	0.56
3:BB:61:LEU:HB2	3:BB:89:VAL:HB	1.88	0.56
3:BB:69:GLN:HE21	3:Bz:73:VAL:HG11	1.70	0.56
3:BD:105:PHE:HA	3:BD:108:MET:HE2	1.88	0.56
3:BS:50:ARG:HH11	3:BS:58:LYS:HD2	1.71	0.56
3:BV:118:MET:SD	3:CI:4:GLN:NE2	2.78	0.56
3:BY:32:VAL:HG22	3:BY:45:PHE:HB3	1.86	0.56
3:Bb:82:VAL:HG23	3:Bb:83:ARG:HG2	1.87	0.56
3:Bm:38:VAL:HG12	3:Bm:40:ILE:HG12	1.88	0.56
3:By:117:LYS:NZ	3:Bz:7:VAL:O	2.32	0.56
3:B8:9:LYS:HE2	3:B8:9:LYS:HA	1.88	0.56
3:B0:35:SER:HB2	3:B0:42:GLU:CB	2.36	0.56
3:E:68:VAL:HG12	3:E:81:VAL:HG22	1.87	0.56
3:a:66:PRO:HB3	3:a:84:THR:HG22	1.88	0.56
3:s:110:ALA:HB2	3:t:113:LEU:HG	1.88	0.56
3:t:121:HIS:HA	3:t:124:ILE:HG22	1.88	0.56
3:Ac:68:VAL:HG12	3:Ac:81:VAL:HG22	1.88	0.56
3:Ag:9:LYS:HA	3:Ag:9:LYS:HE2	1.88	0.56
3:Ai:89:VAL:HG12	3:Aj:89:VAL:HG22	1.87	0.56
3:A8:9:LYS:HE2	3:A8:15:PRO:HB2	1.87	0.56
3:A8:98:THR:HB	3:A8:101:GLU:OE1	2.06	0.56
3:BI:130:VAL:HG21	3:BJ:47:ILE:HG23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B7:4:GLN:NE2	3:B8:118:MET:SD	2.79	0.56
3:CM:106:VAL:HG13	3:CN:113:LEU:HD12	1.88	0.56
3:5:23:ARG:HE	3:5:33:VAL:HG21	1.71	0.55
3:6:50:ARG:HD3	3:6:58:LYS:HE3	1.88	0.55
3:B:96:ARG:HH11	3:Bd:40:ILE:HD13	1.70	0.55
3:R:98:THR:HB	3:R:101:GLU:HG2	1.88	0.55
3:U:117:LYS:HD2	3:V:6:LEU:HD11	1.88	0.55
3:b:33:VAL:HG13	3:b:42:GLU:HG3	1.88	0.55
3:e:39:PRO:HG2	3:h:127:LEU:HD12	1.87	0.55
3:g:119:LEU:HD12	3:h:4:GLN:HG3	1.87	0.55
3:k:38:VAL:HG12	3:k:40:ILE:HG12	1.88	0.55
3:N:118:MET:SD	3:N:118:MET:N	2.78	0.55
3:AC:25:ILE:O	3:AP:28:ASN:ND2	2.39	0.55
3:AV:76:ILE:HD13	3:Bz:69:GLN:HE21	1.71	0.55
3:Am:117:LYS:HD2	3:An:6:LEU:HD11	1.88	0.55
3:Aw:20:PHE:HB3	3:Aw:32:VAL:HB	1.87	0.55
3:A2:73:VAL:N	3:A2:76:ILE:O	2.32	0.55
3:A5:45:PHE:HD1	3:A5:63:LEU:HD13	1.71	0.55
3:A7:90:ASP:OD1	3:A8:88:THR:OG1	2.22	0.55
3:BV:124:ILE:HG23	3:BV:125:VAL:HG23	1.88	0.55
3:Bn:46:THR:HB	3:Bn:62:LYS:CG	2.36	0.55
3:Bn:105:PHE:HA	3:Bn:108:MET:HE2	1.87	0.55
3:Bw:47:ILE:HD13	3:Bw:61:LEU:HG	1.87	0.55
3:Bw:111:ASP:OD2	3:Bx:9:LYS:N	2.31	0.55
3:B5:9:LYS:HE2	3:B5:9:LYS:HA	1.87	0.55
3:CL:70:SER:HB3	3:CL:77:VAL:CG2	2.36	0.55
3:CO:100:LYS:HE2	3:CO:100:LYS:HA	1.88	0.55
3:1:36:THR:OG1	3:1:37:GLY:N	2.39	0.55
3:6:44:ARG:HG2	3:6:64:VAL:HB	1.88	0.55
3:W:110:ALA:HB2	3:X:113:LEU:HD11	1.89	0.55
3:b:98:THR:N	3:b:101:GLU:OE2	2.40	0.55
3:d:108:MET:HA	3:d:108:MET:HE2	1.88	0.55
3:e:36:THR:OG1	3:e:37:GLY:N	2.39	0.55
3:o:119:LEU:HB2	3:p:4:GLN:HE21	1.71	0.55
3:AO:23:ARG:HE	3:AO:33:VAL:HG21	1.72	0.55
3:Al:51:LYS:HZ1	3:Al:55:GLY:HA2	1.71	0.55
3:A9:52:THR:HB	3:A9:56:ARG:H	1.71	0.55
3:BA:3:LEU:HD22	3:BA:22:PRO:HB3	1.86	0.55
3:BB:23:ARG:HH11	3:BB:33:VAL:HB	1.69	0.55
3:BJ:33:VAL:HG13	3:BJ:42:GLU:HG3	1.87	0.55
3:BL:33:VAL:HG13	3:BL:42:GLU:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bb:52:THR:OG1	3:Bb:53:SER:N	2.39	0.55
3:B1:33:VAL:HG12	3:B1:44:ARG:HA	1.87	0.55
3:E:38:VAL:HG12	3:E:40:ILE:HG12	1.87	0.55
3:X:98:THR:HB	3:X:101:GLU:OE1	2.07	0.55
3:h:29:VAL:HG22	3:h:48:SER:HB3	1.87	0.55
3:z:23:ARG:O	3:BL:128:GLN:NE2	2.39	0.55
3:AS:71:GLN:NE2	3:AS:78:THR:O	2.38	0.55
3:AV:35:SER:HA	3:AV:42:GLU:HG2	1.89	0.55
3:Ao:89:VAL:HG11	3:Ap:89:VAL:HG13	1.87	0.55
3:Av:25:ILE:HG23	3:Av:29:VAL:H	1.71	0.55
3:Az:32:VAL:HB	3:Az:45:PHE:HB3	1.87	0.55
3:A4:70:SER:HB2	3:A4:77:VAL:HG13	1.88	0.55
3:A4:77:VAL:HG12	3:A4:79:PRO:HD3	1.89	0.55
3:A0:20:PHE:HB3	3:A0:32:VAL:HG11	1.88	0.55
3:BR:25:ILE:HG13	3:BR:30:GLY:HA2	1.88	0.55
3:Bu:108:MET:HE2	3:Bu:108:MET:HA	1.86	0.55
3:B1:61:LEU:HB2	3:B1:89:VAL:HG23	1.88	0.55
3:W:7:VAL:O	3:X:117:LYS:NZ	2.32	0.55
3:d:9:LYS:HE2	3:d:9:LYS:HA	1.88	0.55
3:h:44:ARG:HG2	3:h:64:VAL:HB	1.88	0.55
3:Ai:20:PHE:HB3	3:Ai:32:VAL:HG22	1.88	0.55
3:Ao:20:PHE:HB3	3:Ao:32:VAL:HG22	1.89	0.55
3:A4:23:ARG:HD2	3:A4:33:VAL:HG21	1.86	0.55
3:BD:82:VAL:HG23	3:BD:83:ARG:HG2	1.87	0.55
3:BF:54:ASN:HD21	3:BF:56:ARG:HG2	1.72	0.55
3:BG:44:ARG:N	3:BG:64:VAL:HB	2.21	0.55
3:Bn:10:ASP:HB3	3:Bn:12:GLU:OE1	2.07	0.55
3:B3:99:THR:OG1	3:B3:102:ARG:NH2	2.39	0.55
3:CM:25:ILE:HG22	3:CM:30:GLY:HA2	1.89	0.55
3:CM:61:LEU:HD13	3:CM:89:VAL:HG23	1.87	0.55
3:CS:121:HIS:HA	3:CS:124:ILE:HG22	1.89	0.55
3:D:98:THR:N	3:D:101:GLU:OE2	2.34	0.55
3:O:58:LYS:HG2	3:O:92:ASP:HB3	1.88	0.55
3:n:38:VAL:HG11	3:n:79:PRO:HG3	1.88	0.55
3:AC:104:ASN:ND2	3:AD:10:ASP:OD1	2.39	0.55
3:Ag:114:LYS:HZ1	3:Ag:117:LYS:HE3	1.71	0.55
3:Ai:46:THR:HB	3:Ai:62:LYS:HB2	1.87	0.55
3:Ap:69:GLN:HG3	3:CN:76:ILE:HD11	1.88	0.55
3:Ar:62:LYS:HA	3:Ar:62:LYS:HE2	1.88	0.55
3:At:52:THR:OG1	3:At:53:SER:N	2.34	0.55
3:A7:36:THR:OG1	3:A7:37:GLY:N	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bk:108:MET:HE2	3:Bk:108:MET:HA	1.87	0.55
3:Bn:35:SER:HA	3:Bn:42:GLU:HG2	1.88	0.55
3:B4:57:TYR:O	3:B4:93:TYR:N	2.38	0.55
3:CL:7:VAL:HG12	3:CL:19:THR:HA	1.88	0.55
3:0:122:ASP:HA	3:0:126:ASN:HD22	1.71	0.55
3:E:111:ASP:OD2	3:Bb:9:LYS:N	2.33	0.55
3:f:63:LEU:O	3:f:87:VAL:HG22	2.07	0.55
3:i:41:GLY:HA3	3:i:68:VAL:HG11	1.88	0.55
3:o:118:MET:SD	3:o:118:MET:N	2.77	0.55
3:w:40:ILE:HD12	3:AZ:96:ARG:HG2	1.89	0.55
3:z:68:VAL:HG22	3:z:81:VAL:HG22	1.86	0.55
3:H:23:ARG:HH21	3:H:33:VAL:HG11	1.72	0.55
3:I:8:LEU:HD11	3:J:112:ALA:HA	1.88	0.55
3:Ah:62:LYS:HE3	3:Ah:88:THR:HG23	1.88	0.55
3:A5:9:LYS:N	3:A6:111:ASP:OD2	2.39	0.55
3:A5:111:ASP:OD2	3:A6:9:LYS:N	2.39	0.55
3:A9:105:PHE:HA	3:A9:108:MET:HE2	1.88	0.55
3:BE:7:VAL:HG22	3:BE:19:THR:HA	1.89	0.55
3:BG:23:ARG:HB2	3:BG:33:VAL:HG22	1.89	0.55
3:BQ:120:VAL:O	3:BQ:124:ILE:HG22	2.07	0.55
3:BS:99:THR:OG1	3:BS:102:ARG:NH2	2.39	0.55
3:Bv:68:VAL:HG11	3:Bv:79:PRO:HB2	1.88	0.55
3:By:7:VAL:O	3:Bz:117:LYS:NZ	2.30	0.55
3:B8:52:THR:HG21	3:B8:56:ARG:HB2	1.89	0.55
3:CD:33:VAL:HG13	3:CD:42:GLU:HB3	1.88	0.55
3:CI:3:LEU:HD22	3:CI:25:ILE:HD11	1.88	0.55
3:CS:38:VAL:HG12	3:CS:40:ILE:H	1.71	0.55
3:5:89:VAL:HG13	3:6:89:VAL:HG22	1.89	0.55
3:8:62:LYS:HE3	3:8:88:THR:HG22	1.89	0.55
3:T:52:THR:OG1	3:T:53:SER:N	2.38	0.55
3:W:66:PRO:HA	3:W:84:THR:HG22	1.87	0.55
3:X:77:VAL:HG12	3:X:79:PRO:HD3	1.89	0.55
3:h:32:VAL:HG22	3:h:45:PHE:HB3	1.88	0.55
3:j:124:ILE:HG23	3:j:125:VAL:HG23	1.89	0.55
3:k:118:MET:SD	3:k:118:MET:N	2.78	0.55
3:m:47:ILE:HD12	3:m:61:LEU:HD21	1.88	0.55
3:v:70:SER:HB2	3:v:77:VAL:HG13	1.88	0.55
3:AQ:64:VAL:HG12	3:AQ:66:PRO:HD3	1.89	0.55
3:AV:20:PHE:HA	3:AV:34:GLU:OE1	2.07	0.55
3:Aa:68:VAL:HG22	3:Aa:81:VAL:HG22	1.88	0.55
3:Ae:7:VAL:HG13	3:Ae:17:ASP:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Al:35:SER:HB3	3:Al:42:GLU:HB3	1.89	0.55
3:Am:89:VAL:HG12	3:An:89:VAL:HG13	1.88	0.55
3:As:121:HIS:HA	3:As:124:ILE:HG22	1.89	0.55
3:Aw:86:TYR:HB2	3:Ax:92:ASP:HB3	1.89	0.55
3:BA:7:VAL:HG13	3:BA:17:ASP:HB2	1.88	0.55
3:BG:124:ILE:HG23	3:BG:125:VAL:HG23	1.89	0.55
3:BH:10:ASP:HB3	3:BH:12:GLU:OE1	2.06	0.55
3:BJ:25:ILE:O	3:BN:28:ASN:ND2	2.33	0.55
3:Bi:104:ASN:ND2	3:Bj:10:ASP:OD1	2.39	0.55
3:Bx:68:VAL:HG11	3:Bx:79:PRO:HB2	1.88	0.55
3:B1:112:ALA:HA	3:B1:117:LYS:HE2	1.87	0.55
3:CH:52:THR:HG21	3:CH:56:ARG:HB2	1.89	0.55
3:CI:32:VAL:CG1	3:CI:45:PHE:HB3	2.37	0.55
3:4:38:VAL:HG22	3:4:40:ILE:HG12	1.87	0.55
3:C:89:VAL:HG22	3:D:89:VAL:HG13	1.89	0.55
3:P:98:THR:HB	3:P:101:GLU:OE1	2.07	0.55
3:V:36:THR:OG1	3:V:37:GLY:N	2.34	0.55
3:j:24:ASP:HB3	3:BF:129:GLY:HA3	1.88	0.55
3:r:82:VAL:HG23	3:r:83:ARG:HG2	1.89	0.55
3:Ai:129:GLY:O	3:Aj:1:ALA:N	2.40	0.55
3:Am:3:LEU:HB2	3:An:130:VAL:CG2	2.37	0.55
3:Ao:26:ARG:HA	3:Ao:26:ARG:HH11	1.72	0.55
3:Ap:73:VAL:H	3:Ap:76:ILE:HG12	1.70	0.55
3:A9:4:GLN:HE22	3:A0:119:LEU:HB2	1.71	0.55
3:BQ:89:VAL:HG12	3:BR:89:VAL:HG22	1.88	0.55
3:BV:122:ASP:O	3:BV:126:ASN:HB2	2.07	0.55
3:Bk:6:LEU:HB3	3:Bk:20:PHE:HB2	1.89	0.55
3:Bn:82:VAL:HG23	3:Bn:83:ARG:HG2	1.88	0.55
3:Bv:29:VAL:HG13	3:Bv:48:SER:HB3	1.88	0.55
3:Bv:82:VAL:HG23	3:Bv:83:ARG:HG2	1.88	0.55
3:Bw:63:LEU:HD21	3:Bx:108:MET:HB3	1.89	0.55
3:B4:82:VAL:HG23	3:B4:83:ARG:HG2	1.89	0.55
3:B9:118:MET:SD	3:B0:4:GLN:NE2	2.79	0.55
3:CN:71:GLN:H	3:CN:77:VAL:HG13	1.71	0.55
3:T:32:VAL:CG1	3:T:45:PHE:HB3	2.36	0.55
3:p:100:LYS:HA	3:p:100:LYS:HE2	1.88	0.55
3:r:118:MET:SD	3:r:118:MET:N	2.78	0.55
3:AC:114:LYS:HB3	3:AC:117:LYS:HG2	1.89	0.55
3:AZ:40:ILE:CG2	3:AZ:68:VAL:HG21	2.36	0.55
3:Ap:77:VAL:HG12	3:Ap:79:PRO:HD3	1.89	0.55
3:At:124:ILE:HG23	3:At:125:VAL:HG23	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:111:ASP:OD2	3:BJ:9:LYS:N	2.38	0.55
3:BL:70:SER:HB2	3:BL:77:VAL:HG13	1.87	0.55
3:BN:32:VAL:O	3:BN:44:ARG:HA	2.06	0.55
3:Bx:38:VAL:HG22	3:Bx:40:ILE:HG22	1.87	0.55
3:CL:56:ARG:NH1	3:CL:94:ASP:OD1	2.40	0.55
3:CQ:97:SER:O	3:CQ:102:ARG:NH1	2.39	0.55
3:CT:20:PHE:HB3	3:CT:32:VAL:HG21	1.88	0.55
3:6:3:LEU:HD13	3:6:25:ILE:HD11	1.88	0.55
3:c:64:VAL:HG12	3:c:66:PRO:HD3	1.89	0.55
3:d:29:VAL:HG13	3:d:48:SER:HB3	1.87	0.55
3:I:122:ASP:O	3:I:127:LEU:N	2.39	0.55
3:J:20:PHE:HB3	3:J:32:VAL:HG11	1.87	0.55
3:A8:31:GLU:HB3	3:A8:46:THR:HA	1.87	0.55
3:BF:122:ASP:HA	3:BF:126:ASN:HB2	1.89	0.55
3:BO:36:THR:OG1	3:BO:37:GLY:N	2.36	0.55
3:Bj:73:VAL:HB	3:Bj:76:ILE:HD11	1.89	0.55
3:Bv:46:THR:HB	3:Bv:62:LYS:HB2	1.89	0.55
3:B8:71:GLN:H	3:B8:77:VAL:HG13	1.72	0.55
3:CI:29:VAL:HA	3:CI:48:SER:HB3	1.88	0.55
3:0:38:VAL:HG12	3:0:40:ILE:HG22	1.88	0.54
3:W:68:VAL:HG12	3:W:81:VAL:HG22	1.87	0.54
3:o:32:VAL:HG22	3:o:45:PHE:HB3	1.88	0.54
3:s:87:VAL:HG21	3:t:109:ILE:HD12	1.87	0.54
3:w:36:THR:OG1	3:w:37:GLY:N	2.38	0.54
3:Av:7:VAL:HA	3:Av:18:HIS:O	2.07	0.54
3:A1:129:GLY:HA3	3:A6:23:ARG:HA	1.89	0.54
3:BG:120:VAL:O	3:BG:124:ILE:HG22	2.07	0.54
3:BR:41:GLY:HA2	3:BR:66:PRO:HG2	1.88	0.54
3:Bk:9:LYS:N	3:Bl:111:ASP:OD2	2.40	0.54
3:B1:11:ARG:NH2	3:B1:113:LEU:O	2.39	0.54
3:CB:20:PHE:HA	3:CB:34:GLU:OE1	2.07	0.54
3:CL:46:THR:HB	3:CL:62:LYS:HD2	1.88	0.54
3:CQ:21:VAL:O	3:CQ:32:VAL:HG23	2.07	0.54
3:CS:119:LEU:HD11	3:CT:3:LEU:HD12	1.90	0.54
3:1:32:VAL:CG2	3:1:45:PHE:HB3	2.37	0.54
3:5:40:ILE:HD11	3:B0:96:ARG:HA	1.89	0.54
3:A:35:SER:HA	3:A:42:GLU:HG2	1.88	0.54
3:D:33:VAL:CG1	3:D:42:GLU:HB3	2.38	0.54
3:m:20:PHE:HB3	3:m:32:VAL:HG22	1.89	0.54
3:o:119:LEU:HD13	3:p:4:GLN:HG2	1.88	0.54
3:v:33:VAL:HG13	3:v:42:GLU:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:52:THR:HG21	3:J:56:ARG:HB2	1.88	0.54
3:K:79:PRO:O	3:BV:96:ARG:NH1	2.41	0.54
3:AA:25:ILE:HD12	3:AD:131:TYR:HB2	1.87	0.54
3:AS:36:THR:OG1	3:AS:37:GLY:N	2.38	0.54
3:Aa:71:GLN:NE2	3:Aa:78:THR:O	2.33	0.54
3:Ar:36:THR:OG1	3:Ar:37:GLY:N	2.33	0.54
3:Ar:44:ARG:HG2	3:Ar:64:VAL:HB	1.89	0.54
3:Az:20:PHE:HA	3:Az:34:GLU:OE1	2.07	0.54
3:A4:64:VAL:HG13	3:A4:85:SER:O	2.07	0.54
3:A8:20:PHE:HB3	3:A8:32:VAL:HG11	1.90	0.54
3:BH:99:THR:HG23	3:BH:102:ARG:HH21	1.72	0.54
3:BK:118:MET:SD	3:BK:118:MET:N	2.76	0.54
3:BL:73:VAL:HB	3:BL:76:ILE:CD1	2.35	0.54
3:BV:7:VAL:HG12	3:BV:19:THR:HA	1.89	0.54
3:CH:98:THR:HB	3:CH:101:GLU:HG2	1.90	0.54
3:CK:66:PRO:HB3	3:CK:84:THR:HG22	1.88	0.54
3:1:5:ASN:HD21	3:1:19:THR:HG23	1.73	0.54
3:7:9:LYS:N	3:8:111:ASP:OD2	2.40	0.54
3:U:36:THR:OG1	3:U:37:GLY:N	2.37	0.54
3:a:89:VAL:HG12	3:b:89:VAL:HG22	1.89	0.54
3:d:29:VAL:HG22	3:d:48:SER:HB3	1.89	0.54
3:m:7:VAL:HG13	3:m:17:ASP:HB2	1.90	0.54
3:v:98:THR:HB	3:v:101:GLU:OE1	2.07	0.54
3:N:61:LEU:HB2	3:N:89:VAL:HB	1.88	0.54
3:AP:98:THR:HB	3:AP:101:GLU:HG2	1.89	0.54
3:AS:111:ASP:OD2	3:AT:9:LYS:N	2.31	0.54
3:AU:38:VAL:HG12	3:AU:40:ILE:HG12	1.89	0.54
3:AY:10:ASP:HB3	3:AY:16:ASN:HB2	1.89	0.54
3:Ag:98:THR:HG22	3:Ag:101:GLU:HG3	1.88	0.54
3:Au:122:ASP:OD1	3:Au:126:ASN:ND2	2.33	0.54
3:A8:123:THR:HA	3:A8:128:GLN:H	1.73	0.54
3:BE:104:ASN:ND2	3:BF:12:GLU:OE2	2.40	0.54
3:BG:9:LYS:HE3	3:BG:15:PRO:HG2	1.89	0.54
3:BI:76:ILE:HD12	3:CS:69:GLN:HE21	1.72	0.54
3:B4:20:PHE:HE2	3:B4:43:SER:HB2	1.72	0.54
3:M:117:LYS:NZ	3:N:7:VAL:O	2.31	0.54
3:AC:51:LYS:HZ3	3:AC:55:GLY:HA2	1.72	0.54
3:AS:103:ASN:OD1	3:AT:11:ARG:NH1	2.37	0.54
3:AX:29:VAL:HG22	3:AX:48:SER:HB3	1.88	0.54
3:AZ:10:ASP:HB3	3:AZ:12:GLU:OE1	2.07	0.54
3:Aw:6:LEU:O	3:Aw:20:PHE:N	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A1:20:PHE:HE2	3:A1:43:SER:HB2	1.72	0.54
3:BF:46:THR:HB	3:BF:62:LYS:HB2	1.90	0.54
3:BI:31:GLU:HB3	3:BI:46:THR:HG22	1.88	0.54
3:BI:45:PHE:HZ	3:BI:61:LEU:HD23	1.70	0.54
3:BO:32:VAL:HG22	3:BO:45:PHE:HB3	1.90	0.54
3:BY:44:ARG:HG2	3:BY:64:VAL:HB	1.89	0.54
3:Bi:4:GLN:NE2	3:Bj:119:LEU:HD12	2.22	0.54
3:Bj:57:TYR:O	3:Bj:92:ASP:HA	2.07	0.54
3:By:124:ILE:HD13	3:Bz:106:VAL:HG23	1.88	0.54
3:B8:122:ASP:HA	3:B8:126:ASN:HB2	1.89	0.54
3:B9:38:VAL:HG12	3:B9:40:ILE:HG12	1.90	0.54
3:CL:113:LEU:HB3	3:CL:120:VAL:HG11	1.89	0.54
3:CS:99:THR:OG1	3:CS:102:ARG:NH2	2.40	0.54
3:O:20:PHE:HE1	3:O:43:SER:HB2	1.72	0.54
3:Y:32:VAL:CG2	3:Y:45:PHE:HB3	2.38	0.54
3:k:47:ILE:CD1	3:l:120:VAL:HG23	2.38	0.54
3:q:6:LEU:HB2	3:r:119:LEU:HD13	1.89	0.54
3:z:58:LYS:HG2	3:z:92:ASP:HB3	1.89	0.54
3:J:63:LEU:O	3:J:87:VAL:HG22	2.08	0.54
3:AA:32:VAL:CG1	3:AA:45:PHE:HB3	2.38	0.54
3:AC:23:ARG:HH21	3:AC:33:VAL:HG11	1.73	0.54
3:AV:32:VAL:O	3:AV:44:ARG:HA	2.07	0.54
3:Aa:82:VAL:HG23	3:Ab:96:ARG:HH22	1.72	0.54
3:Ah:71:GLN:NE2	3:Ah:78:THR:O	2.41	0.54
3:Am:52:THR:OG1	3:Am:58:LYS:NZ	2.40	0.54
3:Ar:32:VAL:CG2	3:Ar:45:PHE:HB3	2.38	0.54
3:A9:20:PHE:HB3	3:A9:32:VAL:HG22	1.87	0.54
3:BR:70:SER:HB2	3:BR:77:VAL:HG13	1.89	0.54
3:Bn:40:ILE:CG2	3:Bn:68:VAL:HG21	2.38	0.54
3:Bz:58:LYS:HG2	3:Bz:92:ASP:HB3	1.89	0.54
3:B8:7:VAL:HA	3:B8:18:HIS:O	2.08	0.54
3:CH:7:VAL:HA	3:CH:18:HIS:O	2.07	0.54
3:CH:70:SER:HB3	3:CH:79:PRO:HA	1.89	0.54
3:CM:40:ILE:CD1	3:CM:79:PRO:HG2	2.37	0.54
2:AE:635:G:N2	2:AE:665:A:N3	2.56	0.54
3:R:52:THR:HG21	3:R:56:ARG:HB2	1.90	0.54
3:S:32:VAL:HG12	3:S:45:PHE:HB3	1.89	0.54
3:m:32:VAL:HG12	3:m:45:PHE:HB3	1.90	0.54
3:u:32:VAL:CG1	3:u:45:PHE:HB3	2.37	0.54
3:w:82:VAL:HG23	3:w:83:ARG:HG2	1.88	0.54
3:AP:128:GLN:OE1	3:Bx:23:ARG:NE	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AU:117:LYS:HD2	3:AV:6:LEU:HD11	1.89	0.54
3:AV:40:ILE:HG22	3:AV:68:VAL:HG21	1.90	0.54
3:AY:36:THR:OG1	3:AY:37:GLY:N	2.31	0.54
3:Aj:44:ARG:HG2	3:Aj:64:VAL:HB	1.88	0.54
3:Am:61:LEU:HB2	3:Am:89:VAL:HG22	1.90	0.54
3:Au:76:ILE:HD11	3:Ax:71:GLN:HB3	1.90	0.54
3:Ax:64:VAL:HG12	3:Ax:66:PRO:HD3	1.89	0.54
3:A3:61:LEU:HB2	3:A3:89:VAL:CG2	2.37	0.54
3:BB:33:VAL:HG22	3:BB:44:ARG:HB3	1.89	0.54
3:BB:73:VAL:HB	3:BB:76:ILE:HG13	1.89	0.54
3:BC:9:LYS:N	3:BD:111:ASP:OD2	2.40	0.54
3:BC:86:TYR:HB2	3:BD:92:ASP:HB3	1.90	0.54
3:B8:120:VAL:O	3:B8:124:ILE:HG22	2.07	0.54
3:CO:9:LYS:HE2	3:CO:9:LYS:HA	1.89	0.54
3:CT:39:PRO:HA	3:CT:42:GLU:OE2	2.07	0.54
3:T:113:LEU:HB3	3:T:120:VAL:HG11	1.90	0.54
3:W:66:PRO:HB3	3:W:84:THR:HG22	1.89	0.54
3:e:111:ASP:OD2	3:f:9:LYS:N	2.40	0.54
3:v:58:LYS:HG2	3:v:92:ASP:CB	2.37	0.54
3:N:64:VAL:HG13	3:N:85:SER:O	2.08	0.54
3:N:120:VAL:O	3:N:124:ILE:HG22	2.08	0.54
3:AB:47:ILE:CD1	3:AB:61:LEU:HG	2.38	0.54
3:AS:119:LEU:HD11	3:AT:3:LEU:HD12	1.88	0.54
3:Aa:117:LYS:NZ	3:Ab:7:VAL:O	2.31	0.54
3:Af:64:VAL:HG13	3:Af:85:SER:O	2.07	0.54
3:Af:118:MET:SD	3:Af:118:MET:N	2.77	0.54
3:Ax:7:VAL:HG22	3:Ax:19:THR:HA	1.90	0.54
3:BA:11:ARG:NH1	3:BB:103:ASN:OD1	2.41	0.54
3:BQ:124:ILE:HG23	3:BQ:125:VAL:HG23	1.89	0.54
3:BZ:114:LYS:HG2	3:BZ:116:ASP:H	1.73	0.54
3:Bz:64:VAL:HG13	3:Bz:85:SER:O	2.07	0.54
3:B7:120:VAL:O	3:B7:124:ILE:HG22	2.08	0.54
3:CB:58:LYS:HG2	3:CB:92:ASP:HB3	1.90	0.54
3:CP:20:PHE:HA	3:CP:34:GLU:OE1	2.08	0.54
3:4:122:ASP:HA	3:4:126:ASN:HB2	1.90	0.54
3:B:69:GLN:HB3	3:BR:76:ILE:HG21	1.89	0.54
3:b:98:THR:HB	3:b:101:GLU:OE1	2.07	0.54
3:v:82:VAL:HG23	3:v:83:ARG:HG2	1.89	0.54
3:M:51:LYS:HE3	3:M:57:TYR:HE1	1.71	0.54
3:AA:61:LEU:HB2	3:AA:89:VAL:CG2	2.38	0.54
3:AO:110:ALA:HB2	3:AP:113:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Aa:29:VAL:HG22	3:Aa:48:SER:HB3	1.90	0.54
3:A0:52:THR:OG1	3:A0:53:SER:N	2.41	0.54
3:BB:20:PHE:HB3	3:BB:32:VAL:HG12	1.90	0.54
3:BH:70:SER:HB2	3:BH:77:VAL:HG13	1.89	0.54
3:Bd:61:LEU:N	3:Bd:89:VAL:O	2.39	0.54
3:Bj:73:VAL:H	3:Bj:76:ILE:HG12	1.73	0.54
3:Bx:23:ARG:HG3	3:Bx:33:VAL:HB	1.90	0.54
3:B5:38:VAL:HG12	3:B5:40:ILE:HG12	1.90	0.54
3:B0:122:ASP:O	3:B0:126:ASN:HB2	2.07	0.54
3:0:101:GLU:OE2	3:9:83:ARG:NH2	2.34	0.54
3:6:32:VAL:CG2	3:6:45:PHE:HB3	2.38	0.54
3:E:122:ASP:HA	3:E:126:ASN:HB2	1.89	0.54
3:E:124:ILE:HG23	3:E:125:VAL:HG23	1.89	0.54
3:a:93:TYR:CD1	3:a:102:ARG:HG2	2.43	0.54
3:b:70:SER:HB2	3:b:77:VAL:HG13	1.89	0.54
3:i:20:PHE:HE2	3:i:43:SER:HB2	1.73	0.54
3:j:20:PHE:HB3	3:j:32:VAL:HG11	1.89	0.54
3:j:47:ILE:HD12	3:j:61:LEU:HG	1.89	0.54
3:n:46:THR:HB	3:n:62:LYS:HB2	1.90	0.54
3:u:20:PHE:HB3	3:u:32:VAL:HG22	1.90	0.54
3:z:98:THR:HB	3:z:101:GLU:OE1	2.07	0.54
3:M:23:ARG:HH11	3:M:23:ARG:HA	1.71	0.54
3:AV:123:THR:HA	3:AV:128:GLN:H	1.72	0.54
3:Ac:59:SER:HG	3:Ac:91:PHE:HB2	1.72	0.54
3:Ae:7:VAL:O	3:Af:117:LYS:NZ	2.31	0.54
3:Av:104:ASN:O	3:Av:108:MET:HG3	2.08	0.54
3:Ay:129:GLY:O	3:Az:1:ALA:N	2.33	0.54
3:A4:20:PHE:HA	3:A4:34:GLU:OE1	2.07	0.54
3:BP:32:VAL:CG2	3:BP:45:PHE:HB3	2.38	0.54
3:Bc:38:VAL:HG12	3:Bc:40:ILE:HG22	1.89	0.54
3:Bc:111:ASP:OD2	3:Bd:9:LYS:N	2.40	0.54
3:Bh:38:VAL:HG12	3:Bh:40:ILE:HG13	1.90	0.54
3:Bi:8:LEU:HD11	3:Bj:112:ALA:HA	1.90	0.54
3:Bx:52:THR:OG1	3:Bx:53:SER:N	2.41	0.54
3:B2:40:ILE:CG2	3:B2:68:VAL:HG21	2.37	0.54
3:B2:64:VAL:HG13	3:B2:85:SER:O	2.08	0.54
3:B6:51:LYS:HE2	3:B6:51:LYS:HA	1.89	0.54
3:CR:23:ARG:HD2	3:CR:33:VAL:HG21	1.89	0.54
3:7:8:LEU:CD1	3:8:112:ALA:HA	2.38	0.54
3:9:6:LEU:O	3:9:20:PHE:N	2.37	0.54
3:R:52:THR:OG1	3:R:53:SER:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:82:VAL:HG23	3:V:83:ARG:HG2	1.89	0.54
3:Y:97:SER:HA	3:Z:83:ARG:HH22	1.73	0.54
3:c:123:THR:HG23	3:d:49:LEU:HD22	1.89	0.54
3:l:36:THR:OG1	3:l:37:GLY:N	2.36	0.54
3:AB:124:ILE:HG23	3:AB:125:VAL:HG23	1.90	0.54
3:AP:67:VAL:O	3:AP:82:VAL:HG22	2.07	0.54
3:AT:25:ILE:HG12	3:AT:30:GLY:HA2	1.89	0.54
3:AV:3:LEU:HG	3:AV:22:PRO:HG3	1.89	0.54
3:AY:20:PHE:HB3	3:AY:32:VAL:HG22	1.89	0.54
3:Ae:90:ASP:HB3	3:Af:88:THR:OG1	2.08	0.54
3:BO:119:LEU:HB2	3:BP:4:GLN:NE2	2.23	0.54
3:BZ:118:MET:SD	3:BZ:118:MET:N	2.79	0.54
3:BZ:120:VAL:O	3:BZ:124:ILE:HG22	2.07	0.54
3:Bc:104:ASN:O	3:Bc:108:MET:HG2	2.08	0.54
3:B6:59:SER:OG	3:B6:91:PHE:HB2	2.08	0.54
3:CK:111:ASP:OD2	3:CL:9:LYS:N	2.40	0.54
3:CP:29:VAL:HG13	3:CP:46:THR:HG23	1.90	0.54
3:CQ:32:VAL:CG1	3:CQ:45:PHE:HB3	2.38	0.54
3:0:118:MET:SD	3:0:118:MET:N	2.77	0.53
3:5:124:ILE:HG13	3:6:106:VAL:HG21	1.90	0.53
3:X:122:ASP:HA	3:X:126:ASN:HB2	1.88	0.53
3:j:44:ARG:HG2	3:j:64:VAL:HB	1.90	0.53
3:r:7:VAL:HA	3:r:18:HIS:O	2.08	0.53
3:w:11:ARG:HG3	3:x:107:GLY:HA3	1.90	0.53
3:y:61:LEU:HB2	3:y:89:VAL:HG22	1.90	0.53
3:AB:64:VAL:HG13	3:AB:85:SER:O	2.08	0.53
3:AT:20:PHE:HA	3:AT:34:GLU:OE1	2.08	0.53
3:Al:29:VAL:HG22	3:Al:48:SER:HB3	1.88	0.53
3:Al:64:VAL:HG12	3:Al:66:PRO:HD3	1.90	0.53
3:Au:44:ARG:O	3:Au:63:LEU:HD12	2.09	0.53
3:Aw:76:ILE:HD11	3:A7:71:GLN:HB3	1.89	0.53
3:A4:47:ILE:HD12	3:A4:61:LEU:HG	1.88	0.53
3:BK:58:LYS:HG2	3:BK:92:ASP:HB3	1.90	0.53
3:BM:100:LYS:HA	3:BM:100:LYS:HE2	1.88	0.53
3:Bk:118:MET:SD	3:Bl:4:GLN:NE2	2.82	0.53
3:B9:36:THR:OG1	3:B9:37:GLY:N	2.37	0.53
3:B0:63:LEU:HB3	3:B0:87:VAL:HG21	1.90	0.53
3:CI:33:VAL:HG12	3:CI:44:ARG:HG2	1.90	0.53
3:CK:38:VAL:HG12	3:CK:40:ILE:HG12	1.89	0.53
3:CQ:119:LEU:HD11	3:CR:3:LEU:HD12	1.89	0.53
3:CR:82:VAL:HG23	3:CR:83:ARG:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CT:98:THR:N	3:CT:101:GLU:OE2	2.35	0.53
3:2:76:ILE:HD11	3:u:71:GLN:HB3	1.89	0.53
3:4:52:THR:OG1	3:4:53:SER:N	2.37	0.53
3:5:25:ILE:HD11	3:5:28:ASN:HA	1.90	0.53
3:O:64:VAL:HG12	3:O:66:PRO:HD3	1.90	0.53
3:e:51:LYS:HA	3:e:51:LYS:HE2	1.88	0.53
3:k:63:LEU:HB3	3:k:87:VAL:CG1	2.39	0.53
3:J:46:THR:HB	3:J:62:LYS:HE3	1.89	0.53
3:AU:49:LEU:HD13	3:AU:59:SER:HB3	1.90	0.53
3:Ac:111:ASP:OD2	3:Ad:9:LYS:N	2.41	0.53
3:Af:38:VAL:HG22	3:B3:98:THR:HG22	1.89	0.53
3:Ag:92:ASP:HB3	3:Ah:86:TYR:HB2	1.89	0.53
3:An:124:ILE:HG23	3:An:125:VAL:HG23	1.89	0.53
3:Ax:6:LEU:O	3:Ax:20:PHE:N	2.28	0.53
3:BC:29:VAL:HG22	3:BC:48:SER:HB3	1.90	0.53
3:BJ:8:LEU:O	3:BJ:18:HIS:HB2	2.08	0.53
3:BM:49:LEU:HD13	3:BM:59:SER:HB3	1.89	0.53
3:BR:32:VAL:O	3:BR:44:ARG:HA	2.08	0.53
3:Bg:9:LYS:HB3	3:Bh:111:ASP:HB2	1.89	0.53
3:Bg:63:LEU:HB3	3:Bg:87:VAL:CG1	2.38	0.53
3:Bl:20:PHE:HA	3:Bl:34:GLU:OE1	2.09	0.53
3:Bl:40:ILE:HG22	3:Bl:68:VAL:HG21	1.90	0.53
3:CA:3:LEU:CD1	3:CA:22:PRO:HB3	2.38	0.53
3:CO:73:VAL:HG12	3:CO:74:ASN:HD22	1.73	0.53
3:CQ:89:VAL:HG12	3:CR:89:VAL:CG1	2.38	0.53
3:9:57:TYR:HE2	3:9:95:ALA:HA	1.71	0.53
3:O:8:LEU:HD11	3:P:112:ALA:HA	1.90	0.53
3:R:113:LEU:HB3	3:R:120:VAL:HG11	1.90	0.53
3:S:33:VAL:HA	3:S:43:SER:O	2.09	0.53
3:k:52:THR:HG21	3:k:58:LYS:HE3	1.90	0.53
3:v:38:VAL:HG22	3:v:40:ILE:HG12	1.91	0.53
3:w:11:ARG:NH2	3:w:114:LYS:HA	2.24	0.53
3:AW:112:ALA:HB2	3:AX:8:LEU:HD11	1.91	0.53
3:AY:74:ASN:HB3	3:Ab:71:GLN:HE21	1.73	0.53
3:AY:120:VAL:O	3:AY:124:ILE:HG22	2.08	0.53
3:Ap:40:ILE:HG21	3:Ap:79:PRO:HB2	1.89	0.53
3:A9:51:LYS:HE3	3:A9:57:TYR:HE1	1.73	0.53
3:Bl:34:GLU:HB3	3:Bl:43:SER:H	1.73	0.53
3:B2:20:PHE:HE2	3:B2:43:SER:HB2	1.72	0.53
3:B8:22:PRO:HA	3:B8:32:VAL:HA	1.90	0.53
3:CA:120:VAL:O	3:CA:124:ILE:HG22	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:7:VAL:HG13	3:CC:17:ASP:HB3	1.91	0.53
3:CC:90:ASP:HB3	3:CD:88:THR:OG1	2.09	0.53
3:CI:36:THR:OG1	3:CI:37:GLY:N	2.38	0.53
3:2:22:PRO:HA	3:2:32:VAL:HA	1.90	0.53
3:O:20:PHE:HB3	3:O:32:VAL:HG22	1.91	0.53
3:Q:35:SER:HA	3:Q:42:GLU:HG2	1.89	0.53
3:V:29:VAL:HG22	3:V:48:SER:HB3	1.91	0.53
3:d:98:THR:HA	3:B7:37:GLY:O	2.07	0.53
3:o:10:ASP:HB3	3:o:12:GLU:OE1	2.09	0.53
3:I:89:VAL:HG12	3:J:89:VAL:HG13	1.91	0.53
3:L:32:VAL:CG2	3:L:45:PHE:HB3	2.38	0.53
3:AU:118:MET:SD	3:AU:118:MET:N	2.77	0.53
3:Ay:89:VAL:HG12	3:Az:89:VAL:HG22	1.90	0.53
3:A2:22:PRO:HA	3:A2:32:VAL:HA	1.90	0.53
3:BA:10:ASP:HB3	3:BA:12:GLU:OE1	2.07	0.53
3:BH:23:ARG:HD3	3:BH:31:GLU:HG2	1.90	0.53
3:BL:7:VAL:HA	3:BL:18:HIS:O	2.09	0.53
3:B5:118:MET:SD	3:B5:118:MET:N	2.77	0.53
3:B8:32:VAL:HB	3:B8:45:PHE:HB3	1.90	0.53
3:B9:35:SER:HB2	3:B9:42:GLU:HB3	1.89	0.53
3:CQ:113:LEU:HD23	3:CR:110:ALA:HB2	1.91	0.53
3:C:112:ALA:HB2	3:D:8:LEU:HD11	1.91	0.53
3:S:25:ILE:HD11	3:V:131:TYR:HB2	1.91	0.53
3:S:35:SER:HB2	3:S:42:GLU:HG3	1.90	0.53
3:j:129:GLY:HA3	3:Av:24:ASP:HB3	1.89	0.53
3:t:47:ILE:HD13	3:t:61:LEU:HD11	1.91	0.53
3:w:61:LEU:HB2	3:w:89:VAL:HB	1.89	0.53
3:AR:45:PHE:HA	3:AR:62:LYS:O	2.08	0.53
3:AT:114:LYS:O	3:AT:121:HIS:HB2	2.09	0.53
3:AZ:68:VAL:HG22	3:AZ:81:VAL:HG22	1.91	0.53
3:Ar:32:VAL:HG22	3:Ar:45:PHE:HB3	1.90	0.53
3:BF:23:ARG:HB3	3:BF:31:GLU:HG3	1.91	0.53
3:BG:6:LEU:HD11	3:BH:117:LYS:HD2	1.90	0.53
3:BN:99:THR:OG1	3:BN:102:ARG:NH2	2.40	0.53
3:BY:100:LYS:NZ	3:BY:104:ASN:OD1	2.39	0.53
3:Bv:67:VAL:O	3:Bv:82:VAL:HG22	2.08	0.53
3:By:61:LEU:HB2	3:By:89:VAL:CG2	2.38	0.53
3:CC:101:GLU:OE2	3:CD:83:ARG:NE	2.42	0.53
3:CO:113:LEU:HD13	3:CO:120:VAL:HG11	1.90	0.53
3:B:64:VAL:HG13	3:B:85:SER:O	2.09	0.53
3:Q:108:MET:HB3	3:R:63:LEU:HD21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:g:45:PHE:HB2	3:g:63:LEU:HD13	1.89	0.53
3:r:23:ARG:HD2	3:r:33:VAL:HG21	1.91	0.53
3:AQ:112:ALA:HB2	3:AR:8:LEU:HD21	1.90	0.53
3:Ai:128:GLN:HB3	3:Bg:21:VAL:HG11	1.91	0.53
3:Am:74:ASN:HB3	3:Bg:73:VAL:HG22	1.91	0.53
3:Ar:41:GLY:HA3	3:Ar:68:VAL:CG2	2.39	0.53
3:Ar:118:MET:SD	3:Ar:118:MET:N	2.76	0.53
3:Au:52:THR:HG22	3:Au:54:ASN:H	1.73	0.53
3:Az:118:MET:SD	3:Az:118:MET:N	2.78	0.53
3:A7:51:LYS:NZ	3:A7:52:THR:O	2.41	0.53
3:BR:21:VAL:O	3:BR:32:VAL:HG13	2.08	0.53
3:BR:28:ASN:ND2	3:BY:25:ILE:O	2.39	0.53
3:BV:7:VAL:HA	3:BV:18:HIS:O	2.08	0.53
3:Bb:28:ASN:ND2	3:Bh:24:ASP:HB2	2.24	0.53
3:Bb:68:VAL:CG1	3:Bb:79:PRO:HB2	2.39	0.53
3:Bi:58:LYS:HG2	3:Bi:92:ASP:HB3	1.90	0.53
3:Bj:120:VAL:O	3:Bj:124:ILE:HG12	2.08	0.53
3:Bn:64:VAL:HG13	3:Bn:85:SER:O	2.08	0.53
3:Bv:31:GLU:HG3	3:Bv:33:VAL:HG23	1.90	0.53
3:B6:10:ASP:HB3	3:B6:12:GLU:OE1	2.08	0.53
3:CD:82:VAL:HG23	3:CD:83:ARG:HG2	1.91	0.53
3:CQ:20:PHE:HB3	3:CQ:32:VAL:CG2	2.38	0.53
3:3:63:LEU:HB3	3:3:87:VAL:CG1	2.39	0.53
3:5:24:ASP:HB2	3:B0:28:ASN:ND2	2.23	0.53
3:7:18:HIS:HB3	3:7:34:GLU:OE1	2.09	0.53
3:9:36:THR:OG1	3:9:37:GLY:N	2.36	0.53
3:o:32:VAL:CG2	3:o:45:PHE:HB3	2.38	0.53
3:L:114:LYS:HG2	3:L:116:ASP:H	1.74	0.53
3:AB:23:ARG:NH2	3:CB:127:LEU:O	2.40	0.53
3:AY:29:VAL:HA	3:AY:48:SER:OG	2.09	0.53
3:Ab:98:THR:HG21	3:Ab:100:LYS:NZ	2.24	0.53
3:Af:69:GLN:O	3:Af:79:PRO:HA	2.09	0.53
3:Ag:98:THR:O	3:Ag:102:ARG:NE	2.41	0.53
3:Ag:113:LEU:HB3	3:Ah:110:ALA:HB2	1.90	0.53
3:Am:38:VAL:HG22	3:Am:40:ILE:HG12	1.91	0.53
3:BF:38:VAL:HG12	3:BF:40:ILE:HG13	1.90	0.53
3:B1:117:LYS:CD	3:B2:6:LEU:HD11	2.39	0.53
3:B9:103:ASN:OD1	3:B0:11:ARG:NH1	2.42	0.53
3:A:120:VAL:O	3:A:124:ILE:HG22	2.08	0.53
3:C:89:VAL:HG13	3:D:89:VAL:HG22	1.91	0.53
3:R:114:LYS:HB3	3:R:117:LYS:HD3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T:20:PHE:HE2	3:T:43:SER:HB2	1.74	0.53
3:W:32:VAL:CG1	3:W:45:PHE:HB3	2.39	0.53
3:b:23:ARG:N	3:b:31:GLU:O	2.41	0.53
3:j:7:VAL:HA	3:j:18:HIS:O	2.08	0.53
3:m:71:GLN:NE2	3:m:78:THR:O	2.41	0.53
3:G:1:ALA:HB2	3:H:122:ASP:HB3	1.90	0.53
3:M:110:ALA:HB2	3:N:113:LEU:HD11	1.91	0.53
3:AV:7:VAL:HA	3:AV:18:HIS:O	2.08	0.53
3:AX:23:ARG:HH21	3:AX:33:VAL:HG11	1.74	0.53
3:Aa:89:VAL:HG13	3:Ab:89:VAL:HG22	1.90	0.53
3:Af:47:ILE:HD12	3:Af:61:LEU:HG	1.91	0.53
3:An:82:VAL:HG23	3:An:83:ARG:HG2	1.90	0.53
3:Ar:22:PRO:HA	3:Ar:32:VAL:HA	1.91	0.53
3:A8:63:LEU:O	3:A8:87:VAL:HG22	2.08	0.53
3:BC:78:THR:HG22	3:Bz:96:ARG:HH21	1.74	0.53
3:BQ:8:LEU:HD11	3:BR:112:ALA:HA	1.91	0.53
3:BV:113:LEU:HD11	3:CI:110:ALA:HB2	1.90	0.53
3:Bu:49:LEU:HD12	3:Bv:123:THR:HG22	1.89	0.53
3:Bz:23:ARG:CD	3:Bz:33:VAL:HB	2.38	0.53
3:B7:90:ASP:HB2	3:B8:88:THR:OG1	2.08	0.53
3:B0:98:THR:HB	3:B0:101:GLU:OE1	2.09	0.53
3:CT:98:THR:HB	3:CT:101:GLU:OE1	2.08	0.53
3:8:20:PHE:CD1	3:8:34:GLU:HB2	2.44	0.53
3:i:41:GLY:HA3	3:i:68:VAL:CG1	2.39	0.53
3:j:64:VAL:HG13	3:j:85:SER:O	2.09	0.53
3:s:64:VAL:HG12	3:s:66:PRO:HD3	1.91	0.53
3:w:38:VAL:HG12	3:w:40:ILE:HG22	1.90	0.53
3:L:99:THR:OG1	3:BQ:37:GLY:HA2	2.09	0.53
3:AB:23:ARG:HH12	3:CB:129:GLY:H	1.56	0.53
3:AC:23:ARG:HG2	3:AC:24:ASP:OD2	2.09	0.53
3:AD:25:ILE:HG22	3:AD:30:GLY:HA2	1.89	0.53
3:Aj:63:LEU:O	3:Aj:87:VAL:HG22	2.09	0.53
3:Al:32:VAL:CG2	3:Al:45:PHE:HB3	2.38	0.53
3:At:61:LEU:HB2	3:At:89:VAL:HB	1.91	0.53
3:A7:120:VAL:O	3:A7:124:ILE:HG22	2.08	0.53
3:BB:7:VAL:HA	3:BB:18:HIS:O	2.08	0.53
3:BS:61:LEU:HB2	3:BS:89:VAL:CG2	2.38	0.53
3:BS:118:MET:N	3:BS:118:MET:SD	2.78	0.53
3:Bd:71:GLN:HE22	3:Bd:73:VAL:HG22	1.74	0.53
3:Bh:44:ARG:HG2	3:Bh:64:VAL:HB	1.90	0.53
3:Bm:124:ILE:HG13	3:Bn:106:VAL:HG11	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bu:4:GLN:HE21	3:Bv:119:LEU:HB2	1.74	0.53
3:B4:57:TYR:HB2	3:B4:93:TYR:HB2	1.90	0.53
3:CC:29:VAL:HA	3:CC:48:SER:OG	2.09	0.53
3:CN:34:GLU:O	3:CN:42:GLU:HG3	2.09	0.53
3:CO:61:LEU:O	3:CO:88:THR:HG23	2.08	0.53
3:6:32:VAL:HG23	3:6:45:PHE:HB3	1.91	0.53
3:9:71:GLN:HB3	3:9:78:THR:O	2.09	0.53
3:C:4:GLN:HG2	3:D:119:LEU:HD12	1.91	0.53
3:W:12:GLU:OE2	3:X:104:ASN:ND2	2.35	0.53
3:W:101:GLU:OE2	3:X:83:ARG:NH2	2.37	0.53
3:AD:32:VAL:CG2	3:AD:45:PHE:HB3	2.38	0.53
3:AY:10:ASP:CB	3:AY:16:ASN:HB2	2.39	0.53
3:Ak:11:ARG:HG3	3:Al:107:GLY:HA3	1.90	0.53
3:An:32:VAL:HB	3:An:45:PHE:HB3	1.89	0.53
3:An:79:PRO:HG2	3:CO:96:ARG:CG	2.39	0.53
3:Az:31:GLU:HB3	3:Az:46:THR:HG23	1.89	0.53
3:Az:124:ILE:HG23	3:Az:125:VAL:HG23	1.90	0.53
3:A6:63:LEU:HB3	3:A6:87:VAL:CG1	2.38	0.53
3:A9:3:LEU:HD22	3:A9:25:ILE:HD11	1.90	0.53
3:BE:89:VAL:HG12	3:BF:89:VAL:HG22	1.91	0.53
3:BF:120:VAL:O	3:BF:124:ILE:HG22	2.09	0.53
3:BI:14:THR:HG23	3:BI:16:ASN:HD21	1.72	0.53
3:Bb:44:ARG:O	3:Bb:63:LEU:HD12	2.09	0.53
3:Bg:51:LYS:HZ1	3:Bg:55:GLY:HA2	1.73	0.53
3:Bh:32:VAL:CG2	3:Bh:45:PHE:HB3	2.39	0.53
3:Bk:61:LEU:HB2	3:Bk:89:VAL:CG2	2.39	0.53
3:Bw:122:ASP:OD1	3:Bw:126:ASN:ND2	2.34	0.53
3:B8:65:VAL:HG13	3:B8:65:VAL:O	2.10	0.53
3:CH:25:ILE:HD12	3:CH:30:GLY:HA2	1.90	0.53
3:3:120:VAL:O	3:3:124:ILE:HG22	2.09	0.52
3:D:64:VAL:HG12	3:D:66:PRO:HD3	1.91	0.52
3:S:61:LEU:HB2	3:S:89:VAL:CG2	2.38	0.52
3:W:6:LEU:HG	3:W:8:LEU:HD21	1.90	0.52
3:X:33:VAL:HG13	3:X:42:GLU:HG3	1.90	0.52
3:a:66:PRO:HA	3:a:84:THR:HG22	1.91	0.52
3:a:89:VAL:HG12	3:b:89:VAL:HG13	1.90	0.52
3:j:38:VAL:HG12	3:j:40:ILE:HG22	1.92	0.52
3:n:46:THR:HB	3:n:62:LYS:HD3	1.91	0.52
3:n:120:VAL:O	3:n:124:ILE:HG12	2.09	0.52
3:K:50:ARG:NH2	3:K:60:THR:OG1	2.31	0.52
3:K:61:LEU:HB2	3:K:89:VAL:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AR:32:VAL:CG2	3:AR:45:PHE:HB3	2.38	0.52
3:Ab:114:LYS:HG2	3:Ab:116:ASP:H	1.75	0.52
3:Al:118:MET:SD	3:Al:118:MET:N	2.76	0.52
3:Ar:29:VAL:HG22	3:Ar:48:SER:CB	2.39	0.52
3:BF:124:ILE:HG23	3:BF:125:VAL:HG23	1.92	0.52
3:Bx:41:GLY:HA2	3:Bx:66:PRO:HG2	1.90	0.52
3:B7:29:VAL:HA	3:B7:48:SER:OG	2.08	0.52
3:CC:36:THR:OG1	3:CC:37:GLY:N	2.40	0.52
3:CD:7:VAL:HA	3:CD:18:HIS:O	2.08	0.52
3:0:57:TYR:HE2	3:0:95:ALA:HA	1.74	0.52
3:P:54:ASN:HD21	3:P:56:ARG:HG2	1.74	0.52
3:T:40:ILE:HG22	3:T:68:VAL:CG2	2.39	0.52
3:X:63:LEU:HB3	3:X:87:VAL:HG21	1.89	0.52
3:c:114:LYS:HG2	3:c:116:ASP:H	1.75	0.52
3:d:23:ARG:HH21	3:d:33:VAL:HG11	1.74	0.52
3:q:7:VAL:CG1	3:q:17:ASP:HB2	2.39	0.52
3:q:61:LEU:HB2	3:q:89:VAL:CG2	2.39	0.52
3:z:98:THR:N	3:z:101:GLU:OE2	2.43	0.52
3:G:92:ASP:HB3	3:H:86:TYR:HB2	1.90	0.52
3:I:89:VAL:HG12	3:J:89:VAL:HG22	1.90	0.52
3:AP:7:VAL:HA	3:AP:18:HIS:O	2.10	0.52
3:AV:41:GLY:HA2	3:AV:66:PRO:HG2	1.92	0.52
3:Aa:121:HIS:HA	3:Aa:124:ILE:HG22	1.91	0.52
3:Ac:8:LEU:HD11	3:Ad:112:ALA:HA	1.91	0.52
3:Ad:48:SER:OG	3:Ad:60:THR:HB	2.09	0.52
3:Ae:36:THR:OG1	3:Ae:37:GLY:N	2.42	0.52
3:Aw:130:VAL:CG1	3:Ax:3:LEU:HD11	2.40	0.52
3:Az:120:VAL:O	3:Az:124:ILE:HG22	2.10	0.52
3:A9:32:VAL:HG13	3:A9:45:PHE:HB3	1.90	0.52
3:BC:32:VAL:CG2	3:BC:45:PHE:HB3	2.39	0.52
3:BC:82:VAL:HG23	3:BC:83:ARG:HG2	1.90	0.52
3:BH:25:ILE:CD1	3:BH:30:GLY:HA2	2.39	0.52
3:BJ:10:ASP:HB3	3:BJ:12:GLU:OE1	2.10	0.52
3:BM:97:SER:O	3:BM:102:ARG:NH1	2.41	0.52
3:BS:23:ARG:HB2	3:BS:33:VAL:HG13	1.89	0.52
3:BZ:29:VAL:CG1	3:BZ:46:THR:HB	2.39	0.52
3:Bd:118:MET:SD	3:Bd:118:MET:N	2.77	0.52
3:Bl:68:VAL:HG11	3:Bl:79:PRO:HB2	1.91	0.52
3:B8:9:LYS:NZ	3:B8:17:ASP:OD1	2.36	0.52
3:B8:39:PRO:HA	3:B8:42:GLU:OE2	2.09	0.52
3:B8:41:GLY:HA2	3:B8:66:PRO:CG	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B9:58:LYS:HB2	3:B9:92:ASP:HB3	1.92	0.52
3:CL:41:GLY:HA2	3:CL:66:PRO:HG2	1.91	0.52
3:0:106:VAL:HG21	3:9:124:ILE:HG21	1.91	0.52
3:B:96:ARG:NH1	3:Bd:40:ILE:HG21	2.25	0.52
3:C:38:VAL:HG12	3:C:40:ILE:HG22	1.89	0.52
3:D:24:ASP:HB2	3:R:28:ASN:ND2	2.25	0.52
3:P:23:ARG:NH2	3:P:31:GLU:OE1	2.42	0.52
3:V:38:VAL:HG12	3:V:40:ILE:HG22	1.91	0.52
3:W:44:ARG:O	3:W:63:LEU:HA	2.09	0.52
3:W:120:VAL:O	3:W:124:ILE:HG22	2.09	0.52
3:a:61:LEU:HB2	3:a:89:VAL:CG2	2.40	0.52
3:a:120:VAL:O	3:a:124:ILE:HG22	2.09	0.52
3:g:114:LYS:HG2	3:g:116:ASP:H	1.74	0.52
3:o:101:GLU:OE2	3:p:83:ARG:NH2	2.32	0.52
3:v:7:VAL:HA	3:v:18:HIS:O	2.09	0.52
3:y:32:VAL:CG1	3:y:45:PHE:HB3	2.40	0.52
3:J:30:GLY:N	3:J:47:ILE:O	2.43	0.52
3:K:22:PRO:HA	3:K:32:VAL:HA	1.90	0.52
3:AB:7:VAL:HA	3:AB:18:HIS:O	2.09	0.52
3:AY:111:ASP:OD2	3:AZ:9:LYS:N	2.30	0.52
3:Ad:63:LEU:O	3:Ad:87:VAL:HG22	2.09	0.52
3:Ad:98:THR:HG22	3:Ad:100:LYS:H	1.74	0.52
3:Ah:32:VAL:CG2	3:Ah:45:PHE:HB3	2.39	0.52
3:Ao:90:ASP:OD1	3:Ap:88:THR:HB	2.09	0.52
3:A6:38:VAL:HG12	3:A6:40:ILE:HG22	1.92	0.52
3:A0:64:VAL:HG13	3:A0:85:SER:O	2.09	0.52
3:BV:68:VAL:HG11	3:BV:79:PRO:HB2	1.91	0.52
3:BV:104:ASN:ND2	3:CI:12:GLU:OE2	2.35	0.52
3:Bj:73:VAL:HB	3:Bj:76:ILE:CD1	2.39	0.52
3:Bn:72:THR:CA	3:Bn:77:VAL:HG22	2.40	0.52
3:Bz:58:LYS:HG2	3:Bz:92:ASP:CB	2.39	0.52
3:CK:104:ASN:ND2	3:CL:12:GLU:OE2	2.43	0.52
3:CP:58:LYS:HG2	3:CP:92:ASP:CB	2.39	0.52
3:0:51:LYS:HE2	3:0:57:TYR:HE1	1.74	0.52
3:4:99:THR:OG1	3:4:102:ARG:NH2	2.41	0.52
3:R:64:VAL:HG13	3:R:85:SER:O	2.09	0.52
3:U:63:LEU:HB3	3:U:87:VAL:CG1	2.39	0.52
3:V:14:THR:HG23	3:V:16:ASN:OD1	2.10	0.52
3:a:87:VAL:HG21	3:b:109:ILE:HG12	1.90	0.52
3:d:104:ASN:O	3:d:108:MET:HG2	2.10	0.52
3:g:24:ASP:HB2	3:Bj:28:ASN:ND2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:j:48:SER:OG	3:j:60:THR:HB	2.09	0.52
3:l:104:ASN:O	3:l:108:MET:HG3	2.09	0.52
3:n:71:GLN:HE22	3:n:73:VAL:HG22	1.75	0.52
3:n:99:THR:OG1	3:n:102:ARG:NH2	2.41	0.52
3:s:106:VAL:HG21	3:t:124:ILE:HG13	1.92	0.52
3:t:32:VAL:CG2	3:t:45:PHE:HB3	2.40	0.52
3:u:101:GLU:OE2	3:v:83:ARG:NH2	2.33	0.52
3:K:8:LEU:HD23	3:L:117:LYS:HE2	1.92	0.52
3:N:42:GLU:O	3:N:66:PRO:HD2	2.09	0.52
3:AA:49:LEU:HD13	3:AA:59:SER:HB3	1.91	0.52
3:AQ:36:THR:OG1	3:AQ:37:GLY:N	2.38	0.52
3:AR:97:SER:O	3:By:38:VAL:HA	2.10	0.52
3:Ad:23:ARG:HB3	3:Ad:31:GLU:OE2	2.09	0.52
3:Af:20:PHE:HB3	3:Af:32:VAL:HG11	1.91	0.52
3:Ag:7:VAL:HA	3:Ag:18:HIS:O	2.09	0.52
3:Ao:32:VAL:CG1	3:Ao:45:PHE:HB3	2.40	0.52
3:Ay:25:ILE:HG23	3:Ay:29:VAL:H	1.75	0.52
3:A2:7:VAL:HA	3:A2:18:HIS:O	2.09	0.52
3:A2:122:ASP:O	3:A2:128:GLN:N	2.36	0.52
3:BA:61:LEU:HB2	3:BA:89:VAL:HG22	1.92	0.52
3:BF:98:THR:HB	3:BF:101:GLU:OE1	2.08	0.52
3:BK:61:LEU:HB2	3:BK:89:VAL:CG2	2.39	0.52
3:BM:96:ARG:HG3	3:BN:83:ARG:HD3	1.91	0.52
3:BV:67:VAL:O	3:BV:82:VAL:HG22	2.09	0.52
3:Bl:64:VAL:HG13	3:Bl:85:SER:O	2.08	0.52
3:Bn:7:VAL:HA	3:Bn:18:HIS:O	2.09	0.52
3:B3:91:PHE:HB3	3:B3:93:TYR:HE2	1.74	0.52
3:B9:8:LEU:CD1	3:B0:112:ALA:HA	2.39	0.52
3:B0:65:VAL:HG13	3:B0:65:VAL:O	2.10	0.52
3:CC:44:ARG:O	3:CC:63:LEU:HD12	2.09	0.52
3:CC:62:LYS:HG2	3:CC:88:THR:HG23	1.91	0.52
3:CM:48:SER:HB2	3:CM:50:ARG:HH11	1.75	0.52
3:CQ:23:ARG:HD2	3:CQ:33:VAL:HG22	1.90	0.52
3:2:45:PHE:HA	3:2:62:LYS:O	2.10	0.52
3:5:11:ARG:H	3:6:104:ASN:HD22	1.57	0.52
3:S:90:ASP:HB3	3:T:88:THR:OG1	2.09	0.52
3:T:20:PHE:CD2	3:T:34:GLU:HB2	2.44	0.52
3:U:112:ALA:O	3:U:120:VAL:HG11	2.09	0.52
3:a:32:VAL:CG1	3:a:45:PHE:HB3	2.40	0.52
3:b:64:VAL:HG13	3:b:85:SER:O	2.09	0.52
3:c:99:THR:HA	3:c:102:ARG:HE	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:90:ASP:HB2	3:f:88:THR:CG2	2.39	0.52
3:j:98:THR:HB	3:j:101:GLU:OE1	2.10	0.52
3:v:52:THR:OG1	3:v:53:SER:N	2.36	0.52
3:y:20:PHE:HA	3:y:34:GLU:HB2	1.91	0.52
3:I:9:LYS:N	3:J:111:ASP:OD2	2.41	0.52
3:AZ:99:THR:HG23	3:AZ:102:ARG:HH21	1.73	0.52
3:Af:10:ASP:HB3	3:Af:12:GLU:OE1	2.09	0.52
3:Af:77:VAL:HG23	3:Af:79:PRO:HD3	1.91	0.52
3:Am:61:LEU:HB2	3:Am:89:VAL:CG2	2.40	0.52
3:An:118:MET:SD	3:An:118:MET:N	2.75	0.52
3:A7:45:PHE:HD1	3:A7:63:LEU:HD13	1.74	0.52
3:BE:7:VAL:HA	3:BE:18:HIS:O	2.10	0.52
3:BG:8:LEU:CD1	3:BH:112:ALA:HA	2.39	0.52
3:BI:4:GLN:H	3:BJ:119:LEU:HD12	1.74	0.52
3:BI:45:PHE:CZ	3:BI:61:LEU:HD23	2.45	0.52
3:BO:79:PRO:O	3:Bn:96:ARG:NH1	2.42	0.52
3:Bg:7:VAL:HA	3:Bg:18:HIS:O	2.10	0.52
3:Bj:48:SER:OG	3:Bj:60:THR:HB	2.10	0.52
3:Bk:121:HIS:HA	3:Bk:124:ILE:HG22	1.91	0.52
3:Bl:65:VAL:O	3:Bl:65:VAL:HG13	2.10	0.52
3:Bn:44:ARG:O	3:Bn:63:LEU:HA	2.09	0.52
3:Bn:46:THR:HB	3:Bn:62:LYS:HG3	1.91	0.52
3:Bw:101:GLU:OE2	3:Bx:83:ARG:NH2	2.38	0.52
3:B6:58:LYS:HG2	3:B6:92:ASP:CB	2.39	0.52
3:CB:52:THR:OG1	3:CB:53:SER:N	2.41	0.52
3:CC:20:PHE:HE2	3:CC:43:SER:HB2	1.73	0.52
3:CI:45:PHE:CZ	3:CI:61:LEU:HD23	2.44	0.52
3:3:61:LEU:HB2	3:3:89:VAL:HG22	1.91	0.52
3:3:90:ASP:HB2	3:4:88:THR:CG2	2.40	0.52
3:7:89:VAL:HG12	3:8:89:VAL:HG22	1.91	0.52
3:P:52:THR:HG22	3:P:56:ARG:O	2.10	0.52
3:S:61:LEU:HB2	3:S:89:VAL:HG22	1.91	0.52
3:W:32:VAL:HG12	3:W:45:PHE:HB3	1.92	0.52
3:Y:62:LYS:NZ	3:Y:88:THR:OG1	2.34	0.52
3:h:36:THR:OG1	3:h:37:GLY:N	2.34	0.52
3:j:28:ASN:ND2	3:p:25:ILE:O	2.30	0.52
3:j:72:THR:HA	3:j:77:VAL:HG22	1.91	0.52
3:m:83:ARG:NH1	3:n:101:GLU:OE2	2.37	0.52
3:r:32:VAL:CG1	3:r:45:PHE:HB3	2.40	0.52
3:y:121:HIS:NE2	3:y:125:VAL:HG21	2.24	0.52
3:z:65:VAL:HG13	3:z:65:VAL:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AP:65:VAL:HG13	3:AP:65:VAL:O	2.10	0.52
3:AT:9:LYS:HE2	3:AT:9:LYS:HA	1.91	0.52
3:Ad:7:VAL:HA	3:Ad:18:HIS:O	2.09	0.52
3:Ae:124:ILE:HG23	3:Ae:125:VAL:HG23	1.91	0.52
3:Ah:7:VAL:HA	3:Ah:18:HIS:O	2.09	0.52
3:Ai:110:ALA:HB2	3:Aj:113:LEU:HD11	1.91	0.52
3:Al:45:PHE:HE2	3:Al:47:ILE:HD11	1.75	0.52
3:Ap:113:LEU:HD23	3:Ap:113:LEU:H	1.74	0.52
3:BE:106:VAL:HG12	3:BF:113:LEU:HD12	1.92	0.52
3:BG:3:LEU:HD11	3:BH:130:VAL:CG2	2.40	0.52
3:BM:61:LEU:HB2	3:BM:89:VAL:CG2	2.40	0.52
3:BS:23:ARG:HE	3:BS:33:VAL:HG21	1.73	0.52
3:Bj:64:VAL:HG13	3:Bj:85:SER:O	2.10	0.52
3:Bk:49:LEU:HG	3:Bk:58:LYS:O	2.10	0.52
3:B9:46:THR:HB	3:B9:62:LYS:HB3	1.91	0.52
3:CC:98:THR:O	3:CC:102:ARG:HG3	2.10	0.52
3:CM:46:THR:O	3:CM:61:LEU:HA	2.09	0.52
3:8:38:VAL:HG11	3:8:79:PRO:CG	2.40	0.52
3:E:49:LEU:HD12	3:E:58:LYS:O	2.10	0.52
3:P:120:VAL:O	3:P:124:ILE:HG22	2.10	0.52
3:T:120:VAL:O	3:T:124:ILE:HG22	2.10	0.52
3:U:23:ARG:HH21	3:U:33:VAL:HG11	1.75	0.52
3:W:117:LYS:CD	3:X:6:LEU:HD11	2.39	0.52
3:n:19:THR:O	3:n:34:GLU:HG3	2.10	0.52
3:r:22:PRO:HA	3:r:32:VAL:HA	1.92	0.52
3:r:24:ASP:OD2	3:Ad:129:GLY:HA3	2.09	0.52
3:K:29:VAL:HG22	3:K:48:SER:CB	2.39	0.52
3:AQ:8:LEU:HD13	3:AQ:20:PHE:CE2	2.45	0.52
3:AT:29:VAL:HG13	3:AT:48:SER:HB3	1.91	0.52
3:AT:56:ARG:NH2	3:AT:92:ASP:OD2	2.31	0.52
3:AU:36:THR:OG1	3:AU:37:GLY:N	2.39	0.52
3:Ah:9:LYS:HE2	3:Ah:9:LYS:HA	1.90	0.52
3:Ao:122:ASP:HA	3:Ao:126:ASN:HB2	1.90	0.52
3:Aw:25:ILE:HD11	3:Aw:28:ASN:HA	1.92	0.52
3:Ay:120:VAL:O	3:Ay:124:ILE:HG22	2.09	0.52
3:A2:32:VAL:O	3:A2:44:ARG:HA	2.10	0.52
3:A4:44:ARG:O	3:A4:63:LEU:HA	2.10	0.52
3:A5:45:PHE:HE2	3:A5:47:ILE:HD11	1.75	0.52
3:A0:23:ARG:HA	3:Bv:128:GLN:HE22	1.75	0.52
3:BF:64:VAL:HG13	3:BF:85:SER:O	2.10	0.52
3:BG:36:THR:OG1	3:BG:37:GLY:N	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:20:PHE:HA	3:BM:34:GLU:HB2	1.90	0.52
3:BP:63:LEU:HB3	3:BP:87:VAL:CG1	2.40	0.52
3:BZ:47:ILE:HG13	3:BZ:61:LEU:HD22	1.91	0.52
3:Bl:20:PHE:HB3	3:Bl:32:VAL:HG11	1.91	0.52
3:Bx:65:VAL:O	3:Bx:65:VAL:HG13	2.10	0.52
3:B9:121:HIS:HA	3:B9:124:ILE:HG22	1.92	0.52
3:CC:61:LEU:HB2	3:CC:89:VAL:CG2	2.40	0.52
3:CK:49:LEU:HD11	3:CL:123:THR:HG23	1.91	0.52
3:CQ:98:THR:O	3:CQ:102:ARG:HG3	2.10	0.52
3:C:4:GLN:CG	3:D:119:LEU:HD12	2.40	0.52
3:T:23:ARG:HG3	3:T:33:VAL:HG23	1.92	0.52
3:j:23:ARG:HD3	3:BF:127:LEU:O	2.09	0.52
3:q:36:THR:OG1	3:q:37:GLY:N	2.43	0.52
3:x:14:THR:HG23	3:x:16:ASN:OD1	2.10	0.52
3:z:47:ILE:CD1	3:z:61:LEU:HG	2.40	0.52
3:G:8:LEU:HD13	3:G:20:PHE:CE1	2.45	0.52
3:J:7:VAL:HA	3:J:18:HIS:O	2.10	0.52
3:K:123:THR:HG23	3:L:49:LEU:HD22	1.92	0.52
3:N:7:VAL:HA	3:N:18:HIS:O	2.10	0.52
3:N:124:ILE:HG23	3:N:125:VAL:HG23	1.91	0.52
3:AA:23:ARG:NH2	3:AA:33:VAL:HG21	2.25	0.52
3:AA:63:LEU:HB3	3:AA:87:VAL:CG1	2.39	0.52
3:AB:68:VAL:HG11	3:AB:79:PRO:HB2	1.92	0.52
3:AC:8:LEU:HD11	3:AD:112:ALA:HB2	1.92	0.52
3:AV:57:TYR:O	3:AV:92:ASP:HA	2.09	0.52
3:AW:7:VAL:O	3:AX:117:LYS:HE2	2.09	0.52
3:AW:35:SER:HB2	3:AW:42:GLU:HB3	1.91	0.52
3:AZ:65:VAL:O	3:AZ:65:VAL:HG13	2.10	0.52
3:Ad:98:THR:O	3:Ad:101:GLU:HG2	2.10	0.52
3:Ag:29:VAL:HG22	3:Ag:48:SER:HB3	1.91	0.52
3:An:98:THR:HG22	3:An:100:LYS:H	1.75	0.52
3:Aq:32:VAL:CG1	3:Aq:45:PHE:HB3	2.39	0.52
3:As:117:LYS:NZ	3:At:7:VAL:O	2.32	0.52
3:A1:110:ALA:HB2	3:A2:113:LEU:HD11	1.91	0.52
3:BA:63:LEU:HB3	3:BA:87:VAL:CG1	2.40	0.52
3:BG:64:VAL:HG22	3:BG:86:TYR:CD1	2.45	0.52
3:BG:122:ASP:HA	3:BG:126:ASN:HB2	1.92	0.52
3:BL:20:PHE:HA	3:BL:34:GLU:OE1	2.10	0.52
3:BO:32:VAL:CG2	3:BO:45:PHE:HB3	2.39	0.52
3:Bg:7:VAL:O	3:Bh:117:LYS:HE2	2.09	0.52
3:Bk:123:THR:HG23	3:Bl:49:LEU:HD22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bv:64:VAL:HG13	3:Bv:85:SER:O	2.09	0.52
3:B2:82:VAL:HG23	3:B2:83:ARG:HG2	1.91	0.52
3:B3:18:HIS:HB3	3:B3:34:GLU:OE1	2.09	0.52
3:B5:7:VAL:O	3:B6:117:LYS:NZ	2.41	0.52
3:B5:20:PHE:HB3	3:B5:32:VAL:HG22	1.92	0.52
3:B8:58:LYS:HG2	3:B8:92:ASP:HB3	1.92	0.52
3:B0:122:ASP:HA	3:B0:126:ASN:OD1	2.09	0.52
3:CL:7:VAL:HA	3:CL:18:HIS:O	2.09	0.52
3:CQ:57:TYR:O	3:CQ:93:TYR:N	2.42	0.52
3:CQ:68:VAL:HG12	3:CQ:81:VAL:HG22	1.91	0.52
3:CQ:104:ASN:HD22	3:CR:11:ARG:HB2	1.75	0.52
3:6:36:THR:OG1	3:6:37:GLY:N	2.38	0.52
3:D:104:ASN:O	3:D:108:MET:HG2	2.10	0.52
3:P:24:ASP:HB3	3:BR:129:GLY:HA3	1.91	0.52
3:Y:52:THR:HG21	3:Y:58:LYS:HZ3	1.75	0.52
3:f:25:ILE:HG12	3:f:30:GLY:HA2	1.92	0.52
3:l:29:VAL:HG22	3:l:48:SER:CB	2.39	0.52
3:q:32:VAL:CG1	3:q:45:PHE:HB3	2.40	0.52
3:y:33:VAL:HA	3:y:43:SER:O	2.10	0.52
3:z:40:ILE:CG2	3:z:68:VAL:HG21	2.39	0.52
3:I:90:ASP:OD1	3:J:88:THR:OG1	2.26	0.52
3:J:5:ASN:OD1	3:J:21:VAL:HG12	2.10	0.52
3:J:68:VAL:HG11	3:J:79:PRO:HB2	1.92	0.52
3:AW:118:MET:SD	3:AW:118:MET:N	2.76	0.52
3:AX:32:VAL:CG2	3:AX:45:PHE:HB3	2.39	0.52
3:AY:61:LEU:HB2	3:AY:89:VAL:CG2	2.40	0.52
3:Ac:7:VAL:HA	3:Ac:18:HIS:O	2.10	0.52
3:Ac:59:SER:OG	3:Ac:91:PHE:HB2	2.10	0.52
3:Ad:61:LEU:N	3:Ad:89:VAL:O	2.39	0.52
3:Ax:61:LEU:N	3:Ax:89:VAL:O	2.33	0.52
3:Az:38:VAL:HG22	3:Az:40:ILE:HG12	1.92	0.52
3:A4:7:VAL:HA	3:A4:18:HIS:O	2.10	0.52
3:A8:45:PHE:HD1	3:A8:63:LEU:HD13	1.73	0.52
3:BG:61:LEU:HB2	3:BG:89:VAL:CG2	2.39	0.52
3:Bc:47:ILE:HD13	3:Bc:61:LEU:HD11	1.92	0.52
3:Bw:4:GLN:HE21	3:Bx:119:LEU:HB2	1.73	0.52
3:B3:127:LEU:HD13	3:B4:102:ARG:NH1	2.25	0.52
3:B4:113:LEU:H	3:B4:113:LEU:HD23	1.75	0.52
3:CD:34:GLU:O	3:CD:42:GLU:HG3	2.09	0.52
3:CH:52:THR:OG1	3:CH:53:SER:N	2.42	0.52
3:CH:64:VAL:HG13	3:CH:85:SER:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CI:120:VAL:O	3:CI:124:ILE:HG22	2.10	0.52
3:CL:64:VAL:HG13	3:CL:85:SER:O	2.10	0.52
3:CL:82:VAL:HG23	3:CL:83:ARG:HG2	1.91	0.52
3:CO:90:ASP:HB2	3:CP:88:THR:OG1	2.09	0.52
3:CQ:72:THR:OG1	3:CQ:77:VAL:HG22	2.09	0.52
3:3:20:PHE:HB3	3:3:32:VAL:HG22	1.92	0.52
3:8:68:VAL:HG13	3:8:80:VAL:O	2.10	0.52
3:9:63:LEU:HB3	3:9:87:VAL:CG1	2.40	0.52
3:C:71:GLN:HB3	3:C:78:THR:O	2.10	0.52
3:O:45:PHE:HD1	3:O:63:LEU:HD13	1.72	0.52
3:g:63:LEU:HB3	3:g:87:VAL:CG1	2.40	0.52
3:h:24:ASP:HB2	3:n:28:ASN:ND2	2.25	0.52
3:u:8:LEU:HD23	3:u:20:PHE:HE1	1.75	0.52
3:J:58:LYS:HG2	3:J:92:ASP:HB3	1.91	0.52
3:N:25:ILE:HD13	3:N:30:GLY:HA2	1.92	0.52
3:AB:61:LEU:N	3:AB:89:VAL:O	2.31	0.52
3:AQ:68:VAL:HG22	3:AQ:81:VAL:HG22	1.92	0.52
3:Ad:52:THR:HG21	3:Ad:56:ARG:HB2	1.92	0.52
3:Ag:66:PRO:HB3	3:Ag:84:THR:HG22	1.92	0.52
3:Aq:14:THR:HG23	3:Aq:16:ASN:OD1	2.10	0.52
3:At:25:ILE:CD1	3:At:30:GLY:HA2	2.38	0.52
3:A5:36:THR:OG1	3:A5:37:GLY:N	2.37	0.52
3:BI:32:VAL:HG22	3:BI:45:PHE:HB3	1.92	0.52
3:BN:98:THR:HG22	3:BN:100:LYS:H	1.75	0.52
3:BO:44:ARG:O	3:BO:63:LEU:HD12	2.10	0.52
3:Bb:32:VAL:CG1	3:Bb:45:PHE:HB3	2.39	0.52
3:Bb:38:VAL:HG11	3:Bb:79:PRO:CG	2.40	0.52
3:Bd:70:SER:HA	3:Bd:79:PRO:HB3	1.91	0.52
3:Bg:106:VAL:HG13	3:Bh:113:LEU:HD11	1.92	0.52
3:Bh:71:GLN:HB3	3:Bh:78:THR:O	2.10	0.52
3:Bv:34:GLU:O	3:Bv:42:GLU:HB2	2.09	0.52
3:B3:63:LEU:HB3	3:B3:87:VAL:HG13	1.92	0.52
3:B4:58:LYS:HG2	3:B4:92:ASP:CB	2.40	0.52
3:CI:57:TYR:O	3:CI:92:ASP:HA	2.09	0.52
3:CQ:113:LEU:HD11	3:CR:106:VAL:HG21	1.92	0.52
3:CT:3:LEU:HD21	3:CT:22:PRO:HB3	1.92	0.52
3:6:29:VAL:HG13	3:6:48:SER:HB3	1.92	0.51
3:7:36:THR:OG1	3:7:37:GLY:N	2.42	0.51
3:8:63:LEU:O	3:8:87:VAL:HG22	2.09	0.51
3:B:34:GLU:HB3	3:B:43:SER:H	1.74	0.51
3:D:32:VAL:HG22	3:D:45:PHE:HB3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:39:PRO:HD2	3:A9:95:ALA:O	2.10	0.51
3:T:67:VAL:O	3:T:82:VAL:HG22	2.10	0.51
3:U:24:ASP:HB2	3:Bv:28:ASN:ND2	2.25	0.51
3:W:8:LEU:CD1	3:X:112:ALA:HA	2.40	0.51
3:Z:3:LEU:HD13	3:Z:25:ILE:HD11	1.92	0.51
3:a:50:ARG:CG	3:a:58:LYS:HB2	2.41	0.51
3:d:109:ILE:O	3:d:113:LEU:HG	2.10	0.51
3:g:83:ARG:NH2	3:h:101:GLU:OE2	2.34	0.51
3:q:120:VAL:O	3:q:124:ILE:HG22	2.10	0.51
3:r:73:VAL:HG11	3:Ad:71:GLN:NE2	2.25	0.51
3:s:63:LEU:HB3	3:s:87:VAL:CG1	2.41	0.51
3:x:32:VAL:CG2	3:x:45:PHE:HB3	2.40	0.51
3:z:113:LEU:HA	3:z:120:VAL:HG11	1.92	0.51
3:AC:123:THR:HG23	3:AD:49:LEU:HD22	1.91	0.51
3:AU:122:ASP:O	3:AU:126:ASN:HB2	2.11	0.51
3:AV:131:TYR:CD1	3:Bl:24:ASP:HA	2.45	0.51
3:Af:76:ILE:HB	3:B4:69:GLN:NE2	2.26	0.51
3:Ag:121:HIS:HA	3:Ag:124:ILE:HG22	1.92	0.51
3:Ap:35:SER:HA	3:Ap:42:GLU:CG	2.40	0.51
3:Ar:63:LEU:HB3	3:Ar:87:VAL:CG1	2.39	0.51
3:As:33:VAL:HG12	3:As:44:ARG:CA	2.39	0.51
3:Au:71:GLN:NE2	3:Au:78:THR:O	2.43	0.51
3:A5:83:ARG:NH2	3:A6:101:GLU:OE2	2.36	0.51
3:A8:63:LEU:HB3	3:A8:87:VAL:HG21	1.92	0.51
3:BF:7:VAL:HA	3:BF:18:HIS:O	2.10	0.51
3:BG:96:ARG:HA	3:CT:40:ILE:HD11	1.91	0.51
3:BI:82:VAL:HG23	3:BI:83:ARG:HG2	1.90	0.51
3:BK:62:LYS:NZ	3:BK:88:THR:OG1	2.32	0.51
3:BY:32:VAL:CG2	3:BY:45:PHE:HB3	2.40	0.51
3:Bj:52:THR:HG21	3:Bj:56:ARG:HB2	1.91	0.51
3:Bm:47:ILE:HA	3:Bm:60:THR:O	2.10	0.51
3:B8:124:ILE:HG23	3:B8:125:VAL:HG23	1.93	0.51
3:CH:44:ARG:O	3:CH:63:LEU:HA	2.10	0.51
3:CL:113:LEU:H	3:CL:113:LEU:HD23	1.75	0.51
3:CP:62:LYS:HZ1	3:CP:64:VAL:HG22	1.73	0.51
3:CT:52:THR:HG21	3:CT:56:ARG:HB2	1.91	0.51
3:2:32:VAL:HG22	3:2:45:PHE:HB3	1.91	0.51
3:3:32:VAL:CG1	3:3:45:PHE:HB3	2.41	0.51
3:3:49:LEU:HD12	3:3:58:LYS:O	2.10	0.51
3:9:10:ASP:HB3	3:9:12:GLU:OE1	2.10	0.51
3:R:47:ILE:HD12	3:R:61:LEU:HG	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:128:GLN:HA	3:BV:23:ARG:HH21	1.76	0.51
3:V:24:ASP:HB2	3:b:28:ASN:ND2	2.25	0.51
3:W:51:LYS:HE2	3:W:57:TYR:CE2	2.46	0.51
3:d:123:THR:HG23	3:d:128:GLN:O	2.10	0.51
3:f:7:VAL:HA	3:f:18:HIS:O	2.09	0.51
3:m:97:SER:O	3:m:102:ARG:NH1	2.44	0.51
3:K:8:LEU:CD2	3:L:117:LYS:HE2	2.41	0.51
3:AQ:122:ASP:HB3	3:AQ:128:GLN:HG3	1.91	0.51
3:AR:23:ARG:NH2	3:AR:33:VAL:HG21	2.25	0.51
3:Ad:20:PHE:HA	3:Ad:34:GLU:OE1	2.11	0.51
3:Ag:36:THR:OG1	3:Ag:37:GLY:N	2.35	0.51
3:Ah:63:LEU:HB3	3:Ah:87:VAL:CG1	2.41	0.51
3:Ao:8:LEU:HD11	3:Ap:112:ALA:HA	1.93	0.51
3:At:3:LEU:HD22	3:At:25:ILE:HD11	1.92	0.51
3:A2:30:GLY:HA3	3:A2:47:ILE:HB	1.92	0.51
3:A3:63:LEU:HB3	3:A3:87:VAL:CG1	2.41	0.51
3:BA:119:LEU:HD12	3:BB:4:GLN:CD	2.34	0.51
3:BG:66:PRO:CA	3:BG:84:THR:HG22	2.40	0.51
3:BN:48:SER:OG	3:BN:60:THR:HB	2.10	0.51
3:BQ:90:ASP:HB2	3:BR:88:THR:OG1	2.10	0.51
3:BV:9:LYS:HE2	3:BV:15:PRO:HB2	1.91	0.51
3:Bl:46:THR:HB	3:Bl:62:LYS:HB2	1.91	0.51
3:Bu:120:VAL:O	3:Bu:124:ILE:HG22	2.09	0.51
3:Bw:29:VAL:HA	3:Bw:48:SER:HB2	1.93	0.51
3:B8:44:ARG:O	3:B8:63:LEU:HA	2.10	0.51
3:CH:122:ASP:HA	3:CH:126:ASN:HB2	1.91	0.51
3:CP:67:VAL:O	3:CP:82:VAL:HG22	2.11	0.51
2:AE:561:A:O4'	3:BG:60:THR:HG21	2.10	0.51
3:0:63:LEU:HB3	3:0:87:VAL:CG1	2.40	0.51
3:1:120:VAL:O	3:1:124:ILE:HG22	2.10	0.51
3:3:92:ASP:OD1	3:3:92:ASP:N	2.43	0.51
3:3:98:THR:HA	3:B0:38:VAL:HB	1.92	0.51
3:T:32:VAL:HG12	3:T:45:PHE:HB3	1.91	0.51
3:V:80:VAL:HG12	3:b:96:ARG:HH22	1.76	0.51
3:q:33:VAL:HA	3:q:43:SER:O	2.11	0.51
3:r:114:LYS:NZ	3:r:116:ASP:HB2	2.25	0.51
3:v:20:PHE:HA	3:v:34:GLU:OE1	2.10	0.51
3:v:117:LYS:O	3:v:121:HIS:HB3	2.11	0.51
3:H:24:ASP:HB2	3:N:28:ASN:ND2	2.25	0.51
3:L:25:ILE:HG22	3:L:30:GLY:CA	2.39	0.51
3:AP:64:VAL:HG13	3:AP:85:SER:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AV:64:VAL:HG13	3:AV:85:SER:O	2.10	0.51
3:AW:8:LEU:HD13	3:AW:20:PHE:CE1	2.45	0.51
3:AX:51:LYS:NZ	3:AX:52:THR:O	2.42	0.51
3:Ad:23:ARG:HD3	3:Ad:33:VAL:HG21	1.93	0.51
3:Ae:4:GLN:HE21	3:Af:119:LEU:HB2	1.75	0.51
3:Ai:65:VAL:HG21	3:Aj:108:MET:CE	2.40	0.51
3:As:104:ASN:O	3:As:108:MET:HG2	2.11	0.51
3:At:57:TYR:O	3:At:92:ASP:HA	2.11	0.51
3:Au:63:LEU:HB3	3:Au:87:VAL:CG1	2.41	0.51
3:A4:10:ASP:OD1	3:A4:15:PRO:HA	2.11	0.51
3:BD:38:VAL:HG12	3:BD:40:ILE:HG22	1.93	0.51
3:BZ:112:ALA:O	3:BZ:120:VAL:HG11	2.10	0.51
3:Bh:10:ASP:HB3	3:Bh:12:GLU:OE1	2.09	0.51
3:Bl:63:LEU:HB3	3:Bl:87:VAL:HG21	1.93	0.51
3:Bn:67:VAL:O	3:Bn:82:VAL:HG22	2.10	0.51
3:Bw:121:HIS:HA	3:Bw:124:ILE:HG22	1.92	0.51
3:B1:39:PRO:HA	3:B1:42:GLU:OE2	2.10	0.51
3:B1:110:ALA:HB2	3:B2:113:LEU:HD11	1.90	0.51
3:B4:34:GLU:O	3:B4:42:GLU:HG3	2.10	0.51
3:B0:9:LYS:NZ	3:B0:17:ASP:OD1	2.32	0.51
3:CA:118:MET:SD	3:CA:118:MET:N	2.76	0.51
3:CL:44:ARG:O	3:CL:63:LEU:HA	2.10	0.51
3:CN:20:PHE:HE2	3:CN:43:SER:HB2	1.76	0.51
3:CP:30:GLY:O	3:CP:46:THR:HA	2.10	0.51
3:CQ:29:VAL:HA	3:CQ:48:SER:OG	2.09	0.51
3:CS:111:ASP:HB3	3:CT:8:LEU:HD12	1.93	0.51
3:5:51:LYS:HD3	3:5:57:TYR:CE2	2.45	0.51
3:A:63:LEU:HB3	3:A:87:VAL:CG1	2.41	0.51
3:B:82:VAL:HG23	3:B:83:ARG:HG2	1.92	0.51
3:E:120:VAL:O	3:E:124:ILE:HG22	2.10	0.51
3:Q:99:THR:OG1	3:BV:37:GLY:HA2	2.10	0.51
3:a:29:VAL:HA	3:a:48:SER:OG	2.10	0.51
3:a:51:LYS:HD3	3:a:57:TYR:CE2	2.45	0.51
3:j:45:PHE:HD1	3:j:63:LEU:HD13	1.76	0.51
3:j:63:LEU:HB3	3:j:87:VAL:HG21	1.91	0.51
3:o:9:LYS:HG2	3:o:16:ASN:O	2.11	0.51
3:o:121:HIS:HA	3:o:124:ILE:HG22	1.91	0.51
3:s:32:VAL:CG2	3:s:45:PHE:HB3	2.40	0.51
3:v:23:ARG:HB3	3:v:31:GLU:HG3	1.92	0.51
3:x:118:MET:SD	3:x:118:MET:N	2.77	0.51
3:J:23:ARG:O	3:CH:128:GLN:NE2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:8:LEU:HD13	3:L:20:PHE:CE2	2.46	0.51
3:AC:20:PHE:HB3	3:AC:32:VAL:HB	1.93	0.51
3:AQ:100:LYS:O	3:AQ:104:ASN:ND2	2.40	0.51
3:Ae:8:LEU:HD23	3:Ae:20:PHE:HE1	1.75	0.51
3:Af:76:ILE:HB	3:B4:69:GLN:HE22	1.75	0.51
3:Aq:31:GLU:OE2	3:Aq:44:ARG:HG3	2.11	0.51
3:Aw:129:GLY:HA3	3:A1:24:ASP:OD2	2.11	0.51
3:Az:26:ARG:HA	3:Az:26:ARG:HH11	1.76	0.51
3:BI:112:ALA:HB2	3:BJ:8:LEU:CD1	2.40	0.51
3:BK:29:VAL:HA	3:BK:48:SER:OG	2.11	0.51
3:BL:11:ARG:NH2	3:BL:114:LYS:O	2.43	0.51
3:BN:5:ASN:OD1	3:BN:21:VAL:HG12	2.10	0.51
3:BR:122:ASP:O	3:BR:126:ASN:HB2	2.11	0.51
3:Bj:82:VAL:HG23	3:Bj:83:ARG:HG2	1.93	0.51
3:Bm:90:ASP:HB2	3:Bn:88:THR:OG1	2.11	0.51
3:Bu:4:GLN:NE2	3:Bv:119:LEU:HB2	2.25	0.51
3:B4:58:LYS:HG2	3:B4:92:ASP:HB3	1.92	0.51
3:B4:64:VAL:HG13	3:B4:85:SER:O	2.09	0.51
3:B7:32:VAL:HG13	3:B7:45:PHE:HB3	1.92	0.51
3:CN:108:MET:HE2	3:CN:108:MET:HA	1.91	0.51
3:CT:68:VAL:HG11	3:CT:79:PRO:HB2	1.92	0.51
3:0:111:ASP:OD2	3:9:9:LYS:N	2.30	0.51
3:2:129:GLY:HA3	3:y:24:ASP:OD2	2.09	0.51
3:3:32:VAL:HG13	3:3:45:PHE:HB3	1.92	0.51
3:3:38:VAL:HG12	3:3:40:ILE:HG12	1.92	0.51
3:5:64:VAL:HG12	3:5:66:PRO:HD3	1.92	0.51
3:Q:7:VAL:HG13	3:Q:17:ASP:HB3	1.92	0.51
3:Q:61:LEU:HB2	3:Q:89:VAL:HG22	1.92	0.51
3:Q:124:ILE:HD13	3:R:106:VAL:HG13	1.93	0.51
3:W:89:VAL:HG12	3:X:89:VAL:HG22	1.93	0.51
3:f:20:PHE:HA	3:f:34:GLU:OE1	2.11	0.51
3:g:9:LYS:N	3:h:111:ASP:OD2	2.44	0.51
3:G:14:THR:HG23	3:G:16:ASN:OD1	2.10	0.51
3:AD:98:THR:HA	3:AS:37:GLY:O	2.10	0.51
3:Aa:69:GLN:NE2	3:Aa:82:VAL:HG11	2.25	0.51
3:Ae:37:GLY:O	3:Ae:39:PRO:HD3	2.11	0.51
3:Ae:61:LEU:HB2	3:Ae:89:VAL:CG2	2.41	0.51
3:Ah:64:VAL:HG12	3:Ah:66:PRO:HD3	1.92	0.51
3:Aj:64:VAL:HG13	3:Aj:85:SER:O	2.11	0.51
3:Am:124:ILE:HG13	3:Am:125:VAL:HG23	1.92	0.51
3:As:112:ALA:HA	3:As:117:LYS:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ay:61:LEU:HB2	3:Ay:89:VAL:CG2	2.41	0.51
3:BB:33:VAL:HG22	3:BB:44:ARG:CB	2.41	0.51
3:BC:7:VAL:HA	3:BC:18:HIS:O	2.10	0.51
3:BF:82:VAL:HG23	3:BF:83:ARG:HG2	1.92	0.51
3:BQ:122:ASP:HA	3:BQ:126:ASN:HB2	1.93	0.51
3:BV:52:THR:HG22	3:BV:56:ARG:O	2.10	0.51
3:BZ:29:VAL:HA	3:BZ:47:ILE:O	2.11	0.51
3:Bc:121:HIS:HA	3:Bc:124:ILE:HG22	1.92	0.51
3:Bd:104:ASN:O	3:Bd:108:MET:HG3	2.10	0.51
3:Bg:23:ARG:NH2	3:Bg:33:VAL:HG21	2.26	0.51
3:Bk:8:LEU:HG	3:Bk:20:PHE:HE1	1.73	0.51
3:Bl:7:VAL:HA	3:Bl:18:HIS:O	2.10	0.51
3:Bm:44:ARG:O	3:Bm:63:LEU:HA	2.11	0.51
3:Bx:3:LEU:HD21	3:Bx:32:VAL:HG22	1.93	0.51
3:B2:47:ILE:HD12	3:B2:61:LEU:HG	1.91	0.51
3:B5:10:ASP:CB	3:B5:16:ASN:HB3	2.39	0.51
3:B6:64:VAL:HG13	3:B6:85:SER:O	2.10	0.51
3:B7:20:PHE:HB3	3:B7:32:VAL:HG22	1.92	0.51
3:B0:20:PHE:HB3	3:B0:32:VAL:CG1	2.38	0.51
3:CM:121:HIS:HA	3:CM:124:ILE:HG22	1.91	0.51
3:CP:10:ASP:HB3	3:CP:12:GLU:OE1	2.11	0.51
3:CQ:38:VAL:HG12	3:CQ:40:ILE:HG12	1.93	0.51
3:CS:19:THR:O	3:CS:34:GLU:HG3	2.10	0.51
3:0:97:SER:O	3:0:102:ARG:NH1	2.44	0.51
3:8:38:VAL:HG11	3:8:79:PRO:HG3	1.93	0.51
3:B:63:LEU:HB3	3:B:87:VAL:HG21	1.91	0.51
3:B:68:VAL:HG13	3:B:80:VAL:O	2.10	0.51
3:Y:38:VAL:HG12	3:Y:40:ILE:HG22	1.92	0.51
3:Y:63:LEU:HB3	3:Y:87:VAL:CG1	2.40	0.51
3:c:32:VAL:CG2	3:c:45:PHE:HB3	2.41	0.51
3:f:20:PHE:HD1	3:f:34:GLU:HB2	1.76	0.51
3:w:7:VAL:O	3:x:117:LYS:HE2	2.11	0.51
3:G:33:VAL:HG13	3:G:42:GLU:HB2	1.93	0.51
3:I:110:ALA:CB	3:J:113:LEU:HD11	2.40	0.51
3:AP:46:THR:HB	3:AP:62:LYS:HD2	1.92	0.51
3:Aa:69:GLN:NE2	3:B3:76:ILE:HD12	2.26	0.51
3:Aa:69:GLN:HE21	3:Aa:82:VAL:HG11	1.76	0.51
3:Ac:57:TYR:O	3:Ac:92:ASP:HA	2.11	0.51
3:Ad:25:ILE:HD11	3:Ad:28:ASN:HA	1.92	0.51
3:Ad:72:THR:HA	3:Ad:77:VAL:HA	1.93	0.51
3:Ae:6:LEU:HG	3:Ae:8:LEU:HD21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Au:66:PRO:HA	3:Au:84:THR:HG22	1.92	0.51
3:Av:98:THR:N	3:Av:101:GLU:OE2	2.44	0.51
3:Ax:44:ARG:O	3:Ax:63:LEU:HD12	2.11	0.51
3:A1:32:VAL:CG1	3:A1:45:PHE:HB3	2.40	0.51
3:A3:61:LEU:HB2	3:A3:89:VAL:HG22	1.93	0.51
3:A5:61:LEU:N	3:A5:89:VAL:O	2.43	0.51
3:A8:9:LYS:CE	3:A8:15:PRO:HB2	2.41	0.51
3:BB:9:LYS:HE2	3:BB:15:PRO:HB2	1.91	0.51
3:BB:47:ILE:CD1	3:BB:61:LEU:HG	2.41	0.51
3:BE:38:VAL:HG12	3:BE:40:ILE:HG12	1.92	0.51
3:BK:61:LEU:HB2	3:BK:89:VAL:HG22	1.93	0.51
3:BL:64:VAL:HG13	3:BL:85:SER:O	2.09	0.51
3:BS:45:PHE:HA	3:BS:62:LYS:O	2.11	0.51
3:BZ:22:PRO:HB3	3:BZ:32:VAL:HG12	1.92	0.51
3:Bd:68:VAL:CG1	3:Bd:79:PRO:HB2	2.39	0.51
3:Bw:112:ALA:HA	3:Bw:117:LYS:HE2	1.93	0.51
3:Bx:57:TYR:O	3:Bx:92:ASP:HA	2.11	0.51
3:B1:38:VAL:HG12	3:B1:40:ILE:HG12	1.92	0.51
3:B3:91:PHE:HB3	3:B3:93:TYR:CE2	2.46	0.51
3:B9:56:ARG:NH1	3:B0:83:ARG:HD2	2.24	0.51
3:CB:23:ARG:NH2	3:CB:31:GLU:OE2	2.32	0.51
3:CQ:63:LEU:HB3	3:CQ:87:VAL:CG1	2.41	0.51
3:CR:51:LYS:NZ	3:CR:55:GLY:HA2	2.26	0.51
3:4:43:SER:HA	3:4:64:VAL:O	2.11	0.51
3:O:57:TYR:N	3:O:93:TYR:O	2.35	0.51
3:P:57:TYR:O	3:P:92:ASP:HA	2.10	0.51
3:g:71:GLN:HB3	3:g:78:THR:O	2.11	0.51
3:i:61:LEU:HB2	3:i:89:VAL:CG2	2.40	0.51
3:j:28:ASN:ND2	3:p:24:ASP:HB2	2.25	0.51
3:s:32:VAL:HG22	3:s:45:PHE:HB3	1.93	0.51
3:y:71:GLN:NE2	3:y:78:THR:O	2.43	0.51
3:G:97:SER:O	3:G:102:ARG:NH1	2.43	0.51
3:M:35:SER:CB	3:M:42:GLU:HG3	2.40	0.51
3:N:35:SER:HA	3:N:42:GLU:HG3	1.92	0.51
3:AB:33:VAL:HG13	3:AB:42:GLU:HB3	1.93	0.51
3:AB:34:GLU:O	3:AB:42:GLU:HG3	2.10	0.51
3:AC:32:VAL:CG2	3:AC:45:PHE:HB3	2.40	0.51
3:AC:129:GLY:O	3:AD:1:ALA:N	2.44	0.51
3:AS:61:LEU:HB2	3:AS:89:VAL:CG2	2.40	0.51
3:AT:28:ASN:ND2	3:AX:24:ASP:HB2	2.26	0.51
3:AU:9:LYS:HD2	3:AU:15:PRO:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ab:32:VAL:CG2	3:Ab:45:PHE:HB3	2.40	0.51
3:Ae:58:LYS:HG2	3:Ae:92:ASP:CB	2.39	0.51
3:Af:38:VAL:CG2	3:B3:98:THR:HG22	2.41	0.51
3:Aj:71:GLN:HE22	3:Aj:73:VAL:HG22	1.76	0.51
3:An:113:LEU:HD23	3:An:113:LEU:H	1.74	0.51
3:Ap:73:VAL:HB	3:Ap:76:ILE:CD1	2.39	0.51
3:A0:68:VAL:HG11	3:A0:79:PRO:HB2	1.92	0.51
3:BE:90:ASP:HB2	3:BF:88:THR:OG1	2.10	0.51
3:BN:124:ILE:HG23	3:BN:125:VAL:HG23	1.91	0.51
3:BZ:45:PHE:HA	3:BZ:62:LYS:O	2.10	0.51
3:Bd:7:VAL:HA	3:Bd:18:HIS:O	2.11	0.51
3:Bh:122:ASP:HB2	3:Bh:128:GLN:OE1	2.10	0.51
3:Bi:110:ALA:HB2	3:Bj:113:LEU:HD11	1.93	0.51
3:Bi:121:HIS:HA	3:Bi:124:ILE:HG22	1.92	0.51
3:Bl:46:THR:HB	3:Bl:62:LYS:HD2	1.91	0.51
3:Bu:129:GLY:O	3:Bv:1:ALA:N	2.33	0.51
3:Bv:21:VAL:HG22	3:Bv:34:GLU:HB3	1.92	0.51
3:CQ:35:SER:HB2	3:CQ:39:PRO:HA	1.92	0.51
3:CT:52:THR:OG1	3:CT:53:SER:N	2.43	0.51
3:5:7:VAL:HA	3:5:18:HIS:O	2.10	0.51
3:R:32:VAL:HB	3:R:45:PHE:HB3	1.93	0.51
3:V:121:HIS:HA	3:V:124:ILE:HG22	1.92	0.51
3:b:123:THR:HG23	3:b:128:GLN:O	2.11	0.51
3:j:52:THR:OG1	3:j:53:SER:N	2.43	0.51
3:j:68:VAL:HG11	3:j:79:PRO:HB2	1.93	0.51
3:k:10:ASP:OD2	3:k:16:ASN:HB2	2.11	0.51
3:q:122:ASP:HA	3:q:126:ASN:HB2	1.92	0.51
3:r:20:PHE:HA	3:r:34:GLU:OE1	2.09	0.51
3:u:89:VAL:HG12	3:v:89:VAL:HG22	1.91	0.51
3:G:36:THR:OG1	3:G:37:GLY:N	2.43	0.51
3:J:39:PRO:HA	3:J:42:GLU:OE2	2.10	0.51
3:AA:108:MET:HA	3:AB:8:LEU:HD23	1.93	0.51
3:Aa:31:GLU:HA	3:Aa:45:PHE:O	2.10	0.51
3:Ad:30:GLY:O	3:Ad:47:ILE:N	2.38	0.51
3:Af:10:ASP:HB2	3:Af:15:PRO:HA	1.93	0.51
3:Ai:63:LEU:HB3	3:Ai:87:VAL:CG1	2.41	0.51
3:An:9:LYS:CE	3:An:15:PRO:HB2	2.40	0.51
3:Ao:38:VAL:HG12	3:Ao:40:ILE:HG12	1.91	0.51
3:Ar:3:LEU:HD22	3:Ar:22:PRO:HB3	1.92	0.51
3:Ay:66:PRO:CA	3:Ay:84:THR:HG22	2.40	0.51
3:A6:68:VAL:HG12	3:A6:79:PRO:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:7:VAL:HA	3:BH:18:HIS:O	2.11	0.51
3:BJ:98:THR:HA	3:CC:37:GLY:O	2.11	0.51
3:BL:49:LEU:HD13	3:BL:59:SER:HB3	1.93	0.51
3:BP:44:ARG:NH2	3:BP:64:VAL:HG21	2.25	0.51
3:BQ:7:VAL:HA	3:BQ:18:HIS:O	2.11	0.51
3:Bg:33:VAL:CG1	3:Bg:42:GLU:HG3	2.41	0.51
3:Bn:68:VAL:HG11	3:Bn:79:PRO:HB2	1.92	0.51
3:Bn:114:LYS:O	3:Bn:121:HIS:HB2	2.09	0.51
3:Bw:63:LEU:HB3	3:Bw:87:VAL:CG1	2.41	0.51
3:By:125:VAL:CG2	3:Bz:106:VAL:HG11	2.38	0.51
3:B1:36:THR:OG1	3:B1:37:GLY:N	2.43	0.51
3:B2:22:PRO:HA	3:B2:32:VAL:HA	1.93	0.51
3:B4:23:ARG:NE	3:B4:31:GLU:HG2	2.25	0.51
3:B6:98:THR:HB	3:B6:101:GLU:HG2	1.91	0.51
3:B7:32:VAL:CG1	3:B7:45:PHE:HB3	2.40	0.51
3:B7:61:LEU:HB2	3:B7:89:VAL:CG2	2.41	0.51
3:CD:47:ILE:CD1	3:CD:61:LEU:HG	2.41	0.51
3:CM:38:VAL:O	3:CM:40:ILE:HG12	2.11	0.51
3:CQ:1:ALA:N	3:CR:129:GLY:O	2.43	0.51
3:CQ:61:LEU:HD12	3:CQ:89:VAL:HG21	1.93	0.51
3:CS:98:THR:O	3:CS:102:ARG:HG3	2.10	0.51
3:0:4:GLN:NE2	3:9:119:LEU:HB2	2.26	0.51
3:3:61:LEU:HB2	3:3:89:VAL:CG2	2.41	0.51
3:5:49:LEU:HG	3:5:58:LYS:O	2.10	0.51
3:9:104:ASN:O	3:9:108:MET:HG3	2.11	0.51
3:C:63:LEU:HB3	3:C:87:VAL:CG1	2.41	0.51
3:P:63:LEU:HB3	3:P:87:VAL:HG21	1.91	0.51
3:V:63:LEU:HB3	3:V:87:VAL:CG1	2.41	0.51
3:b:7:VAL:HA	3:b:18:HIS:O	2.11	0.51
3:b:38:VAL:HG22	3:b:40:ILE:HG12	1.93	0.51
3:k:3:LEU:CD2	3:l:119:LEU:HD11	2.41	0.51
3:n:33:VAL:HA	3:n:43:SER:O	2.10	0.51
3:p:51:LYS:HD3	3:p:57:TYR:CE2	2.46	0.51
3:s:47:ILE:HD12	3:s:61:LEU:HG	1.93	0.51
3:u:32:VAL:HG13	3:u:45:PHE:HB3	1.93	0.51
3:u:38:VAL:HG12	3:u:40:ILE:HG12	1.91	0.51
3:v:34:GLU:HB3	3:v:43:SER:H	1.76	0.51
3:x:23:ARG:NH2	3:x:33:VAL:HG21	2.26	0.51
3:AR:112:ALA:O	3:AR:120:VAL:HG11	2.11	0.51
3:AT:121:HIS:CE1	3:AT:125:VAL:HG21	2.45	0.51
3:AT:122:ASP:OD1	3:AT:126:ASN:ND2	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Aa:129:GLY:HA3	3:B3:24:ASP:OD2	2.11	0.51
3:Ac:36:THR:OG1	3:Ac:37:GLY:N	2.43	0.51
3:Ae:120:VAL:O	3:Ae:124:ILE:HG22	2.11	0.51
3:Af:44:ARG:HG2	3:Af:64:VAL:HB	1.93	0.51
3:Ag:71:GLN:HB3	3:Ag:78:THR:O	2.11	0.51
3:Ah:20:PHE:CD1	3:Ah:34:GLU:HB2	2.46	0.51
3:Ak:32:VAL:CG2	3:Ak:45:PHE:HB3	2.41	0.51
3:As:32:VAL:CG1	3:As:45:PHE:HB3	2.41	0.51
3:Aw:9:LYS:N	3:Ax:111:ASP:OD2	2.43	0.51
3:Aw:82:VAL:O	3:Ax:96:ARG:NH2	2.44	0.51
3:A5:14:THR:HG23	3:A5:16:ASN:OD1	2.11	0.51
3:BG:29:VAL:HA	3:BG:48:SER:OG	2.11	0.51
3:BM:50:ARG:HD3	3:BM:58:LYS:CD	2.39	0.51
3:BN:63:LEU:O	3:BN:87:VAL:HG22	2.11	0.51
3:Bc:63:LEU:HB3	3:Bc:87:VAL:CG1	2.41	0.51
3:Bj:73:VAL:HG12	3:Bj:74:ASN:ND2	2.24	0.51
3:Bk:63:LEU:HB3	3:Bk:87:VAL:CG1	2.41	0.51
3:Bm:7:VAL:O	3:Bn:117:LYS:NZ	2.34	0.51
3:Bw:86:TYR:HB2	3:Bx:92:ASP:OD2	2.11	0.51
3:By:8:LEU:CD1	3:Bz:112:ALA:HA	2.41	0.51
3:B5:44:ARG:HH21	3:B5:64:VAL:HG21	1.76	0.51
3:CH:82:VAL:HG23	3:CH:83:ARG:HG2	1.93	0.51
3:CR:120:VAL:O	3:CR:124:ILE:HG12	2.11	0.51
3:2:32:VAL:CG2	3:2:45:PHE:HB3	2.41	0.51
3:4:57:TYR:O	3:4:92:ASP:HA	2.11	0.51
3:8:102:ARG:O	3:8:106:VAL:HG23	2.11	0.51
3:9:57:TYR:CE2	3:9:95:ALA:HA	2.44	0.51
3:B:49:LEU:HD12	3:B:58:LYS:O	2.10	0.51
3:B:57:TYR:OH	3:Bd:39:PRO:HB2	2.11	0.51
3:T:124:ILE:HG23	3:T:125:VAL:HG23	1.92	0.51
3:W:20:PHE:HB3	3:W:32:VAL:HG22	1.92	0.51
3:c:47:ILE:HG23	3:d:130:VAL:HG21	1.93	0.51
3:e:8:LEU:HD11	3:f:112:ALA:HA	1.92	0.51
3:j:38:VAL:HG22	3:BE:98:THR:HG22	1.92	0.51
3:r:73:VAL:HG11	3:Ad:71:GLN:HE22	1.76	0.51
3:t:38:VAL:HG12	3:t:40:ILE:HG22	1.93	0.51
3:v:3:LEU:HG	3:v:22:PRO:HB3	1.92	0.51
3:x:45:PHE:HA	3:x:62:LYS:O	2.11	0.51
3:G:7:VAL:HG13	3:G:17:ASP:HB2	1.93	0.51
3:H:38:VAL:HG12	3:H:40:ILE:HG22	1.92	0.51
3:I:38:VAL:HG23	3:Bg:98:THR:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:118:MET:SD	3:K:118:MET:N	2.76	0.51
3:AD:14:THR:HG23	3:AD:16:ASN:OD1	2.11	0.51
3:AU:63:LEU:HB3	3:AU:87:VAL:CG1	2.41	0.51
3:AZ:20:PHE:HA	3:AZ:34:GLU:OE1	2.11	0.51
3:AZ:44:ARG:O	3:AZ:63:LEU:HA	2.11	0.51
3:Ae:49:LEU:HD21	3:Af:127:LEU:HD12	1.93	0.51
3:Ag:71:GLN:HE22	3:Ag:73:VAL:HG22	1.76	0.51
3:Ai:8:LEU:HD11	3:Aj:112:ALA:HA	1.93	0.51
3:An:12:GLU:OE1	3:An:12:GLU:N	2.44	0.51
3:Ap:7:VAL:HB	3:Ap:17:ASP:OD1	2.11	0.51
3:Aq:6:LEU:HD12	3:Ar:119:LEU:HD23	1.93	0.51
3:As:7:VAL:HA	3:As:18:HIS:O	2.11	0.51
3:Au:121:HIS:NE2	3:Au:125:VAL:HG21	2.26	0.51
3:A5:7:VAL:HA	3:A5:18:HIS:O	2.10	0.51
3:A5:63:LEU:HB3	3:A5:87:VAL:CG1	2.40	0.51
3:BA:103:ASN:OD1	3:BB:11:ARG:NH1	2.42	0.51
3:BD:20:PHE:HB3	3:BD:32:VAL:CG2	2.41	0.51
3:BI:14:THR:O	3:BI:16:ASN:ND2	2.43	0.51
3:BK:24:ASP:O	3:BK:31:GLU:HB3	2.11	0.51
3:BZ:71:GLN:NE2	3:BZ:78:THR:O	2.33	0.51
3:Bi:64:VAL:HA	3:Bi:85:SER:O	2.11	0.51
3:Bk:20:PHE:HB3	3:Bk:32:VAL:HG22	1.92	0.51
3:Bk:38:VAL:HG12	3:Bk:40:ILE:CG1	2.41	0.51
3:Bw:57:TYR:O	3:Bw:92:ASP:HA	2.11	0.51
3:B6:7:VAL:HA	3:B6:18:HIS:O	2.11	0.51
3:CD:68:VAL:HG21	3:CD:79:PRO:HB2	1.92	0.51
3:CM:32:VAL:CG1	3:CM:45:PHE:HB3	2.41	0.51
3:CM:66:PRO:HA	3:CM:84:THR:HG22	1.93	0.51
3:CN:102:ARG:O	3:CN:106:VAL:HG23	2.11	0.51
3:CO:63:LEU:HB3	3:CO:87:VAL:CG1	2.41	0.51
3:1:114:LYS:HG3	3:1:116:ASP:H	1.76	0.50
3:D:22:PRO:CA	3:D:32:VAL:HG12	2.41	0.50
3:O:98:THR:O	3:O:102:ARG:HG3	2.11	0.50
3:W:3:LEU:HD12	3:X:130:VAL:CG2	2.39	0.50
3:Y:29:VAL:HG22	3:Y:48:SER:CB	2.41	0.50
3:g:4:GLN:OE1	3:h:119:LEU:HD12	2.11	0.50
3:m:8:LEU:HD23	3:m:20:PHE:HE1	1.75	0.50
3:m:36:THR:OG1	3:m:37:GLY:N	2.41	0.50
3:o:63:LEU:HB3	3:o:87:VAL:CG1	2.42	0.50
3:r:20:PHE:HD1	3:r:34:GLU:HB2	1.75	0.50
3:t:40:ILE:HD12	3:z:96:ARG:HG2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:z:64:VAL:HG13	3:z:85:SER:O	2.11	0.50
3:AR:55:GLY:O	3:AR:95:ALA:HB2	2.12	0.50
3:AZ:20:PHE:HD1	3:AZ:34:GLU:HB2	1.76	0.50
3:Aa:64:VAL:HG12	3:Aa:66:PRO:HD3	1.92	0.50
3:Ad:52:THR:OG1	3:Ad:53:SER:N	2.42	0.50
3:Ae:39:PRO:HG2	3:Ah:127:LEU:HD12	1.91	0.50
3:Ag:20:PHE:HA	3:Ag:34:GLU:HB2	1.93	0.50
3:Ap:20:PHE:HA	3:Ap:34:GLU:OE1	2.11	0.50
3:Ar:108:MET:HA	3:Ar:108:MET:HE2	1.92	0.50
3:At:7:VAL:HA	3:At:18:HIS:O	2.11	0.50
3:At:20:PHE:HB3	3:At:32:VAL:CG1	2.41	0.50
3:Ay:8:LEU:HD11	3:Az:112:ALA:HA	1.93	0.50
3:Az:59:SER:O	3:Az:90:ASP:HA	2.11	0.50
3:A5:22:PRO:CA	3:A5:32:VAL:HG12	2.41	0.50
3:A6:25:ILE:HG12	3:A6:30:GLY:HA2	1.92	0.50
3:BF:7:VAL:HG12	3:BF:19:THR:HA	1.92	0.50
3:BG:64:VAL:HG22	3:BG:86:TYR:HD1	1.75	0.50
3:BH:121:HIS:O	3:BH:125:VAL:HB	2.11	0.50
3:BK:25:ILE:HG13	3:BK:29:VAL:O	2.11	0.50
3:BL:98:THR:HG22	3:BL:100:LYS:H	1.75	0.50
3:BP:98:THR:HA	3:Bi:37:GLY:O	2.11	0.50
3:BS:32:VAL:CG1	3:BS:45:PHE:HB3	2.39	0.50
3:Bk:7:VAL:HA	3:Bk:18:HIS:O	2.11	0.50
3:Bz:19:THR:O	3:Bz:34:GLU:HG3	2.09	0.50
3:Bz:63:LEU:HB3	3:Bz:87:VAL:HG21	1.93	0.50
3:B8:46:THR:HB	3:B8:62:LYS:HB2	1.92	0.50
3:CL:120:VAL:O	3:CL:124:ILE:HG22	2.12	0.50
3:CO:44:ARG:O	3:CO:63:LEU:HD12	2.11	0.50
3:CQ:120:VAL:O	3:CQ:124:ILE:HG22	2.10	0.50
3:4:64:VAL:HG13	3:4:85:SER:O	2.11	0.50
3:4:104:ASN:O	3:4:108:MET:HG2	2.10	0.50
3:7:68:VAL:HG12	3:7:81:VAL:HG22	1.93	0.50
3:8:38:VAL:CG2	3:AS:98:THR:HG22	2.41	0.50
3:C:37:GLY:O	3:BF:102:ARG:NH2	2.45	0.50
3:E:32:VAL:HG12	3:E:45:PHE:HB3	1.92	0.50
3:P:24:ASP:HA	3:BR:131:TYR:CD1	2.47	0.50
3:R:69:GLN:O	3:R:79:PRO:HA	2.11	0.50
3:S:104:ASN:O	3:S:108:MET:HG3	2.11	0.50
3:T:102:ARG:O	3:T:106:VAL:HG23	2.11	0.50
3:e:128:GLN:HG3	3:l:21:VAL:HG11	1.92	0.50
3:m:129:GLY:O	3:n:1:ALA:N	2.33	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s:39:PRO:O	3:BH:95:ALA:HB1	2.12	0.50
3:x:7:VAL:HA	3:x:18:HIS:O	2.12	0.50
3:J:48:SER:OG	3:J:60:THR:HB	2.10	0.50
3:AA:69:GLN:O	3:AA:80:VAL:N	2.41	0.50
3:AC:3:LEU:HA	3:AD:119:LEU:CD1	2.42	0.50
3:AC:39:PRO:HG3	3:AP:102:ARG:NH1	2.27	0.50
3:AS:117:LYS:HD2	3:AT:6:LEU:CD1	2.41	0.50
3:AV:76:ILE:HD13	3:Bz:69:GLN:NE2	2.26	0.50
3:AW:32:VAL:CG2	3:AW:45:PHE:HB3	2.41	0.50
3:Au:31:GLU:HB3	3:Au:46:THR:HA	1.93	0.50
3:A2:45:PHE:HA	3:A2:62:LYS:O	2.12	0.50
3:A3:120:VAL:O	3:A3:124:ILE:HG22	2.11	0.50
3:BB:52:THR:HG21	3:BB:56:ARG:HB2	1.93	0.50
3:BB:64:VAL:HG13	3:BB:85:SER:O	2.10	0.50
3:BB:129:GLY:HA3	3:Bz:24:ASP:OD2	2.11	0.50
3:BK:45:PHE:CZ	3:BK:61:LEU:HD12	2.46	0.50
3:BY:64:VAL:HG12	3:BY:66:PRO:HD3	1.94	0.50
3:BZ:52:THR:CG2	3:BZ:56:ARG:H	2.24	0.50
3:Bc:11:ARG:NH1	3:Bc:115:ALA:HB2	2.26	0.50
3:Bh:7:VAL:HG13	3:Bh:17:ASP:HB2	1.92	0.50
3:Bl:45:PHE:HD1	3:Bl:63:LEU:HD13	1.76	0.50
3:B7:101:GLU:OE2	3:B8:83:ARG:NH2	2.32	0.50
3:CB:32:VAL:HB	3:CB:45:PHE:HB3	1.93	0.50
3:CC:70:SER:HA	3:CC:79:PRO:HA	1.93	0.50
3:CH:39:PRO:HA	3:CH:42:GLU:OE2	2.12	0.50
3:CL:73:VAL:HG11	3:CN:69:GLN:NE2	2.26	0.50
3:A:66:PRO:HB3	3:A:84:THR:HG22	1.93	0.50
3:B:46:THR:HB	3:B:62:LYS:HD2	1.94	0.50
3:E:66:PRO:HA	3:E:84:THR:HG22	1.92	0.50
3:Q:90:ASP:HB2	3:R:88:THR:OG1	2.12	0.50
3:a:4:GLN:NE2	3:b:119:LEU:HB2	2.26	0.50
3:g:23:ARG:NE	3:g:33:VAL:HG21	2.26	0.50
3:l:64:VAL:HG12	3:l:66:PRO:HD3	1.93	0.50
3:r:58:LYS:HG2	3:r:92:ASP:HB3	1.92	0.50
3:N:49:LEU:HD12	3:N:58:LYS:O	2.11	0.50
3:AC:82:VAL:O	3:AD:96:ARG:NH2	2.45	0.50
3:AC:127:LEU:O	3:AS:23:ARG:NH1	2.38	0.50
3:Am:97:SER:HB2	3:Am:101:GLU:OE2	2.12	0.50
3:Av:20:PHE:HB3	3:Av:32:VAL:CG1	2.42	0.50
3:Aw:119:LEU:HB2	3:Ax:4:GLN:HE22	1.76	0.50
3:Ax:31:GLU:HA	3:Ax:45:PHE:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:39:PRO:HA	3:A2:42:GLU:OE2	2.12	0.50
3:BB:58:LYS:HG2	3:BB:92:ASP:CB	2.40	0.50
3:BG:9:LYS:N	3:BH:111:ASP:OD2	2.44	0.50
3:BH:82:VAL:HG23	3:BH:83:ARG:HG2	1.92	0.50
3:BK:35:SER:HB2	3:BK:39:PRO:HB3	1.92	0.50
3:BM:44:ARG:O	3:BM:63:LEU:HD12	2.11	0.50
3:BV:57:TYR:O	3:BV:92:ASP:HA	2.10	0.50
3:BV:64:VAL:HG13	3:BV:85:SER:O	2.11	0.50
3:Bv:113:LEU:HB3	3:Bv:120:VAL:CG1	2.41	0.50
3:Bw:62:LYS:HZ3	3:Bw:88:THR:HG1	1.57	0.50
3:By:3:LEU:CD2	3:By:25:ILE:HD11	2.40	0.50
3:B4:58:LYS:HA	3:B4:92:ASP:HA	1.93	0.50
3:CL:39:PRO:HA	3:CL:42:GLU:OE2	2.11	0.50
3:CM:125:VAL:HG22	3:CN:106:VAL:HG21	1.93	0.50
3:CS:31:GLU:OE2	3:CS:44:ARG:HB3	2.11	0.50
3:3:8:LEU:HD23	3:3:20:PHE:CE2	2.46	0.50
3:5:86:TYR:HB2	3:6:92:ASP:HB3	1.92	0.50
3:A:71:GLN:NE2	3:A:78:THR:O	2.44	0.50
3:T:72:THR:CA	3:T:77:VAL:HG22	2.41	0.50
3:W:61:LEU:HB2	3:W:89:VAL:CG2	2.41	0.50
3:c:63:LEU:HB3	3:c:87:VAL:CG1	2.41	0.50
3:n:7:VAL:HA	3:n:18:HIS:O	2.12	0.50
3:p:98:THR:HA	3:BE:37:GLY:O	2.12	0.50
3:s:8:LEU:HD23	3:s:20:PHE:CE1	2.46	0.50
3:H:124:ILE:HG23	3:H:125:VAL:HG23	1.93	0.50
3:I:66:PRO:HB3	3:I:84:THR:HG22	1.93	0.50
3:AA:23:ARG:HH21	3:AA:33:VAL:HG21	1.76	0.50
3:AD:23:ARG:NH2	3:AD:33:VAL:HG21	2.26	0.50
3:Aa:7:VAL:HG22	3:Aa:19:THR:HA	1.93	0.50
3:Af:38:VAL:HG12	3:Af:40:ILE:HG12	1.93	0.50
3:Ai:32:VAL:CG1	3:Ai:45:PHE:HB3	2.41	0.50
3:At:122:ASP:HA	3:At:126:ASN:HB2	1.94	0.50
3:A2:40:ILE:CG2	3:A2:68:VAL:HG21	2.39	0.50
3:A7:130:VAL:CA	3:A8:1:ALA:HB3	2.42	0.50
3:A9:7:VAL:HA	3:A9:18:HIS:O	2.11	0.50
3:A9:102:ARG:HD2	3:A0:127:LEU:HD11	1.93	0.50
3:A0:20:PHE:HB3	3:A0:32:VAL:CG1	2.42	0.50
3:A0:122:ASP:O	3:A0:127:LEU:N	2.44	0.50
3:BD:36:THR:OG1	3:BD:37:GLY:N	2.39	0.50
3:BQ:46:THR:HB	3:BQ:62:LYS:HB2	1.94	0.50
3:BV:63:LEU:O	3:BV:87:VAL:HG22	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bb:41:GLY:CA	3:Bb:66:PRO:HG2	2.41	0.50
3:Bb:128:GLN:HE22	3:B4:23:ARG:HA	1.75	0.50
3:Bc:124:ILE:HG12	3:Bd:106:VAL:HG21	1.92	0.50
3:Bg:32:VAL:CG2	3:Bg:45:PHE:HB3	2.40	0.50
3:Bg:71:GLN:HB3	3:Bg:78:THR:O	2.12	0.50
3:Bj:114:LYS:HB3	3:Bj:117:LYS:HG2	1.94	0.50
3:B3:8:LEU:HD23	3:B3:20:PHE:HE1	1.76	0.50
3:B0:40:ILE:HG22	3:B0:68:VAL:CG2	2.41	0.50
3:CD:63:LEU:O	3:CD:87:VAL:HG22	2.11	0.50
3:CL:118:MET:N	3:CL:118:MET:SD	2.76	0.50
3:CR:38:VAL:HG23	3:CS:97:SER:O	2.11	0.50
3:CT:97:SER:OG	3:CT:102:ARG:HD3	2.11	0.50
3:0:129:GLY:O	3:9:1:ALA:N	2.43	0.50
3:A:24:ASP:OD2	3:BZ:129:GLY:HA3	2.12	0.50
3:B:96:ARG:HH11	3:Bd:40:ILE:HG21	1.76	0.50
3:R:120:VAL:O	3:R:124:ILE:HG22	2.11	0.50
3:U:56:ARG:HD3	3:U:92:ASP:OD1	2.12	0.50
3:b:57:TYR:O	3:b:92:ASP:HA	2.12	0.50
3:c:130:VAL:HG12	3:d:25:ILE:HD13	1.93	0.50
3:e:7:VAL:HA	3:e:18:HIS:O	2.12	0.50
3:g:25:ILE:HD11	3:g:28:ASN:HA	1.92	0.50
3:k:29:VAL:HG22	3:k:48:SER:CB	2.41	0.50
3:k:47:ILE:HD12	3:l:120:VAL:HG23	1.93	0.50
3:m:23:ARG:NH2	3:m:33:VAL:HG21	2.25	0.50
3:r:49:LEU:HD12	3:r:58:LYS:O	2.11	0.50
3:u:90:ASP:HB2	3:v:88:THR:OG1	2.11	0.50
3:G:44:ARG:O	3:G:63:LEU:HD12	2.11	0.50
3:H:121:HIS:HA	3:H:124:ILE:HG22	1.94	0.50
3:K:3:LEU:HD13	3:K:22:PRO:HB2	1.94	0.50
3:K:32:VAL:CG2	3:K:45:PHE:HB3	2.41	0.50
3:L:49:LEU:HD12	3:L:58:LYS:O	2.12	0.50
3:L:111:ASP:OD1	3:L:117:LYS:NZ	2.43	0.50
3:M:8:LEU:O	3:M:17:ASP:HA	2.11	0.50
3:AA:121:HIS:HA	3:AA:124:ILE:HG22	1.92	0.50
3:AS:25:ILE:CD1	3:AS:30:GLY:HA2	2.42	0.50
3:AT:52:THR:HG21	3:AT:56:ARG:HB2	1.94	0.50
3:AU:8:LEU:O	3:AU:17:ASP:HA	2.12	0.50
3:AU:117:LYS:HD2	3:AV:6:LEU:CD1	2.42	0.50
3:Aa:29:VAL:HG22	3:Aa:48:SER:CB	2.42	0.50
3:Ab:99:THR:OG1	3:B3:37:GLY:HA2	2.12	0.50
3:Ae:20:PHE:HE2	3:Ae:43:SER:HB2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ay:68:VAL:HG12	3:Ay:81:VAL:HG22	1.94	0.50
3:A1:57:TYR:O	3:A1:92:ASP:HA	2.12	0.50
3:A2:30:GLY:CA	3:A2:47:ILE:HB	2.41	0.50
3:A9:120:VAL:O	3:A9:124:ILE:HG22	2.11	0.50
3:BK:121:HIS:HA	3:BK:124:ILE:HG22	1.93	0.50
3:BM:23:ARG:HA	3:BP:128:GLN:HG3	1.92	0.50
3:BN:23:ARG:CD	3:BN:33:VAL:HG21	2.42	0.50
3:BP:33:VAL:CG1	3:BP:42:GLU:HG3	2.41	0.50
3:BV:63:LEU:HB3	3:BV:87:VAL:HG21	1.94	0.50
3:Bg:38:VAL:HG12	3:Bg:40:ILE:HG22	1.94	0.50
3:Bn:47:ILE:CD1	3:Bn:61:LEU:HG	2.42	0.50
3:By:52:THR:OG1	3:By:58:LYS:NZ	2.44	0.50
3:B5:3:LEU:HD12	3:B6:119:LEU:HD11	1.93	0.50
3:CA:58:LYS:HA	3:CA:91:PHE:O	2.12	0.50
3:CD:38:VAL:HG22	3:CD:40:ILE:HG13	1.92	0.50
3:CM:1:ALA:HA	3:CN:131:TYR:CE1	2.47	0.50
3:CT:73:VAL:N	3:CT:76:ILE:O	2.35	0.50
3:4:24:ASP:OD2	3:CL:129:GLY:HA3	2.12	0.50
3:4:33:VAL:HG22	3:4:44:ARG:HG2	1.93	0.50
3:7:37:GLY:O	3:7:39:PRO:HD3	2.12	0.50
3:C:10:ASP:OD2	3:C:16:ASN:HB2	2.11	0.50
3:D:63:LEU:HB3	3:D:87:VAL:CG1	2.42	0.50
3:Q:9:LYS:N	3:R:111:ASP:OD2	2.44	0.50
3:S:117:LYS:HD2	3:T:6:LEU:HD11	1.94	0.50
3:Z:45:PHE:HE2	3:Z:47:ILE:HD11	1.76	0.50
3:f:28:ASN:ND2	3:l:25:ILE:O	2.32	0.50
3:i:36:THR:OG1	3:i:37:GLY:N	2.36	0.50
3:r:102:ARG:O	3:r:106:VAL:HG23	2.12	0.50
3:y:9:LYS:HA	3:y:16:ASN:O	2.11	0.50
3:z:68:VAL:HG11	3:z:79:PRO:HB2	1.94	0.50
3:I:66:PRO:HA	3:I:84:THR:HG22	1.92	0.50
3:J:52:THR:HG22	3:J:56:ARG:O	2.12	0.50
3:AB:20:PHE:CD1	3:AB:34:GLU:HB2	2.47	0.50
3:AB:31:GLU:HB3	3:AB:46:THR:OG1	2.11	0.50
3:AC:10:ASP:HB3	3:AC:16:ASN:HB2	1.92	0.50
3:AP:3:LEU:HG	3:AP:22:PRO:HB3	1.94	0.50
3:AP:61:LEU:HB2	3:AP:89:VAL:HB	1.92	0.50
3:AR:82:VAL:HG23	3:AR:83:ARG:HG2	1.93	0.50
3:AU:49:LEU:HD12	3:AU:58:LYS:O	2.12	0.50
3:AY:39:PRO:HA	3:AY:42:GLU:OE2	2.12	0.50
3:Ab:23:ARG:HH21	3:Ab:33:VAL:HG11	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ag:128:GLN:HB3	3:Ah:1:ALA:HB2	1.93	0.50
3:Ah:39:PRO:HA	3:Ah:42:GLU:OE2	2.11	0.50
3:Ak:7:VAL:HA	3:Ak:18:HIS:O	2.11	0.50
3:Ak:119:LEU:CD1	3:Al:3:LEU:HA	2.42	0.50
3:A2:48:SER:OG	3:A2:60:THR:HB	2.11	0.50
3:A7:61:LEU:HB2	3:A7:89:VAL:CG2	2.40	0.50
3:A8:34:GLU:HB3	3:A8:43:SER:H	1.76	0.50
3:BC:129:GLY:HA3	3:Bu:24:ASP:OD2	2.11	0.50
3:BH:104:ASN:O	3:BH:108:MET:HG2	2.11	0.50
3:BQ:25:ILE:HG23	3:BQ:29:VAL:H	1.76	0.50
3:Bh:63:LEU:HB3	3:Bh:87:VAL:CG1	2.40	0.50
3:Bm:98:THR:O	3:Bm:102:ARG:HG3	2.11	0.50
3:CB:68:VAL:HG22	3:CB:81:VAL:HG22	1.94	0.50
3:CK:23:ARG:HD2	3:CK:33:VAL:CG2	2.41	0.50
3:CK:32:VAL:HG13	3:CK:45:PHE:HB3	1.93	0.50
3:CL:10:ASP:OD2	3:CL:16:ASN:HB2	2.11	0.50
3:CM:63:LEU:HB2	3:CM:87:VAL:CG1	2.42	0.50
3:CS:4:GLN:NE2	3:CT:119:LEU:HB2	2.27	0.50
3:0:29:VAL:HG22	3:0:48:SER:CB	2.42	0.50
3:0:99:THR:OG1	3:CK:37:GLY:HA2	2.12	0.50
3:7:8:LEU:HD11	3:8:112:ALA:HA	1.94	0.50
3:Q:3:LEU:HD11	3:R:130:VAL:CG2	2.41	0.50
3:T:57:TYR:O	3:T:92:ASP:HA	2.12	0.50
3:e:18:HIS:HB3	3:e:34:GLU:OE1	2.11	0.50
3:r:47:ILE:CD1	3:r:61:LEU:HG	2.41	0.50
3:s:44:ARG:O	3:s:63:LEU:HD12	2.12	0.50
3:y:86:TYR:HB2	3:z:92:ASP:OD2	2.12	0.50
3:G:64:VAL:HG12	3:G:66:PRO:HD3	1.92	0.50
3:I:118:MET:SD	3:I:118:MET:N	2.77	0.50
3:N:98:THR:HG22	3:N:100:LYS:H	1.77	0.50
3:AA:44:ARG:O	3:AA:63:LEU:HD12	2.12	0.50
3:AS:57:TYR:O	3:AS:92:ASP:HA	2.12	0.50
3:AX:22:PRO:HA	3:AX:32:VAL:HA	1.94	0.50
3:AX:29:VAL:HG13	3:AX:48:SER:HB3	1.92	0.50
3:Ag:106:VAL:HG11	3:Ah:125:VAL:HG22	1.94	0.50
3:Ag:131:TYR:CE1	3:Ah:1:ALA:HB3	2.47	0.50
3:Ak:1:ALA:N	3:Al:129:GLY:O	2.44	0.50
3:Ak:112:ALA:HB2	3:Al:8:LEU:CD2	2.41	0.50
3:An:57:TYR:O	3:An:92:ASP:HA	2.12	0.50
3:Ap:102:ARG:O	3:Ap:106:VAL:HG23	2.11	0.50
3:Av:59:SER:OG	3:Av:91:PHE:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A8:68:VAL:HG22	3:A8:81:VAL:HG22	1.92	0.50
3:BA:61:LEU:HB2	3:BA:89:VAL:CG2	2.42	0.50
3:BC:29:VAL:HG13	3:BC:48:SER:HB3	1.91	0.50
3:BC:68:VAL:CG1	3:BC:79:PRO:HB2	2.40	0.50
3:BF:118:MET:SD	3:BF:118:MET:N	2.81	0.50
3:BH:49:LEU:HD12	3:BH:58:LYS:O	2.12	0.50
3:BO:119:LEU:HB2	3:BP:4:GLN:HE22	1.76	0.50
3:BO:130:VAL:HG12	3:BP:25:ILE:HD12	1.92	0.50
3:Bg:111:ASP:OD2	3:Bh:9:LYS:N	2.36	0.50
3:Bi:129:GLY:O	3:Bj:1:ALA:N	2.34	0.50
3:Bj:23:ARG:HG2	3:Bj:24:ASP:OD2	2.12	0.50
3:B1:112:ALA:HA	3:B1:117:LYS:CE	2.41	0.50
3:B2:20:PHE:HB3	3:B2:32:VAL:CG1	2.42	0.50
3:B2:58:LYS:HG2	3:B2:92:ASP:CB	2.41	0.50
3:B6:3:LEU:HD22	3:B6:22:PRO:HB3	1.93	0.50
3:B7:18:HIS:HB3	3:B7:34:GLU:OE1	2.12	0.50
3:CM:111:ASP:OD2	3:CN:9:LYS:N	2.45	0.50
3:CT:12:GLU:OE2	3:CT:15:PRO:HA	2.12	0.50
3:4:69:GLN:HB3	3:B0:76:ILE:HD11	1.93	0.50
3:C:113:LEU:HD23	3:D:110:ALA:HA	1.92	0.50
3:Q:51:LYS:HD3	3:Q:57:TYR:CD2	2.47	0.50
3:X:7:VAL:HA	3:X:18:HIS:O	2.12	0.50
3:Y:64:VAL:HG12	3:Y:66:PRO:HD3	1.92	0.50
3:c:86:TYR:HB2	3:d:92:ASP:HB3	1.94	0.50
3:d:38:VAL:HG12	3:d:40:ILE:HG22	1.92	0.50
3:k:36:THR:OG1	3:k:37:GLY:N	2.40	0.50
3:u:61:LEU:HB2	3:u:89:VAL:CG2	2.42	0.50
3:K:38:VAL:HG12	3:K:40:ILE:HG22	1.93	0.50
3:N:7:VAL:O	3:N:8:LEU:HD13	2.12	0.50
3:AD:71:GLN:O	3:AD:78:THR:N	2.44	0.50
3:AU:8:LEU:CD1	3:AV:112:ALA:HA	2.41	0.50
3:AV:20:PHE:HB3	3:AV:32:VAL:HG12	1.94	0.50
3:AW:79:PRO:O	3:Bl:96:ARG:NH1	2.44	0.50
3:AY:63:LEU:O	3:AY:87:VAL:HG12	2.12	0.50
3:Aa:89:VAL:CG2	3:Ab:89:VAL:HG13	2.41	0.50
3:Ae:83:ARG:NE	3:Af:97:SER:HA	2.27	0.50
3:Ag:23:ARG:NH2	3:Ag:33:VAL:HG21	2.27	0.50
3:Ak:24:ASP:OD1	3:B8:28:ASN:ND2	2.45	0.50
3:Ap:57:TYR:HE2	3:Ap:95:ALA:HA	1.77	0.50
3:Aq:83:ARG:NH2	3:Ar:101:GLU:OE2	2.43	0.50
3:A2:25:ILE:CD1	3:A2:30:GLY:HA2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A8:82:VAL:HG23	3:A8:83:ARG:HG2	1.93	0.50
3:BB:48:SER:OG	3:BB:60:THR:HB	2.12	0.50
3:BE:44:ARG:O	3:BE:63:LEU:HD12	2.12	0.50
3:BF:20:PHE:HA	3:BF:34:GLU:OE1	2.11	0.50
3:BG:37:GLY:O	3:BG:39:PRO:HD3	2.12	0.50
3:BG:64:VAL:HG13	3:BG:86:TYR:CE1	2.47	0.50
3:BJ:38:VAL:HG12	3:BJ:40:ILE:HG22	1.94	0.50
3:BM:91:PHE:CD1	3:BN:87:VAL:HG12	2.47	0.50
3:BR:63:LEU:O	3:BR:87:VAL:HG22	2.11	0.50
3:Bc:56:ARG:HG3	3:Bc:93:TYR:O	2.12	0.50
3:Bd:23:ARG:HG2	3:Bd:24:ASP:OD2	2.11	0.50
3:Bd:72:THR:OG1	3:Bd:77:VAL:HG22	2.12	0.50
3:Bj:46:THR:HB	3:Bj:62:LYS:CG	2.41	0.50
3:Bz:12:GLU:OE1	3:Bz:12:GLU:N	2.45	0.50
3:CC:63:LEU:HB3	3:CC:87:VAL:CG1	2.42	0.50
3:CP:70:SER:HB2	3:CP:77:VAL:HG13	1.93	0.50
3:CS:122:ASP:OD1	3:CS:126:ASN:ND2	2.38	0.50
3:A:44:ARG:HH21	3:A:64:VAL:HG21	1.76	0.50
3:R:98:THR:HG22	3:R:100:LYS:H	1.77	0.50
3:S:8:LEU:HD11	3:T:112:ALA:HA	1.94	0.50
3:Z:63:LEU:HB3	3:Z:87:VAL:CG1	2.42	0.50
3:c:39:PRO:HA	3:c:42:GLU:OE2	2.11	0.50
3:m:8:LEU:HD11	3:n:112:ALA:HA	1.94	0.50
3:r:131:TYR:HB2	3:BH:25:ILE:HB	1.93	0.50
3:x:110:ALA:HA	3:x:113:LEU:HD23	1.92	0.50
3:J:121:HIS:NE2	3:J:125:VAL:HG21	2.27	0.50
3:L:41:GLY:HA3	3:L:68:VAL:CG2	2.42	0.50
3:AA:38:VAL:HG12	3:AA:40:ILE:CG1	2.42	0.50
3:AO:7:VAL:HA	3:AO:18:HIS:O	2.12	0.50
3:AW:71:GLN:HB3	3:AW:78:THR:O	2.12	0.50
3:AX:7:VAL:HA	3:AX:18:HIS:O	2.12	0.50
3:AZ:20:PHE:CD1	3:AZ:34:GLU:HB2	2.47	0.50
3:Ac:124:ILE:HG13	3:Ac:125:VAL:HG23	1.93	0.50
3:Ae:4:GLN:NE2	3:Af:119:LEU:HB2	2.26	0.50
3:Af:33:VAL:HG13	3:Af:42:GLU:HG3	1.93	0.50
3:Ag:24:ASP:HB2	3:CP:28:ASN:ND2	2.26	0.50
3:Al:3:LEU:HD21	3:Ao:131:TYR:HB2	1.94	0.50
3:Au:57:TYR:O	3:Au:92:ASP:HA	2.11	0.50
3:Ax:29:VAL:HG22	3:Ax:48:SER:CB	2.39	0.50
3:A3:25:ILE:HG12	3:A6:131:TYR:HB3	1.94	0.50
3:A3:49:LEU:HD11	3:A4:123:THR:CG2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A4:114:LYS:O	3:A4:121:HIS:HB2	2.12	0.50
3:BC:111:ASP:OD2	3:BD:9:LYS:N	2.45	0.50
3:BE:4:GLN:O	3:BE:22:PRO:HG3	2.11	0.50
3:BI:106:VAL:HG21	3:BJ:124:ILE:HG22	1.94	0.50
3:BM:91:PHE:HD1	3:BN:87:VAL:HG12	1.77	0.50
3:BS:9:LYS:CE	3:BS:17:ASP:HB3	2.41	0.50
3:Bv:7:VAL:HA	3:Bv:18:HIS:O	2.11	0.50
3:By:63:LEU:O	3:By:87:VAL:HG12	2.12	0.50
3:Bz:52:THR:HG21	3:Bz:56:ARG:HB2	1.92	0.50
3:B2:122:ASP:O	3:B2:126:ASN:HB2	2.11	0.50
3:B4:102:ARG:O	3:B4:106:VAL:HG23	2.12	0.50
3:B5:63:LEU:O	3:B5:87:VAL:HG12	2.12	0.50
3:CI:18:HIS:HB3	3:CI:34:GLU:OE1	2.12	0.50
3:CK:61:LEU:HB2	3:CK:89:VAL:CG2	2.42	0.50
3:CN:38:VAL:HG22	3:CN:40:ILE:HG12	1.93	0.50
3:CT:44:ARG:O	3:CT:63:LEU:HA	2.11	0.50
3:0:22:PRO:HA	3:0:32:VAL:HG12	1.93	0.49
3:4:7:VAL:HA	3:4:18:HIS:O	2.12	0.49
3:4:112:ALA:O	3:4:117:LYS:HG3	2.12	0.49
3:9:112:ALA:O	3:9:120:VAL:HG11	2.12	0.49
3:O:121:HIS:NE2	3:O:125:VAL:HG21	2.26	0.49
3:P:3:LEU:HD11	3:P:32:VAL:CG2	2.41	0.49
3:Q:44:ARG:NH2	3:Q:64:VAL:HG21	2.27	0.49
3:U:128:GLN:HG3	3:Bw:23:ARG:HA	1.94	0.49
3:Z:64:VAL:HG12	3:Z:66:PRO:HD3	1.94	0.49
3:a:32:VAL:HG13	3:a:45:PHE:HB3	1.93	0.49
3:d:32:VAL:CG2	3:d:45:PHE:HB3	2.42	0.49
3:j:120:VAL:O	3:j:124:ILE:HG22	2.12	0.49
3:s:111:ASP:OD2	3:t:9:LYS:N	2.45	0.49
3:x:29:VAL:HG22	3:x:48:SER:CB	2.41	0.49
3:y:61:LEU:HB2	3:y:89:VAL:CG2	2.41	0.49
3:K:44:ARG:O	3:K:63:LEU:HD12	2.12	0.49
3:AS:121:HIS:NE2	3:AS:125:VAL:HG21	2.27	0.49
3:AT:44:ARG:O	3:AT:63:LEU:HA	2.11	0.49
3:AV:52:THR:HG22	3:AV:56:ARG:O	2.11	0.49
3:AW:129:GLY:HA3	3:Bm:24:ASP:OD2	2.10	0.49
3:AY:124:ILE:HG23	3:AY:125:VAL:HG23	1.93	0.49
3:Ae:11:ARG:HH22	3:Ae:114:LYS:HA	1.77	0.49
3:Aj:98:THR:HG22	3:Aj:100:LYS:H	1.77	0.49
3:Al:112:ALA:O	3:Al:120:VAL:HG11	2.12	0.49
3:Ap:20:PHE:CD1	3:Ap:34:GLU:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ap:25:ILE:HD13	3:Ap:30:GLY:HA2	1.92	0.49
3:A0:23:ARG:HB3	3:A0:31:GLU:OE2	2.11	0.49
3:BA:89:VAL:CG1	3:BB:89:VAL:HG13	2.42	0.49
3:BG:32:VAL:CG1	3:BG:45:PHE:HB3	2.42	0.49
3:Bc:24:ASP:HB2	3:B4:28:ASN:ND2	2.27	0.49
3:Bh:6:LEU:HG	3:Bh:8:LEU:HD21	1.93	0.49
3:By:57:TYR:O	3:By:92:ASP:HA	2.12	0.49
3:B3:71:GLN:NE2	3:B3:78:THR:O	2.45	0.49
3:B5:8:LEU:CD1	3:B6:112:ALA:HA	2.42	0.49
3:B0:120:VAL:O	3:B0:124:ILE:HG22	2.12	0.49
3:CK:8:LEU:HD13	3:CK:20:PHE:CE2	2.46	0.49
3:CM:29:VAL:HA	3:CM:48:SER:OG	2.11	0.49
3:CQ:44:ARG:HG2	3:CQ:64:VAL:HB	1.94	0.49
3:CR:20:PHE:HB3	3:CR:32:VAL:HG11	1.94	0.49
3:3:49:LEU:HD13	3:3:59:SER:HB3	1.94	0.49
3:4:124:ILE:HG23	3:4:125:VAL:HG23	1.94	0.49
3:5:12:GLU:HG3	3:6:104:ASN:HD21	1.76	0.49
3:8:44:ARG:HG2	3:8:64:VAL:HB	1.93	0.49
3:A:61:LEU:HB2	3:A:89:VAL:HG23	1.93	0.49
3:D:29:VAL:HG22	3:D:48:SER:CB	2.40	0.49
3:O:44:ARG:O	3:O:63:LEU:HD12	2.12	0.49
3:O:89:VAL:CG1	3:P:89:VAL:HG13	2.42	0.49
3:O:122:ASP:O	3:O:126:ASN:HB2	2.11	0.49
3:Q:66:PRO:CA	3:Q:84:THR:HG22	2.42	0.49
3:R:57:TYR:O	3:R:92:ASP:HA	2.12	0.49
3:X:129:GLY:HA3	3:CH:24:ASP:OD2	2.12	0.49
3:Y:24:ASP:HB2	3:CH:28:ASN:ND2	2.26	0.49
3:l:22:PRO:HA	3:l:32:VAL:HA	1.94	0.49
3:q:37:GLY:O	3:q:39:PRO:HD3	2.12	0.49
3:z:7:VAL:HA	3:z:18:HIS:O	2.12	0.49
3:H:72:THR:HA	3:H:76:ILE:O	2.12	0.49
3:H:109:ILE:O	3:H:113:LEU:HG	2.13	0.49
3:L:45:PHE:HE2	3:L:47:ILE:HD11	1.77	0.49
3:N:20:PHE:HA	3:N:34:GLU:OE1	2.11	0.49
3:AC:119:LEU:HD13	3:AD:6:LEU:HB2	1.94	0.49
3:AQ:57:TYR:O	3:AQ:92:ASP:HA	2.12	0.49
3:AT:20:PHE:HB3	3:AT:32:VAL:HG11	1.94	0.49
3:AU:39:PRO:HG2	3:AX:127:LEU:CD1	2.42	0.49
3:AV:60:THR:HA	3:AV:89:VAL:O	2.12	0.49
3:AY:123:THR:O	3:AY:127:LEU:HD13	2.11	0.49
3:Aa:111:ASP:OD2	3:Ab:9:LYS:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ad:12:GLU:OE2	3:Ad:15:PRO:HA	2.12	0.49
3:Af:20:PHE:HA	3:Af:34:GLU:OE1	2.12	0.49
3:Ag:25:ILE:HD13	3:Ag:30:GLY:HA2	1.94	0.49
3:Aq:8:LEU:CD1	3:Ar:111:ASP:HB3	2.42	0.49
3:Ax:124:ILE:HG23	3:Ax:125:VAL:HG23	1.95	0.49
3:A2:34:GLU:O	3:A2:42:GLU:HG3	2.12	0.49
3:A4:9:LYS:NZ	3:A4:17:ASP:OD1	2.39	0.49
3:A7:108:MET:HA	3:A8:8:LEU:HD23	1.94	0.49
3:A9:9:LYS:N	3:A0:111:ASP:OD2	2.45	0.49
3:BB:57:TYR:CE2	3:BB:95:ALA:HA	2.46	0.49
3:BC:112:ALA:HB2	3:BD:8:LEU:HD21	1.94	0.49
3:BE:6:LEU:O	3:BE:20:PHE:N	2.33	0.49
3:BJ:72:THR:OG1	3:BJ:77:VAL:HG22	2.12	0.49
3:BK:3:LEU:HD22	3:BK:22:PRO:HB3	1.94	0.49
3:BY:63:LEU:HB3	3:BY:87:VAL:CG1	2.42	0.49
3:Bj:119:LEU:HD23	3:Bj:119:LEU:O	2.12	0.49
3:Bk:44:ARG:O	3:Bk:63:LEU:HA	2.11	0.49
3:Bk:58:LYS:HG2	3:Bk:92:ASP:HB3	1.93	0.49
3:Bu:29:VAL:HA	3:Bu:48:SER:OG	2.12	0.49
3:Bx:33:VAL:HG22	3:Bx:44:ARG:CB	2.41	0.49
3:Bz:98:THR:HG22	3:Bz:100:LYS:H	1.76	0.49
3:Bz:118:MET:SD	3:Bz:118:MET:N	2.77	0.49
3:B2:58:LYS:HG2	3:B2:92:ASP:HB3	1.93	0.49
3:B5:129:GLY:O	3:B6:1:ALA:N	2.45	0.49
3:CA:5:ASN:HB3	3:CA:19:THR:HG23	1.93	0.49
3:CC:91:PHE:HD1	3:CD:87:VAL:HG12	1.76	0.49
3:CH:20:PHE:HB3	3:CH:32:VAL:HG11	1.94	0.49
3:CP:33:VAL:HA	3:CP:43:SER:O	2.12	0.49
3:CT:82:VAL:HG23	3:CT:83:ARG:HG2	1.94	0.49
3:1:57:TYR:O	3:1:92:ASP:HA	2.12	0.49
3:1:130:VAL:N	3:As:24:ASP:OD1	2.45	0.49
3:6:7:VAL:HA	3:6:18:HIS:O	2.12	0.49
3:6:51:LYS:HD3	3:6:57:TYR:CE1	2.47	0.49
3:7:38:VAL:HA	3:9:97:SER:O	2.13	0.49
3:7:120:VAL:O	3:7:124:ILE:HG22	2.12	0.49
3:B:28:ASN:CG	3:Bd:24:ASP:HB2	2.37	0.49
3:E:49:LEU:HD13	3:E:59:SER:HB3	1.93	0.49
3:Y:121:HIS:NE2	3:Y:125:VAL:HG21	2.27	0.49
3:Z:98:THR:HA	3:CI:37:GLY:O	2.12	0.49
3:p:45:PHE:HB2	3:p:63:LEU:HD13	1.93	0.49
3:t:25:ILE:HG22	3:z:28:ASN:OD1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:t:36:THR:OG1	3:t:37:GLY:N	2.40	0.49
3:x:72:THR:OG1	3:x:77:VAL:HG22	2.12	0.49
3:I:119:LEU:HB2	3:J:4:GLN:HE22	1.76	0.49
3:J:35:SER:HA	3:J:42:GLU:HG3	1.93	0.49
3:L:7:VAL:HA	3:L:18:HIS:O	2.12	0.49
3:Aa:21:VAL:HG11	3:B1:128:GLN:CG	2.42	0.49
3:Ae:66:PRO:HB3	3:Ae:84:THR:HG22	1.93	0.49
3:An:120:VAL:O	3:An:124:ILE:HG22	2.12	0.49
3:As:49:LEU:HD12	3:As:58:LYS:O	2.12	0.49
3:As:63:LEU:O	3:As:87:VAL:HG12	2.13	0.49
3:At:70:SER:HB2	3:At:77:VAL:HG13	1.93	0.49
3:Au:61:LEU:HB2	3:Au:89:VAL:CG2	2.42	0.49
3:A6:68:VAL:CG1	3:A6:79:PRO:HB2	2.42	0.49
3:A0:61:LEU:HB2	3:A0:89:VAL:HB	1.94	0.49
3:BA:33:VAL:HG11	3:BA:44:ARG:HG2	1.93	0.49
3:BB:114:LYS:HB3	3:BB:116:ASP:OD1	2.11	0.49
3:BC:63:LEU:HB3	3:BC:87:VAL:CG1	2.42	0.49
3:BO:33:VAL:CG1	3:BO:42:GLU:HB2	2.42	0.49
3:BY:6:LEU:O	3:BY:20:PHE:N	2.33	0.49
3:Bc:44:ARG:HH21	3:Bc:64:VAL:HG21	1.78	0.49
3:Bd:63:LEU:HB3	3:Bd:87:VAL:CG1	2.42	0.49
3:Bj:49:LEU:HD12	3:Bj:58:LYS:O	2.12	0.49
3:Bm:63:LEU:HB3	3:Bm:87:VAL:CG1	2.42	0.49
3:Bm:63:LEU:O	3:Bm:87:VAL:HG12	2.13	0.49
3:Bv:117:LYS:O	3:Bv:121:HIS:HB3	2.13	0.49
3:B4:122:ASP:O	3:B4:126:ASN:HB2	2.12	0.49
3:B5:32:VAL:O	3:B5:44:ARG:HA	2.13	0.49
3:B9:129:GLY:O	3:B0:1:ALA:N	2.32	0.49
3:CM:104:ASN:ND2	3:CN:11:ARG:O	2.45	0.49
3:CN:12:GLU:OE2	3:CN:15:PRO:HA	2.12	0.49
3:CP:40:ILE:N	3:CP:42:GLU:OE1	2.46	0.49
3:CQ:69:GLN:HE22	3:CQ:71:GLN:HG2	1.77	0.49
3:CS:38:VAL:HG13	3:CS:79:PRO:HG3	1.94	0.49
3:1:131:TYR:CE2	3:As:3:LEU:HD12	2.47	0.49
3:5:120:VAL:O	3:5:124:ILE:HG22	2.11	0.49
3:6:14:THR:HG23	3:6:16:ASN:OD1	2.12	0.49
3:7:90:ASP:HB2	3:8:88:THR:OG1	2.12	0.49
3:A:61:LEU:HB2	3:A:89:VAL:CG2	2.42	0.49
3:B:71:GLN:HE22	3:B:73:VAL:HG22	1.76	0.49
3:O:91:PHE:HB2	3:P:124:ILE:HD11	1.94	0.49
3:O:96:ARG:NH2	3:A4:78:THR:HA	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:20:PHE:HA	3:R:34:GLU:OE1	2.13	0.49
3:U:122:ASP:OD1	3:U:128:GLN:HB2	2.11	0.49
3:W:102:ARG:HD2	3:X:127:LEU:HD11	1.94	0.49
3:Y:111:ASP:OD2	3:Z:9:LYS:HB2	2.13	0.49
3:Z:31:GLU:HA	3:Z:45:PHE:O	2.12	0.49
3:b:47:ILE:HD12	3:b:61:LEU:HG	1.93	0.49
3:f:29:VAL:HG13	3:f:48:SER:HB3	1.93	0.49
3:i:11:ARG:HH22	3:i:114:LYS:HD2	1.76	0.49
3:i:102:ARG:NE	3:j:125:VAL:O	2.33	0.49
3:l:31:GLU:HA	3:l:45:PHE:O	2.12	0.49
3:p:23:ARG:HH21	3:p:33:VAL:HG11	1.76	0.49
3:p:33:VAL:CG1	3:p:42:GLU:HG3	2.42	0.49
3:s:29:VAL:HG22	3:s:48:SER:HB3	1.95	0.49
3:y:36:THR:OG1	3:y:37:GLY:N	2.41	0.49
3:G:130:VAL:HG11	3:H:30:GLY:HA3	1.93	0.49
3:H:25:ILE:O	3:N:28:ASN:ND2	2.40	0.49
3:N:20:PHE:HD1	3:N:34:GLU:HB2	1.77	0.49
3:AB:44:ARG:O	3:AB:63:LEU:HA	2.12	0.49
3:AT:118:MET:SD	3:AT:118:MET:N	2.76	0.49
3:AU:7:VAL:HG22	3:AU:19:THR:HA	1.95	0.49
3:Ai:38:VAL:HG13	3:Ai:40:ILE:CG2	2.42	0.49
3:Ao:93:TYR:CD1	3:Ao:102:ARG:HG2	2.48	0.49
3:Ao:118:MET:SD	3:Ao:118:MET:N	2.77	0.49
3:A5:129:GLY:HA3	3:B1:24:ASP:OD2	2.12	0.49
3:A7:46:THR:O	3:A7:62:LYS:N	2.37	0.49
3:A9:44:ARG:O	3:A9:63:LEU:HD12	2.12	0.49
3:A0:44:ARG:O	3:A0:63:LEU:HA	2.12	0.49
3:BB:70:SER:HB2	3:BB:77:VAL:HG11	1.94	0.49
3:BG:6:LEU:HD13	3:BH:119:LEU:HD23	1.94	0.49
3:BN:44:ARG:O	3:BN:63:LEU:HA	2.11	0.49
3:BY:72:THR:OG1	3:BY:77:VAL:HG22	2.12	0.49
3:Bl:44:ARG:O	3:Bl:63:LEU:HA	2.11	0.49
3:Bl:47:ILE:HD12	3:Bl:61:LEU:HG	1.94	0.49
3:Bm:61:LEU:HB2	3:Bm:89:VAL:CG2	2.42	0.49
3:Bu:61:LEU:O	3:Bu:88:THR:HA	2.12	0.49
3:Bu:72:THR:OG1	3:Bu:77:VAL:HG22	2.13	0.49
3:Bz:38:VAL:CG2	3:Bz:40:ILE:HG22	2.43	0.49
3:B2:25:ILE:HG13	3:B2:30:GLY:HA2	1.95	0.49
3:B7:10:ASP:CB	3:B7:16:ASN:HB2	2.42	0.49
3:CA:25:ILE:HG22	3:CA:30:GLY:CA	2.41	0.49
3:CP:38:VAL:HG11	3:CP:79:PRO:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:7:VAL:O	3:2:117:LYS:HE2	2.12	0.49
3:7:61:LEU:O	3:7:88:THR:HA	2.12	0.49
3:P:28:ASN:ND2	3:L:24:ASP:HB2	2.28	0.49
3:R:63:LEU:HB3	3:R:87:VAL:HG21	1.94	0.49
3:S:120:VAL:O	3:S:124:ILE:HG22	2.13	0.49
3:Y:25:ILE:CD1	3:Y:30:GLY:HA2	2.42	0.49
3:Z:7:VAL:HA	3:Z:18:HIS:O	2.12	0.49
3:m:102:ARG:HD2	3:n:127:LEU:HD21	1.94	0.49
3:w:131:TYR:CE2	3:Ac:3:LEU:HD12	2.47	0.49
3:x:22:PRO:HA	3:x:32:VAL:HA	1.93	0.49
3:G:4:GLN:CG	3:H:119:LEU:HD12	2.43	0.49
3:L:63:LEU:HB3	3:L:87:VAL:CG1	2.43	0.49
3:AA:106:VAL:HG12	3:AB:113:LEU:HD12	1.94	0.49
3:AO:29:VAL:HA	3:AO:48:SER:HB3	1.94	0.49
3:AW:86:TYR:HB2	3:AX:92:ASP:CB	2.43	0.49
3:Ae:23:ARG:HA	3:Ah:128:GLN:OE1	2.13	0.49
3:Af:32:VAL:O	3:Af:44:ARG:HA	2.12	0.49
3:Ah:61:LEU:O	3:Ah:88:THR:HA	2.13	0.49
3:Al:44:ARG:O	3:Al:63:LEU:HA	2.13	0.49
3:An:52:THR:HG21	3:An:56:ARG:HB2	1.93	0.49
3:Ao:68:VAL:HG12	3:Ao:81:VAL:HG22	1.94	0.49
3:Ap:57:TYR:CE2	3:Ap:95:ALA:HA	2.48	0.49
3:Aq:93:TYR:CD1	3:Aq:102:ARG:HG2	2.47	0.49
3:Au:21:VAL:O	3:Au:32:VAL:HG23	2.11	0.49
3:A6:23:ARG:HH21	3:A6:33:VAL:HG11	1.77	0.49
3:A9:124:ILE:HG23	3:A9:125:VAL:HG23	1.95	0.49
3:BC:124:ILE:HG22	3:BD:106:VAL:HG21	1.94	0.49
3:BJ:29:VAL:HG13	3:BJ:48:SER:HB3	1.95	0.49
3:BV:20:PHE:HA	3:BV:34:GLU:OE1	2.13	0.49
3:Bc:1:ALA:HB3	3:Bd:131:TYR:CE1	2.48	0.49
3:Bc:7:VAL:HA	3:Bc:18:HIS:O	2.12	0.49
3:Bj:25:ILE:CD1	3:Bj:30:GLY:HA2	2.42	0.49
3:Bm:4:GLN:NE2	3:Bn:119:LEU:HD12	2.28	0.49
3:Bu:4:GLN:O	3:Bu:22:PRO:HG3	2.12	0.49
3:By:46:THR:HB	3:By:62:LYS:HB3	1.94	0.49
3:B1:61:LEU:HB2	3:B1:89:VAL:CG2	2.42	0.49
3:B7:86:TYR:HB2	3:B8:92:ASP:OD2	2.12	0.49
3:B8:63:LEU:HB3	3:B8:87:VAL:CG1	2.42	0.49
3:CL:20:PHE:HE1	3:CL:43:SER:HB2	1.77	0.49
3:CO:117:LYS:NZ	3:CP:7:VAL:O	2.45	0.49
3:5:63:LEU:HB3	3:5:87:VAL:CG1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:20:PHE:HB3	3:B:32:VAL:CG1	2.42	0.49
3:O:63:LEU:HB3	3:O:87:VAL:CG1	2.43	0.49
3:R:34:GLU:HB3	3:R:43:SER:HB2	1.93	0.49
3:Y:23:ARG:NH2	3:Y:33:VAL:HG21	2.28	0.49
3:c:33:VAL:HG13	3:c:42:GLU:HB3	1.94	0.49
3:d:22:PRO:HA	3:d:32:VAL:HA	1.95	0.49
3:d:31:GLU:HG3	3:d:46:THR:HG22	1.93	0.49
3:e:44:ARG:O	3:e:63:LEU:HD12	2.13	0.49
3:g:31:GLU:HA	3:g:45:PHE:O	2.13	0.49
3:j:20:PHE:CD2	3:j:34:GLU:HB2	2.48	0.49
3:k:71:GLN:HB3	3:k:78:THR:O	2.12	0.49
3:l:23:ARG:NH2	3:l:33:VAL:HG21	2.28	0.49
3:r:34:GLU:O	3:r:42:GLU:HG3	2.13	0.49
3:M:44:ARG:NH2	3:M:64:VAL:HG21	2.28	0.49
3:AR:25:ILE:O	3:AV:28:ASN:ND2	2.32	0.49
3:Ag:32:VAL:CG2	3:Ag:45:PHE:HB3	2.42	0.49
3:Ag:114:LYS:NZ	3:Ag:116:ASP:HB3	2.28	0.49
3:An:32:VAL:O	3:An:44:ARG:HA	2.12	0.49
3:Ao:33:VAL:HG12	3:Ao:44:ARG:HG2	1.94	0.49
3:Av:7:VAL:HG12	3:Av:19:THR:HA	1.93	0.49
3:Ay:7:VAL:HA	3:Ay:18:HIS:O	2.12	0.49
3:A9:90:ASP:HB2	3:A0:88:THR:OG1	2.12	0.49
3:BE:32:VAL:CG1	3:BE:45:PHE:HB3	2.42	0.49
3:BV:88:THR:HB	3:CI:90:ASP:OD1	2.13	0.49
3:BY:3:LEU:HD12	3:BZ:119:LEU:HD11	1.94	0.49
3:BY:7:VAL:HA	3:BY:18:HIS:O	2.13	0.49
3:Bk:31:GLU:HG2	3:Bk:45:PHE:O	2.13	0.49
3:Bx:44:ARG:O	3:Bx:63:LEU:HD12	2.13	0.49
3:Bz:11:ARG:NH1	3:Bz:114:LYS:O	2.46	0.49
3:B1:8:LEU:HD23	3:B1:20:PHE:CE1	2.48	0.49
3:B5:12:GLU:OE2	3:B6:104:ASN:ND2	2.41	0.49
3:B6:63:LEU:O	3:B6:87:VAL:HG22	2.13	0.49
3:B8:43:SER:HA	3:B8:64:VAL:O	2.12	0.49
3:CA:106:VAL:CG1	3:CB:113:LEU:HD13	2.43	0.49
3:CC:72:THR:OG1	3:CC:77:VAL:HG22	2.12	0.49
3:CN:113:LEU:HD23	3:CN:113:LEU:H	1.77	0.49
3:CS:102:ARG:O	3:CS:106:VAL:HG23	2.12	0.49
3:A:7:VAL:HG13	3:A:17:ASP:HB2	1.94	0.49
3:C:24:ASP:HB2	3:BF:28:ASN:HD22	1.78	0.49
3:E:7:VAL:HA	3:E:18:HIS:O	2.13	0.49
3:X:120:VAL:O	3:X:124:ILE:HG22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:f:122:ASP:HA	3:f:126:ASN:HB2	1.93	0.49
3:H:44:ARG:O	3:H:63:LEU:HD12	2.12	0.49
3:J:34:GLU:HB3	3:J:43:SER:H	1.78	0.49
3:AA:21:VAL:N	3:AA:33:VAL:O	2.44	0.49
3:AX:44:ARG:O	3:AX:63:LEU:HD12	2.12	0.49
3:AZ:46:THR:HB	3:AZ:62:LYS:HE2	1.95	0.49
3:Ad:73:VAL:HG11	3:CR:71:GLN:NE2	2.27	0.49
3:Ai:57:TYR:O	3:Ai:92:ASP:HA	2.12	0.49
3:Am:63:LEU:HB3	3:Am:87:VAL:CG1	2.43	0.49
3:An:38:VAL:HA	3:CO:97:SER:O	2.13	0.49
3:At:120:VAL:O	3:At:124:ILE:HG22	2.12	0.49
3:Aw:44:ARG:O	3:Aw:63:LEU:HD12	2.12	0.49
3:A2:24:ASP:HA	3:B2:131:TYR:CD1	2.48	0.49
3:BB:31:GLU:HA	3:BB:46:THR:HA	1.94	0.49
3:BC:80:VAL:HG12	3:Bz:96:ARG:HH22	1.77	0.49
3:BF:34:GLU:O	3:BF:42:GLU:HG3	2.13	0.49
3:BI:61:LEU:HD11	3:BJ:124:ILE:HD11	1.95	0.49
3:BI:71:GLN:HB3	3:BI:78:THR:O	2.13	0.49
3:BQ:112:ALA:HA	3:BQ:117:LYS:HZ2	1.77	0.49
3:BZ:7:VAL:CG1	3:BZ:17:ASP:HB2	2.43	0.49
3:Bc:49:LEU:HD12	3:Bc:58:LYS:O	2.13	0.49
3:Bg:11:ARG:HH22	3:Bg:114:LYS:HA	1.77	0.49
3:Bi:118:MET:SD	3:Bj:4:GLN:NE2	2.85	0.49
3:Bx:20:PHE:HB3	3:Bx:32:VAL:HG12	1.95	0.49
3:Bx:68:VAL:HG13	3:Bx:80:VAL:C	2.38	0.49
3:B3:45:PHE:HE2	3:B3:47:ILE:HD13	1.78	0.49
3:B4:7:VAL:HG12	3:B4:19:THR:HA	1.94	0.49
3:B5:121:HIS:HA	3:B5:124:ILE:HG22	1.93	0.49
3:CA:61:LEU:HB2	3:CA:89:VAL:HG22	1.94	0.49
3:CH:25:ILE:CD1	3:CH:30:GLY:HA2	2.43	0.49
3:2:66:PRO:HA	3:2:84:THR:HG23	1.94	0.49
3:4:35:SER:HA	3:4:42:GLU:HG3	1.93	0.49
3:4:39:PRO:HA	3:4:42:GLU:OE2	2.12	0.49
3:8:24:ASP:OD2	3:AT:129:GLY:HA3	2.12	0.49
3:A:44:ARG:O	3:A:63:LEU:HD12	2.13	0.49
3:A:118:MET:HG2	3:B:4:GLN:NE2	2.26	0.49
3:E:122:ASP:O	3:E:127:LEU:N	2.45	0.49
3:Q:24:ASP:HB2	3:L:129:GLY:HA3	1.95	0.49
3:Q:103:ASN:O	3:R:11:ARG:NH2	2.39	0.49
3:R:124:ILE:HG23	3:R:125:VAL:HG23	1.94	0.49
3:c:109:ILE:HD11	3:d:89:VAL:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:g:118:MET:SD	3:g:118:MET:N	2.79	0.49
3:k:89:VAL:HG22	3:l:89:VAL:HG13	1.94	0.49
3:o:44:ARG:O	3:o:63:LEU:HD12	2.13	0.49
3:p:11:ARG:HH22	3:p:114:LYS:HA	1.77	0.49
3:p:31:GLU:HA	3:p:45:PHE:O	2.12	0.49
3:u:46:THR:HB	3:u:62:LYS:CG	2.43	0.49
3:K:31:GLU:HA	3:K:45:PHE:O	2.13	0.49
3:L:71:GLN:HB3	3:L:78:THR:O	2.11	0.49
3:M:32:VAL:HG12	3:M:45:PHE:HB3	1.93	0.49
3:AO:63:LEU:O	3:AO:87:VAL:HG12	2.12	0.49
3:AO:63:LEU:CD2	3:AP:108:MET:HB3	2.43	0.49
3:AO:121:HIS:NE2	3:AO:125:VAL:HG21	2.28	0.49
3:AR:98:THR:HA	3:By:37:GLY:O	2.12	0.49
3:Ac:120:VAL:O	3:Ac:124:ILE:HG12	2.12	0.49
3:Ah:16:ASN:OD1	3:Ah:18:HIS:NE2	2.46	0.49
3:Ar:104:ASN:O	3:Ar:108:MET:HG2	2.12	0.49
3:Au:98:THR:O	3:Au:102:ARG:HG3	2.13	0.49
3:Av:57:TYR:O	3:Av:92:ASP:HA	2.13	0.49
3:A1:21:VAL:C	3:A1:32:VAL:HG23	2.37	0.49
3:A8:32:VAL:O	3:A8:44:ARG:HA	2.13	0.49
3:A9:18:HIS:HB3	3:A9:34:GLU:OE1	2.13	0.49
3:BA:36:THR:OG1	3:BA:37:GLY:N	2.42	0.49
3:BD:72:THR:OG1	3:BD:77:VAL:HG22	2.13	0.49
3:BE:121:HIS:HA	3:BE:124:ILE:HG22	1.94	0.49
3:BG:49:LEU:HD11	3:BH:123:THR:HG23	1.95	0.49
3:BK:45:PHE:HZ	3:BK:61:LEU:HD12	1.78	0.49
3:BL:70:SER:HA	3:BL:78:THR:O	2.13	0.49
3:BS:44:ARG:HG2	3:BS:64:VAL:HB	1.94	0.49
3:BS:63:LEU:HB3	3:BS:87:VAL:HG11	1.95	0.49
3:BZ:99:THR:OG1	3:BZ:102:ARG:NH2	2.45	0.49
3:Bd:6:LEU:HB3	3:Bd:20:PHE:HB2	1.94	0.49
3:Bg:11:ARG:NH2	3:Bg:114:LYS:HA	2.28	0.49
3:Bi:89:VAL:HG12	3:Bj:89:VAL:HA	1.95	0.49
3:By:58:LYS:HG2	3:By:92:ASP:HB3	1.95	0.49
3:B1:37:GLY:O	3:B1:39:PRO:HD3	2.13	0.49
3:B8:61:LEU:HD12	3:B8:89:VAL:HB	1.95	0.49
3:CI:46:THR:HB	3:CI:62:LYS:HE2	1.95	0.49
3:CK:23:ARG:HB2	3:CK:33:VAL:HG22	1.95	0.49
3:CL:57:TYR:O	3:CL:92:ASP:HA	2.13	0.49
3:CL:98:THR:HG22	3:CL:100:LYS:H	1.78	0.49
3:CM:86:TYR:HB2	3:CN:92:ASP:CB	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:0:22:PRO:CA	3:0:32:VAL:HG12	2.43	0.49
3:5:32:VAL:CG2	3:5:45:PHE:HB3	2.43	0.49
3:8:9:LYS:HE2	3:8:9:LYS:HA	1.93	0.49
3:8:28:ASN:ND2	3:AD:24:ASP:HB2	2.28	0.49
3:A:122:ASP:HA	3:A:126:ASN:HB2	1.94	0.49
3:C:31:GLU:HB3	3:C:46:THR:HG22	1.94	0.49
3:T:62:LYS:HZ1	3:T:64:VAL:HG22	1.77	0.49
3:W:8:LEU:HD23	3:W:20:PHE:HE1	1.78	0.49
3:Z:23:ARG:HH21	3:Z:33:VAL:HG11	1.78	0.49
3:f:49:LEU:HD12	3:f:58:LYS:O	2.13	0.49
3:g:57:TYR:CE2	3:g:95:ALA:HA	2.48	0.49
3:k:8:LEU:HD23	3:l:108:MET:O	2.12	0.49
3:m:49:LEU:HD12	3:m:58:LYS:O	2.13	0.49
3:w:72:THR:OG1	3:w:77:VAL:HG22	2.12	0.49
3:N:102:ARG:O	3:N:106:VAL:HG23	2.13	0.49
3:AB:67:VAL:O	3:AB:82:VAL:HG22	2.13	0.49
3:AB:121:HIS:HA	3:AB:124:ILE:HG22	1.94	0.49
3:AO:72:THR:HA	3:AO:76:ILE:O	2.13	0.49
3:AQ:116:ASP:N	3:AQ:116:ASP:OD1	2.45	0.49
3:AS:63:LEU:HB3	3:AS:87:VAL:CG1	2.43	0.49
3:AW:93:TYR:CD1	3:AW:102:ARG:HG2	2.47	0.49
3:AY:83:ARG:NE	3:AZ:97:SER:HA	2.28	0.49
3:Aa:20:PHE:CD1	3:Aa:34:GLU:HB2	2.47	0.49
3:Af:41:GLY:CA	3:Af:66:PRO:HG2	2.40	0.49
3:Af:99:THR:OG1	3:Af:102:ARG:NH2	2.45	0.49
3:Ai:121:HIS:NE2	3:Ai:125:VAL:HG21	2.28	0.49
3:Aj:68:VAL:HG22	3:Aj:81:VAL:HG22	1.95	0.49
3:Al:82:VAL:HG23	3:Al:83:ARG:HG2	1.95	0.49
3:Am:90:ASP:HB2	3:An:88:THR:OG1	2.13	0.49
3:An:69:GLN:HE21	3:Bb:76:ILE:HD11	1.78	0.49
3:Ap:59:SER:OG	3:Ap:91:PHE:HB2	2.12	0.49
3:Ap:70:SER:HB2	3:Ap:78:THR:H	1.77	0.49
3:Ar:99:THR:OG1	3:CO:37:GLY:HA2	2.13	0.49
3:At:35:SER:HB2	3:At:42:GLU:HG3	1.94	0.49
3:Ax:46:THR:OG1	3:Ax:62:LYS:HB3	2.13	0.49
3:Az:64:VAL:HG13	3:Az:85:SER:O	2.13	0.49
3:A1:63:LEU:O	3:A1:87:VAL:HG12	2.12	0.49
3:A8:52:THR:HG21	3:A8:56:ARG:HB2	1.94	0.49
3:A9:61:LEU:HB2	3:A9:89:VAL:CG2	2.43	0.49
3:BE:37:GLY:O	3:BE:39:PRO:HD3	2.13	0.49
3:BH:63:LEU:O	3:BH:87:VAL:HG22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:62:LYS:HG2	3:BM:88:THR:OG1	2.11	0.49
3:BV:49:LEU:HD12	3:BV:58:LYS:O	2.13	0.49
3:Bc:6:LEU:O	3:Bc:20:PHE:N	2.31	0.49
3:Bi:63:LEU:O	3:Bi:87:VAL:HG12	2.13	0.49
3:Bi:117:LYS:HD2	3:Bj:6:LEU:CD1	2.43	0.49
3:Bw:90:ASP:HB2	3:Bx:88:THR:OG1	2.12	0.49
3:B3:7:VAL:HA	3:B3:18:HIS:O	2.12	0.49
3:B3:32:VAL:HG13	3:B3:45:PHE:HB3	1.95	0.49
3:B9:49:LEU:HD13	3:B9:59:SER:HB3	1.95	0.49
3:CA:5:ASN:HA	3:CA:20:PHE:O	2.13	0.49
3:CK:32:VAL:CG1	3:CK:45:PHE:HB3	2.42	0.49
3:CQ:36:THR:OG1	3:CQ:37:GLY:N	2.32	0.49
3:CQ:66:PRO:CA	3:CQ:84:THR:HG22	2.43	0.49
3:CR:35:SER:HA	3:CR:42:GLU:HG3	1.94	0.49
3:CT:67:VAL:O	3:CT:82:VAL:HG22	2.13	0.49
3:2:98:THR:HG22	3:2:101:GLU:HG3	1.94	0.49
3:4:131:TYR:CD1	3:B0:24:ASP:HA	2.47	0.49
3:7:63:LEU:HB3	3:7:87:VAL:CG1	2.43	0.49
3:9:33:VAL:HG22	3:9:44:ARG:HG2	1.95	0.49
3:E:122:ASP:O	3:E:128:GLN:N	2.45	0.49
3:O:99:THR:OG1	3:A4:37:GLY:HA2	2.13	0.49
3:S:10:ASP:CB	3:S:16:ASN:HB2	2.43	0.49
3:Y:131:TYR:CE1	3:Z:1:ALA:HB3	2.48	0.49
3:j:25:ILE:HG22	3:j:30:GLY:CA	2.43	0.49
3:r:39:PRO:HD3	3:Ac:97:SER:O	2.13	0.49
3:r:68:VAL:HG11	3:r:79:PRO:HB2	1.95	0.49
3:t:41:GLY:HA3	3:t:68:VAL:CG2	2.43	0.49
3:w:33:VAL:CG1	3:w:42:GLU:HG3	2.43	0.49
3:w:112:ALA:O	3:w:120:VAL:HG11	2.13	0.49
3:y:90:ASP:HB2	3:z:88:THR:CG2	2.43	0.49
3:G:118:MET:SD	3:G:118:MET:N	2.78	0.49
3:AB:114:LYS:O	3:AB:121:HIS:HB2	2.13	0.49
3:AR:24:ASP:HB2	3:AV:28:ASN:ND2	2.27	0.49
3:AU:106:VAL:HG21	3:AV:125:VAL:HG22	1.95	0.49
3:AW:49:LEU:HD12	3:AW:58:LYS:O	2.12	0.49
3:AX:38:VAL:HG12	3:AX:40:ILE:HG22	1.95	0.49
3:AZ:64:VAL:HG13	3:AZ:85:SER:O	2.13	0.49
3:Ad:20:PHE:HB3	3:Ad:32:VAL:CG1	2.42	0.49
3:Ad:34:GLU:O	3:Ad:42:GLU:HB2	2.11	0.49
3:Af:32:VAL:HB	3:Af:45:PHE:HB3	1.94	0.49
3:Ai:31:GLU:HB3	3:Ai:46:THR:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Al:31:GLU:CB	3:Al:46:THR:HG22	2.43	0.49
3:At:33:VAL:CG1	3:At:42:GLU:HG2	2.43	0.49
3:At:39:PRO:HA	3:At:42:GLU:OE2	2.12	0.49
3:Aw:31:GLU:HA	3:Aw:45:PHE:O	2.12	0.49
3:Ax:41:GLY:HA3	3:Ax:68:VAL:CG2	2.42	0.49
3:Ax:120:VAL:O	3:Ax:124:ILE:HG22	2.12	0.49
3:Ay:4:GLN:NE2	3:Az:119:LEU:HB2	2.28	0.49
3:A7:63:LEU:HB3	3:A7:87:VAL:CG1	2.42	0.49
3:BA:29:VAL:HA	3:BA:48:SER:OG	2.13	0.49
3:BG:8:LEU:HD23	3:BG:20:PHE:HE1	1.78	0.49
3:BG:90:ASP:OD1	3:BH:88:THR:HB	2.13	0.49
3:BM:31:GLU:HG2	3:BM:45:PHE:O	2.12	0.49
3:BO:45:PHE:HA	3:BO:62:LYS:O	2.13	0.49
3:Bc:31:GLU:HA	3:Bc:45:PHE:O	2.13	0.49
3:Bh:33:VAL:HG13	3:Bh:42:GLU:HB2	1.94	0.49
3:Bh:44:ARG:O	3:Bh:63:LEU:HD12	2.12	0.49
3:Bi:9:LYS:N	3:Bj:111:ASP:OD2	2.46	0.49
3:Bj:38:VAL:HG21	3:Bj:79:PRO:HG3	1.95	0.49
3:Bl:102:ARG:O	3:Bl:106:VAL:HG23	2.12	0.49
3:Bw:61:LEU:HB2	3:Bw:89:VAL:CG2	2.42	0.49
3:CS:101:GLU:OE2	3:CT:83:ARG:NE	2.43	0.49
3:A:7:VAL:HA	3:A:18:HIS:O	2.13	0.48
3:O:120:VAL:O	3:O:124:ILE:HG22	2.13	0.48
3:h:47:ILE:HD13	3:h:61:LEU:HD13	1.95	0.48
3:k:44:ARG:O	3:k:63:LEU:HA	2.13	0.48
3:o:33:VAL:CG1	3:o:42:GLU:HG3	2.43	0.48
3:p:44:ARG:O	3:p:63:LEU:HD12	2.13	0.48
3:N:41:GLY:HA2	3:N:66:PRO:HG2	1.95	0.48
3:AA:102:ARG:O	3:AA:106:VAL:HG23	2.13	0.48
3:AO:25:ILE:HD11	3:AR:131:TYR:HB2	1.94	0.48
3:AO:37:GLY:HA2	3:AQ:99:THR:OG1	2.13	0.48
3:AO:104:ASN:ND2	3:AP:12:GLU:OE2	2.46	0.48
3:AS:52:THR:HG21	3:AS:58:LYS:NZ	2.28	0.48
3:AU:20:PHE:HA	3:AU:34:GLU:HB2	1.95	0.48
3:Ai:44:ARG:O	3:Ai:63:LEU:HA	2.12	0.48
3:Aj:46:THR:HB	3:Aj:62:LYS:HE2	1.95	0.48
3:Al:63:LEU:HB3	3:Al:87:VAL:CG1	2.43	0.48
3:Ap:23:ARG:HB2	3:Ap:33:VAL:HG12	1.94	0.48
3:Ar:23:ARG:NH2	3:Ar:33:VAL:HG21	2.28	0.48
3:Av:129:GLY:HA3	3:A8:24:ASP:OD2	2.12	0.48
3:A2:58:LYS:HG2	3:A2:92:ASP:CB	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A4:119:LEU:O	3:A4:119:LEU:HD23	2.13	0.48
3:BL:3:LEU:HD22	3:BL:22:PRO:HB3	1.94	0.48
3:BL:23:ARG:HD2	3:BL:33:VAL:HG21	1.94	0.48
3:BN:24:ASP:HB3	3:CD:129:GLY:HA3	1.93	0.48
3:BN:25:ILE:HG23	3:BN:29:VAL:H	1.78	0.48
3:BN:31:GLU:HA	3:BN:45:PHE:O	2.13	0.48
3:BY:25:ILE:CD1	3:BY:30:GLY:HA2	2.43	0.48
3:Bc:4:GLN:NE2	3:Bd:119:LEU:HB2	2.27	0.48
3:Bj:20:PHE:HE1	3:Bj:43:SER:HB2	1.77	0.48
3:Bl:59:SER:OG	3:Bl:91:PHE:HB2	2.12	0.48
3:Bu:7:VAL:HA	3:Bu:18:HIS:O	2.12	0.48
3:By:46:THR:O	3:By:61:LEU:HA	2.12	0.48
3:Bz:70:SER:HB2	3:Bz:77:VAL:CG1	2.42	0.48
3:B4:3:LEU:HG	3:B4:22:PRO:HB3	1.94	0.48
3:CD:44:ARG:O	3:CD:63:LEU:HD12	2.13	0.48
3:CI:7:VAL:HA	3:CI:18:HIS:O	2.12	0.48
3:CO:9:LYS:N	3:CP:111:ASP:OD2	2.44	0.48
3:CP:48:SER:HB3	3:CP:60:THR:OG1	2.13	0.48
3:CR:63:LEU:O	3:CR:87:VAL:HG22	2.13	0.48
3:CS:68:VAL:HG13	3:CS:80:VAL:O	2.13	0.48
3:2:131:TYR:CE2	3:y:3:LEU:HD21	2.47	0.48
3:4:32:VAL:O	3:4:44:ARG:HA	2.13	0.48
3:4:122:ASP:HB2	3:4:128:GLN:HG3	1.95	0.48
3:A:25:ILE:HD11	3:BZ:131:TYR:HB2	1.95	0.48
3:C:11:ARG:NH1	3:C:115:ALA:HB2	2.27	0.48
3:C:82:VAL:HG23	3:C:83:ARG:HG2	1.93	0.48
3:E:3:LEU:HD22	3:E:22:PRO:HB3	1.93	0.48
3:U:44:ARG:O	3:U:63:LEU:HD12	2.13	0.48
3:V:32:VAL:CG2	3:V:45:PHE:HB3	2.43	0.48
3:W:37:GLY:O	3:W:39:PRO:HD3	2.13	0.48
3:b:52:THR:OG1	3:b:53:SER:N	2.46	0.48
3:e:63:LEU:HB3	3:e:87:VAL:CG1	2.43	0.48
3:g:35:SER:HB2	3:g:42:GLU:CB	2.43	0.48
3:i:66:PRO:CA	3:i:84:THR:HG22	2.43	0.48
3:i:101:GLU:OE2	3:j:83:ARG:NH2	2.46	0.48
3:j:72:THR:HB	3:j:77:VAL:HG22	1.95	0.48
3:k:24:ASP:HB2	3:Av:28:ASN:ND2	2.28	0.48
3:m:111:ASP:OD2	3:n:9:LYS:N	2.46	0.48
3:z:49:LEU:HD12	3:z:58:LYS:O	2.13	0.48
3:G:46:THR:OG1	3:G:62:LYS:HB2	2.13	0.48
3:J:49:LEU:HD12	3:J:58:LYS:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:118:MET:SD	3:L:4:GLN:NE2	2.85	0.48
3:AV:9:LYS:HE3	3:AV:17:ASP:OD1	2.13	0.48
3:AV:79:PRO:HG2	3:By:96:ARG:HG3	1.94	0.48
3:AW:23:ARG:HH21	3:AW:33:VAL:HG11	1.78	0.48
3:Ab:36:THR:OG1	3:Ab:37:GLY:N	2.45	0.48
3:Ad:38:VAL:HG22	3:Ad:40:ILE:HG12	1.95	0.48
3:Aj:57:TYR:O	3:Aj:92:ASP:HA	2.13	0.48
3:Al:25:ILE:HG23	3:Al:29:VAL:H	1.77	0.48
3:Am:49:LEU:HD12	3:Am:58:LYS:O	2.13	0.48
3:At:32:VAL:O	3:At:44:ARG:HA	2.13	0.48
3:Av:54:ASN:HD21	3:Av:56:ARG:HG2	1.77	0.48
3:Aw:68:VAL:CG1	3:Aw:79:PRO:HB2	2.43	0.48
3:Ax:12:GLU:OE2	3:Ax:15:PRO:HA	2.13	0.48
3:A1:8:LEU:HD23	3:A1:20:PHE:HE1	1.78	0.48
3:A2:34:GLU:HB3	3:A2:43:SER:H	1.77	0.48
3:A4:57:TYR:O	3:A4:92:ASP:HA	2.13	0.48
3:BB:34:GLU:O	3:BB:42:GLU:HB2	2.13	0.48
3:BI:94:ASP:HB3	3:BI:97:SER:OG	2.13	0.48
3:BM:57:TYR:O	3:BM:92:ASP:HA	2.13	0.48
3:Bh:69:GLN:NE2	3:Bh:82:VAL:HG21	2.27	0.48
3:Bn:52:THR:OG1	3:Bn:53:SER:N	2.41	0.48
3:Bn:114:LYS:HB3	3:Bn:116:ASP:OD1	2.13	0.48
3:Bv:33:VAL:HG22	3:Bv:44:ARG:HA	1.95	0.48
3:By:90:ASP:HB2	3:Bz:88:THR:OG1	2.13	0.48
3:B1:49:LEU:HD13	3:B1:59:SER:HB2	1.94	0.48
3:B1:86:TYR:HB2	3:B2:92:ASP:OD2	2.13	0.48
3:B7:57:TYR:O	3:B7:92:ASP:HA	2.13	0.48
3:B9:6:LEU:HB3	3:B9:20:PHE:HB2	1.95	0.48
3:CB:7:VAL:HA	3:CB:18:HIS:O	2.13	0.48
3:1:63:LEU:HB3	3:1:87:VAL:CG1	2.43	0.48
3:A:9:LYS:HD3	3:A:16:ASN:O	2.13	0.48
3:C:25:ILE:HG22	3:C:30:GLY:CA	2.44	0.48
3:D:122:ASP:HB3	3:D:128:GLN:CG	2.41	0.48
3:O:3:LEU:HD22	3:O:22:PRO:HB3	1.94	0.48
3:O:66:PRO:HB3	3:O:84:THR:HG22	1.94	0.48
3:P:121:HIS:O	3:P:125:VAL:HB	2.14	0.48
3:R:38:VAL:HG11	3:R:79:PRO:HG3	1.94	0.48
3:Z:72:THR:HA	3:Z:76:ILE:O	2.13	0.48
3:h:22:PRO:HA	3:h:32:VAL:HA	1.95	0.48
3:m:29:VAL:HG13	3:m:46:THR:CG2	2.43	0.48
3:m:121:HIS:HA	3:m:124:ILE:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:n:57:TYR:O	3:n:92:ASP:HA	2.13	0.48
3:o:64:VAL:HG12	3:o:66:PRO:HD3	1.95	0.48
3:r:42:GLU:O	3:r:66:PRO:HD2	2.13	0.48
3:t:71:GLN:O	3:t:77:VAL:HA	2.13	0.48
3:w:63:LEU:O	3:w:87:VAL:HG12	2.13	0.48
3:x:49:LEU:HD12	3:x:58:LYS:O	2.13	0.48
3:z:68:VAL:HG13	3:z:80:VAL:C	2.38	0.48
3:J:67:VAL:O	3:J:82:VAL:HG22	2.13	0.48
3:K:14:THR:HG23	3:K:16:ASN:OD1	2.13	0.48
3:L:48:SER:OG	3:L:60:THR:HB	2.12	0.48
3:AP:48:SER:OG	3:AP:60:THR:HB	2.12	0.48
3:AP:131:TYR:CD1	3:Bx:24:ASP:HA	2.48	0.48
3:AV:49:LEU:HD12	3:AV:58:LYS:O	2.12	0.48
3:AX:51:LYS:HD3	3:AX:57:TYR:CE1	2.48	0.48
3:AY:37:GLY:O	3:Aa:98:THR:HA	2.13	0.48
3:Ac:66:PRO:CA	3:Ac:84:THR:HG22	2.43	0.48
3:Ad:126:ASN:HB3	3:Ad:128:GLN:HE22	1.77	0.48
3:Ae:8:LEU:HD11	3:Af:112:ALA:HA	1.94	0.48
3:Ae:50:ARG:H	3:Ae:50:ARG:HD3	1.78	0.48
3:Ag:92:ASP:CB	3:Ah:86:TYR:HB2	2.44	0.48
3:Ai:66:PRO:CA	3:Ai:84:THR:HG22	2.43	0.48
3:Ai:122:ASP:OD1	3:Ai:126:ASN:ND2	2.37	0.48
3:An:58:LYS:HG2	3:An:92:ASP:HB3	1.95	0.48
3:Ar:112:ALA:O	3:Ar:120:VAL:HG11	2.13	0.48
3:As:58:LYS:HB3	3:As:92:ASP:HB3	1.94	0.48
3:At:10:ASP:OD2	3:At:16:ASN:HB2	2.13	0.48
3:A2:20:PHE:HB3	3:A2:32:VAL:HG11	1.94	0.48
3:A5:50:ARG:HD2	3:A5:58:LYS:HB2	1.96	0.48
3:BG:89:VAL:CG1	3:BH:89:VAL:HG13	2.43	0.48
3:BH:52:THR:OG1	3:BH:56:ARG:HB2	2.12	0.48
3:BS:23:ARG:HH21	3:BS:33:VAL:HG21	1.77	0.48
3:BS:66:PRO:CA	3:BS:84:THR:HG22	2.41	0.48
3:BY:31:GLU:OE2	3:BY:44:ARG:NH2	2.46	0.48
3:BZ:7:VAL:HA	3:BZ:18:HIS:O	2.13	0.48
3:Bb:73:VAL:O	3:Bb:76:ILE:HG12	2.13	0.48
3:Bc:113:LEU:HD23	3:Bd:110:ALA:HA	1.95	0.48
3:Bc:131:TYR:HB3	3:B5:24:ASP:OD1	2.13	0.48
3:Bg:49:LEU:HD13	3:Bh:129:GLY:HA2	1.95	0.48
3:Bk:23:ARG:NH2	3:Bk:33:VAL:HG21	2.27	0.48
3:Bl:98:THR:HG22	3:Bl:100:LYS:H	1.78	0.48
3:Bu:102:ARG:O	3:Bu:106:VAL:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:By:60:THR:HA	3:By:89:VAL:O	2.14	0.48
3:Bz:3:LEU:CD2	3:Bz:25:ILE:HD11	2.43	0.48
3:Bz:68:VAL:HG11	3:Bz:79:PRO:HB2	1.95	0.48
3:B6:69:GLN:O	3:B6:79:PRO:HA	2.13	0.48
3:CB:5:ASN:OD1	3:CB:21:VAL:HG12	2.14	0.48
3:CK:44:ARG:O	3:CK:63:LEU:HD12	2.13	0.48
3:CN:52:THR:HG22	3:CN:56:ARG:O	2.14	0.48
3:CN:111:ASP:O	3:CN:117:LYS:NZ	2.33	0.48
3:CO:25:ILE:HG12	3:CO:30:GLY:HA2	1.96	0.48
3:CT:32:VAL:O	3:CT:44:ARG:HA	2.13	0.48
3:CT:63:LEU:HB3	3:CT:87:VAL:CG2	2.43	0.48
3:0:7:VAL:HA	3:0:18:HIS:O	2.13	0.48
3:0:35:SER:HB2	3:0:42:GLU:CB	2.41	0.48
3:5:6:LEU:HB3	3:5:20:PHE:HB2	1.95	0.48
3:7:71:GLN:O	3:7:77:VAL:HA	2.14	0.48
3:8:49:LEU:HD12	3:8:58:LYS:O	2.12	0.48
3:8:60:THR:HG22	3:8:90:ASP:CB	2.39	0.48
3:9:129:GLY:HA3	3:CK:24:ASP:CG	2.38	0.48
3:W:38:VAL:HA	3:Y:97:SER:O	2.13	0.48
3:h:47:ILE:HD13	3:h:61:LEU:CD1	2.44	0.48
3:k:72:THR:HA	3:k:76:ILE:O	2.14	0.48
3:t:31:GLU:HA	3:t:45:PHE:O	2.14	0.48
3:w:49:LEU:HD12	3:w:58:LYS:O	2.14	0.48
3:z:20:PHE:HB3	3:z:32:VAL:HG12	1.94	0.48
3:I:8:LEU:CD1	3:J:112:ALA:HA	2.44	0.48
3:K:119:LEU:HD12	3:L:4:GLN:CG	2.43	0.48
3:AB:29:VAL:HG13	3:AB:46:THR:HG21	1.95	0.48
3:AO:57:TYR:O	3:AO:92:ASP:HA	2.12	0.48
3:AO:122:ASP:O	3:AO:126:ASN:HB2	2.13	0.48
3:AT:113:LEU:HB3	3:AT:120:VAL:HG11	1.94	0.48
3:AW:72:THR:HA	3:AW:76:ILE:O	2.14	0.48
3:Aj:20:PHE:HA	3:Aj:34:GLU:OE1	2.12	0.48
3:Ao:20:PHE:CD2	3:Ao:34:GLU:HB2	2.49	0.48
3:Ax:7:VAL:HA	3:Ax:18:HIS:O	2.12	0.48
3:A2:52:THR:HG21	3:A2:56:ARG:HB2	1.94	0.48
3:A8:68:VAL:HG13	3:A8:80:VAL:C	2.38	0.48
3:BC:14:THR:HG23	3:BC:16:ASN:OD1	2.13	0.48
3:BD:63:LEU:O	3:BD:87:VAL:HG12	2.14	0.48
3:BE:35:SER:OG	3:BE:39:PRO:HA	2.13	0.48
3:BH:12:GLU:OE1	3:BH:12:GLU:N	2.46	0.48
3:BK:57:TYR:O	3:BK:92:ASP:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BZ:63:LEU:HB3	3:BZ:87:VAL:CG1	2.43	0.48
3:Bb:48:SER:OG	3:Bb:60:THR:HB	2.12	0.48
3:Bi:57:TYR:O	3:Bi:92:ASP:HA	2.13	0.48
3:Bw:32:VAL:HG13	3:Bw:45:PHE:HB3	1.96	0.48
3:B4:7:VAL:HA	3:B4:18:HIS:O	2.14	0.48
3:B4:43:SER:HA	3:B4:64:VAL:O	2.13	0.48
3:B6:20:PHE:CD1	3:B6:34:GLU:HB2	2.49	0.48
3:B7:111:ASP:OD2	3:B8:9:LYS:N	2.41	0.48
3:B9:8:LEU:HD11	3:B0:112:ALA:HA	1.95	0.48
3:B0:32:VAL:O	3:B0:44:ARG:HA	2.13	0.48
3:CA:44:ARG:HH21	3:CA:64:VAL:HG21	1.78	0.48
3:CA:63:LEU:HB3	3:CA:87:VAL:CG1	2.43	0.48
3:CC:106:VAL:HG13	3:CD:113:LEU:HD12	1.96	0.48
3:CI:21:VAL:C	3:CI:32:VAL:HG23	2.39	0.48
3:CN:20:PHE:HB3	3:CN:32:VAL:CG1	2.43	0.48
3:CR:20:PHE:HB3	3:CR:32:VAL:CG1	2.43	0.48
3:CT:20:PHE:HB3	3:CT:32:VAL:CG2	2.44	0.48
3:0:8:LEU:HD13	3:9:117:LYS:HE2	1.94	0.48
3:2:24:ASP:HB2	3:v:28:ASN:ND2	2.29	0.48
3:2:29:VAL:CG1	3:2:46:THR:HB	2.43	0.48
3:2:99:THR:OG1	3:As:37:GLY:HA2	2.13	0.48
3:8:57:TYR:O	3:8:92:ASP:HA	2.13	0.48
3:C:101:GLU:OE2	3:D:83:ARG:NH2	2.32	0.48
3:c:7:VAL:O	3:d:117:LYS:HE2	2.13	0.48
3:i:71:GLN:HB3	3:p:76:ILE:CD1	2.43	0.48
3:m:47:ILE:HG13	3:m:61:LEU:HG	1.96	0.48
3:n:58:LYS:HG2	3:n:92:ASP:CB	2.41	0.48
3:o:21:VAL:HG11	3:BA:128:GLN:HB3	1.96	0.48
3:s:7:VAL:HA	3:s:18:HIS:O	2.13	0.48
3:u:104:ASN:ND2	3:v:11:ARG:HB2	2.28	0.48
3:M:4:GLN:HE21	3:N:119:LEU:HB2	1.77	0.48
3:N:123:THR:O	3:N:127:LEU:HD13	2.14	0.48
3:AD:9:LYS:HA	3:AD:16:ASN:O	2.14	0.48
3:AS:52:THR:HG21	3:AS:58:LYS:HZ2	1.79	0.48
3:AV:43:SER:HA	3:AV:64:VAL:O	2.13	0.48
3:AZ:34:GLU:HB3	3:AZ:43:SER:HB2	1.95	0.48
3:AZ:63:LEU:O	3:AZ:87:VAL:HG22	2.13	0.48
3:Aa:14:THR:HG23	3:Aa:16:ASN:OD1	2.14	0.48
3:Aa:63:LEU:HB3	3:Aa:87:VAL:CG1	2.43	0.48
3:Ad:20:PHE:HB3	3:Ad:32:VAL:HG11	1.95	0.48
3:Ad:58:LYS:HG2	3:Ad:92:ASP:CB	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ae:102:ARG:O	3:Ae:106:VAL:HG23	2.13	0.48
3:Ae:118:MET:SD	3:Ae:118:MET:N	2.76	0.48
3:Am:66:PRO:CA	3:Am:84:THR:HG22	2.42	0.48
3:An:73:VAL:HB	3:An:76:ILE:CD1	2.37	0.48
3:Aq:51:LYS:HD2	3:Aq:55:GLY:HA2	1.95	0.48
3:At:49:LEU:HD12	3:At:58:LYS:O	2.12	0.48
3:Av:72:THR:OG1	3:Av:77:VAL:HG22	2.13	0.48
3:Aw:51:LYS:HE3	3:Aw:57:TYR:CE1	2.49	0.48
3:Az:20:PHE:CD1	3:Az:34:GLU:HB2	2.49	0.48
3:A5:117:LYS:HB3	3:A5:120:VAL:HG22	1.95	0.48
3:A8:57:TYR:O	3:A8:92:ASP:HA	2.14	0.48
3:A9:58:LYS:CB	3:A9:92:ASP:HB3	2.43	0.48
3:BA:44:ARG:O	3:BA:63:LEU:HA	2.12	0.48
3:BA:66:PRO:CA	3:BA:84:THR:HG22	2.44	0.48
3:BD:69:GLN:NE2	3:BD:82:VAL:HG21	2.27	0.48
3:BH:102:ARG:O	3:BH:106:VAL:HG23	2.13	0.48
3:BJ:29:VAL:HG22	3:BJ:48:SER:HB3	1.96	0.48
3:BQ:69:GLN:OE1	3:BY:76:ILE:HD12	2.13	0.48
3:BQ:119:LEU:HB2	3:BR:4:GLN:NE2	2.29	0.48
3:BS:64:VAL:HA	3:BS:85:SER:O	2.14	0.48
3:BZ:38:VAL:HG12	3:BZ:40:ILE:HG22	1.96	0.48
3:Bc:51:LYS:HD3	3:Bc:57:TYR:CE1	2.49	0.48
3:Bh:14:THR:HG23	3:Bh:16:ASN:OD1	2.14	0.48
3:Bj:52:THR:HG22	3:Bj:56:ARG:O	2.14	0.48
3:Bm:117:LYS:HD2	3:Bn:6:LEU:CD1	2.43	0.48
3:By:33:VAL:HG12	3:By:44:ARG:HA	1.94	0.48
3:B4:12:GLU:OE2	3:B4:15:PRO:HA	2.13	0.48
3:B5:45:PHE:HA	3:B5:62:LYS:O	2.13	0.48
3:CA:8:LEU:HD23	3:CA:20:PHE:HE1	1.77	0.48
3:CD:71:GLN:HE22	3:CD:73:VAL:HG22	1.78	0.48
3:CH:30:GLY:O	3:CH:47:ILE:N	2.43	0.48
3:CL:61:LEU:HB2	3:CL:89:VAL:HB	1.94	0.48
3:CM:1:ALA:HB2	3:CN:128:GLN:HG2	1.94	0.48
3:CM:64:VAL:HA	3:CM:85:SER:O	2.14	0.48
3:CO:58:LYS:HA	3:CO:92:ASP:HA	1.96	0.48
3:CP:102:ARG:O	3:CP:106:VAL:HG23	2.14	0.48
3:CR:58:LYS:HG2	3:CR:92:ASP:HB3	1.94	0.48
3:9:82:VAL:HG23	3:9:83:ARG:HG2	1.95	0.48
3:A:66:PRO:CA	3:A:84:THR:HG22	2.43	0.48
3:R:7:VAL:HA	3:R:18:HIS:O	2.14	0.48
3:R:24:ASP:OD2	3:A0:129:GLY:HA3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U:92:ASP:CB	3:V:86:TYR:HB2	2.43	0.48
3:Y:92:ASP:HB3	3:Z:86:TYR:HB2	1.96	0.48
3:f:28:ASN:ND2	3:l:24:ASP:HB2	2.29	0.48
3:j:20:PHE:HB3	3:j:32:VAL:CG1	2.42	0.48
3:j:68:VAL:HG13	3:j:80:VAL:C	2.38	0.48
3:k:32:VAL:CG2	3:k:45:PHE:HB3	2.43	0.48
3:m:44:ARG:HH21	3:m:64:VAL:HG21	1.79	0.48
3:m:110:ALA:HB2	3:n:113:LEU:HD11	1.94	0.48
3:n:61:LEU:N	3:n:89:VAL:O	2.32	0.48
3:p:72:THR:OG1	3:p:77:VAL:HG22	2.14	0.48
3:q:6:LEU:HD12	3:r:119:LEU:HB3	1.96	0.48
3:s:23:ARG:NH2	3:s:33:VAL:HG11	2.29	0.48
3:s:104:ASN:O	3:s:108:MET:HG3	2.13	0.48
3:x:25:ILE:HD13	3:x:30:GLY:HA2	1.96	0.48
3:J:38:VAL:HG13	3:J:40:ILE:HG22	1.95	0.48
3:J:38:VAL:HG11	3:J:79:PRO:HG3	1.96	0.48
3:M:1:ALA:HA	3:N:131:TYR:CE1	2.48	0.48
3:AA:37:GLY:HA2	3:AC:99:THR:OG1	2.14	0.48
3:AB:59:SER:OG	3:AB:91:PHE:HB2	2.13	0.48
3:AB:68:VAL:HG13	3:AB:80:VAL:C	2.39	0.48
3:AP:58:LYS:HG2	3:AP:92:ASP:HB3	1.95	0.48
3:AU:63:LEU:O	3:AU:87:VAL:HG12	2.13	0.48
3:AW:104:ASN:O	3:AW:108:MET:HG3	2.13	0.48
3:AW:117:LYS:HE2	3:AX:7:VAL:O	2.14	0.48
3:AY:7:VAL:O	3:AZ:117:LYS:NZ	2.40	0.48
3:AY:72:THR:OG1	3:AY:77:VAL:HG22	2.13	0.48
3:Ad:28:ASN:ND2	3:Ah:24:ASP:HB2	2.29	0.48
3:Ad:69:GLN:O	3:Ad:79:PRO:HA	2.14	0.48
3:Aj:20:PHE:HB3	3:Aj:32:VAL:CG1	2.42	0.48
3:Al:122:ASP:HB3	3:Al:128:GLN:HG3	1.93	0.48
3:Aq:106:VAL:HG11	3:Ar:125:VAL:HG22	1.96	0.48
3:As:106:VAL:HG12	3:At:11:ARG:HH22	1.79	0.48
3:At:35:SER:HB2	3:At:42:GLU:CG	2.44	0.48
3:At:38:VAL:HG21	3:At:79:PRO:CG	2.39	0.48
3:Au:66:PRO:HB3	3:Au:84:THR:HG22	1.94	0.48
3:A5:108:MET:HE3	3:A6:8:LEU:HD12	1.94	0.48
3:A8:20:PHE:HB3	3:A8:32:VAL:CG1	2.44	0.48
3:A8:47:ILE:HD12	3:A8:61:LEU:HG	1.96	0.48
3:BE:121:HIS:NE2	3:BE:125:VAL:HG21	2.29	0.48
3:BG:37:GLY:HA2	3:BI:99:THR:OG1	2.13	0.48
3:BK:89:VAL:HG12	3:BL:89:VAL:HG13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BO:117:LYS:HE2	3:BP:7:VAL:O	2.14	0.48
3:BR:68:VAL:HG13	3:BR:80:VAL:C	2.38	0.48
3:Bc:69:GLN:HE22	3:Bc:82:VAL:HG11	1.77	0.48
3:Bj:19:THR:O	3:Bj:34:GLU:HG3	2.13	0.48
3:Bn:59:SER:OG	3:Bn:91:PHE:HB2	2.14	0.48
3:By:119:LEU:HD11	3:Bz:3:LEU:HD12	1.96	0.48
3:B1:3:LEU:HD11	3:B2:130:VAL:HB	1.95	0.48
3:B5:9:LYS:N	3:B6:111:ASP:OD2	2.46	0.48
3:B7:38:VAL:O	3:B7:40:ILE:N	2.47	0.48
3:B8:49:LEU:HD12	3:B8:58:LYS:O	2.14	0.48
3:B9:57:TYR:O	3:B9:92:ASP:HA	2.14	0.48
3:CL:10:ASP:HB3	3:CL:12:GLU:OE1	2.14	0.48
3:CT:12:GLU:N	3:CT:12:GLU:OE1	2.46	0.48
3:2:23:ARG:NH2	3:2:33:VAL:HG21	2.29	0.48
3:8:96:ARG:HH22	3:AD:79:PRO:HD2	1.79	0.48
3:B:128:GLN:HA	3:BR:23:ARG:NH1	2.29	0.48
3:E:36:THR:OG1	3:E:37:GLY:N	2.40	0.48
3:E:117:LYS:HD2	3:Bb:6:LEU:CD1	2.43	0.48
3:O:63:LEU:O	3:O:87:VAL:HG12	2.14	0.48
3:P:44:ARG:O	3:P:63:LEU:HA	2.13	0.48
3:S:98:THR:HG22	3:Bv:38:VAL:CG2	2.39	0.48
3:T:69:GLN:HG2	3:T:80:VAL:O	2.13	0.48
3:c:47:ILE:HD13	3:c:61:LEU:CD1	2.44	0.48
3:e:61:LEU:HB2	3:e:89:VAL:CG2	2.44	0.48
3:f:29:VAL:CG1	3:f:48:SER:HB3	2.44	0.48
3:f:44:ARG:O	3:f:63:LEU:HA	2.13	0.48
3:f:104:ASN:O	3:f:108:MET:HG3	2.14	0.48
3:r:70:SER:HB2	3:r:77:VAL:CG1	2.43	0.48
3:r:122:ASP:HA	3:r:126:ASN:HB2	1.94	0.48
3:s:51:LYS:HD3	3:s:57:TYR:CE2	2.48	0.48
3:t:7:VAL:HA	3:t:18:HIS:O	2.13	0.48
3:y:4:GLN:CD	3:z:119:LEU:HD12	2.38	0.48
3:y:96:ARG:CG	3:Az:79:PRO:HG2	2.44	0.48
3:I:37:GLY:O	3:Bg:98:THR:HA	2.13	0.48
3:J:40:ILE:HD11	3:J:81:VAL:CG2	2.43	0.48
3:L:18:HIS:HB3	3:L:34:GLU:OE1	2.14	0.48
3:M:32:VAL:CG1	3:M:45:PHE:HB3	2.43	0.48
3:M:121:HIS:NE2	3:M:125:VAL:HG21	2.28	0.48
3:N:24:ASP:OD2	3:A8:129:GLY:HA3	2.13	0.48
3:AP:47:ILE:CD1	3:AP:61:LEU:HG	2.44	0.48
3:AQ:32:VAL:CG2	3:AQ:45:PHE:HB3	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AT:34:GLU:HB3	3:AT:43:SER:HB2	1.95	0.48
3:AT:123:THR:O	3:AT:127:LEU:HD13	2.13	0.48
3:AU:47:ILE:HA	3:AU:60:THR:O	2.14	0.48
3:AV:25:ILE:CD1	3:AV:30:GLY:HA2	2.43	0.48
3:AW:31:GLU:HA	3:AW:45:PHE:O	2.14	0.48
3:AZ:8:LEU:HB2	3:AZ:20:PHE:HE2	1.77	0.48
3:Ak:118:MET:HB2	3:Al:4:GLN:HE22	1.79	0.48
3:Am:121:HIS:NE2	3:Am:125:VAL:HG21	2.28	0.48
3:Ao:120:VAL:O	3:Ao:124:ILE:HG12	2.13	0.48
3:Aq:1:ALA:HA	3:Ar:131:TYR:CE1	2.48	0.48
3:As:8:LEU:HD11	3:At:112:ALA:HA	1.95	0.48
3:At:98:THR:HG22	3:At:100:LYS:H	1.78	0.48
3:A7:25:ILE:HA	3:A7:29:VAL:O	2.14	0.48
3:A9:4:GLN:NE2	3:A0:119:LEU:HB2	2.29	0.48
3:BE:63:LEU:HB3	3:BE:87:VAL:CG1	2.43	0.48
3:BF:23:ARG:HG3	3:BF:24:ASP:OD1	2.14	0.48
3:BI:112:ALA:HB2	3:BJ:8:LEU:HD11	1.96	0.48
3:BN:52:THR:OG1	3:BN:53:SER:N	2.41	0.48
3:BO:20:PHE:HB3	3:BO:32:VAL:HB	1.95	0.48
3:BQ:110:ALA:HB2	3:BR:113:LEU:HD11	1.95	0.48
3:BR:118:MET:SD	3:BR:118:MET:N	2.76	0.48
3:BY:7:VAL:CG1	3:BY:17:ASP:HB2	2.44	0.48
3:BY:71:GLN:HE22	3:BY:73:VAL:HG22	1.79	0.48
3:BY:121:HIS:NE2	3:BY:125:VAL:HG21	2.28	0.48
3:Bd:32:VAL:CG2	3:Bd:45:PHE:HB3	2.44	0.48
3:Bi:7:VAL:HA	3:Bi:18:HIS:O	2.13	0.48
3:Bi:61:LEU:O	3:Bi:88:THR:HA	2.13	0.48
3:Bj:47:ILE:CD1	3:Bj:61:LEU:HG	2.43	0.48
3:Bj:68:VAL:HG22	3:Bj:81:VAL:HG22	1.95	0.48
3:Bu:112:ALA:HA	3:Bu:117:LYS:HZ2	1.79	0.48
3:Bz:98:THR:O	3:Bz:102:ARG:HG3	2.14	0.48
3:B2:57:TYR:O	3:B2:93:TYR:N	2.46	0.48
3:B4:68:VAL:HG21	3:B4:79:PRO:HB2	1.96	0.48
3:B5:122:ASP:OD1	3:B5:126:ASN:ND2	2.38	0.48
3:B9:61:LEU:HB2	3:B9:89:VAL:CG2	2.43	0.48
3:B9:119:LEU:HD12	3:B0:4:GLN:CD	2.39	0.48
3:B0:22:PRO:HA	3:B0:32:VAL:HA	1.96	0.48
3:CD:77:VAL:HG12	3:CD:79:PRO:HD3	1.96	0.48
3:CD:99:THR:HA	3:CD:102:ARG:HE	1.77	0.48
3:CI:32:VAL:HG13	3:CI:45:PHE:HB3	1.95	0.48
3:CK:58:LYS:HD3	3:CK:90:ASP:OD2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CK:63:LEU:HB3	3:CK:87:VAL:CG1	2.43	0.48
3:CM:6:LEU:O	3:CM:19:THR:HA	2.13	0.48
3:CM:21:VAL:C	3:CM:32:VAL:HG23	2.38	0.48
3:CP:68:VAL:HG21	3:CP:79:PRO:HB2	1.96	0.48
3:CT:19:THR:O	3:CT:34:GLU:HG3	2.13	0.48
3:0:69:GLN:NE2	3:0:82:VAL:HG21	2.29	0.48
3:1:29:VAL:HG22	3:1:48:SER:CB	2.43	0.48
3:3:68:VAL:HA	3:3:81:VAL:HA	1.96	0.48
3:7:61:LEU:HB2	3:7:89:VAL:CG2	2.43	0.48
3:C:24:ASP:HB2	3:BF:28:ASN:ND2	2.28	0.48
3:O:25:ILE:HA	3:O:29:VAL:O	2.14	0.48
3:T:34:GLU:O	3:T:42:GLU:HG3	2.13	0.48
3:V:46:THR:OG1	3:V:62:LYS:HB2	2.13	0.48
3:X:124:ILE:HG23	3:X:125:VAL:HG23	1.95	0.48
3:Y:32:VAL:HG22	3:Y:45:PHE:HB3	1.94	0.48
3:f:98:THR:HG22	3:f:100:LYS:H	1.78	0.48
3:s:25:ILE:HG23	3:s:29:VAL:C	2.38	0.48
3:z:61:LEU:O	3:z:88:THR:HA	2.14	0.48
3:G:32:VAL:CG2	3:G:45:PHE:HB3	2.44	0.48
3:K:104:ASN:O	3:K:108:MET:HG3	2.14	0.48
3:AD:7:VAL:HA	3:AD:18:HIS:O	2.14	0.48
3:AO:120:VAL:O	3:AO:124:ILE:HG22	2.13	0.48
3:AR:114:LYS:HG2	3:AR:116:ASP:H	1.79	0.48
3:AU:20:PHE:HB3	3:AU:32:VAL:HG22	1.96	0.48
3:AX:111:ASP:OD1	3:AX:114:LYS:HD3	2.13	0.48
3:AY:63:LEU:HB3	3:AY:87:VAL:CG1	2.44	0.48
3:Aa:4:GLN:H	3:Ab:119:LEU:HD12	1.79	0.48
3:Ad:64:VAL:HG13	3:Ad:85:SER:O	2.13	0.48
3:Ah:10:ASP:HB2	3:Ah:18:HIS:NE2	2.29	0.48
3:An:64:VAL:HG13	3:An:85:SER:O	2.14	0.48
3:Ay:8:LEU:HD23	3:Ay:20:PHE:HE1	1.78	0.48
3:Ay:38:VAL:HG12	3:Ay:40:ILE:HG12	1.95	0.48
3:A1:44:ARG:O	3:A1:63:LEU:HA	2.13	0.48
3:A4:47:ILE:CD1	3:A4:61:LEU:HG	2.44	0.48
3:A6:71:GLN:O	3:A6:77:VAL:HA	2.14	0.48
3:A9:21:VAL:C	3:A9:32:VAL:HG23	2.38	0.48
3:BG:98:THR:HG22	3:CT:38:VAL:CG1	2.44	0.48
3:BL:34:GLU:O	3:BL:42:GLU:HG3	2.12	0.48
3:BS:63:LEU:O	3:BS:87:VAL:HG12	2.13	0.48
3:Bb:56:ARG:NH2	3:Bb:92:ASP:OD2	2.46	0.48
3:Bu:32:VAL:HG13	3:Bu:45:PHE:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bv:63:LEU:O	3:Bv:87:VAL:HG22	2.14	0.48
3:Bw:89:VAL:HG12	3:Bx:89:VAL:HG22	1.96	0.48
3:Bx:34:GLU:O	3:Bx:42:GLU:HB2	2.13	0.48
3:Bz:34:GLU:O	3:Bz:42:GLU:HB2	2.13	0.48
3:B1:21:VAL:C	3:B1:32:VAL:HG23	2.39	0.48
3:B2:102:ARG:O	3:B2:106:VAL:HG23	2.13	0.48
3:B4:20:PHE:HA	3:B4:34:GLU:OE1	2.14	0.48
3:B6:38:VAL:HG21	3:B6:79:PRO:HG3	1.95	0.48
3:B7:124:ILE:HG23	3:B7:125:VAL:HG23	1.95	0.48
3:B8:104:ASN:O	3:B8:108:MET:HG2	2.13	0.48
3:B9:92:ASP:OD1	3:B9:92:ASP:N	2.44	0.48
3:CD:63:LEU:HB3	3:CD:87:VAL:CG2	2.44	0.48
3:CI:44:ARG:O	3:CI:63:LEU:HD12	2.13	0.48
3:CN:38:VAL:O	3:CN:40:ILE:N	2.47	0.48
3:CP:33:VAL:HG22	3:CP:44:ARG:HD3	1.95	0.48
3:5:56:ARG:HD3	3:5:92:ASP:OD1	2.14	0.48
3:A:92:ASP:N	3:A:92:ASP:OD1	2.47	0.48
3:B:68:VAL:HG11	3:B:79:PRO:HB2	1.95	0.48
3:D:32:VAL:CG2	3:D:45:PHE:HB3	2.43	0.48
3:Q:51:LYS:HD3	3:Q:57:TYR:CE2	2.49	0.48
3:W:9:LYS:NZ	3:W:15:PRO:HB3	2.29	0.48
3:W:57:TYR:O	3:W:92:ASP:HA	2.13	0.48
3:Y:44:ARG:O	3:Y:63:LEU:HD12	2.14	0.48
3:e:9:LYS:HD3	3:e:16:ASN:O	2.13	0.48
3:f:20:PHE:CD1	3:f:34:GLU:HB2	2.49	0.48
3:n:124:ILE:HG13	3:n:125:VAL:HG23	1.95	0.48
3:p:20:PHE:HB3	3:p:32:VAL:HB	1.96	0.48
3:z:52:THR:HG23	3:z:54:ASN:H	1.78	0.48
3:K:124:ILE:HG22	3:L:106:VAL:HG21	1.96	0.48
3:N:68:VAL:HG11	3:N:79:PRO:HB2	1.95	0.48
3:AO:23:ARG:HH21	3:AO:33:VAL:HG21	1.79	0.48
3:AS:66:PRO:CA	3:AS:84:THR:HG22	2.41	0.48
3:AX:49:LEU:HD12	3:AX:58:LYS:O	2.13	0.48
3:Ac:72:THR:OG1	3:Ac:77:VAL:HG22	2.14	0.48
3:Af:57:TYR:O	3:Af:92:ASP:HA	2.14	0.48
3:Ak:44:ARG:O	3:Ak:63:LEU:HD12	2.14	0.48
3:Av:67:VAL:O	3:Av:82:VAL:HG22	2.14	0.48
3:Az:41:GLY:HA3	3:Az:68:VAL:HG23	1.95	0.48
3:Az:98:THR:HG22	3:Az:100:LYS:H	1.79	0.48
3:A7:118:MET:SD	3:A7:118:MET:N	2.78	0.48
3:BF:40:ILE:HD12	3:BF:79:PRO:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BG:38:VAL:HG22	3:BI:97:SER:C	2.39	0.48
3:BL:113:LEU:HD23	3:BL:113:LEU:H	1.79	0.48
3:BN:23:ARG:NH2	3:BN:31:GLU:OE2	2.31	0.48
3:BP:64:VAL:HG12	3:BP:66:PRO:HD3	1.96	0.48
3:BS:8:LEU:CD1	3:CH:112:ALA:HA	2.43	0.48
3:BV:25:ILE:HG13	3:BV:30:GLY:CA	2.41	0.48
3:Bb:68:VAL:HG12	3:Bb:79:PRO:HB2	1.96	0.48
3:Bc:7:VAL:HG22	3:Bc:19:THR:HA	1.95	0.48
3:Bd:67:VAL:O	3:Bd:81:VAL:HG13	2.14	0.48
3:Bk:32:VAL:CG1	3:Bk:45:PHE:HB3	2.44	0.48
3:Bv:57:TYR:O	3:Bv:92:ASP:HA	2.14	0.48
3:Bx:28:ASN:O	3:Bx:48:SER:OG	2.29	0.48
3:Bz:68:VAL:CG1	3:Bz:79:PRO:HB2	2.44	0.48
3:B2:120:VAL:O	3:B2:124:ILE:HG12	2.13	0.48
3:B4:113:LEU:HA	3:B4:120:VAL:HG11	1.96	0.48
3:CA:93:TYR:HE2	3:CB:124:ILE:HD11	1.78	0.48
3:CK:20:PHE:HB3	3:CK:32:VAL:HG22	1.96	0.48
3:CL:33:VAL:HG13	3:CL:42:GLU:HB3	1.95	0.48
3:CL:47:ILE:CD1	3:CL:61:LEU:HG	2.43	0.48
3:CR:8:LEU:O	3:CR:17:ASP:HA	2.13	0.48
3:CS:90:ASP:HB2	3:CT:88:THR:OG1	2.13	0.48
3:5:37:GLY:O	3:B0:102:ARG:NH2	2.47	0.48
3:9:22:PRO:HA	3:9:32:VAL:HA	1.96	0.48
3:B:47:ILE:CD1	3:B:61:LEU:HG	2.44	0.48
3:O:58:LYS:HG2	3:O:92:ASP:CB	2.44	0.48
3:a:24:ASP:CG	3:d:129:GLY:HA3	2.38	0.48
3:e:37:GLY:HA2	3:g:99:THR:OG1	2.14	0.48
3:h:38:VAL:HG12	3:h:40:ILE:HG22	1.95	0.48
3:m:27:ASP:HA	3:BB:26:ARG:NH2	2.28	0.48
3:r:68:VAL:HG13	3:r:80:VAL:C	2.38	0.48
3:u:61:LEU:HB2	3:u:89:VAL:HG22	1.95	0.48
3:G:9:LYS:HA	3:G:16:ASN:O	2.14	0.48
3:G:117:LYS:HG2	3:H:6:LEU:HD11	1.96	0.48
3:J:30:GLY:O	3:J:47:ILE:N	2.38	0.48
3:J:68:VAL:HG13	3:J:80:VAL:C	2.38	0.48
3:K:119:LEU:HD12	3:L:4:GLN:HG3	1.96	0.48
3:L:23:ARG:NH2	3:L:33:VAL:HG21	2.29	0.48
3:AO:3:LEU:HD23	3:AO:3:LEU:H	1.79	0.48
3:AQ:31:GLU:CG	3:AQ:46:THR:HG22	2.39	0.48
3:AU:7:VAL:HA	3:AU:18:HIS:O	2.14	0.48
3:AV:23:ARG:O	3:Bz:128:GLN:NE2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ae:6:LEU:HB3	3:Ae:20:PHE:HB2	1.96	0.48
3:Ag:4:GLN:HE22	3:Ah:119:LEU:HB2	1.78	0.48
3:Aj:120:VAL:O	3:Aj:124:ILE:HG12	2.13	0.48
3:At:43:SER:HA	3:At:64:VAL:O	2.13	0.48
3:A1:61:LEU:HB2	3:A1:89:VAL:CG2	2.44	0.48
3:A2:68:VAL:HG11	3:A2:79:PRO:HB2	1.96	0.48
3:A9:32:VAL:CG1	3:A9:45:PHE:HB3	2.44	0.48
3:A0:68:VAL:CG2	3:A0:81:VAL:HG22	2.43	0.48
3:BA:38:VAL:HG22	3:BC:97:SER:O	2.14	0.48
3:BH:9:LYS:NZ	3:BH:15:PRO:HB2	2.28	0.48
3:BL:49:LEU:HD12	3:BL:58:LYS:O	2.14	0.48
3:BN:98:THR:O	3:BN:102:ARG:HG3	2.14	0.48
3:BO:57:TYR:CZ	3:BP:127:LEU:HD23	2.49	0.48
3:BO:71:GLN:O	3:BO:77:VAL:HA	2.14	0.48
3:BV:123:THR:HA	3:BV:128:GLN:H	1.78	0.48
3:Bd:6:LEU:O	3:Bd:20:PHE:N	2.38	0.48
3:Bg:3:LEU:HD22	3:Bg:25:ILE:HD11	1.95	0.48
3:Bi:31:GLU:HG2	3:Bi:45:PHE:O	2.14	0.48
3:Bm:71:GLN:O	3:Bm:77:VAL:HA	2.13	0.48
3:Bm:83:ARG:CD	3:Bn:97:SER:HA	2.44	0.48
3:Bu:98:THR:O	3:Bu:102:ARG:HG3	2.14	0.48
3:Bv:35:SER:HB2	3:Bv:42:GLU:HB3	1.96	0.48
3:B9:94:ASP:HB2	3:B0:83:ARG:CZ	2.44	0.48
3:CB:82:VAL:HG23	3:CB:83:ARG:HG2	1.96	0.48
3:CB:104:ASN:O	3:CB:108:MET:HG3	2.14	0.48
3:CC:10:ASP:HB3	3:CD:104:ASN:HD22	1.79	0.48
3:CC:127:LEU:HD13	3:CD:102:ARG:NH1	2.28	0.48
3:CD:44:ARG:O	3:CD:63:LEU:HA	2.13	0.48
3:CP:20:PHE:HD1	3:CP:34:GLU:HB2	1.79	0.48
3:0:24:ASP:HB2	3:4:28:ASN:ND2	2.29	0.47
3:0:51:LYS:HE2	3:0:57:TYR:CE1	2.48	0.47
3:9:40:ILE:HD11	3:CD:96:ARG:HG2	1.96	0.47
3:A:29:VAL:HA	3:A:48:SER:OG	2.14	0.47
3:C:52:THR:HG21	3:C:58:LYS:HE2	1.96	0.47
3:D:33:VAL:HG22	3:D:44:ARG:HA	1.95	0.47
3:O:119:LEU:O	3:O:119:LEU:HD23	2.14	0.47
3:W:23:ARG:HE	3:W:33:VAL:HG21	1.79	0.47
3:Z:23:ARG:NH2	3:Z:33:VAL:HG11	2.28	0.47
3:b:25:ILE:HD13	3:b:30:GLY:HA2	1.94	0.47
3:e:63:LEU:O	3:e:87:VAL:HG12	2.14	0.47
3:f:38:VAL:HG21	3:f:79:PRO:CG	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:41:GLY:HA3	3:h:68:VAL:CG2	2.43	0.47
3:i:63:LEU:O	3:i:87:VAL:HG12	2.13	0.47
3:t:98:THR:HA	3:BK:37:GLY:O	2.13	0.47
3:u:63:LEU:O	3:u:87:VAL:HG12	2.14	0.47
3:AA:44:ARG:O	3:AA:63:LEU:HA	2.14	0.47
3:AC:104:ASN:O	3:AC:108:MET:HG3	2.14	0.47
3:AD:22:PRO:CB	3:AD:32:VAL:HG12	2.44	0.47
3:Aa:50:ARG:NH2	3:Aa:60:THR:OG1	2.32	0.47
3:Aa:71:GLN:OE1	3:Aa:73:VAL:HG23	2.14	0.47
3:Af:52:THR:OG1	3:Af:53:SER:N	2.46	0.47
3:Ag:72:THR:HG22	3:Ag:75:GLY:H	1.79	0.47
3:Ai:49:LEU:HD12	3:Ai:58:LYS:O	2.14	0.47
3:Ak:45:PHE:CZ	3:Ak:47:ILE:HD11	2.49	0.47
3:Am:44:ARG:O	3:Am:63:LEU:HA	2.13	0.47
3:Am:106:VAL:HG12	3:An:113:LEU:HD12	1.96	0.47
3:An:37:GLY:HA2	3:CO:99:THR:OG1	2.13	0.47
3:Ao:23:ARG:HH21	3:Ao:33:VAL:HG21	1.78	0.47
3:Aq:83:ARG:HD3	3:Ar:96:ARG:HG3	1.96	0.47
3:At:20:PHE:HE1	3:At:43:SER:HB2	1.78	0.47
3:Au:99:THR:OG1	3:Au:102:ARG:NH2	2.47	0.47
3:Ay:61:LEU:HB2	3:Ay:89:VAL:HG22	1.96	0.47
3:A1:7:VAL:O	3:A1:8:LEU:HD13	2.14	0.47
3:A0:42:GLU:O	3:A0:66:PRO:HD2	2.14	0.47
3:BA:35:SER:CB	3:BA:42:GLU:HG2	2.43	0.47
3:BA:66:PRO:HB3	3:BA:84:THR:HG22	1.95	0.47
3:BH:61:LEU:CB	3:BH:89:VAL:HB	2.43	0.47
3:BI:69:GLN:NE2	3:BI:82:VAL:HG21	2.29	0.47
3:BM:38:VAL:HG12	3:BM:40:ILE:CG1	2.44	0.47
3:BR:52:THR:HG22	3:BR:56:ARG:O	2.13	0.47
3:BS:10:ASP:HB2	3:BS:12:GLU:OE1	2.14	0.47
3:Bu:9:LYS:HB3	3:Bv:111:ASP:HB3	1.96	0.47
3:B3:63:LEU:HB3	3:B3:87:VAL:CG1	2.44	0.47
3:B5:44:ARG:O	3:B5:63:LEU:HA	2.14	0.47
3:B9:9:LYS:HD3	3:B9:16:ASN:O	2.14	0.47
3:CA:121:HIS:O	3:CA:125:VAL:HB	2.14	0.47
3:CM:106:VAL:CG1	3:CN:113:LEU:HD12	2.44	0.47
3:0:37:GLY:HA2	3:4:99:THR:OG1	2.14	0.47
3:3:6:LEU:O	3:3:19:THR:HA	2.14	0.47
3:7:62:LYS:HD2	3:7:87:VAL:O	2.14	0.47
3:C:35:SER:HB2	3:C:42:GLU:CB	2.43	0.47
3:D:68:VAL:CG1	3:D:79:PRO:HB2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:57:TYR:O	3:O:92:ASP:HA	2.14	0.47
3:W:45:PHE:HA	3:W:62:LYS:O	2.15	0.47
3:c:4:GLN:HG3	3:d:119:LEU:HD12	1.95	0.47
3:c:38:VAL:HG12	3:c:40:ILE:HG13	1.96	0.47
3:i:128:GLN:CG	3:p:21:VAL:HG11	2.45	0.47
3:l:63:LEU:HB3	3:l:87:VAL:CG1	2.44	0.47
3:w:31:GLU:HA	3:w:45:PHE:O	2.13	0.47
3:w:32:VAL:CG2	3:w:45:PHE:HB3	2.44	0.47
3:z:122:ASP:HB3	3:z:128:GLN:HG3	1.97	0.47
3:z:128:GLN:HA	3:Az:23:ARG:NH1	2.29	0.47
3:J:20:PHE:HB3	3:J:32:VAL:CG1	2.44	0.47
3:K:82:VAL:HG23	3:K:83:ARG:HG2	1.96	0.47
3:AO:20:PHE:CD2	3:AO:34:GLU:HB2	2.49	0.47
3:AO:44:ARG:O	3:AO:63:LEU:HD12	2.14	0.47
3:AO:61:LEU:HB2	3:AO:89:VAL:CG2	2.44	0.47
3:AP:52:THR:HG22	3:AP:56:ARG:O	2.14	0.47
3:AU:9:LYS:HD2	3:AU:15:PRO:CB	2.45	0.47
3:AV:69:GLN:O	3:AV:79:PRO:HA	2.15	0.47
3:AY:8:LEU:HD23	3:AY:20:PHE:HE1	1.78	0.47
3:AY:97:SER:O	3:AY:102:ARG:NH1	2.47	0.47
3:AZ:68:VAL:HG13	3:AZ:80:VAL:C	2.40	0.47
3:AZ:69:GLN:O	3:AZ:79:PRO:HA	2.14	0.47
3:AZ:98:THR:O	3:AZ:102:ARG:HG3	2.13	0.47
3:Ac:3:LEU:HD21	3:Ad:130:VAL:HG23	1.95	0.47
3:Ag:114:LYS:HG2	3:Ag:116:ASP:H	1.78	0.47
3:Ah:29:VAL:HG22	3:Ah:48:SER:CB	2.45	0.47
3:Aj:38:VAL:HG22	3:Aj:40:ILE:HG12	1.94	0.47
3:Ak:25:ILE:O	3:B8:28:ASN:ND2	2.47	0.47
3:Ak:88:THR:HB	3:Al:90:ASP:CB	2.40	0.47
3:Am:24:ASP:CG	3:Bg:129:GLY:HA3	2.39	0.47
3:An:7:VAL:HA	3:An:18:HIS:O	2.14	0.47
3:An:20:PHE:HA	3:An:34:GLU:OE1	2.14	0.47
3:Ar:38:VAL:HG12	3:Ar:40:ILE:HG22	1.94	0.47
3:A1:37:GLY:O	3:A1:39:PRO:HD3	2.14	0.47
3:A1:44:ARG:NH2	3:A1:64:VAL:HG21	2.29	0.47
3:A4:39:PRO:HA	3:A4:42:GLU:OE2	2.14	0.47
3:A8:33:VAL:HG13	3:A8:42:GLU:HG3	1.96	0.47
3:BG:64:VAL:HG13	3:BG:86:TYR:HE1	1.79	0.47
3:BI:103:ASN:HA	3:BJ:125:VAL:HG13	1.96	0.47
3:BK:69:GLN:O	3:BK:80:VAL:N	2.47	0.47
3:Bd:38:VAL:HG12	3:Bd:40:ILE:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bi:86:TYR:HB2	3:Bj:92:ASP:OD2	2.15	0.47
3:Bu:121:HIS:O	3:Bu:125:VAL:HB	2.14	0.47
3:Bv:9:LYS:CE	3:Bv:15:PRO:HB2	2.44	0.47
3:Bz:68:VAL:HG13	3:Bz:80:VAL:C	2.39	0.47
3:B4:12:GLU:N	3:B4:12:GLU:OE1	2.47	0.47
3:B8:66:PRO:HA	3:B8:84:THR:HG23	1.96	0.47
3:B9:63:LEU:O	3:B9:87:VAL:HG12	2.13	0.47
3:B0:124:ILE:HG23	3:B0:125:VAL:HG23	1.96	0.47
3:CB:40:ILE:HG23	3:CB:68:VAL:HG21	1.95	0.47
3:CC:106:VAL:CG1	3:CD:113:LEU:HD12	2.44	0.47
3:CD:68:VAL:HG23	3:CD:80:VAL:C	2.39	0.47
3:CO:29:VAL:HA	3:CO:48:SER:OG	2.14	0.47
3:CQ:113:LEU:HD11	3:CR:106:VAL:CG2	2.45	0.47
3:CT:63:LEU:O	3:CT:87:VAL:HG22	2.14	0.47
3:0:7:VAL:HG13	3:0:17:ASP:HB2	1.96	0.47
3:1:14:THR:HG23	3:1:16:ASN:OD1	2.13	0.47
3:4:118:MET:SD	3:4:118:MET:N	2.75	0.47
3:Q:8:LEU:HD13	3:Q:20:PHE:HE1	1.77	0.47
3:Q:61:LEU:HB2	3:Q:89:VAL:CG2	2.44	0.47
3:Q:63:LEU:O	3:Q:87:VAL:HG12	2.13	0.47
3:V:69:GLN:OE1	3:V:82:VAL:HG21	2.14	0.47
3:W:37:GLY:O	3:Y:98:THR:HA	2.14	0.47
3:W:60:THR:HA	3:W:89:VAL:O	2.13	0.47
3:e:128:GLN:CG	3:l:21:VAL:HG11	2.45	0.47
3:g:8:LEU:HG	3:g:20:PHE:HE2	1.79	0.47
3:i:51:LYS:HD3	3:i:57:TYR:CE2	2.49	0.47
3:i:63:LEU:HB3	3:i:87:VAL:CG1	2.44	0.47
3:k:8:LEU:HD13	3:k:20:PHE:CE2	2.49	0.47
3:k:22:PRO:HA	3:k:32:VAL:HA	1.95	0.47
3:m:121:HIS:NE2	3:m:125:VAL:HG21	2.29	0.47
3:r:10:ASP:HB3	3:r:12:GLU:OE1	2.14	0.47
3:t:8:LEU:HD23	3:t:20:PHE:HE2	1.80	0.47
3:y:72:THR:HA	3:y:76:ILE:O	2.14	0.47
3:y:121:HIS:HA	3:y:124:ILE:HG22	1.96	0.47
3:H:3:LEU:HD12	3:H:22:PRO:HB2	1.96	0.47
3:I:57:TYR:O	3:I:92:ASP:HA	2.14	0.47
3:I:123:THR:HG23	3:J:49:LEU:HD22	1.96	0.47
3:AP:63:LEU:O	3:AP:87:VAL:HG22	2.13	0.47
3:AP:122:ASP:HA	3:AP:126:ASN:ND2	2.28	0.47
3:AQ:24:ASP:HB2	3:Bx:28:ASN:ND2	2.29	0.47
3:AT:67:VAL:O	3:AT:82:VAL:HG22	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AX:46:THR:OG1	3:AX:62:LYS:HB3	2.14	0.47
3:Af:7:VAL:HA	3:Af:18:HIS:O	2.14	0.47
3:Ah:29:VAL:HG13	3:Ah:48:SER:HB3	1.96	0.47
3:Aj:20:PHE:CD1	3:Aj:34:GLU:HB2	2.49	0.47
3:An:61:LEU:N	3:An:89:VAL:O	2.47	0.47
3:At:25:ILE:H	3:A2:131:TYR:HB3	1.79	0.47
3:Au:33:VAL:HB	3:Au:42:GLU:CG	2.45	0.47
3:Ay:121:HIS:O	3:Ay:125:VAL:HB	2.14	0.47
3:Az:122:ASP:HA	3:Az:126:ASN:HB2	1.95	0.47
3:A2:68:VAL:HG13	3:A2:80:VAL:C	2.39	0.47
3:A4:123:THR:HA	3:A4:128:GLN:H	1.79	0.47
3:A5:113:LEU:CD2	3:A6:110:ALA:HB2	2.44	0.47
3:A7:44:ARG:O	3:A7:63:LEU:HD12	2.14	0.47
3:A9:110:ALA:HB2	3:A0:113:LEU:HD11	1.96	0.47
3:BD:99:THR:HG1	3:Bu:37:GLY:HA2	1.80	0.47
3:BO:31:GLU:HA	3:BO:45:PHE:O	2.14	0.47
3:BP:29:VAL:HG22	3:BP:48:SER:CB	2.43	0.47
3:Bd:31:GLU:HG3	3:Bd:46:THR:HG22	1.96	0.47
3:Bh:6:LEU:O	3:Bh:19:THR:HA	2.13	0.47
3:Bk:62:LYS:HD2	3:Bk:87:VAL:O	2.15	0.47
3:B1:130:VAL:CG2	3:B2:3:LEU:HD12	2.44	0.47
3:B5:3:LEU:CD1	3:B6:119:LEU:HD21	2.44	0.47
3:B7:7:VAL:HG13	3:B7:17:ASP:HB2	1.96	0.47
3:B9:72:THR:HA	3:B9:76:ILE:O	2.14	0.47
3:B0:5:ASN:OD1	3:B0:21:VAL:HG12	2.15	0.47
3:B0:46:THR:HB	3:B0:62:LYS:HB2	1.97	0.47
3:B0:68:VAL:HG11	3:B0:79:PRO:HB2	1.95	0.47
3:CB:120:VAL:O	3:CB:124:ILE:HG22	2.15	0.47
3:B:73:VAL:HG11	3:B6:71:GLN:OE1	2.14	0.47
3:U:32:VAL:CG2	3:U:45:PHE:HB3	2.43	0.47
3:W:38:VAL:HG12	3:W:40:ILE:CG1	2.43	0.47
3:a:33:VAL:HG12	3:a:44:ARG:CA	2.43	0.47
3:c:4:GLN:CG	3:d:119:LEU:HD12	2.44	0.47
3:g:1:ALA:HB3	3:h:131:TYR:CE1	2.49	0.47
3:n:76:ILE:HG21	3:Bl:69:GLN:HB3	1.96	0.47
3:p:38:VAL:HG12	3:p:40:ILE:HG22	1.96	0.47
3:r:38:VAL:HG13	3:r:41:GLY:HA3	1.97	0.47
3:s:49:LEU:HD12	3:s:58:LYS:O	2.14	0.47
3:s:120:VAL:O	3:s:124:ILE:HG22	2.15	0.47
3:y:18:HIS:HB3	3:y:34:GLU:OE1	2.15	0.47
3:AC:14:THR:HG23	3:AC:16:ASN:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AP:122:ASP:O	3:AP:126:ASN:HB2	2.15	0.47
3:AU:113:LEU:HD13	3:AU:120:VAL:HG11	1.96	0.47
3:Ab:7:VAL:HG22	3:Ab:19:THR:HA	1.97	0.47
3:Al:23:ARG:NH2	3:Al:33:VAL:HG21	2.29	0.47
3:Al:71:GLN:HE21	3:Al:80:VAL:HG13	1.78	0.47
3:Ao:37:GLY:O	3:Aq:98:THR:HA	2.15	0.47
3:Ap:38:VAL:HG13	3:Ap:40:ILE:HG22	1.96	0.47
3:At:46:THR:HB	3:At:62:LYS:HB2	1.96	0.47
3:Au:96:ARG:HA	3:A8:38:VAL:HG21	1.97	0.47
3:A1:9:LYS:CE	3:A1:15:PRO:HB3	2.45	0.47
3:A3:90:ASP:HB3	3:A4:88:THR:OG1	2.12	0.47
3:BG:102:ARG:HH12	3:CT:39:PRO:HD3	1.79	0.47
3:BG:117:LYS:HD2	3:BH:6:LEU:HD11	1.96	0.47
3:BN:6:LEU:HB3	3:BN:20:PHE:HB2	1.97	0.47
3:BN:52:THR:HG21	3:BN:56:ARG:HB2	1.95	0.47
3:Bc:23:ARG:O	3:B3:129:GLY:HA3	2.14	0.47
3:Bg:64:VAL:HG12	3:Bg:66:PRO:HD3	1.95	0.47
3:Bj:40:ILE:HG22	3:Bj:68:VAL:CG2	2.42	0.47
3:Bk:1:ALA:O	3:Bl:130:VAL:HA	2.15	0.47
3:B7:7:VAL:HA	3:B7:18:HIS:O	2.14	0.47
3:B8:7:VAL:HG12	3:B8:19:THR:HA	1.96	0.47
3:B9:98:THR:O	3:B9:102:ARG:HG3	2.14	0.47
3:CA:127:LEU:HD13	3:CB:102:ARG:NH1	2.30	0.47
3:CL:52:THR:OG1	3:CL:53:SER:N	2.36	0.47
3:CS:63:LEU:HB3	3:CS:87:VAL:CG1	2.44	0.47
3:CT:71:GLN:HE22	3:CT:73:VAL:HG22	1.80	0.47
3:5:92:ASP:CB	3:6:86:TYR:HB2	2.42	0.47
3:5:131:TYR:CE2	3:CA:3:LEU:HD21	2.49	0.47
3:7:57:TYR:O	3:7:92:ASP:HA	2.14	0.47
3:9:7:VAL:HA	3:9:18:HIS:O	2.14	0.47
3:B:38:VAL:HG23	3:B5:97:SER:O	2.15	0.47
3:E:44:ARG:O	3:E:63:LEU:HD12	2.14	0.47
3:E:63:LEU:HB3	3:E:87:VAL:CG1	2.44	0.47
3:E:117:LYS:HD2	3:Bb:6:LEU:HD11	1.95	0.47
3:O:71:GLN:O	3:O:77:VAL:HA	2.14	0.47
3:Q:64:VAL:HA	3:Q:85:SER:O	2.15	0.47
3:X:68:VAL:HG11	3:X:79:PRO:HB2	1.97	0.47
3:a:23:ARG:HA	3:d:128:GLN:OE1	2.13	0.47
3:a:72:THR:HA	3:a:76:ILE:O	2.14	0.47
3:e:37:GLY:O	3:g:98:THR:HA	2.15	0.47
3:m:7:VAL:CG1	3:m:17:ASP:HB2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:u:46:THR:HB	3:u:62:LYS:HG2	1.96	0.47
3:G:51:LYS:HD3	3:G:57:TYR:CE2	2.49	0.47
3:AB:41:GLY:HA2	3:AB:66:PRO:HG2	1.96	0.47
3:AP:68:VAL:HG23	3:AP:80:VAL:C	2.39	0.47
3:AR:40:ILE:HD13	3:AR:68:VAL:HG13	1.97	0.47
3:AZ:66:PRO:HB3	3:AZ:84:THR:OG1	2.13	0.47
3:Ac:102:ARG:O	3:Ac:106:VAL:HG23	2.14	0.47
3:Ad:20:PHE:CD1	3:Ad:34:GLU:HB2	2.48	0.47
3:Aj:131:TYR:CD1	3:B8:24:ASP:HA	2.49	0.47
3:Am:91:PHE:HB3	3:Am:93:TYR:CE2	2.49	0.47
3:An:43:SER:HA	3:An:64:VAL:O	2.14	0.47
3:Ao:20:PHE:HB3	3:Ao:32:VAL:CG2	2.44	0.47
3:Ao:49:LEU:HD12	3:Ao:58:LYS:O	2.14	0.47
3:As:89:VAL:CG1	3:At:89:VAL:HG13	2.44	0.47
3:A3:32:VAL:CG1	3:A3:45:PHE:HB3	2.43	0.47
3:BD:25:ILE:HG12	3:BD:30:GLY:HA2	1.96	0.47
3:BI:3:LEU:HD11	3:BJ:130:VAL:CG1	2.44	0.47
3:BP:32:VAL:HG22	3:BP:45:PHE:HB3	1.96	0.47
3:BP:102:ARG:O	3:BP:106:VAL:HG23	2.14	0.47
3:BR:23:ARG:HG3	3:BR:24:ASP:OD1	2.14	0.47
3:Bc:23:ARG:NH2	3:Bc:33:VAL:HG21	2.28	0.47
3:Bh:29:VAL:HG22	3:Bh:48:SER:CB	2.39	0.47
3:Bx:72:THR:OG1	3:Bx:77:VAL:HG22	2.15	0.47
3:CD:72:THR:OG1	3:CD:77:VAL:HG22	2.15	0.47
3:CI:59:SER:O	3:CI:90:ASP:HA	2.14	0.47
3:CM:63:LEU:HD12	3:CN:109:ILE:HB	1.96	0.47
3:CN:3:LEU:HD22	3:CN:25:ILE:HD11	1.96	0.47
3:3:72:THR:OG1	3:3:77:VAL:HG22	2.15	0.47
3:4:99:THR:HA	3:4:102:ARG:HE	1.79	0.47
3:A:127:LEU:HD13	3:B:102:ARG:NH1	2.30	0.47
3:B:43:SER:HA	3:B:64:VAL:O	2.15	0.47
3:O:99:THR:OG1	3:O:102:ARG:NH2	2.47	0.47
3:R:122:ASP:HB3	3:R:128:GLN:CG	2.44	0.47
3:U:117:LYS:HD2	3:V:6:LEU:CD1	2.44	0.47
3:b:54:ASN:ND2	3:b:56:ARG:HG2	2.29	0.47
3:g:72:THR:HA	3:g:76:ILE:O	2.15	0.47
3:h:34:GLU:O	3:h:42:GLU:HB2	2.14	0.47
3:o:31:GLU:HB2	3:o:46:THR:HG22	1.95	0.47
3:J:96:ARG:HD3	3:BZ:78:THR:HG23	1.97	0.47
3:N:51:LYS:HE2	3:N:55:GLY:HA2	1.97	0.47
3:AA:97:SER:O	3:AP:39:PRO:HD2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AQ:29:VAL:HG22	3:AQ:48:SER:CB	2.42	0.47
3:AT:44:ARG:HG2	3:AT:64:VAL:HB	1.96	0.47
3:AW:63:LEU:HB3	3:AW:87:VAL:CG1	2.45	0.47
3:Ah:19:THR:O	3:Ah:34:GLU:HG3	2.15	0.47
3:Ah:33:VAL:HA	3:Ah:43:SER:O	2.15	0.47
3:Ah:56:ARG:NH1	3:Ah:92:ASP:OD2	2.47	0.47
3:Ai:7:VAL:HA	3:Ai:18:HIS:O	2.15	0.47
3:Ao:89:VAL:CG1	3:Ap:89:VAL:HG13	2.44	0.47
3:Ar:109:ILE:O	3:Ar:113:LEU:HG	2.15	0.47
3:A3:29:VAL:HA	3:A3:48:SER:OG	2.15	0.47
3:A3:63:LEU:O	3:A3:87:VAL:HG12	2.14	0.47
3:A3:71:GLN:O	3:A3:77:VAL:HA	2.14	0.47
3:A8:25:ILE:HA	3:A8:29:VAL:O	2.13	0.47
3:BD:44:ARG:NH2	3:BD:64:VAL:HG21	2.30	0.47
3:BF:9:LYS:NZ	3:BF:15:PRO:HB2	2.28	0.47
3:BH:68:VAL:HG11	3:BH:79:PRO:HB2	1.95	0.47
3:BO:112:ALA:HB2	3:BP:8:LEU:HD11	1.97	0.47
3:BZ:44:ARG:O	3:BZ:63:LEU:HA	2.15	0.47
3:Bc:64:VAL:HG12	3:Bc:66:PRO:HD3	1.97	0.47
3:Bd:29:VAL:HG22	3:Bd:48:SER:CB	2.44	0.47
3:By:6:LEU:HG	3:By:8:LEU:HD21	1.96	0.47
3:B5:64:VAL:HA	3:B5:85:SER:O	2.15	0.47
3:B6:120:VAL:O	3:B6:124:ILE:HG12	2.14	0.47
3:B7:7:VAL:CG1	3:B7:17:ASP:HB2	2.45	0.47
3:B7:44:ARG:O	3:B7:63:LEU:HA	2.15	0.47
3:B7:46:THR:O	3:B7:61:LEU:HA	2.15	0.47
3:B7:47:ILE:HA	3:B7:60:THR:O	2.15	0.47
3:CK:124:ILE:HB	3:CL:106:VAL:HG21	1.96	0.47
3:CN:32:VAL:HB	3:CN:45:PHE:HB3	1.95	0.47
3:CO:3:LEU:HD21	3:CP:130:VAL:HB	1.97	0.47
3:0:46:THR:OG1	3:0:62:LYS:HB3	2.15	0.47
3:3:44:ARG:O	3:3:63:LEU:HD12	2.15	0.47
3:4:98:THR:O	3:4:102:ARG:HG3	2.15	0.47
3:C:119:LEU:HD12	3:D:4:GLN:CG	2.45	0.47
3:D:3:LEU:HD12	3:D:25:ILE:CD1	2.44	0.47
3:P:96:ARG:CG	3:L:40:ILE:HD12	2.43	0.47
3:Q:93:TYR:CD1	3:Q:102:ARG:HG2	2.49	0.47
3:S:8:LEU:CD1	3:T:112:ALA:HA	2.44	0.47
3:S:89:VAL:HG12	3:T:89:VAL:HG22	1.95	0.47
3:V:20:PHE:HB3	3:V:32:VAL:HB	1.97	0.47
3:V:29:VAL:HG22	3:V:48:SER:CB	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:71:GLN:O	3:Y:77:VAL:HA	2.15	0.47
3:Z:12:GLU:N	3:Z:12:GLU:OE1	2.47	0.47
3:b:41:GLY:HA2	3:b:66:PRO:HG2	1.96	0.47
3:b:61:LEU:O	3:b:88:THR:HA	2.14	0.47
3:b:104:ASN:O	3:b:108:MET:HG3	2.14	0.47
3:e:44:ARG:O	3:e:63:LEU:HA	2.14	0.47
3:f:38:VAL:O	3:f:40:ILE:N	2.47	0.47
3:f:47:ILE:CD1	3:f:61:LEU:HG	2.44	0.47
3:f:76:ILE:HD11	3:Az:69:GLN:CG	2.42	0.47
3:g:4:GLN:HE22	3:h:119:LEU:HB2	1.79	0.47
3:g:10:ASP:HB2	3:g:12:GLU:OE1	2.15	0.47
3:g:104:ASN:O	3:g:108:MET:HG3	2.15	0.47
3:g:113:LEU:HB3	3:h:110:ALA:HB2	1.96	0.47
3:i:104:ASN:HD21	3:j:12:GLU:HG3	1.80	0.47
3:j:52:THR:HG22	3:j:56:ARG:O	2.15	0.47
3:l:98:THR:HA	3:Ay:37:GLY:O	2.15	0.47
3:o:1:ALA:HB2	3:p:128:GLN:HE21	1.80	0.47
3:q:27:ASP:HA	3:BH:26:ARG:NH1	2.26	0.47
3:q:45:PHE:CE1	3:q:63:LEU:HD12	2.50	0.47
3:r:68:VAL:CG2	3:r:81:VAL:HG22	2.43	0.47
3:u:49:LEU:HD13	3:u:59:SER:HB3	1.97	0.47
3:u:66:PRO:CA	3:u:84:THR:HG22	2.41	0.47
3:I:121:HIS:NE2	3:I:125:VAL:HG21	2.29	0.47
3:J:31:GLU:OE2	3:J:44:ARG:HG3	2.15	0.47
3:J:72:THR:OG1	3:J:77:VAL:HG22	2.15	0.47
3:M:37:GLY:O	3:M:39:PRO:HD3	2.14	0.47
3:AB:72:THR:HA	3:AB:76:ILE:O	2.15	0.47
3:AP:20:PHE:CD1	3:AP:34:GLU:HG2	2.49	0.47
3:AR:57:TYR:O	3:AR:92:ASP:HA	2.14	0.47
3:AT:120:VAL:O	3:AT:124:ILE:HG22	2.14	0.47
3:AU:7:VAL:O	3:AU:8:LEU:HD13	2.15	0.47
3:AU:66:PRO:CA	3:AU:84:THR:HG22	2.45	0.47
3:AV:122:ASP:O	3:AV:126:ASN:HB2	2.15	0.47
3:AV:128:GLN:OE1	3:Bl:23:ARG:HG3	2.14	0.47
3:AW:31:GLU:OE2	3:AW:44:ARG:HG3	2.15	0.47
3:AW:107:GLY:HA3	3:AX:11:ARG:HG3	1.97	0.47
3:AY:23:ARG:HA	3:Ab:128:GLN:OE1	2.15	0.47
3:Ab:24:ASP:HB2	3:Af:28:ASN:ND2	2.30	0.47
3:Ad:101:GLU:HG3	3:Ad:102:ARG:HD3	1.97	0.47
3:Ag:1:ALA:HB3	3:Ah:131:TYR:CE1	2.50	0.47
3:Ag:8:LEU:HD13	3:Ah:108:MET:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ag:11:ARG:HH22	3:Ah:106:VAL:HG13	1.79	0.47
3:Ag:46:THR:OG1	3:Ag:62:LYS:HB3	2.14	0.47
3:Ag:98:THR:CG2	3:Ag:101:GLU:HG3	2.45	0.47
3:Ah:44:ARG:O	3:Ah:63:LEU:HD12	2.14	0.47
3:Aj:102:ARG:O	3:Aj:106:VAL:HG23	2.15	0.47
3:Ak:11:ARG:HD2	3:Al:103:ASN:O	2.15	0.47
3:Am:111:ASP:CG	3:An:8:LEU:HD12	2.40	0.47
3:An:49:LEU:HD12	3:An:58:LYS:O	2.14	0.47
3:Ap:61:LEU:HB2	3:Ap:89:VAL:HB	1.96	0.47
3:Ap:123:THR:O	3:Ap:127:LEU:HA	2.15	0.47
3:Aq:49:LEU:HD12	3:Aq:58:LYS:O	2.15	0.47
3:Aq:71:GLN:O	3:Aq:77:VAL:HA	2.15	0.47
3:As:4:GLN:NE2	3:At:119:LEU:HD12	2.29	0.47
3:Aw:49:LEU:HD12	3:Aw:58:LYS:O	2.15	0.47
3:Ay:49:LEU:HD12	3:Ay:58:LYS:O	2.14	0.47
3:A1:7:VAL:O	3:A2:117:LYS:NZ	2.39	0.47
3:A1:45:PHE:HD1	3:A1:63:LEU:HD12	1.79	0.47
3:A6:32:VAL:CG2	3:A6:45:PHE:HB3	2.44	0.47
3:A7:6:LEU:O	3:A7:19:THR:HA	2.15	0.47
3:A7:21:VAL:O	3:A7:32:VAL:HG23	2.14	0.47
3:A7:68:VAL:CG1	3:A7:81:VAL:HG22	2.45	0.47
3:A7:125:VAL:CG2	3:A8:106:VAL:HG11	2.45	0.47
3:A8:68:VAL:HG11	3:A8:79:PRO:HB2	1.95	0.47
3:A0:28:ASN:ND2	3:BD:24:ASP:HB2	2.30	0.47
3:A0:63:LEU:O	3:A0:87:VAL:HG22	2.15	0.47
3:BC:62:LYS:HE3	3:BC:88:THR:OG1	2.15	0.47
3:BC:117:LYS:HB3	3:BC:120:VAL:HG12	1.96	0.47
3:BD:11:ARG:HH22	3:BD:114:LYS:HA	1.80	0.47
3:BE:4:GLN:NE2	3:BF:119:LEU:HB2	2.29	0.47
3:BF:10:ASP:HB2	3:BF:12:GLU:OE1	2.15	0.47
3:BI:44:ARG:O	3:BI:63:LEU:HD12	2.14	0.47
3:BJ:29:VAL:HG22	3:BJ:48:SER:CB	2.45	0.47
3:BM:7:VAL:HA	3:BM:18:HIS:O	2.15	0.47
3:BM:38:VAL:HG22	3:BO:97:SER:C	2.40	0.47
3:BN:47:ILE:CD1	3:BN:61:LEU:HG	2.44	0.47
3:BO:63:LEU:HB3	3:BO:87:VAL:CG1	2.45	0.47
3:BO:86:TYR:HB2	3:BP:92:ASP:OD2	2.15	0.47
3:BP:36:THR:OG1	3:BP:37:GLY:N	2.33	0.47
3:BQ:71:GLN:NE2	3:BQ:78:THR:O	2.46	0.47
3:BV:45:PHE:HA	3:BV:62:LYS:O	2.14	0.47
3:BV:120:VAL:O	3:BV:124:ILE:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bb:69:GLN:HB3	3:B4:76:ILE:HD11	1.97	0.47
3:Bc:4:GLN:HE22	3:Bd:119:LEU:HB2	1.78	0.47
3:Bg:12:GLU:OE1	3:Bg:12:GLU:N	2.48	0.47
3:Bi:47:ILE:HA	3:Bi:60:THR:O	2.15	0.47
3:Bm:33:VAL:HA	3:Bm:43:SER:O	2.15	0.47
3:Bm:99:THR:OG1	3:Bm:102:ARG:NH2	2.48	0.47
3:Bn:68:VAL:HG13	3:Bn:80:VAL:C	2.39	0.47
3:Bv:3:LEU:HG	3:Bv:22:PRO:HB3	1.96	0.47
3:By:121:HIS:O	3:By:125:VAL:HB	2.15	0.47
3:B2:34:GLU:O	3:B2:42:GLU:HG3	2.14	0.47
3:B3:8:LEU:HB3	3:B4:108:MET:HE1	1.96	0.47
3:B4:6:LEU:O	3:B4:20:PHE:N	2.38	0.47
3:B4:68:VAL:CG2	3:B4:79:PRO:HB2	2.45	0.47
3:B5:7:VAL:HG13	3:B5:17:ASP:HB2	1.97	0.47
3:B5:48:SER:HB3	3:B5:60:THR:HG23	1.96	0.47
3:B9:45:PHE:HA	3:B9:62:LYS:O	2.15	0.47
3:B9:119:LEU:O	3:B9:119:LEU:HD23	2.15	0.47
3:CB:41:GLY:HA2	3:CB:66:PRO:HG2	1.97	0.47
3:CC:38:VAL:HG12	3:CC:40:ILE:CG1	2.44	0.47
3:CD:31:GLU:HA	3:CD:45:PHE:O	2.14	0.47
3:CD:49:LEU:HD12	3:CD:58:LYS:O	2.13	0.47
3:CH:46:THR:HB	3:CH:62:LYS:HD2	1.96	0.47
3:CI:63:LEU:O	3:CI:87:VAL:HG12	2.14	0.47
3:CP:98:THR:O	3:CP:102:ARG:HG3	2.15	0.47
3:CQ:49:LEU:HD21	3:CR:123:THR:CG2	2.44	0.47
3:0:64:VAL:HG12	3:0:66:PRO:HD3	1.96	0.47
3:4:129:GLY:HA3	3:B0:24:ASP:HB3	1.97	0.47
3:A:37:GLY:O	3:A:39:PRO:HD3	2.15	0.47
3:C:98:THR:HA	3:M:37:GLY:O	2.15	0.47
3:O:94:ASP:OD1	3:O:95:ALA:N	2.47	0.47
3:S:46:THR:O	3:S:61:LEU:HA	2.15	0.47
3:S:62:LYS:HG2	3:S:88:THR:OG1	2.15	0.47
3:Y:11:ARG:NH2	3:Y:114:LYS:HG3	2.30	0.47
3:e:31:GLU:HB3	3:e:46:THR:HA	1.97	0.47
3:i:57:TYR:O	3:i:92:ASP:HA	2.15	0.47
3:m:27:ASP:HA	3:BB:26:ARG:HH22	1.80	0.47
3:o:23:ARG:HA	3:BA:129:GLY:HA3	1.97	0.47
3:v:121:HIS:CE1	3:v:125:VAL:HG21	2.49	0.47
3:x:51:LYS:HD3	3:x:57:TYR:CE1	2.50	0.47
3:y:7:VAL:HA	3:y:18:HIS:O	2.14	0.47
3:G:56:ARG:HD3	3:G:92:ASP:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:7:VAL:HA	3:H:18:HIS:O	2.15	0.47
3:I:49:LEU:HD12	3:I:58:LYS:O	2.15	0.47
3:I:97:SER:O	3:I:102:ARG:NH1	2.48	0.47
3:AD:69:GLN:O	3:AD:79:PRO:HA	2.15	0.47
3:AO:31:GLU:HG2	3:AO:45:PHE:O	2.14	0.47
3:AQ:23:ARG:HG2	3:AQ:24:ASP:OD2	2.15	0.47
3:AQ:25:ILE:O	3:Bx:28:ASN:ND2	2.31	0.47
3:AS:10:ASP:CB	3:AS:16:ASN:HB2	2.44	0.47
3:AU:32:VAL:CG1	3:AU:45:PHE:HB3	2.44	0.47
3:Ab:98:THR:HG21	3:Ab:100:LYS:HZ3	1.79	0.47
3:Ai:48:SER:N	3:Ai:60:THR:O	2.47	0.47
3:Ai:61:LEU:O	3:Ai:88:THR:HG23	2.14	0.47
3:Al:37:GLY:HA2	3:Ap:99:THR:OG1	2.15	0.47
3:Ao:21:VAL:C	3:Ao:32:VAL:HG23	2.40	0.47
3:Aw:82:VAL:HG23	3:Aw:83:ARG:HG2	1.97	0.47
3:Az:7:VAL:HA	3:Az:18:HIS:O	2.15	0.47
3:A3:18:HIS:HB3	3:A3:34:GLU:OE1	2.15	0.47
3:A6:7:VAL:HA	3:A6:18:HIS:O	2.15	0.47
3:BA:50:ARG:NH2	3:BA:58:LYS:HD2	2.29	0.47
3:BE:61:LEU:HB2	3:BE:89:VAL:CG2	2.45	0.47
3:BG:117:LYS:HD2	3:BH:6:LEU:CD1	2.44	0.47
3:BI:117:LYS:HE2	3:BJ:8:LEU:HD23	1.96	0.47
3:BJ:82:VAL:HG23	3:BJ:83:ARG:HG2	1.97	0.47
3:BK:44:ARG:O	3:BK:63:LEU:HD12	2.14	0.47
3:BM:1:ALA:O	3:BN:130:VAL:HA	2.15	0.47
3:BM:90:ASP:HB3	3:BN:88:THR:OG1	2.14	0.47
3:BV:82:VAL:HG23	3:BV:83:ARG:HG2	1.97	0.47
3:BZ:30:GLY:O	3:BZ:46:THR:HA	2.15	0.47
3:Bb:129:GLY:HA3	3:B4:24:ASP:OD2	2.14	0.47
3:Bc:68:VAL:CG1	3:Bc:79:PRO:HB2	2.45	0.47
3:Bj:7:VAL:HA	3:Bj:18:HIS:O	2.15	0.47
3:Bl:20:PHE:HB3	3:Bl:32:VAL:CG1	2.45	0.47
3:Bl:68:VAL:HG13	3:Bl:80:VAL:C	2.40	0.47
3:Bm:83:ARG:NE	3:Bn:97:SER:HA	2.30	0.47
3:Bn:120:VAL:O	3:Bn:124:ILE:HG22	2.14	0.47
3:Bu:36:THR:OG1	3:Bu:37:GLY:N	2.36	0.47
3:Bv:49:LEU:HD12	3:Bv:58:LYS:O	2.15	0.47
3:Bx:72:THR:HA	3:Bx:76:ILE:O	2.14	0.47
3:B1:66:PRO:CA	3:B1:84:THR:HG22	2.45	0.47
3:B7:71:GLN:O	3:B7:77:VAL:HA	2.15	0.47
3:B8:33:VAL:HG13	3:B8:42:GLU:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:59:SER:OG	3:CH:91:PHE:HB2	2.14	0.47
3:4:20:PHE:HD1	3:4:34:GLU:HB2	1.80	0.47
3:5:45:PHE:HA	3:5:62:LYS:O	2.15	0.47
3:D:82:VAL:HG23	3:D:83:ARG:HG2	1.97	0.47
3:O:4:GLN:NE2	3:P:119:LEU:HD12	2.29	0.47
3:W:90:ASP:HB2	3:X:88:THR:OG1	2.15	0.47
3:Z:44:ARG:O	3:Z:63:LEU:HD12	2.15	0.47
3:p:28:ASN:OD1	3:BE:26:ARG:NH1	2.48	0.47
3:q:7:VAL:HG11	3:q:17:ASP:HB2	1.96	0.47
3:q:25:ILE:HA	3:q:29:VAL:O	2.15	0.47
3:t:44:ARG:O	3:t:63:LEU:HD12	2.14	0.47
3:x:69:GLN:NE2	3:x:82:VAL:HG21	2.29	0.47
3:K:97:SER:OG	3:K:102:ARG:NH1	2.48	0.47
3:L:38:VAL:HG12	3:L:40:ILE:HG22	1.97	0.47
3:AD:93:TYR:CD1	3:AD:102:ARG:HG2	2.50	0.47
3:AP:54:ASN:ND2	3:AP:56:ARG:HG2	2.30	0.47
3:AV:20:PHE:CD1	3:AV:34:GLU:HB2	2.50	0.47
3:AW:23:ARG:CZ	3:AW:33:VAL:HG21	2.45	0.47
3:Ai:46:THR:H	3:Ai:62:LYS:HB2	1.79	0.47
3:Aj:47:ILE:CD1	3:Aj:61:LEU:HG	2.45	0.47
3:Ak:67:VAL:O	3:Ak:81:VAL:HG13	2.14	0.47
3:Ak:124:ILE:HG13	3:Al:106:VAL:HG21	1.96	0.47
3:An:20:PHE:HB3	3:An:32:VAL:CG1	2.42	0.47
3:Ap:52:THR:HG22	3:Ap:56:ARG:O	2.14	0.47
3:Ar:97:SER:O	3:CO:38:VAL:HA	2.15	0.47
3:Au:58:LYS:HB3	3:Au:92:ASP:HB3	1.96	0.47
3:Ay:21:VAL:C	3:Ay:32:VAL:HG23	2.39	0.47
3:A1:61:LEU:O	3:A1:88:THR:HA	2.15	0.47
3:A2:51:LYS:HE3	3:A2:57:TYR:CE1	2.50	0.47
3:A6:33:VAL:CG1	3:A6:42:GLU:HG3	2.44	0.47
3:A7:66:PRO:CA	3:A7:84:THR:HG22	2.43	0.47
3:A9:63:LEU:O	3:A9:87:VAL:HG12	2.15	0.47
3:BB:60:THR:HG23	3:BB:90:ASP:OD1	2.15	0.47
3:BB:70:SER:HB2	3:BB:77:VAL:CG1	2.44	0.47
3:BK:30:GLY:HA3	3:BK:47:ILE:HG23	1.95	0.47
3:BV:102:ARG:NH1	3:CI:127:LEU:HD13	2.29	0.47
3:Bh:33:VAL:HA	3:Bh:43:SER:O	2.15	0.47
3:Bj:8:LEU:HD13	3:Bj:20:PHE:CE2	2.50	0.47
3:Bk:45:PHE:HA	3:Bk:62:LYS:O	2.14	0.47
3:Bl:32:VAL:O	3:Bl:44:ARG:HA	2.15	0.47
3:Bz:118:MET:HB2	3:Bz:122:ASP:OD2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B1:63:LEU:HB3	3:B1:87:VAL:CG1	2.45	0.47
3:B8:122:ASP:HB3	3:B8:128:GLN:HG3	1.95	0.47
3:B0:59:SER:OG	3:B0:91:PHE:HB2	2.14	0.47
3:CD:58:LYS:HG2	3:CD:92:ASP:HB3	1.96	0.47
3:CQ:10:ASP:HB3	3:CQ:16:ASN:HB2	1.97	0.47
3:CT:122:ASP:HB2	3:CT:128:GLN:CG	2.44	0.47
3:7:117:LYS:HD2	3:8:6:LEU:CD1	2.44	0.47
3:8:7:VAL:HG12	3:8:19:THR:HA	1.97	0.47
3:9:3:LEU:HD23	3:9:3:LEU:H	1.79	0.47
3:C:121:HIS:NE2	3:C:125:VAL:HG21	2.30	0.47
3:O:6:LEU:HB3	3:O:20:PHE:HB2	1.97	0.47
3:S:66:PRO:CA	3:S:84:THR:HG22	2.43	0.47
3:T:82:VAL:HG23	3:T:83:ARG:HG2	1.96	0.47
3:T:98:THR:O	3:T:102:ARG:HG3	2.15	0.47
3:W:48:SER:HB3	3:W:60:THR:H	1.79	0.47
3:Y:45:PHE:HA	3:Y:62:LYS:O	2.15	0.47
3:Y:118:MET:SD	3:Y:118:MET:N	2.86	0.47
3:g:44:ARG:O	3:g:63:LEU:HD12	2.14	0.47
3:h:49:LEU:HD12	3:h:58:LYS:O	2.15	0.47
3:k:99:THR:OG1	3:k:102:ARG:NH2	2.47	0.47
3:l:25:ILE:HG13	3:l:30:GLY:HA2	1.97	0.47
3:x:5:ASN:ND2	3:x:19:THR:HG23	2.29	0.47
3:y:118:MET:SD	3:z:4:GLN:NE2	2.88	0.47
3:H:69:GLN:NE2	3:H:82:VAL:HG21	2.30	0.47
3:I:96:ARG:HA	3:Aj:38:VAL:HG21	1.96	0.47
3:M:33:VAL:HB	3:M:42:GLU:CB	2.40	0.47
3:AB:76:ILE:HG21	3:CB:69:GLN:HG3	1.95	0.47
3:AC:7:VAL:HB	3:AD:117:LYS:NZ	2.31	0.47
3:AR:24:ASP:HB2	3:AV:28:ASN:CG	2.40	0.47
3:AS:32:VAL:HG13	3:AS:45:PHE:HB3	1.97	0.47
3:AU:7:VAL:CG1	3:AU:17:ASP:HB2	2.44	0.47
3:Ac:118:MET:SD	3:Ac:118:MET:N	2.77	0.47
3:Ao:125:VAL:HG22	3:Ap:106:VAL:HG21	1.97	0.47
3:As:102:ARG:O	3:As:106:VAL:HG23	2.15	0.47
3:Aw:131:TYR:CE1	3:Ax:1:ALA:HB3	2.50	0.47
3:A1:7:VAL:HG13	3:A1:17:ASP:OD1	2.14	0.47
3:A1:121:HIS:NE2	3:A1:125:VAL:HG21	2.30	0.47
3:A6:93:TYR:CD1	3:A6:102:ARG:HG2	2.50	0.47
3:A8:114:LYS:O	3:A8:121:HIS:HB2	2.15	0.47
3:BB:72:THR:HA	3:BB:77:VAL:HG22	1.96	0.47
3:BF:57:TYR:O	3:BF:92:ASP:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:24:ASP:HB2	3:CT:28:ASN:ND2	2.30	0.47
3:BI:72:THR:HA	3:BI:76:ILE:O	2.15	0.47
3:BM:102:ARG:HD2	3:BN:127:LEU:HD11	1.96	0.47
3:BP:35:SER:HB2	3:BP:42:GLU:CB	2.41	0.47
3:BS:117:LYS:HD2	3:CH:6:LEU:CD1	2.45	0.47
3:Bc:128:GLN:HG3	3:B5:23:ARG:HA	1.97	0.47
3:Bh:8:LEU:HD23	3:Bh:20:PHE:CE2	2.49	0.47
3:Bw:49:LEU:HD12	3:Bw:58:LYS:O	2.15	0.47
3:Bx:23:ARG:HG2	3:Bx:33:VAL:H	1.79	0.47
3:By:37:GLY:O	3:By:39:PRO:HD3	2.15	0.47
3:Bz:38:VAL:HG22	3:Bz:40:ILE:H	1.80	0.47
3:Bz:38:VAL:HG22	3:Bz:40:ILE:HG22	1.96	0.47
3:Bz:122:ASP:O	3:Bz:128:GLN:N	2.30	0.47
3:B1:8:LEU:CD1	3:B2:112:ALA:HA	2.44	0.47
3:B2:32:VAL:O	3:B2:44:ARG:HA	2.14	0.47
3:B8:70:SER:HB2	3:B8:77:VAL:HG11	1.97	0.47
3:B9:94:ASP:HB2	3:B0:83:ARG:NH2	2.29	0.47
3:B0:7:VAL:HA	3:B0:18:HIS:O	2.14	0.47
3:B0:52:THR:HG22	3:B0:56:ARG:O	2.14	0.47
3:CD:98:THR:O	3:CD:102:ARG:HG3	2.15	0.47
3:CP:52:THR:HG21	3:CP:56:ARG:HB2	1.96	0.47
3:CQ:111:ASP:OD2	3:CR:9:LYS:N	2.33	0.47
3:CT:32:VAL:CG1	3:CT:45:PHE:HB3	2.45	0.47
3:0:44:ARG:O	3:0:63:LEU:HD12	2.15	0.46
3:5:6:LEU:CD1	3:6:117:LYS:HG2	2.45	0.46
3:6:44:ARG:O	3:6:63:LEU:HD12	2.14	0.46
3:C:8:LEU:HD13	3:D:108:MET:O	2.15	0.46
3:C:130:VAL:HG12	3:D:25:ILE:HD11	1.97	0.46
3:P:97:SER:HB3	3:P:102:ARG:HD3	1.97	0.46
3:P:129:GLY:HA3	3:A4:24:ASP:OD2	2.15	0.46
3:X:69:GLN:O	3:X:79:PRO:HA	2.14	0.46
3:Y:33:VAL:HG13	3:Y:42:GLU:OE1	2.14	0.46
3:c:121:HIS:NE2	3:c:125:VAL:HG21	2.30	0.46
3:f:12:GLU:OE2	3:f:15:PRO:HA	2.13	0.46
3:h:99:THR:OG1	3:Bk:37:GLY:HA2	2.15	0.46
3:i:97:SER:O	3:Av:38:VAL:HG23	2.16	0.46
3:n:63:LEU:O	3:n:87:VAL:HG22	2.16	0.46
3:t:63:LEU:HB3	3:t:87:VAL:CG1	2.44	0.46
3:u:37:GLY:O	3:w:98:THR:HA	2.14	0.46
3:z:119:LEU:O	3:z:119:LEU:HD23	2.14	0.46
3:I:111:ASP:CB	3:J:8:LEU:HD12	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:63:LEU:HB3	3:K:87:VAL:CG1	2.45	0.46
3:M:62:LYS:NZ	3:M:88:THR:OG1	2.42	0.46
3:AA:106:VAL:CG1	3:AB:113:LEU:HD12	2.45	0.46
3:AB:76:ILE:HG21	3:CB:69:GLN:CG	2.45	0.46
3:AQ:38:VAL:HG12	3:AQ:40:ILE:HG22	1.97	0.46
3:AV:5:ASN:OD1	3:AV:21:VAL:HG12	2.15	0.46
3:AY:66:PRO:CA	3:AY:84:THR:HG22	2.42	0.46
3:AY:122:ASP:HA	3:AY:126:ASN:OD1	2.15	0.46
3:Ac:4:GLN:NE2	3:Ad:118:MET:SD	2.87	0.46
3:Ac:90:ASP:HB2	3:Ad:88:THR:OG1	2.15	0.46
3:Ai:61:LEU:HB2	3:Ai:89:VAL:CG2	2.45	0.46
3:Aj:113:LEU:HA	3:Aj:120:VAL:HG11	1.97	0.46
3:Al:29:VAL:HG22	3:Al:48:SER:CB	2.46	0.46
3:Al:104:ASN:O	3:Al:108:MET:HG3	2.15	0.46
3:Am:1:ALA:HB3	3:An:131:TYR:CE1	2.49	0.46
3:Am:57:TYR:O	3:Am:92:ASP:HA	2.15	0.46
3:Ao:33:VAL:CG1	3:Ao:44:ARG:HG2	2.46	0.46
3:Ap:24:ASP:HB3	3:B0:129:GLY:HA3	1.96	0.46
3:Ap:33:VAL:CG2	3:Ap:42:GLU:HB3	2.46	0.46
3:Ax:12:GLU:N	3:Ax:12:GLU:OE1	2.49	0.46
3:A3:3:LEU:HB3	3:A3:22:PRO:HG3	1.97	0.46
3:A3:37:GLY:O	3:A5:98:THR:HA	2.15	0.46
3:A3:44:ARG:NH2	3:A3:64:VAL:HG21	2.30	0.46
3:A0:32:VAL:O	3:A0:44:ARG:HA	2.15	0.46
3:BB:8:LEU:HD13	3:BB:20:PHE:CE2	2.50	0.46
3:BB:59:SER:OG	3:BB:91:PHE:HB2	2.15	0.46
3:BH:33:VAL:HA	3:BH:43:SER:O	2.15	0.46
3:BP:25:ILE:HG13	3:BP:29:VAL:O	2.15	0.46
3:BR:25:ILE:HG13	3:BR:30:GLY:CA	2.44	0.46
3:BY:38:VAL:HG12	3:BY:40:ILE:HG22	1.97	0.46
3:BY:51:LYS:HZ1	3:BY:55:GLY:HA2	1.79	0.46
3:BY:69:GLN:NE2	3:BY:82:VAL:HG21	2.30	0.46
3:BZ:23:ARG:NH2	3:BZ:33:VAL:HG21	2.29	0.46
3:Bb:98:THR:HG22	3:Bb:100:LYS:H	1.80	0.46
3:Bg:124:ILE:HD11	3:Bh:61:LEU:HD21	1.97	0.46
3:Bj:102:ARG:O	3:Bj:106:VAL:HG23	2.15	0.46
3:Bm:25:ILE:HG13	3:Bm:30:GLY:CA	2.45	0.46
3:Bm:104:ASN:HB3	3:Bn:10:ASP:OD2	2.15	0.46
3:Bn:123:THR:O	3:Bn:127:LEU:HA	2.15	0.46
3:Bu:38:VAL:HG12	3:Bu:40:ILE:CG1	2.43	0.46
3:B4:98:THR:O	3:B4:102:ARG:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B5:72:THR:HA	3:B5:76:ILE:O	2.16	0.46
3:B9:89:VAL:CG1	3:B0:89:VAL:HG13	2.39	0.46
3:CN:44:ARG:O	3:CN:63:LEU:HA	2.16	0.46
3:CN:62:LYS:HD2	3:CN:87:VAL:O	2.15	0.46
3:CS:20:PHE:CD2	3:CS:34:GLU:HB2	2.50	0.46
3:4:63:LEU:O	3:4:87:VAL:HG22	2.15	0.46
3:A:44:ARG:O	3:A:63:LEU:HA	2.16	0.46
3:P:7:VAL:HG12	3:P:19:THR:HA	1.96	0.46
3:P:25:ILE:HD13	3:P:30:GLY:HA2	1.96	0.46
3:R:68:VAL:HG11	3:R:79:PRO:HB2	1.97	0.46
3:S:37:GLY:O	3:S:39:PRO:HD3	2.15	0.46
3:V:102:ARG:O	3:V:106:VAL:HG23	2.15	0.46
3:e:25:ILE:HG22	3:e:30:GLY:CA	2.41	0.46
3:e:33:VAL:CG1	3:e:44:ARG:HG2	2.45	0.46
3:i:9:LYS:N	3:j:111:ASP:OD2	2.47	0.46
3:i:66:PRO:HB3	3:i:84:THR:HG22	1.97	0.46
3:o:127:LEU:HD22	3:BE:39:PRO:HG2	1.97	0.46
3:r:120:VAL:O	3:r:124:ILE:HG22	2.15	0.46
3:z:63:LEU:HB3	3:z:87:VAL:HG21	1.97	0.46
3:M:96:ARG:HG3	3:BF:40:ILE:CD1	2.45	0.46
3:Aa:44:ARG:O	3:Aa:63:LEU:HD12	2.16	0.46
3:Ab:72:THR:OG1	3:Ab:77:VAL:HG22	2.15	0.46
3:Ad:38:VAL:HG23	3:CQ:97:SER:O	2.15	0.46
3:Ae:6:LEU:HG	3:Ae:8:LEU:CD2	2.46	0.46
3:Ah:47:ILE:HA	3:Ah:60:THR:O	2.15	0.46
3:Ah:99:THR:OG1	3:CQ:37:GLY:HA2	2.15	0.46
3:Ak:99:THR:OG1	3:Ak:102:ARG:NH2	2.48	0.46
3:An:67:VAL:O	3:An:82:VAL:HG22	2.15	0.46
3:Ao:63:LEU:O	3:Ao:87:VAL:HG12	2.15	0.46
3:As:21:VAL:C	3:As:32:VAL:HG23	2.40	0.46
3:Av:34:GLU:O	3:Av:42:GLU:HB2	2.15	0.46
3:Aw:23:ARG:HH21	3:Aw:33:VAL:HG11	1.79	0.46
3:Ay:49:LEU:HD13	3:Ay:59:SER:HB3	1.96	0.46
3:Ay:90:ASP:HB2	3:Az:88:THR:OG1	2.14	0.46
3:Az:61:LEU:HD23	3:Az:89:VAL:CB	2.43	0.46
3:A7:71:GLN:NE2	3:A7:78:THR:O	2.48	0.46
3:BA:97:SER:O	3:Bz:38:VAL:HG23	2.14	0.46
3:BG:47:ILE:HA	3:BG:60:THR:O	2.15	0.46
3:BN:68:VAL:HG13	3:BN:79:PRO:HB3	1.97	0.46
3:BO:29:VAL:HA	3:BO:48:SER:HB3	1.97	0.46
3:BV:92:ASP:OD2	3:CI:86:TYR:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BV:97:SER:HA	3:CI:83:ARG:NE	2.30	0.46
3:Bg:117:LYS:HE2	3:Bh:8:LEU:CD1	2.45	0.46
3:Bk:44:ARG:HH21	3:Bk:64:VAL:HG21	1.79	0.46
3:Bm:18:HIS:HB3	3:Bm:34:GLU:OE1	2.15	0.46
3:Bz:33:VAL:HG22	3:Bz:44:ARG:CA	2.43	0.46
3:B8:23:ARG:HB2	3:B8:33:VAL:CG2	2.45	0.46
3:CA:9:LYS:N	3:CB:111:ASP:OD2	2.48	0.46
3:CA:44:ARG:O	3:CA:63:LEU:HA	2.15	0.46
3:CH:25:ILE:HG23	3:CH:29:VAL:O	2.15	0.46
3:CM:67:VAL:O	3:CM:82:VAL:HG22	2.15	0.46
3:CP:25:ILE:HG13	3:CP:30:GLY:HA2	1.97	0.46
3:CQ:52:THR:HB	3:CQ:54:ASN:OD1	2.15	0.46
3:CR:52:THR:HG22	3:CR:56:ARG:O	2.15	0.46
3:3:63:LEU:O	3:3:87:VAL:HG12	2.15	0.46
3:3:124:ILE:HG23	3:3:125:VAL:HG23	1.98	0.46
3:9:21:VAL:HG11	3:CC:128:GLN:CD	2.41	0.46
3:C:22:PRO:HA	3:C:32:VAL:HA	1.97	0.46
3:U:123:THR:HG21	3:V:47:ILE:HD11	1.97	0.46
3:c:25:ILE:HG23	3:c:29:VAL:C	2.40	0.46
3:e:104:ASN:HB3	3:f:10:ASP:HB3	1.97	0.46
3:g:32:VAL:CG2	3:g:45:PHE:HB3	2.45	0.46
3:g:128:GLN:OE1	3:Bk:23:ARG:HA	2.15	0.46
3:m:83:ARG:NH1	3:n:97:SER:HA	2.31	0.46
3:p:63:LEU:HB3	3:p:87:VAL:CG1	2.46	0.46
3:q:124:ILE:HG23	3:q:125:VAL:HG23	1.97	0.46
3:w:12:GLU:OE1	3:w:12:GLU:N	2.48	0.46
3:x:7:VAL:CG1	3:x:17:ASP:HB2	2.45	0.46
3:G:83:ARG:NH2	3:H:101:GLU:OE2	2.36	0.46
3:J:28:ASN:ND2	3:BZ:24:ASP:HB2	2.30	0.46
3:AA:121:HIS:NE2	3:AA:125:VAL:HG21	2.30	0.46
3:AC:1:ALA:HB2	3:AD:122:ASP:OD2	2.15	0.46
3:AD:7:VAL:HG13	3:AD:17:ASP:HB2	1.96	0.46
3:AR:32:VAL:HG22	3:AR:45:PHE:HB3	1.96	0.46
3:AU:23:ARG:HG3	3:AU:24:ASP:OD1	2.15	0.46
3:AW:63:LEU:HB3	3:AW:87:VAL:HG11	1.97	0.46
3:Ab:20:PHE:HB3	3:Ab:32:VAL:HB	1.97	0.46
3:Ae:21:VAL:O	3:Ae:32:VAL:HG23	2.14	0.46
3:Ag:29:VAL:HG22	3:Ag:48:SER:CB	2.44	0.46
3:Ai:8:LEU:HD23	3:Ai:20:PHE:CE1	2.50	0.46
3:Ai:121:HIS:HA	3:Ai:124:ILE:HG22	1.96	0.46
3:Aj:122:ASP:HB2	3:Aj:128:GLN:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Al:25:ILE:HG23	3:Al:29:VAL:N	2.30	0.46
3:Al:72:THR:HA	3:Al:76:ILE:O	2.15	0.46
3:An:66:PRO:HB3	3:An:84:THR:OG1	2.16	0.46
3:As:25:ILE:HD13	3:As:30:GLY:HA2	1.96	0.46
3:A1:6:LEU:HB3	3:A1:20:PHE:HB2	1.96	0.46
3:A1:121:HIS:CE1	3:A1:125:VAL:HG21	2.50	0.46
3:A4:104:ASN:O	3:A4:108:MET:HG3	2.14	0.46
3:A5:24:ASP:HB2	3:B6:28:ASN:ND2	2.29	0.46
3:A5:44:ARG:NH2	3:A5:64:VAL:HG21	2.31	0.46
3:A8:69:GLN:O	3:A8:79:PRO:HA	2.15	0.46
3:A9:63:LEU:HB3	3:A9:87:VAL:CG1	2.46	0.46
3:A0:39:PRO:HA	3:A0:42:GLU:OE2	2.15	0.46
3:A0:68:VAL:HG13	3:A0:80:VAL:C	2.40	0.46
3:BA:44:ARG:O	3:BA:63:LEU:HD12	2.16	0.46
3:BA:49:LEU:HD23	3:BA:59:SER:HB3	1.97	0.46
3:BJ:5:ASN:HA	3:BJ:22:PRO:HD3	1.97	0.46
3:BK:66:PRO:CA	3:BK:84:THR:HG22	2.43	0.46
3:BV:72:THR:OG1	3:BV:77:VAL:HG22	2.16	0.46
3:Bl:68:VAL:CG2	3:Bl:81:VAL:HG22	2.45	0.46
3:Bn:68:VAL:HG22	3:Bn:81:VAL:HG22	1.97	0.46
3:Bu:90:ASP:HB2	3:Bv:88:THR:OG1	2.15	0.46
3:Bx:122:ASP:HA	3:Bx:126:ASN:HB2	1.97	0.46
3:B6:38:VAL:O	3:B6:40:ILE:N	2.48	0.46
3:B7:10:ASP:HB3	3:B7:16:ASN:HB2	1.97	0.46
3:B9:119:LEU:HD11	3:B0:3:LEU:HD12	1.98	0.46
3:CB:20:PHE:HB3	3:CB:32:VAL:HG11	1.97	0.46
3:CL:44:ARG:HH11	3:CL:64:VAL:HB	1.79	0.46
3:CN:33:VAL:HG13	3:CN:42:GLU:HB3	1.97	0.46
3:CP:38:VAL:O	3:CP:40:ILE:N	2.48	0.46
3:CQ:127:LEU:HD21	3:CR:57:TYR:CG	2.49	0.46
3:0:62:LYS:HD2	3:0:87:VAL:O	2.15	0.46
3:0:72:THR:OG1	3:0:77:VAL:HG22	2.15	0.46
3:3:102:ARG:O	3:3:106:VAL:HG23	2.15	0.46
3:E:32:VAL:CG1	3:E:45:PHE:HB3	2.45	0.46
3:Q:117:LYS:HD2	3:R:6:LEU:CD1	2.45	0.46
3:Q:121:HIS:CE1	3:Q:125:VAL:HG21	2.50	0.46
3:W:6:LEU:HG	3:W:8:LEU:CD2	2.44	0.46
3:b:69:GLN:O	3:b:79:PRO:HA	2.16	0.46
3:f:22:PRO:HA	3:f:32:VAL:HA	1.97	0.46
3:q:71:GLN:O	3:q:77:VAL:HA	2.15	0.46
3:u:104:ASN:HD22	3:v:11:ARG:HB2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:63:LEU:HB3	3:H:87:VAL:CG1	2.45	0.46
3:M:7:VAL:HG13	3:M:17:ASP:HB2	1.97	0.46
3:N:31:GLU:HG3	3:N:33:VAL:HG23	1.96	0.46
3:AT:33:VAL:CG1	3:AT:42:GLU:HG3	2.44	0.46
3:AY:38:VAL:CG2	3:Aa:98:THR:HB	2.45	0.46
3:Aa:2:GLN:HA	3:Ab:131:TYR:OXT	2.15	0.46
3:Ab:14:THR:HG23	3:Ab:16:ASN:OD1	2.16	0.46
3:Ab:25:ILE:HG12	3:Ab:30:GLY:HA2	1.98	0.46
3:Ae:8:LEU:CD1	3:Af:112:ALA:HA	2.45	0.46
3:Ai:46:THR:O	3:Ai:62:LYS:N	2.48	0.46
3:Aj:49:LEU:HD12	3:Aj:58:LYS:O	2.15	0.46
3:Ak:21:VAL:HG11	3:B7:128:GLN:OE1	2.14	0.46
3:An:40:ILE:HG22	3:An:68:VAL:HG22	1.98	0.46
3:Aw:119:LEU:HB2	3:Ax:4:GLN:NE2	2.30	0.46
3:A9:8:LEU:HD13	3:A9:20:PHE:CE1	2.50	0.46
3:BA:63:LEU:HD21	3:BB:108:MET:HE3	1.96	0.46
3:BA:90[A]:ASP:HB2	3:BB:88:THR:OG1	2.14	0.46
3:BE:63:LEU:O	3:BE:87:VAL:HG12	2.16	0.46
3:BH:12:GLU:OE2	3:BH:15:PRO:HA	2.16	0.46
3:BI:51:LYS:HD3	3:BI:57:TYR:CE1	2.50	0.46
3:BK:117:LYS:HD2	3:BL:6:LEU:CD1	2.46	0.46
3:BP:23:ARG:CZ	3:BP:33:VAL:HG21	2.45	0.46
3:BR:12:GLU:OE1	3:BR:13:ALA:N	2.48	0.46
3:BS:34:GLU:O	3:BS:42:GLU:HA	2.16	0.46
3:Bg:72:THR:HA	3:Bg:76:ILE:O	2.15	0.46
3:Bi:10:ASP:HB2	3:Bi:12:GLU:OE1	2.16	0.46
3:Bi:44:ARG:O	3:Bi:63:LEU:HA	2.15	0.46
3:Bj:77:VAL:HG12	3:Bj:79:PRO:HD3	1.97	0.46
3:Bk:123:THR:O	3:Bk:127:LEU:HA	2.16	0.46
3:Bu:63:LEU:O	3:Bu:87:VAL:HG12	2.15	0.46
3:Bv:31:GLU:OE2	3:Bv:44:ARG:HB3	2.14	0.46
3:Bw:55:GLY:O	3:Bw:95:ALA:HB2	2.14	0.46
3:Bx:29:VAL:HA	3:Bx:48:SER:CB	2.44	0.46
3:By:62:LYS:HA	3:By:87:VAL:O	2.15	0.46
3:B1:119:LEU:HD12	3:B2:4:GLN:OE1	2.15	0.46
3:B4:33:VAL:CG1	3:B4:42:GLU:HG2	2.45	0.46
3:B0:59:SER:O	3:B0:90:ASP:HA	2.15	0.46
3:CC:11:ARG:H	3:CD:104:ASN:HD22	1.62	0.46
3:CK:25:ILE:HG13	3:CK:30:GLY:CA	2.43	0.46
3:CN:67:VAL:O	3:CN:82:VAL:HG22	2.15	0.46
3:CN:98:THR:HG22	3:CN:100:LYS:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CQ:44:ARG:O	3:CQ:63:LEU:HD12	2.16	0.46
3:CS:121:HIS:NE2	3:CS:125:VAL:HG21	2.31	0.46
3:CS:123:THR:O	3:CS:127:LEU:HA	2.16	0.46
1:F:201:HIS:CE1	3:CM:37:GLY:HA3	2.50	0.46
3:0:122:ASP:C	3:0:126:ASN:HB2	2.40	0.46
3:1:71:GLN:O	3:1:77:VAL:HA	2.14	0.46
3:4:68:VAL:HG11	3:4:79:PRO:HB2	1.97	0.46
3:6:98:THR:HA	3:CA:37:GLY:O	2.16	0.46
3:8:20:PHE:HA	3:8:34:GLU:OE1	2.16	0.46
3:E:127:LEU:HD13	3:Bb:102:ARG:NH1	2.31	0.46
3:O:106:VAL:HG12	3:P:113:LEU:HD12	1.97	0.46
3:R:23:ARG:HD2	3:R:33:VAL:CG2	2.45	0.46
3:S:36:THR:HG23	3:S:38:VAL:H	1.81	0.46
3:T:68:VAL:HG11	3:T:79:PRO:HB2	1.96	0.46
3:a:130:VAL:CG2	3:b:3:LEU:HD11	2.45	0.46
3:i:123:THR:O	3:i:127:LEU:HG	2.16	0.46
3:k:31:GLU:HA	3:k:45:PHE:O	2.16	0.46
3:l:122:ASP:HB2	3:l:128:GLN:HG3	1.97	0.46
3:w:23:ARG:NH2	3:w:33:VAL:HG11	2.31	0.46
3:w:61:LEU:N	3:w:89:VAL:O	2.43	0.46
3:L:112:ALA:O	3:L:120:VAL:HG11	2.15	0.46
3:N:63:LEU:O	3:N:87:VAL:HG22	2.16	0.46
3:AB:10:ASP:HB2	3:AB:15:PRO:HA	1.97	0.46
3:AS:8:LEU:HD23	3:AS:20:PHE:HE2	1.80	0.46
3:AU:29:VAL:HA	3:AU:48:SER:OG	2.16	0.46
3:AV:39:PRO:HA	3:AV:42:GLU:OE2	2.15	0.46
3:Ad:43:SER:HA	3:Ad:64:VAL:O	2.16	0.46
3:Ad:73:VAL:HG11	3:CR:71:GLN:HE22	1.81	0.46
3:Ae:3:LEU:HD11	3:Af:130:VAL:CG2	2.46	0.46
3:Af:8:LEU:HD13	3:Af:20:PHE:CE2	2.50	0.46
3:Aj:38:VAL:O	3:Aj:40:ILE:N	2.49	0.46
3:Aj:129:GLY:HA3	3:B8:24:ASP:OD2	2.15	0.46
3:Ak:121:HIS:HA	3:Ak:124:ILE:HG22	1.97	0.46
3:Am:71:GLN:NE2	3:Am:78:THR:O	2.48	0.46
3:Ap:33:VAL:HG22	3:Ap:42:GLU:HB3	1.96	0.46
3:Ar:31:GLU:CB	3:Ar:46:THR:HG22	2.46	0.46
3:As:9:LYS:NZ	3:As:16:ASN:O	2.48	0.46
3:Av:69:GLN:NE2	3:A8:76:ILE:HG21	2.31	0.46
3:Ay:104:ASN:ND2	3:Az:11:ARG:O	2.49	0.46
3:A4:43:SER:HA	3:A4:64:VAL:O	2.16	0.46
3:A6:102:ARG:O	3:A6:106:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A8:118:MET:SD	3:A8:118:MET:N	2.76	0.46
3:BD:104:ASN:O	3:BD:108:MET:HG3	2.15	0.46
3:BG:25:ILE:HG13	3:BG:29:VAL:C	2.41	0.46
3:BO:23:ARG:NH2	3:BO:33:VAL:HG21	2.31	0.46
3:BZ:32:VAL:CG2	3:BZ:45:PHE:HB3	2.46	0.46
3:BZ:68:VAL:HG13	3:BZ:80:VAL:O	2.16	0.46
3:Bi:37:GLY:O	3:Bi:39:PRO:HD3	2.15	0.46
3:Bl:52:THR:OG1	3:Bl:53:SER:N	2.43	0.46
3:Bv:70:SER:HB2	3:Bv:77:VAL:CG1	2.44	0.46
3:B3:112:ALA:HB1	3:B3:120:VAL:HG21	1.97	0.46
3:B5:8:LEU:O	3:B5:17:ASP:HA	2.15	0.46
3:B8:63:LEU:O	3:B8:87:VAL:HG12	2.16	0.46
3:B9:58:LYS:CB	3:B9:92:ASP:HB3	2.45	0.46
3:CB:117:LYS:O	3:CB:121:HIS:HB3	2.15	0.46
3:CC:119:LEU:HD12	3:CD:4:GLN:CD	2.40	0.46
3:CK:121:HIS:HA	3:CK:124:ILE:HG12	1.97	0.46
3:CM:30:GLY:O	3:CM:46:THR:HA	2.16	0.46
3:CO:8:LEU:CD1	3:CP:112:ALA:HA	2.46	0.46
3:CS:21:VAL:N	3:CS:33:VAL:O	2.48	0.46
3:CS:71:GLN:OE1	3:CS:73:VAL:HG23	2.15	0.46
2:AE:585:G:N2	2:AE:666:U:OP1	2.46	0.46
3:0:86:TYR:H	3:9:92:ASP:HB3	1.81	0.46
3:1:76:ILE:CD1	3:Ay:71:GLN:HB3	2.45	0.46
3:3:44:ARG:O	3:3:63:LEU:HA	2.16	0.46
3:6:4:GLN:O	3:6:22:PRO:HD3	2.15	0.46
3:8:44:ARG:CG	3:8:64:VAL:HB	2.46	0.46
3:A:76:ILE:HD11	3:BZ:71:GLN:HB3	1.96	0.46
3:O:33:VAL:HB	3:O:42:GLU:HB3	1.97	0.46
3:Q:115:ALA:HA	3:Q:121:HIS:CD2	2.50	0.46
3:V:52:THR:CG2	3:V:58:LYS:HE2	2.46	0.46
3:W:64:VAL:HA	3:W:85:SER:O	2.16	0.46
3:b:32:VAL:HB	3:b:45:PHE:HB3	1.97	0.46
3:b:33:VAL:CG1	3:b:42:GLU:HG3	2.45	0.46
3:c:7:VAL:HA	3:c:18:HIS:O	2.14	0.46
3:m:72:THR:HA	3:m:76:ILE:O	2.14	0.46
3:p:32:VAL:CG2	3:p:45:PHE:HB3	2.44	0.46
3:t:30:GLY:O	3:t:46:THR:HA	2.15	0.46
3:u:37:GLY:O	3:u:39:PRO:HD3	2.16	0.46
3:G:29:VAL:HG22	3:G:48:SER:CB	2.45	0.46
3:J:28:ASN:CG	3:BZ:24:ASP:HB2	2.40	0.46
3:J:123:THR:O	3:J:127:LEU:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:61:LEU:HB2	3:M:89:VAL:CG2	2.45	0.46
3:AA:115:ALA:HA	3:AA:121:HIS:CD2	2.51	0.46
3:AD:61:LEU:HB2	3:AD:89:VAL:HB	1.96	0.46
3:AO:11:ARG:NH1	3:AO:114:LYS:O	2.38	0.46
3:AP:116:ASP:OD1	3:AP:117:LYS:HD2	2.16	0.46
3:AV:66:PRO:HB3	3:AV:84:THR:OG1	2.16	0.46
3:AV:98:THR:CG2	3:AV:100:LYS:HG2	2.45	0.46
3:AY:6:LEU:O	3:AY:19:THR:HA	2.16	0.46
3:Ab:20:PHE:HE2	3:Ab:43:SER:HB2	1.81	0.46
3:Ab:49:LEU:HD12	3:Ab:58:LYS:O	2.16	0.46
3:Ai:32:VAL:HG13	3:Ai:45:PHE:HB3	1.98	0.46
3:Ao:123:THR:CG2	3:Ap:49:LEU:HD12	2.45	0.46
3:Ap:97:SER:HB2	3:Ap:102:ARG:HH11	1.80	0.46
3:As:46:THR:O	3:As:61:LEU:HA	2.15	0.46
3:As:117:LYS:HD2	3:At:6:LEU:CD1	2.43	0.46
3:A2:46:THR:OG1	3:A2:62:LYS:HB3	2.16	0.46
3:A5:122:ASP:OD2	3:A6:1:ALA:HB2	2.15	0.46
3:A6:32:VAL:O	3:A6:44:ARG:HA	2.15	0.46
3:A9:3:LEU:CD2	3:A9:25:ILE:HD11	2.46	0.46
3:A0:40:ILE:CG2	3:A0:68:VAL:HG21	2.40	0.46
3:BD:7:VAL:HA	3:BD:18:HIS:O	2.16	0.46
3:BI:114:LYS:HB3	3:BI:116:ASP:OD1	2.16	0.46
3:BK:63:LEU:HB3	3:BK:87:VAL:CG1	2.45	0.46
3:BO:8:LEU:CD2	3:BP:112:ALA:HB2	2.46	0.46
3:BO:64:VAL:HG12	3:BO:66:PRO:HD3	1.97	0.46
3:BQ:112:ALA:HA	3:BQ:117:LYS:NZ	2.29	0.46
3:BR:68:VAL:HG11	3:BR:79:PRO:HB2	1.97	0.46
3:BS:44:ARG:O	3:BS:63:LEU:HA	2.15	0.46
3:BS:86:TYR:HB2	3:CH:92:ASP:OD2	2.16	0.46
3:BV:39:PRO:HA	3:BV:42:GLU:OE2	2.15	0.46
3:Bg:51:LYS:HD3	3:Bg:57:TYR:CD1	2.50	0.46
3:Bj:64:VAL:HG12	3:Bj:66:PRO:HD3	1.98	0.46
3:Bm:31:GLU:HA	3:Bm:45:PHE:O	2.16	0.46
3:Bx:92:ASP:N	3:Bx:92:ASP:OD1	2.48	0.46
3:Bz:42:GLU:OE1	3:Bz:42:GLU:N	2.49	0.46
3:Bz:59:SER:OG	3:Bz:91:PHE:HB2	2.15	0.46
3:B5:43:SER:HA	3:B5:64:VAL:O	2.16	0.46
3:CS:89:VAL:HG12	3:CT:89:VAL:HG13	1.98	0.46
3:CT:34:GLU:O	3:CT:42:GLU:HA	2.15	0.46
3:1:130:VAL:HG12	3:2:25:ILE:HD12	1.97	0.46
3:4:39:PRO:HG2	3:CK:95:ALA:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6:72:THR:OG1	3:6:77:VAL:HG22	2.15	0.46
3:7:37:GLY:O	3:9:98:THR:HA	2.16	0.46
3:7:122:ASP:O	3:7:126:ASN:HB2	2.15	0.46
3:9:31:GLU:HA	3:9:45:PHE:O	2.15	0.46
3:O:106:VAL:CG1	3:P:113:LEU:HD12	2.46	0.46
3:P:44:ARG:O	3:P:63:LEU:HD12	2.16	0.46
3:Q:8:LEU:HD13	3:Q:20:PHE:CE1	2.50	0.46
3:S:124:ILE:HG23	3:S:125:VAL:HG23	1.98	0.46
3:T:62:LYS:HD2	3:T:87:VAL:O	2.15	0.46
3:U:25:ILE:O	3:Bv:28:ASN:ND2	2.31	0.46
3:Y:130:VAL:HG13	3:Z:3:LEU:HD11	1.98	0.46
3:d:33:VAL:CG1	3:d:42:GLU:HG3	2.45	0.46
3:e:47:ILE:HA	3:e:60:THR:O	2.15	0.46
3:g:56:ARG:NE	3:g:92:ASP:OD1	2.48	0.46
3:h:69:GLN:NE2	3:h:82:VAL:HG21	2.31	0.46
3:j:76:ILE:HD11	3:BF:69:GLN:CG	2.46	0.46
3:o:8:LEU:CD2	3:p:117:LYS:HE2	2.44	0.46
3:o:23:ARG:NH2	3:o:33:VAL:HG21	2.30	0.46
3:s:31:GLU:HA	3:s:45:PHE:O	2.16	0.46
3:w:120:VAL:HG22	3:w:124:ILE:HG12	1.97	0.46
3:y:123:THR:O	3:y:127:LEU:HG	2.16	0.46
3:H:25:ILE:HG22	3:H:30:GLY:CA	2.44	0.46
3:K:24:ASP:HB2	3:BV:28:ASN:CG	2.40	0.46
3:M:34:GLU:HB3	3:M:43:SER:HB2	1.98	0.46
3:M:72:THR:HA	3:M:76:ILE:O	2.15	0.46
3:AA:72:THR:HA	3:AA:76:ILE:O	2.16	0.46
3:AC:49:LEU:HD12	3:AC:58:LYS:O	2.16	0.46
3:AO:44:ARG:O	3:AO:63:LEU:HA	2.16	0.46
3:AT:20:PHE:CD1	3:AT:34:GLU:HB2	2.51	0.46
3:AY:4:GLN:NE2	3:AZ:119:LEU:HD12	2.31	0.46
3:Ab:104:ASN:O	3:Ab:108:MET:HG3	2.16	0.46
3:An:12:GLU:OE2	3:An:15:PRO:HA	2.16	0.46
3:Ap:7:VAL:HG12	3:Ap:19:THR:CA	2.41	0.46
3:At:23:ARG:CD	3:At:33:VAL:HG21	2.45	0.46
3:A1:62:LYS:HA	3:A1:87:VAL:O	2.15	0.46
3:A4:8:LEU:HG	3:A4:20:PHE:HE2	1.80	0.46
3:A6:23:ARG:HE	3:A6:33:VAL:HG21	1.80	0.46
3:BC:23:ARG:NH2	3:BC:33:VAL:HG11	2.30	0.46
3:BE:102:ARG:O	3:BE:106:VAL:HG23	2.16	0.46
3:BF:44:ARG:O	3:BF:63:LEU:HA	2.14	0.46
3:BG:63:LEU:HB3	3:BG:87:VAL:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:72:THR:HA	3:BJ:76:ILE:O	2.16	0.46
3:BK:129:GLY:O	3:BL:1:ALA:N	2.38	0.46
3:BL:20:PHE:HD1	3:BL:34:GLU:HB2	1.80	0.46
3:BL:73:VAL:O	3:BL:76:ILE:HG12	2.16	0.46
3:BQ:29:VAL:HA	3:BQ:48:SER:OG	2.16	0.46
3:BQ:32:VAL:HG13	3:BQ:45:PHE:HB3	1.98	0.46
3:BV:99:THR:HA	3:BV:102:ARG:HE	1.79	0.46
3:BZ:8:LEU:HD23	3:BZ:20:PHE:CE2	2.50	0.46
3:Bc:29:VAL:HG13	3:Bc:47:ILE:O	2.15	0.46
3:Bd:51:LYS:HD3	3:Bd:57:TYR:CE1	2.50	0.46
3:Bv:12:GLU:OE2	3:Bv:15:PRO:HA	2.16	0.46
3:Bx:71:GLN:HE22	3:Bx:73:VAL:HG22	1.80	0.46
3:Bz:25:ILE:HG13	3:Bz:30:GLY:CA	2.43	0.46
3:B3:44:ARG:NH2	3:B3:64:VAL:HG21	2.30	0.46
3:B4:39:PRO:HA	3:B4:42:GLU:OE2	2.16	0.46
3:B5:102:ARG:HD2	3:B6:127:LEU:HD11	1.98	0.46
3:B5:103:ASN:OD1	3:B6:11:ARG:NH1	2.48	0.46
3:CB:52:THR:HG21	3:CB:56:ARG:HB2	1.96	0.46
3:CC:92:ASP:N	3:CC:92:ASP:OD1	2.48	0.46
3:CK:62:LYS:HG2	3:CK:88:THR:OG1	2.16	0.46
3:CL:71:GLN:O	3:CL:77:VAL:HG23	2.16	0.46
3:CO:71:GLN:OE1	3:CO:73:VAL:HG23	2.16	0.46
3:CQ:124:ILE:HG23	3:CQ:125:VAL:HG23	1.98	0.46
3:5:40:ILE:CD1	3:B0:96:ARG:HG2	2.46	0.46
3:8:39:PRO:HA	3:8:42:GLU:OE2	2.16	0.46
3:A:91:PHE:CD1	3:B:87:VAL:HG12	2.50	0.46
3:B:26:ARG:NH2	3:B5:27:ASP:HA	2.31	0.46
3:B:57:TYR:O	3:B:92:ASP:HA	2.16	0.46
3:B:68:VAL:CG2	3:B:81:VAL:HG22	2.46	0.46
3:O:96:ARG:CZ	3:A4:79:PRO:HD2	2.45	0.46
3:Z:35:SER:HB2	3:Z:42:GLU:CB	2.42	0.46
3:c:20:PHE:HE1	3:c:43:SER:HB2	1.80	0.46
3:g:3:LEU:HG	3:h:119:LEU:HD11	1.97	0.46
3:g:21:VAL:CG1	3:Bi:128:GLN:HB2	2.46	0.46
3:g:104:ASN:HD21	3:h:12:GLU:HB3	1.80	0.46
3:I:63:LEU:HB3	3:I:87:VAL:CG1	2.46	0.46
3:N:48:SER:OG	3:N:60:THR:HB	2.16	0.46
3:AA:94:ASP:OD2	3:AB:83:ARG:HB2	2.16	0.46
3:AO:9:LYS:N	3:AP:111:ASP:OD2	2.49	0.46
3:AP:23:ARG:HD3	3:AP:33:VAL:HG21	1.97	0.46
3:AS:21:VAL:C	3:AS:32:VAL:HG23	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AV:23:ARG:HA	3:Bz:128:GLN:HE22	1.80	0.46
3:Af:129:GLY:HA3	3:CP:24:ASP:OD2	2.16	0.46
3:Am:7:VAL:HA	3:Am:18:HIS:O	2.15	0.46
3:An:38:VAL:HG11	3:An:79:PRO:CG	2.46	0.46
3:As:64:VAL:HA	3:As:85:SER:O	2.16	0.46
3:A1:6:LEU:O	3:A1:19:THR:HA	2.16	0.46
3:A1:12:GLU:OE2	3:A2:104:ASN:ND2	2.46	0.46
3:A3:20:PHE:CD1	3:A3:34:GLU:HB2	2.51	0.46
3:A6:98:THR:HA	3:B1:37:GLY:O	2.15	0.46
3:A6:114:LYS:HG2	3:A6:116:ASP:H	1.81	0.46
3:A0:8:LEU:HD13	3:A0:20:PHE:CE2	2.51	0.46
3:BE:29:VAL:HA	3:BE:48:SER:OG	2.16	0.46
3:BG:83:ARG:HD2	3:BH:97:SER:OG	2.16	0.46
3:BJ:24:ASP:HB2	3:BN:28:ASN:CG	2.41	0.46
3:BL:46:THR:HB	3:BL:62:LYS:CB	2.45	0.46
3:BM:23:ARG:NH2	3:BM:33:VAL:HG21	2.31	0.46
3:BM:29:VAL:HA	3:BM:48:SER:OG	2.15	0.46
3:BR:44:ARG:HG2	3:BR:64:VAL:HB	1.98	0.46
3:BV:31:GLU:HA	3:BV:45:PHE:O	2.16	0.46
3:Bb:49:LEU:HD12	3:Bb:58:LYS:O	2.16	0.46
3:Bg:130:VAL:HG12	3:Bh:25:ILE:HD13	1.98	0.46
3:Bk:37:GLY:O	3:Bk:39:PRO:HD3	2.16	0.46
3:Bl:71:GLN:HE22	3:Bl:73:VAL:HG22	1.80	0.46
3:Bu:62:LYS:HD2	3:Bu:87:VAL:O	2.16	0.46
3:By:20:PHE:HB3	3:By:32:VAL:CG2	2.46	0.46
3:By:93:TYR:CD1	3:By:102:ARG:HG2	2.50	0.46
3:CL:92:ASP:OD1	3:CL:92:ASP:N	2.48	0.46
3:CM:20:PHE:CD1	3:CM:34:GLU:HB2	2.51	0.46
3:0:129:GLY:HA3	3:7:24:ASP:CB	2.46	0.46
3:2:63:LEU:O	3:2:87:VAL:HG12	2.16	0.46
3:6:99:THR:OG1	3:CA:37:GLY:HA2	2.15	0.46
3:C:72:THR:HG23	3:C:76:ILE:C	2.40	0.46
3:P:23:ARG:HA	3:BR:128:GLN:HE22	1.80	0.46
3:S:63:LEU:HB3	3:S:87:VAL:CG1	2.45	0.46
3:V:121:HIS:NE2	3:V:125:VAL:HG21	2.31	0.46
3:j:21:VAL:C	3:j:32:VAL:HG13	2.41	0.46
3:j:69:GLN:HE21	3:Av:76:ILE:HG21	1.81	0.46
3:j:96:ARG:CG	3:p:40:ILE:HD12	2.44	0.46
3:k:11:ARG:NH2	3:k:113:LEU:O	2.49	0.46
3:l:25:ILE:HG23	3:l:29:VAL:H	1.81	0.46
3:l:120:VAL:HG22	3:l:124:ILE:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:u:91:PHE:CD1	3:v:87:VAL:HG12	2.50	0.46
3:w:51:LYS:HD3	3:w:57:TYR:CE1	2.51	0.46
3:I:37:GLY:O	3:I:39:PRO:HD3	2.16	0.46
3:L:9:LYS:HA	3:L:16:ASN:O	2.14	0.46
3:M:7:VAL:HA	3:M:18:HIS:O	2.16	0.46
3:M:89:VAL:CG1	3:N:89:VAL:HG13	2.44	0.46
3:AR:7:VAL:HA	3:AR:18:HIS:O	2.16	0.46
3:AS:38:VAL:HG12	3:AS:40:ILE:CG1	2.43	0.46
3:AU:130:VAL:HG11	3:AV:47:ILE:HG22	1.98	0.46
3:AW:4:GLN:CD	3:AX:119:LEU:HD12	2.40	0.46
3:AX:32:VAL:HG22	3:AX:45:PHE:HB3	1.98	0.46
3:AY:20:PHE:CE2	3:AY:43:SER:HB2	2.49	0.46
3:Af:68:VAL:HG11	3:Af:79:PRO:HB2	1.98	0.46
3:Ag:51:LYS:HD3	3:Ag:57:TYR:CE1	2.50	0.46
3:Ag:63:LEU:O	3:Ag:87:VAL:HG12	2.16	0.46
3:Ag:63:LEU:HB3	3:Ag:87:VAL:HG11	1.97	0.46
3:Aj:9:LYS:HA	3:Aj:16:ASN:O	2.16	0.46
3:Am:1:ALA:HB3	3:An:131:TYR:HE1	1.80	0.46
3:Ao:29:VAL:HA	3:Ao:48:SER:OG	2.16	0.46
3:Aq:123:THR:HG23	3:Aq:128:GLN:O	2.16	0.46
3:Av:71:GLN:HE22	3:Av:73:VAL:HG22	1.81	0.46
3:Aw:63:LEU:HB3	3:Aw:87:VAL:CG1	2.46	0.46
3:Aw:71:GLN:HE22	3:Aw:73:VAL:HG22	1.81	0.46
3:Ay:3:LEU:HD12	3:Az:130:VAL:CG2	2.43	0.46
3:A1:90:ASP:HB2	3:A2:88:THR:OG1	2.15	0.46
3:A5:48:SER:OG	3:A5:60:THR:HB	2.15	0.46
3:A5:104:ASN:O	3:A5:108:MET:HG2	2.16	0.46
3:A7:124:ILE:HD13	3:A8:106:VAL:HG23	1.98	0.46
3:A9:49:LEU:HD12	3:A9:58:LYS:O	2.16	0.46
3:BA:119:LEU:O	3:BA:119:LEU:HD23	2.15	0.46
3:BH:45:PHE:HD1	3:BH:63:LEU:HD13	1.81	0.46
3:BN:24:ASP:CG	3:CD:129:GLY:HA3	2.41	0.46
3:BO:12:GLU:OE1	3:BO:12:GLU:N	2.49	0.46
3:BQ:21:VAL:C	3:BQ:32:VAL:HG23	2.41	0.46
3:BS:35:SER:CB	3:BS:42:GLU:HG3	2.42	0.46
3:BS:130:VAL:HA	3:CH:1:ALA:H2	1.80	0.46
3:Bc:78:THR:HA	3:B4:96:ARG:HH22	1.80	0.46
3:Bn:35:SER:HA	3:Bn:42:GLU:CG	2.46	0.46
3:Bw:119:LEU:HD13	3:Bx:2:GLN:O	2.16	0.46
3:B3:37:GLY:O	3:B3:39:PRO:HD3	2.16	0.46
3:B5:23:ARG:HD3	3:B5:33:VAL:CG2	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B5:123:THR:O	3:B5:127:LEU:HA	2.16	0.46
3:B6:32:VAL:O	3:B6:44:ARG:HA	2.16	0.46
3:B8:98:THR:HG22	3:B8:100:LYS:H	1.80	0.46
3:CC:8:LEU:HD23	3:CC:20:PHE:CE1	2.51	0.46
3:CD:43:SER:HA	3:CD:64:VAL:O	2.16	0.46
3:CL:98:THR:O	3:CL:102:ARG:HG3	2.16	0.46
3:CM:24:ASP:O	3:CM:31:GLU:HB2	2.16	0.46
3:CM:119:LEU:HD12	3:CN:4:GLN:CD	2.40	0.46
3:CN:82:VAL:HG23	3:CN:83:ARG:HG2	1.98	0.46
1:F:205:ASP:HB2	3:CM:77:VAL:HB	1.96	0.46
3:2:71:GLN:HB3	3:2:78:THR:O	2.16	0.46
3:5:82:VAL:HG23	3:5:83:ARG:HG2	1.97	0.46
3:O:64:VAL:HG22	3:O:86:TYR:CD1	2.51	0.46
3:Q:50:ARG:NH2	3:Q:58:LYS:HD2	2.30	0.46
3:b:113:LEU:HB3	3:b:120:VAL:CG1	2.46	0.46
3:c:30:GLY:HA3	3:d:130:VAL:HG11	1.98	0.46
3:e:90:ASP:HB2	3:f:88:THR:HG23	1.98	0.46
3:g:44:ARG:O	3:g:63:LEU:HA	2.16	0.46
3:j:3:LEU:HD21	3:j:22:PRO:HB3	1.98	0.46
3:p:46:THR:OG1	3:p:62:LYS:HB2	2.15	0.46
3:u:49:LEU:HD12	3:u:58:LYS:O	2.15	0.46
3:J:54:ASN:HD21	3:J:56:ARG:HG2	1.79	0.46
3:K:71:GLN:HB3	3:K:78:THR:O	2.16	0.46
3:AP:34:GLU:O	3:AP:42:GLU:HG3	2.17	0.46
3:Ac:72:THR:HG22	3:Ac:75:GLY:H	1.81	0.46
3:Ad:57:TYR:O	3:Ad:92:ASP:HA	2.16	0.46
3:Ak:57:TYR:CE2	3:Ak:95:ALA:HA	2.47	0.46
3:Ak:112:ALA:HB2	3:Al:8:LEU:HD21	1.97	0.46
3:Am:98:THR:O	3:Am:102:ARG:HG3	2.16	0.46
3:An:30:GLY:O	3:An:46:THR:HG23	2.16	0.46
3:Ao:72:THR:HA	3:Ao:76:ILE:O	2.16	0.46
3:A5:25:ILE:HG13	3:A5:29:VAL:O	2.16	0.46
3:BA:7:VAL:CG1	3:BA:17:ASP:HB2	2.46	0.46
3:BC:49:LEU:HD12	3:BC:58:LYS:O	2.16	0.46
3:BH:8:LEU:HD13	3:BH:20:PHE:CE2	2.51	0.46
3:BK:47:ILE:HD13	3:BK:61:LEU:CD1	2.46	0.46
3:BR:121:HIS:O	3:BR:125:VAL:HB	2.15	0.46
3:BY:8:LEU:O	3:BY:17:ASP:HA	2.15	0.46
3:Bb:47:ILE:CD1	3:Bb:61:LEU:HG	2.46	0.46
3:Bj:20:PHE:HB3	3:Bj:32:VAL:HG12	1.96	0.46
3:Bw:52:THR:OG1	3:Bw:58:LYS:NZ	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:By:117:LYS:HD2	3:Bz:6:LEU:HD11	1.97	0.46
3:Bz:60:THR:HG23	3:Bz:90:ASP:OD1	2.16	0.46
3:B2:67:VAL:O	3:B2:82:VAL:HG22	2.16	0.46
3:B3:118:MET:SD	3:B3:118:MET:N	2.77	0.46
3:B7:63:LEU:O	3:B7:87:VAL:HG12	2.15	0.46
3:B7:66:PRO:CB	3:B7:84:THR:HG22	2.44	0.46
3:B8:6:LEU:O	3:B8:20:PHE:N	2.36	0.46
3:B9:20:PHE:HB3	3:B9:32:VAL:HG22	1.98	0.46
3:B9:68:VAL:HG12	3:B9:81:VAL:HG22	1.98	0.46
3:CL:45:PHE:HD1	3:CL:63:LEU:HD13	1.81	0.46
3:CN:123:THR:O	3:CN:127:LEU:HD13	2.16	0.46
3:4:69:GLN:CB	3:B0:76:ILE:HD11	2.46	0.45
3:7:33:VAL:HA	3:7:43:SER:O	2.16	0.45
3:B:40:ILE:CG2	3:B:68:VAL:HG21	2.44	0.45
3:E:24:ASP:OD2	3:Bd:129:GLY:HA3	2.15	0.45
3:E:72:THR:OG1	3:E:77:VAL:HG22	2.15	0.45
3:Q:57:TYR:O	3:Q:92:ASP:HA	2.16	0.45
3:Q:121:HIS:NE2	3:Q:125:VAL:HG21	2.30	0.45
3:S:31:GLU:HA	3:S:45:PHE:O	2.16	0.45
3:U:9:LYS:N	3:V:111:ASP:OD2	2.50	0.45
3:Y:7:VAL:HA	3:Y:18:HIS:O	2.16	0.45
3:o:1:ALA:HA	3:p:131:TYR:CE1	2.51	0.45
3:s:45:PHE:CZ	3:s:47:ILE:HD11	2.51	0.45
3:u:71:GLN:NE2	3:u:78:THR:O	2.49	0.45
3:x:56:ARG:HG3	3:x:93:TYR:O	2.16	0.45
3:z:20:PHE:CE1	3:z:43:SER:HB2	2.51	0.45
3:G:25:ILE:HG13	3:G:29:VAL:O	2.15	0.45
3:N:23:ARG:HH21	3:N:33:VAL:HG11	1.81	0.45
3:AA:37:GLY:O	3:AC:98:THR:HA	2.16	0.45
3:AQ:63:LEU:HB3	3:AQ:87:VAL:CG1	2.46	0.45
3:AR:63:LEU:O	3:AR:87:VAL:HG12	2.16	0.45
3:AR:71:GLN:HB3	3:AR:78:THR:O	2.16	0.45
3:AZ:98:THR:HG22	3:AZ:100:LYS:H	1.81	0.45
3:Aa:46:THR:OG1	3:Aa:62:LYS:HB2	2.15	0.45
3:Ac:63:LEU:HB3	3:Ac:87:VAL:CG1	2.45	0.45
3:Aj:72:THR:OG1	3:Aj:77:VAL:HG22	2.16	0.45
3:Ak:47:ILE:HD12	3:Ak:61:LEU:HG	1.97	0.45
3:As:90:ASP:HB2	3:At:88:THR:OG1	2.16	0.45
3:As:121:HIS:NE2	3:As:125:VAL:HG21	2.30	0.45
3:A7:123:THR:HG23	3:A8:49:LEU:HD22	1.98	0.45
3:A8:29:VAL:HG13	3:A8:46:THR:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A9:1:ALA:HB1	3:A0:131:TYR:CE1	2.51	0.45
3:A9:123:THR:CG2	3:A0:49:LEU:HD12	2.39	0.45
3:BF:33:VAL:HG13	3:BF:42:GLU:HB3	1.98	0.45
3:BP:45:PHE:HA	3:BP:62:LYS:O	2.16	0.45
3:BZ:44:ARG:O	3:BZ:63:LEU:HD12	2.16	0.45
3:BZ:47:ILE:HG13	3:BZ:61:LEU:CD2	2.46	0.45
3:Bd:31:GLU:CG	3:Bd:46:THR:HG22	2.46	0.45
3:Bi:61:LEU:HB2	3:Bi:89:VAL:CG2	2.46	0.45
3:Bn:20:PHE:HE2	3:Bn:43:SER:HB2	1.80	0.45
3:Bu:20:PHE:CD2	3:Bu:34:GLU:HB2	2.51	0.45
3:Bv:123:THR:O	3:Bv:127:LEU:HA	2.16	0.45
3:Bw:44:ARG:HH21	3:Bw:64:VAL:HG21	1.82	0.45
3:CH:68:VAL:HG11	3:CH:79:PRO:HB2	1.97	0.45
3:4:11:ARG:NH2	3:4:114:LYS:O	2.50	0.45
3:6:49:LEU:HD12	3:6:58:LYS:O	2.15	0.45
3:7:21:VAL:O	3:7:32:VAL:HG23	2.16	0.45
3:A:64:VAL:HA	3:A:85:SER:O	2.16	0.45
3:O:21:VAL:C	3:O:32:VAL:HG23	2.41	0.45
3:R:47:ILE:CD1	3:R:61:LEU:HG	2.46	0.45
3:V:71:GLN:HE22	3:V:73:VAL:HG22	1.80	0.45
3:f:9:LYS:CE	3:f:15:PRO:HB2	2.45	0.45
3:f:59:SER:OG	3:f:91:PHE:HB2	2.15	0.45
3:n:49:LEU:HD12	3:n:58:LYS:O	2.16	0.45
3:p:63:LEU:O	3:p:87:VAL:HG12	2.16	0.45
3:v:25:ILE:HA	3:v:29:VAL:O	2.16	0.45
3:G:63:LEU:HB3	3:G:87:VAL:CG1	2.45	0.45
3:G:98:THR:CG2	3:G:101:GLU:HG3	2.45	0.45
3:I:21:VAL:O	3:I:32:VAL:HG23	2.16	0.45
3:J:47:ILE:CD1	3:J:61:LEU:HG	2.47	0.45
3:AA:22:PRO:HA	3:AA:32:VAL:HA	1.99	0.45
3:AO:122:ASP:OD2	3:AO:128:GLN:HB2	2.16	0.45
3:AP:57:TYR:O	3:AP:92:ASP:HA	2.16	0.45
3:Aa:38:VAL:HG12	3:Aa:40:ILE:HG22	1.98	0.45
3:Af:123:THR:O	3:Af:127:LEU:HD13	2.16	0.45
3:An:38:VAL:CG2	3:CO:98:THR:HG22	2.46	0.45
3:As:8:LEU:CD1	3:At:112:ALA:HA	2.45	0.45
3:As:108:MET:HE3	3:At:8:LEU:HD12	1.97	0.45
3:Au:9:LYS:HE2	3:Au:17:ASP:OD1	2.17	0.45
3:A1:64:VAL:HA	3:A1:85:SER:O	2.15	0.45
3:A2:25:ILE:HD12	3:A2:30:GLY:HA2	1.97	0.45
3:A3:123:THR:CG2	3:A4:49:LEU:HD12	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A7:8:LEU:HD23	3:A7:20:PHE:CE1	2.51	0.45
3:A8:44:ARG:CG	3:A8:64:VAL:HB	2.47	0.45
3:BA:63:LEU:O	3:BA:87:VAL:HG12	2.16	0.45
3:BC:71:GLN:O	3:BC:77:VAL:HA	2.16	0.45
3:BD:6:LEU:HB3	3:BD:20:PHE:HB2	1.96	0.45
3:BF:20:PHE:HD1	3:BF:34:GLU:HB2	1.82	0.45
3:BL:57:TYR:O	3:BL:92:ASP:HA	2.15	0.45
3:Bj:3:LEU:HD22	3:Bj:25:ILE:HD11	1.98	0.45
3:Bl:25:ILE:CD1	3:Bl:30:GLY:HA2	2.47	0.45
3:Bm:119:LEU:HD11	3:Bn:3:LEU:HD12	1.98	0.45
3:Bv:8:LEU:HD13	3:Bv:20:PHE:CE2	2.51	0.45
3:Bv:68:VAL:HG13	3:Bv:80:VAL:C	2.42	0.45
3:B1:120:VAL:O	3:B1:124:ILE:HG22	2.15	0.45
3:B2:20:PHE:CD2	3:B2:34:GLU:HB2	2.51	0.45
3:B6:20:PHE:HD1	3:B6:34:GLU:HB2	1.80	0.45
3:CB:98:THR:HG22	3:CB:100:LYS:H	1.81	0.45
3:CI:93:TYR:CD2	3:CI:102:ARG:HG2	2.50	0.45
3:CM:82:VAL:HG23	3:CM:83:ARG:HG2	1.98	0.45
3:CN:61:LEU:HB2	3:CN:89:VAL:HB	1.98	0.45
3:CQ:14:THR:HG23	3:CQ:16:ASN:OD1	2.16	0.45
3:2:82:VAL:HG23	3:2:83:ARG:HG2	1.98	0.45
3:4:3:LEU:HG	3:4:22:PRO:HB3	1.97	0.45
3:6:29:VAL:HG22	3:6:48:SER:CB	2.47	0.45
3:6:61:LEU:HB2	3:6:89:VAL:HB	1.97	0.45
3:A:98:THR:HG22	3:BR:38:VAL:HB	1.98	0.45
3:C:14:THR:HG23	3:C:16:ASN:OD1	2.16	0.45
3:E:20:PHE:HB3	3:E:32:VAL:CG2	2.46	0.45
3:E:71:GLN:HB3	3:Bh:76:ILE:HD11	1.99	0.45
3:P:34:GLU:O	3:P:42:GLU:HB2	2.17	0.45
3:R:102:ARG:O	3:R:106:VAL:HG23	2.16	0.45
3:Z:11:ARG:NH2	3:Z:114:LYS:HA	2.31	0.45
3:c:129:GLY:HA3	3:B7:24:ASP:CG	2.41	0.45
3:k:44:ARG:O	3:k:63:LEU:HD12	2.17	0.45
3:k:119:LEU:HD11	3:l:3:LEU:HD12	1.99	0.45
3:p:36:THR:OG1	3:p:37:GLY:N	2.35	0.45
3:q:37:GLY:O	3:s:98:THR:HA	2.16	0.45
3:r:52:THR:HG23	3:r:54:ASN:H	1.81	0.45
3:s:121:HIS:NE2	3:s:125:VAL:HG21	2.30	0.45
3:u:71:GLN:O	3:u:77:VAL:HA	2.16	0.45
3:G:36:THR:HG23	3:G:38:VAL:H	1.81	0.45
3:AB:45:PHE:HA	3:AB:62:LYS:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:72:THR:OG1	3:AB:77:VAL:HG22	2.16	0.45
3:AD:32:VAL:HG22	3:AD:45:PHE:HB3	1.98	0.45
3:AR:60:THR:HA	3:AR:89:VAL:O	2.17	0.45
3:AR:69:GLN:O	3:AR:79:PRO:HA	2.16	0.45
3:AX:8:LEU:HD23	3:AX:20:PHE:CE2	2.52	0.45
3:Ae:72:THR:HA	3:Ae:76:ILE:O	2.16	0.45
3:Af:20:PHE:CD1	3:Af:34:GLU:HB2	2.50	0.45
3:Ai:33:VAL:HA	3:Ai:43:SER:O	2.15	0.45
3:Aj:68:VAL:HG13	3:Aj:80:VAL:C	2.41	0.45
3:Ao:71:GLN:NE2	3:Ao:78:THR:O	2.50	0.45
3:Aq:83:ARG:NH1	3:Ar:101:GLU:OE1	2.40	0.45
3:Aw:122:ASP:O	3:Aw:126:ASN:HB2	2.17	0.45
3:A1:6:LEU:HG	3:A1:8:LEU:HD21	1.98	0.45
3:A2:61:LEU:N	3:A2:89:VAL:O	2.49	0.45
3:A7:61:LEU:HD11	3:A8:124:ILE:HD11	1.98	0.45
3:BD:114:LYS:HG2	3:BD:116:ASP:H	1.81	0.45
3:BF:114:LYS:HB3	3:BF:116:ASP:OD1	2.16	0.45
3:BH:122:ASP:O	3:BH:126:ASN:HB2	2.17	0.45
3:BK:89:VAL:CG1	3:BL:89:VAL:HG13	2.45	0.45
3:BL:7:VAL:HG12	3:BL:19:THR:HA	1.99	0.45
3:BY:90:ASP:OD1	3:BZ:88:THR:HB	2.16	0.45
3:Bn:3:LEU:HG	3:Bn:22:PRO:HB3	1.98	0.45
3:Bv:35:SER:HB2	3:Bv:42:GLU:CB	2.47	0.45
3:B2:47:ILE:CD1	3:B2:61:LEU:HG	2.46	0.45
3:B2:52:THR:OG1	3:B2:53:SER:N	2.48	0.45
3:B2:94:ASP:OD1	3:B2:97:SER:OG	2.32	0.45
3:B4:70:SER:HB2	3:B4:77:VAL:CG1	2.46	0.45
3:B6:41:GLY:CA	3:B6:66:PRO:HG2	2.41	0.45
3:B7:25:ILE:HA	3:B7:29:VAL:O	2.16	0.45
3:B9:35:SER:HB2	3:B9:42:GLU:CB	2.47	0.45
3:B0:29:VAL:HG13	3:B0:47:ILE:O	2.17	0.45
3:CR:122:ASP:HA	3:CR:126:ASN:HB2	1.99	0.45
3:0:25:ILE:HG13	3:0:29:VAL:C	2.42	0.45
3:1:44:ARG:O	3:1:63:LEU:HD12	2.15	0.45
3:1:104:ASN:O	3:1:108:MET:HG3	2.16	0.45
3:5:105:PHE:O	3:5:109:ILE:HG22	2.16	0.45
3:E:29:VAL:HA	3:E:48:SER:OG	2.16	0.45
3:Y:6:LEU:HD21	3:Y:8:LEU:HD21	1.98	0.45
3:e:33:VAL:HG12	3:e:44:ARG:HG2	1.97	0.45
3:i:71:GLN:O	3:i:77:VAL:HA	2.16	0.45
3:k:52:THR:OG1	3:k:56:ARG:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:o:69:GLN:NE2	3:o:82:VAL:HG21	2.32	0.45
3:s:117:LYS:HG2	3:t:6:LEU:HD11	1.98	0.45
3:x:63:LEU:O	3:x:87:VAL:HG12	2.16	0.45
3:x:71:GLN:HE22	3:x:73:VAL:HG22	1.81	0.45
3:H:32:VAL:HG22	3:H:45:PHE:HB3	1.97	0.45
3:I:71:GLN:HB3	3:I:78:THR:O	2.16	0.45
3:K:122:ASP:HB2	3:K:128:GLN:HG3	1.98	0.45
3:M:20:PHE:CD2	3:M:34:GLU:HB2	2.51	0.45
3:N:68:VAL:HG13	3:N:80:VAL:C	2.42	0.45
3:AA:6:LEU:HB3	3:AA:20:PHE:HB2	1.98	0.45
3:AX:63:LEU:HB3	3:AX:87:VAL:CG1	2.46	0.45
3:AZ:122:ASP:HA	3:AZ:126:ASN:HB2	1.97	0.45
3:Ab:31:GLU:HA	3:Ab:45:PHE:O	2.16	0.45
3:Ac:35:SER:HB2	3:Ac:42:GLU:HG3	1.97	0.45
3:Ad:82:VAL:HG23	3:Ad:83:ARG:HG2	1.98	0.45
3:Ad:123:THR:O	3:Ad:127:LEU:HD13	2.17	0.45
3:Ag:114:LYS:NZ	3:Ag:117:LYS:HG2	2.32	0.45
3:Ah:29:VAL:HG22	3:Ah:48:SER:HB3	1.98	0.45
3:Am:117:LYS:HD2	3:An:6:LEU:CD1	2.47	0.45
3:At:69:GLN:O	3:At:79:PRO:HA	2.17	0.45
3:At:98:THR:HB	3:At:101:GLU:HG2	1.98	0.45
3:A5:10:ASP:OD2	3:A5:16:ASN:HB2	2.17	0.45
3:A8:34:GLU:HB3	3:A8:43:SER:HB2	1.98	0.45
3:A8:113:LEU:HB3	3:A8:120:VAL:HG11	1.99	0.45
3:A0:76:ILE:HD11	3:Bv:69:GLN:HB3	1.98	0.45
3:A0:102:ARG:O	3:A0:106:VAL:HG23	2.16	0.45
3:BA:64:VAL:HA	3:BA:85:SER:O	2.16	0.45
3:BC:9:LYS:O	3:BD:108:MET:HA	2.16	0.45
3:BC:72:THR:HA	3:BC:76:ILE:O	2.17	0.45
3:BK:47:ILE:HD13	3:BK:61:LEU:HD11	1.98	0.45
3:BK:90:ASP:HB2	3:BL:88:THR:OG1	2.17	0.45
3:BL:121:HIS:CE1	3:BL:125:VAL:HG21	2.51	0.45
3:BN:43:SER:HA	3:BN:64:VAL:O	2.17	0.45
3:BY:30:GLY:HA3	3:BZ:130:VAL:HG11	1.98	0.45
3:Bg:32:VAL:HG22	3:Bg:45:PHE:O	2.16	0.45
3:Bg:68:VAL:HG13	3:Bg:80:VAL:O	2.16	0.45
3:Bh:82:VAL:HG23	3:Bh:83:ARG:HG2	1.98	0.45
3:Bi:3:LEU:HD11	3:Bj:130:VAL:CG2	2.47	0.45
3:Bj:46:THR:HB	3:Bj:62:LYS:CB	2.44	0.45
3:Bv:72:THR:CA	3:Bv:77:VAL:HG22	2.40	0.45
3:Bw:63:LEU:O	3:Bw:87:VAL:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bx:29:VAL:HG13	3:Bx:48:SER:HB2	1.98	0.45
3:B1:72:THR:HA	3:B1:76:ILE:O	2.17	0.45
3:B1:111:ASP:O	3:B1:117:LYS:NZ	2.43	0.45
3:B6:20:PHE:HA	3:B6:34:GLU:OE1	2.16	0.45
3:B8:98:THR:O	3:B8:102:ARG:HG3	2.16	0.45
3:CK:61:LEU:HB2	3:CK:89:VAL:HG22	1.98	0.45
3:CR:34:GLU:HB3	3:CR:43:SER:H	1.80	0.45
3:CR:124:ILE:HG13	3:CR:125:VAL:HG23	1.97	0.45
3:2:98:THR:CG2	3:2:101:GLU:HG3	2.47	0.45
3:3:45:PHE:HA	3:3:62:LYS:O	2.17	0.45
3:6:121:HIS:HA	3:6:124:ILE:HG22	1.99	0.45
3:8:24:ASP:HA	3:AT:131:TYR:CD1	2.52	0.45
3:C:46:THR:OG1	3:C:62:LYS:HB2	2.17	0.45
3:O:68:VAL:HA	3:O:81:VAL:HA	1.98	0.45
3:P:131:TYR:CD1	3:A4:24:ASP:HA	2.52	0.45
3:Q:96:ARG:HG3	3:BV:40:ILE:CD1	2.42	0.45
3:a:104:ASN:ND2	3:b:12:GLU:OE2	2.49	0.45
3:b:68:VAL:HG13	3:b:80:VAL:O	2.16	0.45
3:h:31:GLU:HB3	3:h:46:THR:HG22	1.98	0.45
3:i:7:VAL:HA	3:i:18:HIS:O	2.16	0.45
3:m:31:GLU:HA	3:m:45:PHE:O	2.17	0.45
3:t:104:ASN:O	3:t:108:MET:HG3	2.16	0.45
3:v:34:GLU:O	3:v:42:GLU:HG3	2.17	0.45
3:z:39:PRO:HA	3:z:42:GLU:CD	2.42	0.45
3:H:99:THR:OG1	3:A7:37:GLY:HA2	2.17	0.45
3:J:43:SER:HA	3:J:64:VAL:O	2.17	0.45
3:K:64:VAL:HG12	3:K:66:PRO:HD3	1.99	0.45
3:M:61:LEU:HB2	3:M:89:VAL:HG23	1.99	0.45
3:M:66:PRO:CA	3:M:84:THR:HG22	2.44	0.45
3:M:101:GLU:OE2	3:N:83:ARG:NH2	2.35	0.45
3:AQ:78:THR:HG23	3:Bx:96:ARG:HD3	1.98	0.45
3:AQ:112:ALA:O	3:AQ:120:VAL:HG11	2.16	0.45
3:AR:29:VAL:CG1	3:AR:46:THR:HB	2.47	0.45
3:AT:49:LEU:HD12	3:AT:58:LYS:O	2.16	0.45
3:AU:61:LEU:HB2	3:AU:89:VAL:CG2	2.45	0.45
3:AU:86:TYR:HB2	3:AV:92:ASP:OD2	2.16	0.45
3:AX:29:VAL:HG22	3:AX:48:SER:CB	2.46	0.45
3:AZ:59:SER:O	3:AZ:90:ASP:HA	2.17	0.45
3:Ai:3:LEU:HD12	3:Aj:119:LEU:HD11	1.99	0.45
3:An:122:ASP:O	3:An:126:ASN:HB2	2.15	0.45
3:Ap:46:THR:HB	3:Ap:62:LYS:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:As:102:ARG:HD2	3:At:127:LEU:HD11	1.99	0.45
3:At:3:LEU:CD2	3:At:25:ILE:HD11	2.46	0.45
3:Au:58:LYS:CB	3:Au:92:ASP:HB3	2.47	0.45
3:Aw:97:SER:O	3:Aw:102:ARG:NH1	2.49	0.45
3:Ax:33:VAL:CG1	3:Ax:42:GLU:HG3	2.46	0.45
3:Ay:110:ALA:HB2	3:Az:113:LEU:HD11	1.97	0.45
3:Az:44:ARG:O	3:Az:63:LEU:HA	2.16	0.45
3:A3:46:THR:HB	3:A3:62:LYS:CG	2.47	0.45
3:A8:44:ARG:O	3:A8:63:LEU:HA	2.16	0.45
3:BD:102:ARG:O	3:BD:106:VAL:HG23	2.17	0.45
3:BG:5:ASN:HA	3:BG:20:PHE:O	2.15	0.45
3:BI:36:THR:OG1	3:BI:37:GLY:N	2.37	0.45
3:BI:44:ARG:HG2	3:BI:64:VAL:HB	1.98	0.45
3:BO:63:LEU:O	3:BO:87:VAL:HG12	2.17	0.45
3:BO:68:VAL:CG1	3:BO:79:PRO:HB2	2.46	0.45
3:BQ:3:LEU:HD12	3:BQ:25:ILE:HD11	1.98	0.45
3:BV:71:GLN:HE22	3:BV:73:VAL:HG22	1.81	0.45
3:BV:83:ARG:HD3	3:CI:96:ARG:O	2.16	0.45
3:Bc:36:THR:OG1	3:Bc:37:GLY:N	2.34	0.45
3:Bk:32:VAL:HG12	3:Bk:45:PHE:HB3	1.99	0.45
3:Bk:71:GLN:O	3:Bk:77:VAL:HA	2.17	0.45
3:Bw:121:HIS:CE1	3:Bw:125:VAL:HG21	2.52	0.45
3:By:102:ARG:O	3:By:106:VAL:HG23	2.16	0.45
3:Bz:63:LEU:O	3:Bz:87:VAL:HG22	2.16	0.45
3:B3:59:SER:OG	3:B3:91:PHE:HB2	2.17	0.45
3:B7:14:THR:HG23	3:B7:16:ASN:OD1	2.17	0.45
3:CI:44:ARG:O	3:CI:63:LEU:HA	2.17	0.45
3:CN:12:GLU:OE1	3:CN:12:GLU:N	2.50	0.45
3:CP:25:ILE:HA	3:CP:29:VAL:O	2.17	0.45
3:CR:51:LYS:HZ1	3:CR:55:GLY:HA2	1.82	0.45
3:0:82:VAL:HG23	3:0:83:ARG:HG2	1.98	0.45
3:1:23:ARG:NH2	3:1:33:VAL:HG21	2.31	0.45
3:3:44:ARG:HH21	3:3:64:VAL:HG11	1.81	0.45
3:5:25:ILE:HG13	3:5:29:VAL:C	2.41	0.45
3:D:98:THR:HA	3:A9:37:GLY:O	2.16	0.45
3:E:37:GLY:HA2	3:Bc:99:THR:OG1	2.17	0.45
3:E:44:ARG:NH2	3:E:64:VAL:HG11	2.31	0.45
3:O:107:GLY:O	3:O:111:ASP:HB2	2.17	0.45
3:Q:10:ASP:HB2	3:Q:12:GLU:OE1	2.16	0.45
3:V:68:VAL:CG1	3:V:79:PRO:HB2	2.46	0.45
3:W:48:SER:HB3	3:W:60:THR:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:35:SER:OG	3:Z:39:PRO:HA	2.17	0.45
3:a:37:GLY:HA2	3:c:99:THR:OG1	2.17	0.45
3:b:72:THR:HA	3:b:76:ILE:O	2.17	0.45
3:f:114:LYS:HB3	3:f:116:ASP:OD1	2.17	0.45
3:i:8:LEU:HD23	3:i:20:PHE:CE1	2.51	0.45
3:k:11:ARG:HG3	3:l:107:GLY:HA3	1.99	0.45
3:n:34:GLU:O	3:n:42:GLU:HG3	2.17	0.45
3:p:41:GLY:HA3	3:p:68:VAL:CG2	2.46	0.45
3:t:23:ARG:HH21	3:t:33:VAL:HG11	1.80	0.45
3:t:39:PRO:HB2	3:z:57:TYR:OH	2.17	0.45
3:u:36:THR:HG23	3:u:38:VAL:H	1.82	0.45
3:v:123:THR:HG23	3:v:128:GLN:O	2.16	0.45
3:H:82:VAL:HG23	3:H:83:ARG:HG2	1.99	0.45
3:I:2:GLN:HA	3:J:131:TYR:OXT	2.17	0.45
3:J:129:GLY:HA3	3:Aj:24:ASP:HB2	1.97	0.45
3:K:1:ALA:N	3:L:122:ASP:OD2	2.42	0.45
3:K:107:GLY:O	3:K:111:ASP:HB2	2.17	0.45
3:AB:98:THR:HG22	3:AB:100:LYS:H	1.81	0.45
3:AS:64:VAL:HA	3:AS:85:SER:O	2.16	0.45
3:AS:90:ASP:HB2	3:AT:88:THR:OG1	2.15	0.45
3:AV:24:ASP:CG	3:Bz:129:GLY:HA3	2.41	0.45
3:Ac:39:PRO:HA	3:Ac:42:GLU:OE2	2.16	0.45
3:Ae:104:ASN:O	3:Ae:108:MET:HG2	2.15	0.45
3:Af:20:PHE:HB3	3:Af:32:VAL:CG1	2.47	0.45
3:Aj:94:ASP:OD1	3:Aj:95:ALA:N	2.49	0.45
3:Ak:123:THR:CG2	3:Al:49:LEU:HD12	2.47	0.45
3:Al:24:ASP:HB2	3:Ap:28:ASN:ND2	2.32	0.45
3:Ap:48:SER:OG	3:Ap:60:THR:HB	2.17	0.45
3:Ap:51:LYS:HD3	3:Ap:57:TYR:CD1	2.52	0.45
3:Az:63:LEU:HB3	3:Az:87:VAL:CG2	2.46	0.45
3:A0:7:VAL:HA	3:A0:18:HIS:O	2.16	0.45
3:BH:123:THR:O	3:BH:127:LEU:HA	2.16	0.45
3:BK:62:LYS:HG2	3:BK:88:THR:OG1	2.17	0.45
3:BN:113:LEU:HD23	3:BN:113:LEU:H	1.81	0.45
3:BO:106:VAL:HA	3:BO:109:ILE:HG22	1.98	0.45
3:BQ:20:PHE:CD2	3:BQ:34:GLU:HB2	2.52	0.45
3:Bh:23:ARG:NH2	3:Bh:33:VAL:HG21	2.31	0.45
3:Bx:52:THR:HG22	3:Bx:56:ARG:O	2.17	0.45
3:B2:21:VAL:C	3:B2:32:VAL:HG13	2.42	0.45
3:B0:73:VAL:N	3:B0:76:ILE:O	2.31	0.45
3:B0:94:ASP:OD1	3:B0:95:ALA:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:117:LYS:HD2	3:CD:6:LEU:CD1	2.46	0.45
3:CM:3:LEU:O	3:CM:22:PRO:HG2	2.17	0.45
3:CP:34:GLU:O	3:CP:42:GLU:HG3	2.17	0.45
3:CR:38:VAL:HB	3:CS:98:THR:HG22	1.98	0.45
3:7:23:ARG:HG3	3:7:31:GLU:HG3	1.99	0.45
3:9:111:ASP:OD1	3:9:117:LYS:NZ	2.47	0.45
3:A:4:GLN:NE2	3:B:119:LEU:HD12	2.31	0.45
3:B:24:ASP:HB3	3:B6:129:GLY:O	2.17	0.45
3:B:52:THR:OG1	3:B:53:SER:N	2.49	0.45
3:E:94:ASP:OD1	3:E:95:ALA:N	2.50	0.45
3:P:22:PRO:HB3	3:P:32:VAL:HG22	1.98	0.45
3:P:59:SER:O	3:P:90:ASP:HA	2.17	0.45
3:P:68:VAL:HG11	3:P:79:PRO:HB2	1.97	0.45
3:P:114:LYS:HB3	3:P:116:ASP:OD1	2.16	0.45
3:Y:99:THR:OG1	3:Y:102:ARG:NH2	2.50	0.45
3:c:23:ARG:NH2	3:c:33:VAL:HG11	2.32	0.45
3:j:44:ARG:O	3:j:63:LEU:HA	2.17	0.45
3:n:31:GLU:OE1	3:n:33:VAL:HG23	2.16	0.45
3:n:72:THR:OG1	3:n:77:VAL:HG22	2.16	0.45
3:o:104:ASN:O	3:o:108:MET:HG3	2.17	0.45
3:p:98:THR:HB	3:BE:38:VAL:HG23	1.98	0.45
3:z:32:VAL:O	3:z:44:ARG:HA	2.17	0.45
3:G:98:THR:HG22	3:G:101:GLU:HG3	1.98	0.45
3:I:4:GLN:NE2	3:J:119:LEU:HD12	2.32	0.45
3:I:38:VAL:HG22	3:Bg:97:SER:C	2.42	0.45
3:K:6:LEU:HD11	3:L:117:LYS:HG2	1.98	0.45
3:M:120:VAL:O	3:M:124:ILE:HG22	2.17	0.45
3:AD:22:PRO:CA	3:AD:32:VAL:HG12	2.47	0.45
3:AP:98:THR:HG22	3:AP:100:LYS:H	1.81	0.45
3:AP:114:LYS:HD3	3:AP:116:ASP:OD2	2.16	0.45
3:AP:122:ASP:HA	3:AP:126:ASN:HB2	1.98	0.45
3:AR:104:ASN:O	3:AR:108:MET:HG3	2.17	0.45
3:AS:6:LEU:O	3:AS:19:THR:HA	2.16	0.45
3:AS:63:LEU:O	3:AS:87:VAL:HG12	2.16	0.45
3:AU:44:ARG:NH2	3:AU:64:VAL:HG21	2.32	0.45
3:AW:44:ARG:O	3:AW:63:LEU:HA	2.16	0.45
3:AW:89:VAL:CG2	3:AX:89:VAL:HG13	2.41	0.45
3:AY:83:ARG:CD	3:AZ:97:SER:HA	2.46	0.45
3:AZ:25:ILE:CD1	3:AZ:30:GLY:HA2	2.47	0.45
3:Aa:72:THR:HA	3:Aa:76:ILE:O	2.16	0.45
3:Ad:99:THR:OG1	3:Ah:37:GLY:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ai:4:GLN:HG3	3:Aj:119:LEU:HD12	1.98	0.45
3:An:122:ASP:HA	3:An:126:ASN:ND2	2.31	0.45
3:Aq:4:GLN:NE2	3:Ar:119:LEU:HB2	2.32	0.45
3:At:68:VAL:HG11	3:At:79:PRO:HB2	1.98	0.45
3:Au:119:LEU:HD11	3:Av:3:LEU:HD12	1.98	0.45
3:Av:68:VAL:HG13	3:Av:80:VAL:C	2.41	0.45
3:Aw:98:THR:CG2	3:Aw:101:GLU:HG3	2.47	0.45
3:Ax:63:LEU:HB3	3:Ax:87:VAL:CG1	2.46	0.45
3:Az:23:ARG:HG3	3:Az:24:ASP:OD1	2.16	0.45
3:A3:33:VAL:CG1	3:A3:44:ARG:HG2	2.47	0.45
3:A4:40:ILE:HG22	3:A4:68:VAL:HG21	1.98	0.45
3:BC:35:SER:OG	3:BC:39:PRO:HA	2.17	0.45
3:BI:1:ALA:HA	3:BJ:131:TYR:CZ	2.51	0.45
3:BJ:46:THR:OG1	3:BJ:62:LYS:HB3	2.16	0.45
3:BK:4:GLN:NE2	3:BL:119:LEU:HD12	2.32	0.45
3:BK:8:LEU:HD23	3:BK:20:PHE:CE1	2.52	0.45
3:BM:122:ASP:O	3:BM:126:ASN:HB2	2.17	0.45
3:Bb:63:LEU:O	3:Bb:87:VAL:HG22	2.17	0.45
3:Bd:20:PHE:HB3	3:Bd:32:VAL:HB	1.98	0.45
3:Bn:20:PHE:HA	3:Bn:34:GLU:OE1	2.16	0.45
3:Bn:21:VAL:O	3:Bn:32:VAL:HG13	2.17	0.45
3:Bx:63:LEU:HB3	3:Bx:87:VAL:HG21	1.99	0.45
3:Bz:3:LEU:HD11	3:Bz:32:VAL:CG2	2.47	0.45
3:CQ:7:VAL:HA	3:CQ:18:HIS:O	2.16	0.45
3:CQ:45:PHE:HA	3:CQ:62:LYS:O	2.17	0.45
1:F:412:GLU:N	1:F:412:GLU:OE1	2.50	0.45
3:3:37:GLY:O	3:3:39:PRO:HD3	2.17	0.45
3:3:127:LEU:HD13	3:4:102:ARG:NH1	2.32	0.45
3:5:8:LEU:HA	3:6:111:ASP:OD2	2.17	0.45
3:5:86:TYR:HB2	3:6:92:ASP:CB	2.46	0.45
3:5:102:ARG:O	3:5:106:VAL:HG23	2.15	0.45
3:6:63:LEU:HB3	3:6:87:VAL:CG1	2.46	0.45
3:9:32:VAL:CG2	3:9:45:PHE:HB3	2.43	0.45
3:B:38:VAL:O	3:B:40:ILE:N	2.50	0.45
3:C:61:LEU:HB2	3:C:89:VAL:HB	1.98	0.45
3:E:34:GLU:O	3:E:42:GLU:HB2	2.17	0.45
3:Q:63:LEU:HB3	3:Q:87:VAL:CG1	2.46	0.45
3:Y:3:LEU:H	3:Y:3:LEU:HD23	1.82	0.45
3:Y:128:GLN:OE1	3:CI:23:ARG:HA	2.17	0.45
3:m:25:ILE:HA	3:m:29:VAL:O	2.17	0.45
3:p:97:SER:C	3:BE:38:VAL:HG22	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:q:66:PRO:CA	3:q:84:THR:HG22	2.45	0.45
3:u:21:VAL:O	3:u:32:VAL:HG23	2.17	0.45
3:y:37:GLY:O	3:y:39:PRO:HD3	2.16	0.45
3:L:100:LYS:O	3:L:104:ASN:ND2	2.50	0.45
3:M:29:VAL:HA	3:M:48:SER:CB	2.45	0.45
3:AB:23:ARG:NH1	3:CB:128:GLN:HA	2.31	0.45
3:AQ:93:TYR:CD1	3:AQ:102:ARG:HG2	2.52	0.45
3:AS:120:VAL:O	3:AS:124:ILE:HG22	2.17	0.45
3:AT:20:PHE:HB3	3:AT:32:VAL:CG1	2.46	0.45
3:AT:32:VAL:O	3:AT:44:ARG:HA	2.17	0.45
3:AX:56:ARG:HD2	3:AX:58:LYS:HZ2	1.82	0.45
3:AY:72:THR:HA	3:AY:76:ILE:O	2.17	0.45
3:Ac:131:TYR:CE1	3:Ad:1:ALA:HB3	2.52	0.45
3:Ad:119:LEU:O	3:Ad:119:LEU:HD23	2.17	0.45
3:Af:38:VAL:O	3:Af:40:ILE:N	2.50	0.45
3:Ak:29:VAL:CG1	3:Ak:46:THR:HB	2.47	0.45
3:Aq:86:TYR:HB2	3:Ar:92:ASP:HB3	1.99	0.45
3:Ay:33:VAL:HG11	3:Ay:44:ARG:HG2	1.99	0.45
3:A3:25:ILE:HA	3:A3:29:VAL:O	2.17	0.45
3:A9:2:GLN:HA	3:A0:131:TYR:OXT	2.16	0.45
3:A9:117:LYS:HD2	3:A0:6:LEU:CD1	2.47	0.45
3:BC:7:VAL:O	3:BD:117:LYS:HE2	2.17	0.45
3:BE:61:LEU:O	3:BE:88:THR:HA	2.17	0.45
3:BI:9:LYS:N	3:BJ:111:ASP:OD2	2.31	0.45
3:BK:98:THR:O	3:BK:102:ARG:HG3	2.17	0.45
3:BN:20:PHE:HA	3:BN:34:GLU:OE2	2.17	0.45
3:BN:34:GLU:O	3:BN:42:GLU:HG3	2.16	0.45
3:BS:7:VAL:CG1	3:BS:17:ASP:HB2	2.47	0.45
3:Bb:44:ARG:HB2	3:Bb:64:VAL:HB	1.98	0.45
3:Bb:56:ARG:HA	3:Bb:93:TYR:O	2.16	0.45
3:Bk:72:THR:HA	3:Bk:76:ILE:O	2.17	0.45
3:Bw:102:ARG:O	3:Bw:106:VAL:HG23	2.17	0.45
3:B7:8:LEU:HD23	3:B7:20:PHE:CE1	2.51	0.45
3:B9:32:VAL:O	3:B9:44:ARG:HA	2.17	0.45
3:B0:51:LYS:HD2	3:B0:56:ARG:O	2.17	0.45
3:CA:3:LEU:HD23	3:CA:3:LEU:H	1.81	0.45
3:CM:66:PRO:CB	3:CM:84:THR:HG22	2.47	0.45
3:0:130:VAL:HG11	3:9:30:GLY:H	1.81	0.45
3:1:93:TYR:CD1	3:1:102:ARG:HG2	2.52	0.45
3:2:102:ARG:O	3:2:106:VAL:HG23	2.17	0.45
3:5:72:THR:HA	3:5:76:ILE:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6:3:LEU:HD22	3:6:25:ILE:HD11	1.99	0.45
3:6:111:ASP:HA	3:6:114:LYS:NZ	2.32	0.45
3:8:69:GLN:CB	3:CD:76:ILE:HG13	2.46	0.45
3:A:63:LEU:O	3:A:87:VAL:HG12	2.17	0.45
3:C:12:GLU:OE1	3:C:14:THR:HG22	2.16	0.45
3:T:20:PHE:HB3	3:T:32:VAL:CG2	2.47	0.45
3:T:59:SER:OG	3:T:91:PHE:HB2	2.17	0.45
3:V:80:VAL:HG12	3:b:96:ARG:HH12	1.81	0.45
3:c:12:GLU:OE2	3:d:104:ASN:ND2	2.42	0.45
3:g:4:GLN:H	3:h:119:LEU:HD12	1.81	0.45
3:h:93:TYR:CD1	3:h:102:ARG:HG2	2.51	0.45
3:o:113:LEU:HB3	3:p:110:ALA:HB2	1.98	0.45
3:s:51:LYS:HD3	3:s:57:TYR:CD2	2.52	0.45
3:y:118:MET:H	3:y:118:MET:HG3	1.63	0.45
3:H:57:TYR:O	3:H:92:ASP:HA	2.17	0.45
3:I:44:ARG:O	3:I:63:LEU:HA	2.17	0.45
3:J:61:LEU:HB2	3:J:89:VAL:HB	1.99	0.45
3:AO:49:LEU:HD12	3:AO:58:LYS:O	2.17	0.45
3:AP:69:GLN:HA	3:Bx:76:ILE:HG13	1.97	0.45
3:AQ:8:LEU:HD23	3:AR:108:MET:O	2.16	0.45
3:AT:94:ASP:OD1	3:AT:95:ALA:N	2.50	0.45
3:Aa:86:TYR:HB2	3:Ab:92:ASP:CB	2.41	0.45
3:Ab:10:ASP:N	3:Ab:10:ASP:OD1	2.47	0.45
3:Ab:72:THR:HG22	3:Ab:75:GLY:H	1.82	0.45
3:Ac:33:VAL:HA	3:Ac:43:SER:O	2.16	0.45
3:Ae:86:TYR:HB2	3:Af:92:ASP:OD1	2.17	0.45
3:Af:20:PHE:HD1	3:Af:34:GLU:HB2	1.81	0.45
3:Ag:64:VAL:HA	3:Ag:85:SER:O	2.16	0.45
3:Ah:98:THR:HA	3:CQ:37:GLY:O	2.17	0.45
3:Ah:99:THR:OG1	3:Ah:102:ARG:NH2	2.50	0.45
3:Ai:92:ASP:N	3:Ai:92:ASP:OD1	2.47	0.45
3:Au:25:ILE:HG22	3:Ax:131:TYR:HB3	1.98	0.45
3:Ay:51:LYS:HE2	3:Ay:57:TYR:CE1	2.52	0.45
3:A0:43:SER:HA	3:A0:64:VAL:O	2.17	0.45
3:BB:38:VAL:HG22	3:BB:40:ILE:HG12	1.98	0.45
3:BD:98:THR:CG2	3:BD:101:GLU:HG3	2.47	0.45
3:BE:35:SER:HB2	3:BE:42:GLU:CB	2.46	0.45
3:BG:89:VAL:HG12	3:BH:89:VAL:HA	1.99	0.45
3:BJ:51:LYS:HD3	3:BJ:57:TYR:CE2	2.52	0.45
3:BK:63:LEU:O	3:BK:87:VAL:HG12	2.17	0.45
3:BM:66:PRO:CB	3:BM:84:THR:HG22	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BN:118:MET:H	3:BN:118:MET:HG3	1.63	0.45
3:BO:25:ILE:CD1	3:BO:30:GLY:HA2	2.47	0.45
3:BQ:7:VAL:CG1	3:BQ:17:ASP:HB2	2.47	0.45
3:BR:66:PRO:HB3	3:BR:84:THR:OG1	2.17	0.45
3:BR:68:VAL:CG2	3:BR:81:VAL:HG22	2.47	0.45
3:Bb:10:ASP:HB3	3:Bb:12:GLU:OE1	2.17	0.45
3:Bh:72:THR:HA	3:Bh:76:ILE:O	2.17	0.45
3:Bk:20:PHE:CD2	3:Bk:34:GLU:HB2	2.52	0.45
3:Bn:41:GLY:CA	3:Bn:66:PRO:HG2	2.47	0.45
3:By:32:VAL:CG1	3:By:45:PHE:HB3	2.47	0.45
3:B1:105:PHE:HE2	3:B2:87:VAL:HG11	1.82	0.45
3:B4:98:THR:HG22	3:B4:100:LYS:H	1.81	0.45
3:B7:63:LEU:HB3	3:B7:87:VAL:CG1	2.47	0.45
3:CB:94:ASP:OD1	3:CB:95:ALA:N	2.50	0.45
3:CC:20:PHE:HB3	3:CC:32:VAL:HG22	1.99	0.45
3:CM:106:VAL:HG21	3:CN:125:VAL:CG2	2.47	0.45
3:CP:39:PRO:HA	3:CP:42:GLU:CD	2.42	0.45
3:0:128:GLN:HB3	3:9:1:ALA:N	2.32	0.45
3:0:131:TYR:CZ	3:9:1:ALA:HA	2.52	0.45
3:3:10:ASP:OD2	3:3:16:ASN:HB2	2.17	0.45
3:3:36:THR:OG1	3:3:37:GLY:N	2.42	0.45
3:5:106:VAL:CG2	3:6:124:ILE:HG13	2.47	0.45
3:6:29:VAL:HA	3:6:48:SER:HB3	1.97	0.45
3:7:3:LEU:HD12	3:8:119:LEU:HD11	1.99	0.45
3:8:20:PHE:HB3	3:8:32:VAL:CG2	2.47	0.45
3:8:32:VAL:HG12	3:8:45:PHE:HB3	1.99	0.45
3:B:48:SER:OG	3:B:60:THR:HB	2.17	0.45
3:C:92:ASP:CB	3:D:86:TYR:HB2	2.46	0.45
3:C:98:THR:HG22	3:C:101:GLU:HG3	1.99	0.45
3:E:61:LEU:HD11	3:Bb:124:ILE:HD11	1.99	0.45
3:R:49:LEU:HD12	3:R:58:LYS:O	2.17	0.45
3:U:40:ILE:HD12	3:Bv:96:ARG:HG2	1.99	0.45
3:U:74:ASN:HB3	3:Bu:71:GLN:HE21	1.81	0.45
3:V:7:VAL:HA	3:V:18:HIS:O	2.17	0.45
3:W:96:ARG:HG3	3:CH:40:ILE:HD11	1.98	0.45
3:X:64:VAL:HG13	3:X:85:SER:O	2.16	0.45
3:X:73:VAL:O	3:X:76:ILE:HG12	2.16	0.45
3:Y:12:GLU:OE1	3:Y:12:GLU:N	2.49	0.45
3:d:71:GLN:HE22	3:d:73:VAL:HG22	1.82	0.45
3:i:49:LEU:HD22	3:j:123:THR:HG23	1.98	0.45
3:i:72:THR:HA	3:i:76:ILE:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:j:22:PRO:HA	3:j:32:VAL:HA	1.99	0.45
3:m:32:VAL:CG1	3:m:45:PHE:HB3	2.47	0.45
3:m:96:ARG:HA	3:BB:38:VAL:HG21	1.99	0.45
3:o:104:ASN:HD22	3:p:10:ASP:HB2	1.82	0.45
3:s:130:VAL:HG11	3:t:30:GLY:N	2.32	0.45
3:v:72:THR:HA	3:v:76:ILE:O	2.17	0.45
3:w:7:VAL:HA	3:w:18:HIS:O	2.17	0.45
3:x:35:SER:HB3	3:x:42:GLU:CB	2.47	0.45
3:x:52:THR:HG21	3:x:58:LYS:HE3	1.99	0.45
3:z:69:GLN:O	3:z:79:PRO:HA	2.16	0.45
3:G:23:ARG:NH2	3:G:33:VAL:HG11	2.32	0.45
3:I:23:ARG:HB3	3:I:31:GLU:O	2.17	0.45
3:K:41:GLY:HA3	3:K:68:VAL:CG2	2.47	0.45
3:M:68:VAL:CG1	3:M:81:VAL:HG22	2.46	0.45
3:AB:20:PHE:HB3	3:AB:32:VAL:CG1	2.47	0.45
3:AB:42:GLU:O	3:AB:44:ARG:NH1	2.50	0.45
3:AC:47:ILE:HD13	3:AC:61:LEU:HD13	1.99	0.45
3:AQ:63:LEU:O	3:AQ:87:VAL:HG12	2.17	0.45
3:AU:37:GLY:O	3:AU:39:PRO:HD3	2.17	0.45
3:AU:94:ASP:OD1	3:AU:95:ALA:N	2.50	0.45
3:AY:98:THR:O	3:AY:102:ARG:HG3	2.16	0.45
3:AY:127:LEU:HD23	3:AZ:102:ARG:NH1	2.31	0.45
3:AZ:38:VAL:O	3:AZ:40:ILE:N	2.50	0.45
3:AZ:57:TYR:O	3:AZ:92:ASP:HA	2.17	0.45
3:Af:98:THR:HB	3:Af:101:GLU:OE1	2.17	0.45
3:Af:98:THR:O	3:Af:102:ARG:HG3	2.17	0.45
3:Ag:44:ARG:O	3:Ag:63:LEU:HD12	2.17	0.45
3:Av:102:ARG:O	3:Av:106:VAL:HG23	2.17	0.45
3:Aw:8:LEU:HG	3:Aw:20:PHE:HE1	1.82	0.45
3:A2:113:LEU:HB3	3:A2:120:VAL:HG11	1.99	0.45
3:A5:61:LEU:HD11	3:A6:124:ILE:HD11	1.99	0.45
3:A7:38:VAL:HG12	3:A7:40:ILE:CG1	2.43	0.45
3:A8:123:THR:O	3:A8:127:LEU:HA	2.15	0.45
3:A0:120:VAL:HA	3:A0:123:THR:HG22	1.98	0.45
3:BE:49:LEU:HD12	3:BE:58:LYS:O	2.17	0.45
3:BF:47:ILE:CD1	3:BF:61:LEU:HG	2.47	0.45
3:BJ:31:GLU:HA	3:BJ:45:PHE:O	2.16	0.45
3:BJ:102:ARG:O	3:BJ:106:VAL:HG23	2.16	0.45
3:BL:24:ASP:OD2	3:Bj:129:GLY:HA3	2.17	0.45
3:BN:25:ILE:HG23	3:BN:29:VAL:N	2.31	0.45
3:BQ:1:ALA:HA	3:BR:131:TYR:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BQ:7:VAL:HG13	3:BQ:17:ASP:HB2	1.99	0.45
3:Bi:8:LEU:HD23	3:Bi:20:PHE:CE1	2.52	0.45
3:Bn:72:THR:HB	3:Bn:77:VAL:HG22	1.99	0.45
3:By:61:LEU:O	3:By:88:THR:HA	2.17	0.45
3:By:72:THR:HA	3:By:76:ILE:O	2.16	0.45
3:By:94:ASP:HB3	3:Bz:83:ARG:HD2	1.99	0.45
3:B7:106:VAL:HG12	3:B8:113:LEU:HD12	1.99	0.45
3:CA:3:LEU:HD11	3:CA:22:PRO:HB3	1.97	0.45
3:CA:4:GLN:CD	3:CB:119:LEU:HD12	2.42	0.45
3:0:105:PHE:CE2	3:9:87:VAL:HB	2.52	0.44
3:3:99:THR:OG1	3:B0:37:GLY:O	2.31	0.44
3:8:123:THR:O	3:8:127:LEU:HA	2.17	0.44
3:B:98:THR:O	3:B:102:ARG:HG3	2.16	0.44
3:C:35:SER:HB2	3:C:42:GLU:HB3	2.00	0.44
3:V:120:VAL:O	3:V:124:ILE:HG22	2.17	0.44
3:X:33:VAL:CG1	3:X:42:GLU:HG3	2.47	0.44
3:d:9:LYS:NZ	3:d:16:ASN:O	2.43	0.44
3:g:69:GLN:NE2	3:g:82:VAL:HG21	2.32	0.44
3:j:44:ARG:CG	3:j:64:VAL:HB	2.47	0.44
3:k:25:ILE:HG22	3:Av:28:ASN:OD1	2.17	0.44
3:m:63:LEU:HD23	3:m:64:VAL:N	2.32	0.44
3:q:46:THR:HB	3:q:62:LYS:CG	2.48	0.44
3:q:72:THR:HA	3:q:76:ILE:O	2.17	0.44
3:r:104:ASN:O	3:r:108:MET:HG2	2.16	0.44
3:s:82:VAL:HG23	3:s:83:ARG:HG2	1.99	0.44
3:t:82:VAL:HG23	3:t:83:ARG:HG2	1.99	0.44
3:J:24:ASP:HA	3:CH:131:TYR:CD1	2.51	0.44
3:N:119:LEU:HD23	3:N:119:LEU:O	2.17	0.44
3:AA:110:ALA:HB2	3:AB:113:LEU:CD1	2.38	0.44
3:AP:38:VAL:HG11	3:AP:79:PRO:HG3	1.99	0.44
3:AT:52:THR:HG22	3:AT:56:ARG:O	2.17	0.44
3:AV:12:GLU:OE1	3:AV:12:GLU:N	2.49	0.44
3:AY:44:ARG:HH21	3:AY:64:VAL:HG11	1.82	0.44
3:Aq:25:ILE:O	3:CN:28:ASN:ND2	2.47	0.44
3:Ar:10:ASP:OD2	3:Ar:16:ASN:ND2	2.50	0.44
3:Av:49:LEU:HD12	3:Av:58:LYS:O	2.17	0.44
3:A4:48:SER:OG	3:A4:60:THR:HB	2.17	0.44
3:A4:66:PRO:HB3	3:A4:84:THR:OG1	2.17	0.44
3:A6:71:GLN:OE1	3:A6:73:VAL:HG23	2.17	0.44
3:A9:7:VAL:HG13	3:A9:17:ASP:HB2	1.98	0.44
3:BA:49:LEU:HD12	3:BB:129:GLY:HA2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:117:LYS:HD2	3:BB:6:LEU:CD1	2.47	0.44
3:BE:91:PHE:CD1	3:BF:87:VAL:HG12	2.52	0.44
3:BF:20:PHE:CD1	3:BF:34:GLU:HB2	2.52	0.44
3:BN:7:VAL:O	3:BN:8:LEU:HD13	2.17	0.44
3:BO:9:LYS:O	3:BP:108:MET:HG2	2.16	0.44
3:BQ:63:LEU:O	3:BQ:87:VAL:HG12	2.18	0.44
3:BQ:94:ASP:OD1	3:BQ:95:ALA:N	2.50	0.44
3:BS:63:LEU:HB3	3:BS:87:VAL:CG1	2.47	0.44
3:BV:52:THR:HG21	3:BV:56:ARG:HB2	1.98	0.44
3:BV:98:THR:HG22	3:BV:100:LYS:H	1.81	0.44
3:BY:130:VAL:CG1	3:BZ:25:ILE:HD13	2.47	0.44
3:Bd:49:LEU:HD12	3:Bd:58:LYS:O	2.17	0.44
3:Bl:34:GLU:HB3	3:Bl:43:SER:HB2	1.99	0.44
3:Bm:49:LEU:HD11	3:Bn:123:THR:CG2	2.47	0.44
3:Bn:25:ILE:HA	3:Bn:29:VAL:O	2.17	0.44
3:Bn:98:THR:HG22	3:Bn:100:LYS:H	1.82	0.44
3:Bu:89:VAL:CG1	3:Bv:89:VAL:HG13	2.46	0.44
3:Bw:21:VAL:C	3:Bw:32:VAL:HG23	2.42	0.44
3:Bx:21:VAL:HG22	3:Bx:34:GLU:HA	1.98	0.44
3:B1:8:LEU:HD23	3:B1:20:PHE:HE1	1.82	0.44
3:B3:21:VAL:C	3:B3:32:VAL:HG23	2.42	0.44
3:B7:68:VAL:HG23	3:B7:80:VAL:C	2.42	0.44
3:B9:66:PRO:CA	3:B9:84:THR:HG22	2.47	0.44
3:CD:113:LEU:HD23	3:CD:113:LEU:H	1.81	0.44
3:CK:127:LEU:HD21	3:CL:93:TYR:CD2	2.45	0.44
3:CL:20:PHE:HB3	3:CL:32:VAL:HG12	1.99	0.44
3:CN:60:THR:HA	3:CN:89:VAL:O	2.17	0.44
3:CP:7:VAL:HB	3:CP:17:ASP:OD1	2.17	0.44
3:CR:59:SER:OG	3:CR:91:PHE:HB2	2.16	0.44
3:CS:51:LYS:HG2	3:CS:57:TYR:CD1	2.52	0.44
3:0:7:VAL:CG1	3:0:17:ASP:HB2	2.47	0.44
3:2:72:THR:HA	3:2:76:ILE:O	2.17	0.44
3:3:66:PRO:CA	3:3:84:THR:HG22	2.46	0.44
3:5:83:ARG:NH2	3:6:101:GLU:OE2	2.49	0.44
3:O:29:VAL:HA	3:O:48:SER:OG	2.17	0.44
3:P:25:ILE:CD1	3:P:30:GLY:HA2	2.47	0.44
3:Q:8:LEU:CD2	3:R:112:ALA:HB2	2.45	0.44
3:Q:40:ILE:HG21	3:Q:79:PRO:CG	2.42	0.44
3:S:72:THR:HA	3:S:76:ILE:O	2.18	0.44
3:b:24:ASP:HA	3:Bx:131:TYR:CD1	2.51	0.44
3:c:117:LYS:HG2	3:d:6:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:g:71:GLN:HB3	3:g:71:GLN:HE21	1.64	0.44
3:g:82:VAL:HG23	3:g:83:ARG:HG2	1.99	0.44
3:g:99:THR:OG1	3:g:102:ARG:NH2	2.50	0.44
3:i:121:HIS:CE1	3:i:125:VAL:HG21	2.52	0.44
3:j:72:THR:CA	3:j:77:VAL:HG22	2.47	0.44
3:q:127:LEU:HD13	3:r:102:ARG:NH1	2.32	0.44
3:v:23:ARG:HG3	3:v:24:ASP:OD1	2.17	0.44
3:x:3:LEU:HD21	3:x:22:PRO:HB2	1.99	0.44
3:K:56:ARG:HG3	3:K:93:TYR:O	2.16	0.44
3:M:98:THR:HG1	3:M:101:GLU:HG3	1.82	0.44
3:N:39:PRO:HA	3:N:42:GLU:OE2	2.17	0.44
3:AB:57:TYR:O	3:AB:92:ASP:HA	2.17	0.44
3:AB:59:SER:O	3:AB:90:ASP:HA	2.17	0.44
3:AW:27:ASP:O	3:AW:29:VAL:HG23	2.17	0.44
3:AY:36:THR:HG1	3:AY:37:GLY:H	1.65	0.44
3:AZ:68:VAL:HG13	3:AZ:80:VAL:O	2.17	0.44
3:Ad:122:ASP:O	3:Ad:127:LEU:N	2.49	0.44
3:Ae:24:ASP:HB3	3:Ah:129:GLY:HA3	1.99	0.44
3:Ag:118:MET:H	3:Ag:118:MET:HG3	1.63	0.44
3:Ag:130:VAL:HG11	3:Ah:30:GLY:CA	2.43	0.44
3:Aj:67:VAL:O	3:Aj:82:VAL:HG22	2.17	0.44
3:Aj:112:ALA:O	3:Aj:120:VAL:HG21	2.17	0.44
3:Aj:122:ASP:HB2	3:Aj:128:GLN:CB	2.47	0.44
3:Ak:52:THR:HG22	3:Ak:57:TYR:HA	1.99	0.44
3:Ao:52:THR:HB	3:Ao:54:ASN:OD1	2.17	0.44
3:As:4:GLN:CD	3:At:119:LEU:HD12	2.42	0.44
3:Aw:24:ASP:HB2	3:A8:28:ASN:CG	2.42	0.44
3:Ax:32:VAL:CG2	3:Ax:45:PHE:HB3	2.45	0.44
3:Ay:63:LEU:O	3:Ay:87:VAL:HG12	2.18	0.44
3:A1:58:LYS:HA	3:A1:91:PHE:O	2.18	0.44
3:BA:36:THR:HG23	3:BA:38:VAL:H	1.82	0.44
3:BE:57:TYR:O	3:BE:92:ASP:HA	2.17	0.44
3:BG:35:SER:HB2	3:BG:42:GLU:HB3	2.00	0.44
3:BG:61:LEU:HB2	3:BG:89:VAL:HG23	1.99	0.44
3:BG:122:ASP:OD1	3:BG:126:ASN:ND2	2.47	0.44
3:BI:32:VAL:O	3:BI:44:ARG:HA	2.17	0.44
3:BJ:25:ILE:HG22	3:BN:28:ASN:OD1	2.17	0.44
3:BL:20:PHE:CD1	3:BL:34:GLU:HB2	2.52	0.44
3:BN:23:ARG:HA	3:CD:128:GLN:HE22	1.81	0.44
3:BO:49:LEU:HD11	3:BO:57:TYR:HB3	1.99	0.44
3:BR:31:GLU:OE1	3:BR:33:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bb:68:VAL:HG13	3:Bb:80:VAL:C	2.42	0.44
3:Bj:34:GLU:O	3:Bj:42:GLU:HB2	2.17	0.44
3:Bv:33:VAL:HG13	3:Bv:43:SER:O	2.16	0.44
3:By:7:VAL:CG1	3:By:17:ASP:HB2	2.47	0.44
3:B1:4:GLN:NE2	3:B2:119:LEU:HD12	2.32	0.44
3:B1:20:PHE:HA	3:B1:34:GLU:HB2	1.99	0.44
3:B1:38:VAL:O	3:B1:40:ILE:N	2.50	0.44
3:B1:44:ARG:O	3:B1:63:LEU:HA	2.17	0.44
3:B6:121:HIS:O	3:B6:125:VAL:HB	2.17	0.44
3:B8:94:ASP:OD1	3:B8:95:ALA:N	2.50	0.44
3:CC:127:LEU:HD23	3:CD:57:TYR:CD1	2.52	0.44
3:CD:52:THR:HG23	3:CD:54:ASN:H	1.83	0.44
3:CP:98:THR:HG22	3:CP:100:LYS:H	1.81	0.44
3:CQ:97:SER:HA	3:CR:83:ARG:NE	2.33	0.44
3:CS:97:SER:O	3:CS:102:ARG:NH1	2.50	0.44
3:0:98:THR:HA	3:CK:37:GLY:O	2.17	0.44
3:1:59:SER:O	3:1:90:ASP:HA	2.18	0.44
3:6:56:ARG:HD3	3:6:92:ASP:OD1	2.17	0.44
3:A:4:GLN:NE2	3:B:118:MET:SD	2.90	0.44
3:A:124:ILE:HG23	3:A:125:VAL:HG23	1.98	0.44
3:C:62:LYS:HE3	3:C:88:THR:OG1	2.17	0.44
3:D:7:VAL:HG13	3:D:18:HIS:C	2.42	0.44
3:E:37:GLY:O	3:E:39:PRO:HD3	2.17	0.44
3:O:86:TYR:HB2	3:P:92:ASP:OD2	2.17	0.44
3:P:94:ASP:OD1	3:P:95:ALA:N	2.50	0.44
3:Q:6:LEU:O	3:Q:19:THR:HA	2.17	0.44
3:R:25:ILE:HA	3:R:29:VAL:O	2.17	0.44
3:X:118:MET:H	3:X:118:MET:HG3	1.63	0.44
3:e:83:ARG:NE	3:f:101:GLU:OE2	2.49	0.44
3:k:104:ASN:ND2	3:l:11:ARG:O	2.50	0.44
3:m:2:GLN:HA	3:n:131:TYR:OXT	2.18	0.44
3:n:98:THR:HG22	3:n:100:LYS:H	1.81	0.44
3:o:3:LEU:CD1	3:p:119:LEU:HD21	2.47	0.44
3:t:29:VAL:HG22	3:t:48:SER:CB	2.47	0.44
3:t:46:THR:OG1	3:t:62:LYS:HB3	2.17	0.44
3:w:111:ASP:OD2	3:x:8:LEU:HA	2.17	0.44
3:G:129:GLY:HA3	3:A7:24:ASP:CG	2.42	0.44
3:M:98:THR:HG22	3:BF:38:VAL:CG2	2.47	0.44
3:AP:49:LEU:HD12	3:AP:58:LYS:O	2.17	0.44
3:AP:52:THR:OG1	3:AP:53:SER:N	2.43	0.44
3:AQ:32:VAL:HG22	3:AQ:45:PHE:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AV:61:LEU:O	3:AV:88:THR:HA	2.18	0.44
3:Aa:40:ILE:HD12	3:B2:96:ARG:CD	2.47	0.44
3:Ac:45:PHE:HA	3:Ac:62:LYS:O	2.17	0.44
3:Ae:71:GLN:NE2	3:Ae:78:THR:O	2.50	0.44
3:Ae:122:ASP:HA	3:Ae:126:ASN:HB2	1.98	0.44
3:Ae:127:LEU:HD13	3:Af:102:ARG:NH1	2.32	0.44
3:Ag:123:THR:HA	3:Ag:128:GLN:HB2	1.99	0.44
3:Aq:3:LEU:HD21	3:Ar:130:VAL:CG1	2.47	0.44
3:Aq:24:ASP:HB2	3:CN:28:ASN:ND2	2.32	0.44
3:Ar:71:GLN:OE1	3:Ar:73:VAL:HG23	2.17	0.44
3:Au:66:PRO:CB	3:Au:84:THR:HG22	2.47	0.44
3:Aw:64:VAL:HG12	3:Aw:66:PRO:HD3	2.00	0.44
3:A0:52:THR:HG22	3:A0:56:ARG:O	2.17	0.44
3:BB:46:THR:HB	3:BB:62:LYS:HB2	1.99	0.44
3:BD:99:THR:OG1	3:Bu:37:GLY:HA2	2.17	0.44
3:BE:66:PRO:CA	3:BE:84:THR:HG22	2.44	0.44
3:BK:38:VAL:O	3:BK:40:ILE:N	2.50	0.44
3:BM:37:GLY:HA2	3:BO:99:THR:OG1	2.18	0.44
3:BO:131:TYR:CE1	3:BP:1:ALA:HB3	2.52	0.44
3:BR:43:SER:HA	3:BR:64:VAL:O	2.17	0.44
3:BV:41:GLY:CA	3:BV:66:PRO:HG2	2.48	0.44
3:BV:69:GLN:O	3:BV:79:PRO:HA	2.17	0.44
3:Bi:30:GLY:HA3	3:Bj:130:VAL:HG21	1.99	0.44
3:Bm:121:HIS:HA	3:Bm:124:ILE:CG2	2.47	0.44
3:Bv:22:PRO:HA	3:Bv:32:VAL:HA	2.00	0.44
3:Bw:20:PHE:HB3	3:Bw:32:VAL:HG22	1.99	0.44
3:By:106:VAL:HG21	3:Bz:125:VAL:CG2	2.47	0.44
3:B2:38:VAL:O	3:B2:40:ILE:N	2.50	0.44
3:B3:45:PHE:HA	3:B3:62:LYS:O	2.18	0.44
3:B9:6:LEU:HG	3:B9:8:LEU:HD21	1.98	0.44
3:CB:47:ILE:HD12	3:CB:61:LEU:HG	1.98	0.44
3:CK:3:LEU:HB3	3:CK:22:PRO:CG	2.47	0.44
3:0:33:VAL:HG22	3:0:44:ARG:HG2	1.99	0.44
3:3:72:THR:HA	3:3:76:ILE:O	2.17	0.44
3:5:8:LEU:HD13	3:6:108:MET:O	2.18	0.44
3:7:66:PRO:CA	3:7:84:THR:HG22	2.43	0.44
3:B:68:VAL:HG22	3:B:81:VAL:HA	2.00	0.44
3:C:36:THR:OG1	3:C:37:GLY:N	2.39	0.44
3:P:67:VAL:O	3:P:82:VAL:HG22	2.17	0.44
3:Q:23:ARG:CG	3:Q:33:VAL:HG22	2.47	0.44
3:R:25:ILE:HD13	3:R:30:GLY:HA2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:8:LEU:HD12	3:T:111:ASP:O	2.17	0.44
3:T:38:VAL:HG11	3:T:79:PRO:HG3	1.99	0.44
3:T:96:ARG:HH12	3:Z:80:VAL:HG12	1.82	0.44
3:U:102:ARG:O	3:U:106:VAL:HG23	2.17	0.44
3:W:46:THR:HB	3:W:62:LYS:CG	2.47	0.44
3:W:129:GLY:O	3:X:1:ALA:HA	2.18	0.44
3:d:6:LEU:O	3:d:20:PHE:N	2.36	0.44
3:d:31:GLU:HA	3:d:45:PHE:O	2.17	0.44
3:f:43:SER:HA	3:f:64:VAL:O	2.16	0.44
3:f:52:THR:OG1	3:f:53:SER:N	2.40	0.44
3:g:113:LEU:HD12	3:h:113:LEU:HD12	1.99	0.44
3:h:29:VAL:HG22	3:h:48:SER:CB	2.48	0.44
3:i:11:ARG:HH12	3:i:114:LYS:HA	1.82	0.44
3:j:47:ILE:CD1	3:j:61:LEU:HG	2.48	0.44
3:j:49:LEU:HD12	3:j:58:LYS:O	2.17	0.44
3:l:32:VAL:O	3:l:44:ARG:HA	2.18	0.44
3:o:33:VAL:HG13	3:o:42:GLU:HG3	1.99	0.44
3:p:72:THR:HG22	3:p:75:GLY:H	1.82	0.44
3:q:63:LEU:HB3	3:q:87:VAL:CG1	2.47	0.44
3:s:51:LYS:NZ	3:s:52:THR:O	2.49	0.44
3:t:121:HIS:NE2	3:t:125:VAL:HG21	2.33	0.44
3:x:25:ILE:CD1	3:x:30:GLY:HA2	2.47	0.44
3:x:38:VAL:HG12	3:x:40:ILE:HG22	1.98	0.44
3:y:8:LEU:HD23	3:y:20:PHE:CE1	2.52	0.44
3:G:20:PHE:HA	3:G:34:GLU:HG2	1.98	0.44
3:H:23:ARG:NH2	3:H:33:VAL:HG11	2.33	0.44
3:N:34:GLU:CB	3:N:43:SER:HB2	2.45	0.44
3:AU:65:VAL:HG21	3:AV:108:MET:CE	2.44	0.44
3:AW:82:VAL:HG23	3:AW:83:ARG:HG2	2.00	0.44
3:AZ:72:THR:HA	3:AZ:76:ILE:O	2.18	0.44
3:Ae:9:LYS:NZ	3:Ae:17:ASP:OD1	2.38	0.44
3:Aj:31:GLU:HA	3:Aj:45:PHE:O	2.18	0.44
3:Ax:33:VAL:HG13	3:Ax:42:GLU:HG3	1.98	0.44
3:A3:89:VAL:HG12	3:A4:89:VAL:CG1	2.42	0.44
3:A3:123:THR:HG23	3:A4:49:LEU:HD12	1.99	0.44
3:A4:38:VAL:CG1	3:A4:40:ILE:HD13	2.47	0.44
3:A6:72:THR:HA	3:A6:76:ILE:O	2.16	0.44
3:BC:38:VAL:HG12	3:BC:40:ILE:HG22	2.00	0.44
3:BC:71:GLN:NE2	3:BC:78:THR:O	2.51	0.44
3:BK:9:LYS:NZ	3:BK:16:ASN:O	2.49	0.44
3:BK:111:ASP:OD2	3:BL:9:LYS:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:44:ARG:NH2	3:BM:64:VAL:HG11	2.32	0.44
3:BM:61:LEU:O	3:BM:88:THR:HA	2.17	0.44
3:BO:4:GLN:NE2	3:BP:118:MET:SD	2.90	0.44
3:BP:68:VAL:CG1	3:BP:79:PRO:HB2	2.47	0.44
3:BQ:69:GLN:OE1	3:BY:76:ILE:HG23	2.17	0.44
3:Bg:20:PHE:CD2	3:Bg:34:GLU:HB2	2.53	0.44
3:Bk:8:LEU:CD2	3:Bl:112:ALA:HA	2.47	0.44
3:Bm:6:LEU:HB3	3:Bm:20:PHE:HB2	1.99	0.44
3:Bn:57:TYR:O	3:Bn:92:ASP:HA	2.17	0.44
3:Bw:44:ARG:O	3:Bw:63:LEU:HA	2.18	0.44
3:Bw:112:ALA:O	3:Bw:117:LYS:HG3	2.17	0.44
3:Bz:29:VAL:HG13	3:Bz:48:SER:HB3	1.98	0.44
3:Bz:49:LEU:HD12	3:Bz:58:LYS:O	2.17	0.44
3:B3:9:LYS:HD2	3:B3:16:ASN:O	2.18	0.44
3:B5:23:ARG:HB2	3:B5:31:GLU:O	2.17	0.44
3:B0:113:LEU:HA	3:B0:120:VAL:HG11	2.00	0.44
3:CK:7:VAL:HG13	3:CK:17:ASP:HB2	1.98	0.44
3:CO:62:LYS:HD2	3:CO:87:VAL:O	2.15	0.44
3:0:129:GLY:HA3	3:7:24:ASP:CG	2.43	0.44
3:1:97:SER:O	3:y:38:VAL:HG22	2.18	0.44
3:A:90:ASP:OD1	3:B:88:THR:OG1	2.32	0.44
3:B:30:GLY:O	3:B:46:THR:HA	2.18	0.44
3:Q:49:LEU:HD12	3:Q:58:LYS:O	2.17	0.44
3:T:23:ARG:HD3	3:T:33:VAL:HB	2.00	0.44
3:V:72:THR:OG1	3:V:77:VAL:HG22	2.17	0.44
3:X:28:ASN:ND2	3:d:25:ILE:O	2.44	0.44
3:c:72:THR:HA	3:c:76:ILE:O	2.18	0.44
3:g:49:LEU:HD12	3:g:58:LYS:O	2.18	0.44
3:i:8:LEU:HD11	3:j:112:ALA:HA	2.00	0.44
3:i:64:VAL:HA	3:i:85:SER:O	2.17	0.44
3:n:35:SER:HA	3:n:42:GLU:HG3	2.00	0.44
3:q:18:HIS:HB3	3:q:34:GLU:OE1	2.18	0.44
3:q:25:ILE:HG22	3:q:30:GLY:HA2	2.00	0.44
3:r:38:VAL:HG22	3:r:40:ILE:H	1.83	0.44
3:u:102:ARG:HD2	3:v:127:LEU:HD11	2.00	0.44
3:v:63:LEU:O	3:v:87:VAL:HG22	2.18	0.44
3:AC:71:GLN:NE2	3:AC:78:THR:HB	2.32	0.44
3:AP:94:ASP:OD1	3:AP:95:ALA:N	2.50	0.44
3:AU:61:LEU:HB2	3:AU:89:VAL:HG23	1.98	0.44
3:AY:3:LEU:CD2	3:AY:22:PRO:HB3	2.47	0.44
3:AY:45:PHE:HA	3:AY:62:LYS:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ad:38:VAL:O	3:Ad:40:ILE:N	2.50	0.44
3:Ah:9:LYS:NZ	3:Ah:17:ASP:OD1	2.48	0.44
3:Ai:47:ILE:HG22	3:Ai:61:LEU:CD1	2.46	0.44
3:Al:97:SER:O	3:B9:38:VAL:HG22	2.18	0.44
3:An:9:LYS:HE2	3:An:15:PRO:HB2	1.99	0.44
3:Ap:122:ASP:O	3:Ap:126:ASN:HB2	2.18	0.44
3:As:8:LEU:HD23	3:As:20:PHE:CE1	2.52	0.44
3:Au:46:THR:HB	3:Au:62:LYS:HB2	1.99	0.44
3:Au:121:HIS:HA	3:Au:124:ILE:HG22	1.98	0.44
3:Av:119:LEU:HD23	3:Av:119:LEU:O	2.17	0.44
3:Ay:71:GLN:NE2	3:Ay:78:THR:O	2.50	0.44
3:A1:72:THR:HA	3:A1:76:ILE:O	2.17	0.44
3:A1:123:THR:O	3:A1:127:LEU:HA	2.17	0.44
3:A7:9:LYS:HD2	3:A7:15:PRO:HB3	1.99	0.44
3:BD:14:THR:HG23	3:BD:16:ASN:OD1	2.17	0.44
3:BG:89:VAL:HG12	3:BH:89:VAL:HG13	1.98	0.44
3:BM:64:VAL:HG12	3:BM:66:PRO:HD3	1.99	0.44
3:BM:94:ASP:OD1	3:BM:95:ALA:N	2.51	0.44
3:BP:7:VAL:HG13	3:BP:17:ASP:HB2	1.99	0.44
3:BP:121:HIS:NE2	3:BP:125:VAL:HG21	2.32	0.44
3:BY:22:PRO:HA	3:BY:32:VAL:HA	1.98	0.44
3:Bc:24:ASP:HB2	3:B4:28:ASN:CG	2.42	0.44
3:Bg:22:PRO:HA	3:Bg:32:VAL:HA	1.99	0.44
3:Bh:33:VAL:CG1	3:Bh:42:GLU:HB2	2.47	0.44
3:Bi:45:PHE:HD1	3:Bi:63:LEU:HD12	1.81	0.44
3:Bj:23:ARG:NH1	3:Bj:24:ASP:OD2	2.50	0.44
3:Bm:94:ASP:OD1	3:Bm:95:ALA:N	2.50	0.44
3:Bv:71:GLN:O	3:Bv:77:VAL:HG13	2.17	0.44
3:B1:7:VAL:HA	3:B1:18:HIS:O	2.16	0.44
3:B5:8:LEU:HD23	3:B5:20:PHE:HE1	1.82	0.44
3:B6:33:VAL:HG22	3:B6:44:ARG:HG2	1.99	0.44
3:CA:37:GLY:O	3:CA:39:PRO:HD3	2.18	0.44
3:CB:22:PRO:HA	3:CB:32:VAL:HA	2.00	0.44
3:CD:118:MET:HB2	3:CD:122:ASP:OD2	2.16	0.44
3:CI:63:LEU:HB3	3:CI:87:VAL:CG1	2.47	0.44
3:CR:114:LYS:HB3	3:CR:116:ASP:OD1	2.18	0.44
3:CT:54:ASN:ND2	3:CT:56:ARG:HG2	2.33	0.44
3:0:71:GLN:O	3:0:78:THR:N	2.36	0.44
3:3:31:GLU:HA	3:3:45:PHE:O	2.18	0.44
3:4:25:ILE:HA	3:4:29:VAL:O	2.17	0.44
3:4:45:PHE:HA	3:4:62:LYS:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:49:LEU:CD1	3:P:59:SER:HB3	2.48	0.44
3:U:114:LYS:HD3	3:U:115:ALA:N	2.32	0.44
3:Y:121:HIS:CE1	3:Y:125:VAL:HG21	2.53	0.44
3:b:47:ILE:CD1	3:b:61:LEU:HG	2.47	0.44
3:f:52:THR:HG22	3:f:56:ARG:O	2.18	0.44
3:j:34:GLU:HB3	3:j:43:SER:H	1.82	0.44
3:n:39:PRO:HA	3:n:42:GLU:CD	2.42	0.44
3:q:117:LYS:HD2	3:r:6:LEU:CD1	2.47	0.44
3:s:124:ILE:HG23	3:s:125:VAL:HG23	1.98	0.44
3:t:24:ASP:HB2	3:z:28:ASN:ND2	2.32	0.44
3:w:22:PRO:HA	3:w:32:VAL:HA	1.98	0.44
3:z:112:ALA:O	3:z:120:VAL:HG21	2.18	0.44
3:J:57:TYR:O	3:J:92:ASP:HA	2.17	0.44
3:K:23:ARG:NH2	3:K:33:VAL:HG21	2.33	0.44
3:M:36:THR:OG1	3:M:37:GLY:N	2.44	0.44
3:M:119:LEU:HB2	3:N:4:GLN:NE2	2.32	0.44
3:N:129:GLY:HA3	3:BF:24:ASP:OD2	2.17	0.44
3:AA:63:LEU:O	3:AA:87:VAL:HG12	2.18	0.44
3:AC:51:LYS:HD3	3:AC:57:TYR:CE1	2.53	0.44
3:AC:86:TYR:HB2	3:AD:92:ASP:HB3	1.98	0.44
3:AD:118:MET:H	3:AD:118:MET:HG3	1.63	0.44
3:AO:68:VAL:HG12	3:AO:81:VAL:HG22	2.00	0.44
3:AQ:32:VAL:O	3:AQ:44:ARG:HA	2.18	0.44
3:AT:68:VAL:HG11	3:AT:79:PRO:HB2	2.00	0.44
3:AV:63:LEU:O	3:AV:87:VAL:HG22	2.18	0.44
3:AZ:67:VAL:O	3:AZ:82:VAL:HG22	2.17	0.44
3:Ab:68:VAL:HG22	3:Ab:81:VAL:HG22	2.00	0.44
3:Ae:11:ARG:NH2	3:Ae:114:LYS:HA	2.33	0.44
3:Ag:4:GLN:NE2	3:Ah:119:LEU:HB2	2.33	0.44
3:Ai:24:ASP:OD2	3:Al:129:GLY:HA3	2.18	0.44
3:Ai:25:ILE:HG13	3:Ai:29:VAL:C	2.41	0.44
3:Aj:25:ILE:HA	3:Aj:29:VAL:O	2.18	0.44
3:Ar:96:ARG:HA	3:CO:40:ILE:HD11	1.99	0.44
3:As:66:PRO:CA	3:As:84:THR:HG22	2.42	0.44
3:Au:94:ASP:OD1	3:Au:95:ALA:N	2.50	0.44
3:Ax:38:VAL:HG12	3:Ax:40:ILE:HG22	1.99	0.44
3:Az:31:GLU:HA	3:Az:46:THR:HA	1.98	0.44
3:A1:39:PRO:HA	3:A1:42:GLU:OE2	2.17	0.44
3:A5:119:LEU:HD23	3:A6:6:LEU:HB2	1.99	0.44
3:A8:71:GLN:HE21	3:A8:78:THR:HB	1.82	0.44
3:A9:23:ARG:HB3	3:A9:31:GLU:CG	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:37:GLY:O	3:BC:98:THR:HA	2.18	0.44
3:BC:69:GLN:NE2	3:BC:82:VAL:HG21	2.33	0.44
3:BJ:20:PHE:HB3	3:BJ:32:VAL:HG21	1.98	0.44
3:BP:118:MET:SD	3:BP:118:MET:N	2.76	0.44
3:BR:68:VAL:CG1	3:BR:79:PRO:HB2	2.48	0.44
3:BR:114:LYS:O	3:BR:121:HIS:HB2	2.17	0.44
3:Bd:61:LEU:O	3:Bd:88:THR:HA	2.18	0.44
3:Bi:66:PRO:CA	3:Bi:84:THR:HG22	2.40	0.44
3:Bl:71:GLN:O	3:Bl:77:VAL:HA	2.16	0.44
3:Bm:20:PHE:CD2	3:Bm:34:GLU:HB2	2.52	0.44
3:Bm:32:VAL:CG1	3:Bm:45:PHE:HB3	2.46	0.44
3:Bv:12:GLU:OE1	3:Bv:12:GLU:N	2.50	0.44
3:Bv:52:THR:HG21	3:Bv:56:ARG:HB2	2.00	0.44
3:Bx:23:ARG:HH11	3:Bx:33:VAL:HB	1.82	0.44
3:B8:20:PHE:HB3	3:B8:32:VAL:CG1	2.43	0.44
3:CB:57:TYR:O	3:CB:92:ASP:HA	2.17	0.44
3:CK:9:LYS:HD3	3:CK:16:ASN:O	2.17	0.44
3:CN:43:SER:HA	3:CN:64:VAL:O	2.17	0.44
3:8:94:ASP:OD1	3:8:95:ALA:N	2.51	0.44
3:U:7:VAL:HA	3:U:18:HIS:O	2.18	0.44
3:U:122:ASP:O	3:U:126:ASN:HB2	2.18	0.44
3:V:44:ARG:O	3:V:63:LEU:HD12	2.18	0.44
3:W:71:GLN:O	3:W:77:VAL:HA	2.18	0.44
3:a:66:PRO:CB	3:a:84:THR:HG22	2.48	0.44
3:h:122:ASP:O	3:h:126:ASN:HB2	2.18	0.44
3:i:94:ASP:OD1	3:i:95:ALA:N	2.51	0.44
3:m:52:THR:HB	3:m:54:ASN:OD1	2.18	0.44
3:m:94:ASP:OD1	3:m:95:ALA:N	2.50	0.44
3:n:24:ASP:OD1	3:n:25:ILE:N	2.50	0.44
3:r:63:LEU:O	3:r:87:VAL:HG22	2.18	0.44
3:z:122:ASP:O	3:z:128:GLN:N	2.30	0.44
3:K:94:ASP:OD1	3:K:95:ALA:N	2.50	0.44
3:L:31:GLU:HA	3:L:45:PHE:O	2.17	0.44
3:N:23:ARG:HE	3:N:33:VAL:HG21	1.82	0.44
3:N:43:SER:HA	3:N:64:VAL:O	2.16	0.44
3:AA:101:GLU:OE2	3:AB:83:ARG:NH2	2.33	0.44
3:AC:72:THR:HA	3:AC:76:ILE:O	2.17	0.44
3:AO:3:LEU:HD21	3:AR:131:TYR:CE2	2.53	0.44
3:AO:105:PHE:HE2	3:AP:87:VAL:HG11	1.83	0.44
3:AS:49:LEU:HD11	3:AT:123:THR:HG23	2.00	0.44
3:AW:128:GLN:OE1	3:Bm:23:ARG:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ae:9:LYS:N	3:Af:111:ASP:OD2	2.51	0.44
3:Ae:106:VAL:CG1	3:Af:113:LEU:HD12	2.48	0.44
3:Ah:62:LYS:HE3	3:Ah:88:THR:CG2	2.48	0.44
3:Ak:36:THR:OG1	3:Ak:37:GLY:N	2.45	0.44
3:Al:45:PHE:CD1	3:Al:63:LEU:HD12	2.53	0.44
3:Al:51:LYS:HD3	3:Al:57:TYR:CD1	2.53	0.44
3:Aq:44:ARG:NH2	3:Aq:64:VAL:HG21	2.33	0.44
3:A5:3:LEU:HD21	3:A6:130:VAL:HG13	2.00	0.44
3:A8:47:ILE:CD1	3:A8:61:LEU:HG	2.48	0.44
3:BA:121:HIS:HA	3:BA:124:ILE:HG22	2.00	0.44
3:BB:57:TYR:O	3:BB:92:ASP:HA	2.17	0.44
3:BC:30:GLY:HA3	3:BD:130:VAL:HG11	2.00	0.44
3:BC:131:TYR:CE1	3:BD:1:ALA:HB3	2.53	0.44
3:BO:106:VAL:HG21	3:BP:124:ILE:HG21	1.99	0.44
3:BP:104:ASN:O	3:BP:108:MET:HG3	2.18	0.44
3:BQ:9:LYS:HD3	3:BQ:16:ASN:O	2.17	0.44
3:BZ:29:VAL:HG12	3:BZ:46:THR:HB	1.99	0.44
3:BZ:71:GLN:OE1	3:BZ:73:VAL:HG23	2.18	0.44
3:Bd:112:ALA:O	3:Bd:120:VAL:HG11	2.18	0.44
3:Bd:122:ASP:HB2	3:Bd:128:GLN:HG3	1.99	0.44
3:Bm:72:THR:HA	3:Bm:76:ILE:O	2.18	0.44
3:Bn:38:VAL:O	3:Bn:40:ILE:N	2.50	0.44
3:Bw:66:PRO:CA	3:Bw:84:THR:HG22	2.43	0.44
3:Bw:94:ASP:OD1	3:Bw:95:ALA:N	2.50	0.44
3:Bw:115:ALA:HA	3:Bw:121:HIS:CD2	2.52	0.44
3:By:8:LEU:HD23	3:By:20:PHE:CE1	2.52	0.44
3:B2:49:LEU:HD12	3:B2:58:LYS:O	2.17	0.44
3:B3:56:ARG:HG2	3:B3:94:ASP:CG	2.43	0.44
3:B5:94:ASP:OD1	3:B5:95:ALA:N	2.50	0.44
3:CL:73:VAL:O	3:CL:76:ILE:HG12	2.17	0.44
3:CL:123:THR:O	3:CL:127:LEU:HA	2.18	0.44
3:CM:43:SER:HA	3:CM:64:VAL:O	2.17	0.44
3:CM:69:GLN:O	3:CM:79:PRO:HA	2.17	0.44
3:CN:112:ALA:O	3:CN:120:VAL:HG11	2.18	0.44
3:CS:23:ARG:HG2	3:CS:33:VAL:HG22	1.98	0.44
3:CS:30:GLY:HA3	3:CT:130:VAL:HG21	2.00	0.44
3:0:79:PRO:O	3:4:96:ARG:NH1	2.50	0.44
3:0:117:LYS:HE2	3:9:8:LEU:CD2	2.43	0.44
3:1:67:VAL:O	3:1:81:VAL:HA	2.17	0.44
3:7:20:PHE:HB3	3:7:32:VAL:HG22	2.00	0.44
3:B:72:THR:OG1	3:B:77:VAL:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:124:ILE:HG13	3:C:125:VAL:HG23	1.98	0.44
3:D:25:ILE:HG12	3:D:30:GLY:HA2	2.00	0.44
3:O:44:ARG:O	3:O:63:LEU:HA	2.17	0.44
3:P:82:VAL:HG23	3:P:83:ARG:HG2	1.99	0.44
3:R:9:LYS:HE3	3:R:17:ASP:OD1	2.18	0.44
3:S:68:VAL:CG1	3:S:81:VAL:HG22	2.45	0.44
3:Y:23:ARG:O	3:BS:129:GLY:HA3	2.18	0.44
3:c:29:VAL:HG22	3:c:48:SER:CB	2.45	0.44
3:k:14:THR:HG23	3:k:16:ASN:OD1	2.18	0.44
3:k:122:ASP:O	3:k:126:ASN:HB2	2.17	0.44
3:p:44:ARG:O	3:p:63:LEU:HA	2.18	0.44
3:q:1:ALA:N	3:r:129:GLY:O	2.36	0.44
3:t:122:ASP:OD1	3:t:126:ASN:HB2	2.18	0.44
3:u:119:LEU:HD11	3:v:3:LEU:HD12	1.98	0.44
3:y:33:VAL:HG12	3:y:44:ARG:HG2	2.00	0.44
3:y:119:LEU:HD11	3:z:3:LEU:HD12	2.00	0.44
3:G:45:PHE:HD1	3:G:63:LEU:HD13	1.83	0.44
3:N:57:TYR:O	3:N:92:ASP:HA	2.18	0.44
3:AS:37:GLY:O	3:AS:39:PRO:HD3	2.18	0.44
3:AW:29:VAL:HG22	3:AW:48:SER:CB	2.46	0.44
3:Aa:20:PHE:HA	3:Aa:34:GLU:OE1	2.18	0.44
3:Aa:68:VAL:HG12	3:Aa:79:PRO:HB2	2.00	0.44
3:Aa:90:ASP:OD1	3:Ab:88:THR:HB	2.18	0.44
3:Ac:63:LEU:O	3:Ac:87:VAL:HG12	2.17	0.44
3:Ac:122:ASP:O	3:Ac:126:ASN:HB2	2.18	0.44
3:Ae:61:LEU:HB2	3:Ae:89:VAL:HG22	2.00	0.44
3:Aj:28:ASN:ND2	3:Bg:24:ASP:HB2	2.33	0.44
3:Ak:23:ARG:HH21	3:Ak:33:VAL:HG11	1.82	0.44
3:Ao:14:THR:HG23	3:Ao:16:ASN:OD1	2.17	0.44
3:Aq:20:PHE:HB3	3:Aq:32:VAL:CG2	2.45	0.44
3:Ar:25:ILE:HG13	3:Ar:30:GLY:HA2	2.00	0.44
3:At:33:VAL:HG13	3:At:42:GLU:HG2	1.99	0.44
3:At:41:GLY:HA2	3:At:66:PRO:CG	2.44	0.44
3:Au:95:ALA:HB1	3:A8:40:ILE:HD11	2.00	0.44
3:Az:114:LYS:HB3	3:Az:116:ASP:OD1	2.16	0.44
3:BC:61:LEU:HD11	3:BD:124:ILE:HD11	2.00	0.44
3:BE:121:HIS:CE1	3:BE:125:VAL:HG21	2.52	0.44
3:BL:3:LEU:CD2	3:BL:22:PRO:HB3	2.46	0.44
3:BN:23:ARG:O	3:CD:128:GLN:NE2	2.51	0.44
3:BN:113:LEU:HG	3:BN:113:LEU:O	2.18	0.44
3:BS:14:THR:HG23	3:BS:16:ASN:OD1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BV:98:THR:O	3:BV:102:ARG:HG3	2.18	0.44
3:Bi:38:VAL:HG12	3:Bi:40:ILE:CG1	2.44	0.44
3:Bn:20:PHE:CD2	3:Bn:34:GLU:HB2	2.53	0.44
3:Bu:3:LEU:HD12	3:Bv:119:LEU:HD11	2.00	0.44
3:By:8:LEU:HD12	3:Bz:112:ALA:HA	2.00	0.44
3:By:66:PRO:CB	3:By:84:THR:HG22	2.43	0.44
3:B1:52:THR:HB	3:B1:54:ASN:OD1	2.18	0.44
3:B3:125:VAL:HG22	3:B4:106:VAL:HG21	1.99	0.44
3:B6:45:PHE:CZ	3:B6:61:LEU:HD23	2.52	0.44
3:B7:4:GLN:CD	3:B8:119:LEU:HD12	2.43	0.44
3:B9:94:ASP:OD1	3:B9:97:SER:HB3	2.18	0.44
3:CH:47:ILE:CD1	3:CH:61:LEU:HG	2.48	0.44
3:CH:66:PRO:HB3	3:CH:84:THR:OG1	2.18	0.44
3:1:11:ARG:O	3:2:104:ASN:ND2	2.51	0.44
3:3:38:VAL:HG22	3:5:97:SER:O	2.18	0.44
3:5:101:GLU:OE2	3:6:83:ARG:NH2	2.32	0.44
3:8:38:VAL:HG13	3:AS:97:SER:O	2.18	0.44
3:9:14:THR:HG23	3:9:16:ASN:OD1	2.17	0.44
3:O:10:ASP:OD2	3:O:16:ASN:HB2	2.18	0.44
3:Q:11:ARG:HH22	3:Q:114:LYS:HA	1.82	0.44
3:Q:63:LEU:HB3	3:Q:87:VAL:HG11	1.98	0.44
3:U:114:LYS:HD3	3:U:115:ALA:H	1.83	0.44
3:V:69:GLN:NE2	3:V:82:VAL:HG11	2.32	0.44
3:X:68:VAL:HG13	3:X:80:VAL:C	2.43	0.44
3:Z:8:LEU:HD23	3:Z:20:PHE:CE1	2.53	0.44
3:Z:25:ILE:HG23	3:Z:29:VAL:C	2.43	0.44
3:d:29:VAL:HG22	3:d:48:SER:CB	2.48	0.44
3:i:106:VAL:CG1	3:j:113:LEU:HD12	2.48	0.44
3:i:111:ASP:OD2	3:j:9:LYS:HG2	2.17	0.44
3:v:52:THR:HG21	3:v:56:ARG:HB2	2.00	0.44
3:w:4:GLN:NE2	3:x:118:MET:SD	2.91	0.44
3:x:68:VAL:CG1	3:x:79:PRO:HB2	2.48	0.44
3:y:90:ASP:HB2	3:z:88:THR:HG22	2.00	0.44
3:z:34:GLU:O	3:z:42:GLU:HG3	2.18	0.44
3:AA:114:LYS:HB3	3:AA:116:ASP:OD1	2.17	0.44
3:AU:72:THR:OG1	3:AU:77:VAL:HG22	2.18	0.44
3:AZ:61:LEU:O	3:AZ:88:THR:HA	2.18	0.44
3:AZ:82:VAL:HG23	3:AZ:83:ARG:HG2	2.00	0.44
3:Aa:44:ARG:HH21	3:Aa:64:VAL:HG21	1.83	0.44
3:Ad:31:GLU:HB3	3:Ad:46:THR:HG23	1.99	0.44
3:Ag:11:ARG:NH2	3:Ah:106:VAL:HG13	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ak:61:LEU:HB2	3:Ak:89:VAL:HB	1.98	0.44
3:Ao:44:ARG:O	3:Ao:63:LEU:HA	2.18	0.44
3:Ar:31:GLU:HA	3:Ar:45:PHE:O	2.18	0.44
3:At:56:ARG:NE	3:At:93:TYR:O	2.43	0.44
3:Au:118:MET:H	3:Au:118:MET:HG3	1.64	0.44
3:Ax:68:VAL:CG1	3:Ax:79:PRO:HB2	2.48	0.44
3:Ay:63:LEU:HB3	3:Ay:87:VAL:CG1	2.47	0.44
3:A1:6:LEU:HG	3:A1:8:LEU:CD2	2.48	0.44
3:A3:7:VAL:HG13	3:A3:18:HIS:O	2.18	0.44
3:A3:91:PHE:HD2	3:A4:87:VAL:HG12	1.82	0.44
3:A4:114:LYS:HB3	3:A4:116:ASP:OD1	2.18	0.44
3:A7:52:THR:HB	3:A7:54:ASN:OD1	2.18	0.44
3:A9:111:ASP:OD2	3:A0:9:LYS:N	2.49	0.44
3:BB:98:THR:O	3:BB:102:ARG:HG3	2.17	0.44
3:BB:113:LEU:HG	3:BB:113:LEU:O	2.17	0.44
3:BD:71:GLN:HE22	3:BD:73:VAL:HG22	1.82	0.44
3:BE:21:VAL:O	3:BE:32:VAL:HG23	2.18	0.44
3:BH:64:VAL:HG13	3:BH:85:SER:O	2.18	0.44
3:BL:31:GLU:HG3	3:BL:33:VAL:HG23	1.98	0.44
3:BM:89:VAL:HG12	3:BN:89:VAL:HG22	1.99	0.44
3:BM:92:ASP:OD1	3:BM:92:ASP:N	2.49	0.44
3:BR:57:TYR:O	3:BR:92:ASP:HA	2.18	0.44
3:BV:56:ARG:HH21	3:BV:92:ASP:HB2	1.83	0.44
3:BY:31:GLU:HA	3:BY:45:PHE:O	2.18	0.44
3:Bg:118:MET:SD	3:Bg:118:MET:N	2.76	0.44
3:Bk:57:TYR:O	3:Bk:92:ASP:HA	2.18	0.44
3:Bm:63:LEU:HB3	3:Bm:87:VAL:HG11	2.00	0.44
3:By:108:MET:HB3	3:Bz:63:LEU:HD21	2.00	0.44
3:Bz:57:TYR:HE2	3:Bz:95:ALA:HA	1.83	0.44
3:B2:122:ASP:OD2	3:B2:128:GLN:HB3	2.18	0.44
3:B7:131:TYR:CE1	3:B8:1:ALA:HB3	2.53	0.44
3:B9:8:LEU:HD23	3:B9:20:PHE:CE1	2.52	0.44
3:CC:111:ASP:OD2	3:CD:9:LYS:N	2.33	0.44
3:CH:46:THR:CB	3:CH:62:LYS:HD2	2.48	0.44
3:CI:52:THR:HB	3:CI:56:ARG:N	2.28	0.44
3:CK:44:ARG:O	3:CK:63:LEU:HA	2.18	0.44
3:CK:51:LYS:HZ1	3:CK:55:GLY:HA2	1.83	0.44
3:CL:67:VAL:HB	3:CL:82:VAL:HG22	2.00	0.44
3:CM:5:ASN:OD1	3:CM:21:VAL:HG12	2.18	0.44
3:CO:6:LEU:HD23	3:CO:8:LEU:HD21	1.99	0.44
3:CR:34:GLU:HB3	3:CR:43:SER:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CS:118:MET:H	3:CS:118:MET:HG3	1.63	0.44
3:0:61:LEU:O	3:0:88:THR:HA	2.18	0.43
3:6:7:VAL:HG13	3:6:17:ASP:HB2	1.99	0.43
3:6:18:HIS:HB3	3:6:34:GLU:OE1	2.18	0.43
3:7:7:VAL:HA	3:7:18:HIS:O	2.18	0.43
3:A:66:PRO:CB	3:A:84:THR:HG22	2.47	0.43
3:B:23:ARG:NH2	3:B:31:GLU:OE2	2.42	0.43
3:C:49:LEU:HD12	3:C:58:LYS:O	2.18	0.43
3:P:68:VAL:HG13	3:P:80:VAL:C	2.43	0.43
3:Q:3:LEU:HD22	3:Q:25:ILE:HD11	2.00	0.43
3:Q:117:LYS:HD2	3:R:6:LEU:HD11	1.99	0.43
3:R:24:ASP:HA	3:A0:131:TYR:CE1	2.53	0.43
3:U:82:VAL:HG23	3:U:83:ARG:HG2	2.00	0.43
3:U:98:THR:HG22	3:U:101:GLU:HG3	1.99	0.43
3:W:66:PRO:CB	3:W:84:THR:HG22	2.47	0.43
3:Y:56:ARG:HD3	3:Y:92:ASP:OD1	2.18	0.43
3:l:68:VAL:CG1	3:l:79:PRO:HB2	2.48	0.43
3:n:63:LEU:HB3	3:n:87:VAL:CG2	2.48	0.43
3:r:28:ASN:ND2	3:x:24:ASP:HB2	2.33	0.43
3:r:69:GLN:O	3:r:79:PRO:HA	2.18	0.43
3:u:29:VAL:HA	3:u:48:SER:OG	2.18	0.43
3:u:36:THR:OG1	3:u:37:GLY:N	2.44	0.43
3:u:91:PHE:HD1	3:v:87:VAL:HG12	1.83	0.43
3:z:10:ASP:HB2	3:z:15:PRO:CB	2.48	0.43
3:I:37:GLY:C	3:Bg:98:THR:HA	2.43	0.43
3:I:66:PRO:CB	3:I:84:THR:HG22	2.48	0.43
3:K:5:ASN:HB3	3:K:19:THR:HG23	2.00	0.43
3:N:98:THR:O	3:N:102:ARG:HG3	2.18	0.43
3:AO:47:ILE:HG13	3:AO:61:LEU:HG	2.00	0.43
3:AO:94:ASP:OD1	3:AO:95:ALA:N	2.51	0.43
3:AR:30:GLY:O	3:AR:46:THR:HG22	2.18	0.43
3:AU:61:LEU:HD11	3:AV:124:ILE:HD11	2.00	0.43
3:AY:21:VAL:C	3:AY:32:VAL:HG23	2.43	0.43
3:Aa:70:SER:CA	3:Aa:79:PRO:HB3	2.44	0.43
3:Aa:71:GLN:O	3:Aa:77:VAL:HA	2.19	0.43
3:Ac:89:VAL:HG12	3:Ad:89:VAL:HG13	1.99	0.43
3:Ad:113:LEU:O	3:Ad:113:LEU:HG	2.18	0.43
3:Af:23:ARG:HG3	3:B4:128:GLN:OE1	2.18	0.43
3:Af:44:ARG:CG	3:Af:64:VAL:HB	2.48	0.43
3:Ag:79:PRO:O	3:CP:96:ARG:NH1	2.48	0.43
3:Aj:68:VAL:HG13	3:Aj:80:VAL:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ao:119:LEU:HD11	3:Ap:3:LEU:CD1	2.46	0.43
3:Ar:102:ARG:O	3:Ar:106:VAL:HG23	2.17	0.43
3:As:86:TYR:HB2	3:At:92:ASP:OD2	2.18	0.43
3:At:99:THR:OG1	3:Ax:37:GLY:HA2	2.18	0.43
3:Av:65:VAL:O	3:Av:65:VAL:HG13	2.18	0.43
3:Av:94:ASP:OD1	3:Av:95:ALA:N	2.51	0.43
3:Ay:127:LEU:HD13	3:Az:102:ARG:NH1	2.33	0.43
3:A1:44:ARG:HH21	3:A1:64:VAL:HG21	1.83	0.43
3:A2:94:ASP:OD1	3:A2:95:ALA:N	2.51	0.43
3:A3:94:ASP:OD1	3:A3:95:ALA:N	2.50	0.43
3:BA:3:LEU:HD21	3:BA:32:VAL:HB	1.99	0.43
3:BA:66:PRO:CB	3:BA:84:THR:HG22	2.48	0.43
3:BB:38:VAL:O	3:BB:40:ILE:N	2.51	0.43
3:BC:105:PHE:O	3:BC:109:ILE:HG22	2.16	0.43
3:BC:114:LYS:HB2	3:BC:116:ASP:OD1	2.18	0.43
3:BD:33:VAL:CG1	3:BD:42:GLU:HG3	2.48	0.43
3:BF:43:SER:HA	3:BF:64:VAL:O	2.18	0.43
3:BK:44:ARG:O	3:BK:63:LEU:HA	2.17	0.43
3:BK:72:THR:OG1	3:BK:77:VAL:HG22	2.18	0.43
3:BL:10:ASP:HB3	3:BL:12:GLU:OE1	2.17	0.43
3:BN:45:PHE:HD1	3:BN:63:LEU:HD12	1.82	0.43
3:BN:70:SER:HB2	3:BN:77:VAL:HG13	2.00	0.43
3:BP:112:ALA:O	3:BP:113:LEU:HD13	2.18	0.43
3:BZ:60:THR:HA	3:BZ:89:VAL:O	2.17	0.43
3:Bc:25:ILE:HG22	3:B4:28:ASN:OD1	2.17	0.43
3:Bd:97:SER:O	3:B5:38:VAL:HG22	2.17	0.43
3:Bg:88:THR:HB	3:Bh:90:ASP:OD1	2.18	0.43
3:Bh:121:HIS:NE2	3:Bh:125:VAL:HG21	2.33	0.43
3:B2:124:ILE:HG13	3:B2:125:VAL:HG23	2.00	0.43
3:B8:35:SER:OG	3:B8:36:THR:N	2.50	0.43
3:B8:92:ASP:N	3:B8:92:ASP:OD1	2.50	0.43
3:B0:35:SER:OG	3:B0:36:THR:N	2.49	0.43
3:CK:46:THR:HB	3:CK:62:LYS:HB2	2.00	0.43
3:CP:33:VAL:HG13	3:CP:42:GLU:HB3	1.99	0.43
3:CS:49:LEU:HD21	3:CT:123:THR:HG22	2.00	0.43
3:1:131:TYR:OXT	3:2:2:GLN:HA	2.18	0.43
3:6:71:GLN:HE22	3:6:73:VAL:HG22	1.82	0.43
3:7:40:ILE:HG21	3:7:79:PRO:HG2	2.00	0.43
3:9:32:VAL:O	3:9:44:ARG:HA	2.18	0.43
3:B:104:ASN:O	3:B:108:MET:HG3	2.18	0.43
3:B:123:THR:O	3:B:127:LEU:HA	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:25:ILE:HG23	3:O:29:VAL:H	1.83	0.43
3:O:37:GLY:O	3:G:98:THR:HA	2.18	0.43
3:P:68:VAL:HG13	3:P:80:VAL:O	2.18	0.43
3:R:66:PRO:HB3	3:R:84:THR:OG1	2.18	0.43
3:S:119:LEU:HD11	3:T:3:LEU:CD1	2.45	0.43
3:b:121:HIS:NE2	3:b:125:VAL:HG21	2.34	0.43
3:c:47:ILE:HD13	3:c:61:LEU:HD13	2.00	0.43
3:c:118:MET:SD	3:c:118:MET:N	2.77	0.43
3:e:7:VAL:CG1	3:e:17:ASP:HB2	2.49	0.43
3:e:24:ASP:CG	3:h:129:GLY:HA3	2.43	0.43
3:e:94:ASP:OD1	3:e:95:ALA:N	2.51	0.43
3:m:6:LEU:HG	3:m:8:LEU:HD21	2.00	0.43
3:m:57:TYR:O	3:m:92:ASP:HA	2.17	0.43
3:q:36:THR:HG23	3:q:38:VAL:H	1.83	0.43
3:q:98:THR:O	3:q:102:ARG:HG3	2.19	0.43
3:s:104:ASN:HD21	3:t:12:GLU:HG2	1.82	0.43
3:u:33:VAL:CG1	3:u:44:ARG:HG2	2.47	0.43
3:w:66:PRO:HA	3:w:84:THR:OG1	2.18	0.43
3:M:98:THR:OG1	3:M:101:GLU:HG3	2.18	0.43
3:N:69:GLN:O	3:N:79:PRO:HA	2.18	0.43
3:AP:98:THR:O	3:AP:102:ARG:HG3	2.18	0.43
3:AR:66:PRO:HA	3:AR:84:THR:HG23	2.00	0.43
3:AT:65:VAL:O	3:AT:65:VAL:HG13	2.18	0.43
3:AW:24:ASP:HB2	3:Bl:28:ASN:ND2	2.33	0.43
3:AX:111:ASP:HA	3:AX:114:LYS:CD	2.47	0.43
3:Aa:40:ILE:HD12	3:B2:96:ARG:HD3	1.99	0.43
3:Ab:20:PHE:CD2	3:Ab:34:GLU:HB2	2.53	0.43
3:Ab:98:THR:CG2	3:Ab:101:GLU:HG3	2.48	0.43
3:Ad:94:ASP:OD1	3:Ad:95:ALA:N	2.50	0.43
3:Ae:23:ARG:HG3	3:Ae:24:ASP:OD1	2.18	0.43
3:Ak:128:GLN:OE1	3:B9:23:ARG:HA	2.17	0.43
3:Ap:60:THR:HA	3:Ap:90:ASP:HA	2.00	0.43
3:Aq:9:LYS:HA	3:Aq:16:ASN:O	2.18	0.43
3:Aw:101:GLU:OE2	3:Ax:83:ARG:NH2	2.43	0.43
3:Ay:36:THR:OG1	3:Ay:37:GLY:N	2.50	0.43
3:Az:46:THR:CB	3:Az:62:LYS:HD2	2.46	0.43
3:A6:67:VAL:HG11	3:A6:83:ARG:NH2	2.33	0.43
3:A7:72:THR:HA	3:A7:76:ILE:O	2.18	0.43
3:A0:68:VAL:HG13	3:A0:80:VAL:O	2.18	0.43
3:BB:63:LEU:HB3	3:BB:87:VAL:CG2	2.47	0.43
3:BB:65:VAL:O	3:BB:65:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:31:GLU:OE2	3:BC:44:ARG:HD2	2.17	0.43
3:BK:46:THR:CB	3:BK:62:LYS:HB2	2.43	0.43
3:BM:123:THR:O	3:BM:127:LEU:HA	2.19	0.43
3:BP:35:SER:OG	3:BP:39:PRO:HA	2.18	0.43
3:BQ:61:LEU:HB2	3:BQ:89:VAL:CG2	2.48	0.43
3:BQ:106:VAL:HG21	3:BR:125:VAL:HG22	1.99	0.43
3:BS:38:VAL:HG12	3:BZ:97:SER:C	2.43	0.43
3:BV:42:GLU:O	3:BV:66:PRO:HD2	2.18	0.43
3:BY:82:VAL:HG23	3:BY:83:ARG:HG2	2.00	0.43
3:BY:89:VAL:CG2	3:BZ:89:VAL:HG13	2.40	0.43
3:BY:92:ASP:CB	3:BZ:86:TYR:HB2	2.41	0.43
3:Bg:110:ALA:HB2	3:Bh:113:LEU:HD23	1.98	0.43
3:Bh:56:ARG:HG3	3:Bh:93:TYR:O	2.18	0.43
3:Bw:3:LEU:HB2	3:Bx:130:VAL:CG2	2.48	0.43
3:B3:11:ARG:HH22	3:B3:114:LYS:HD2	1.83	0.43
3:B3:111:ASP:OD2	3:B4:9:LYS:N	2.51	0.43
3:B5:49:LEU:HD21	3:B6:123:THR:CG2	2.48	0.43
3:B6:68:VAL:HG11	3:B6:79:PRO:HB2	1.99	0.43
3:B6:98:THR:O	3:B6:102:ARG:HG3	2.18	0.43
3:B7:21:VAL:O	3:B7:32:VAL:HG23	2.18	0.43
3:B9:69:GLN:HB3	3:B9:70:SER:H	1.67	0.43
3:CB:33:VAL:CG1	3:CB:42:GLU:HG3	2.48	0.43
3:CD:20:PHE:HB3	3:CD:32:VAL:HG11	2.00	0.43
3:CD:47:ILE:HD12	3:CD:61:LEU:HG	2.00	0.43
3:CN:72:THR:CA	3:CN:77:VAL:HG22	2.46	0.43
3:CO:60:THR:HA	3:CO:90:ASP:OD1	2.18	0.43
3:CP:23:ARG:HD2	3:CP:33:VAL:HG21	1.99	0.43
3:0:105:PHE:HE2	3:9:87:VAL:HB	1.83	0.43
3:4:34:GLU:HB3	3:4:43:SER:HB2	2.00	0.43
3:5:4:GLN:H	3:6:119:LEU:CD1	2.31	0.43
3:5:111:ASP:OD2	3:6:9:LYS:N	2.52	0.43
3:7:59:SER:O	3:7:90:ASP:HA	2.19	0.43
3:A:83:ARG:CD	3:B:97:SER:HA	2.49	0.43
3:A:102:ARG:HH12	3:BR:39:PRO:HD3	1.82	0.43
3:B:102:ARG:O	3:B:106:VAL:HG23	2.19	0.43
3:C:29:VAL:HG22	3:C:48:SER:CB	2.45	0.43
3:U:88:THR:HB	3:V:90:ASP:OD1	2.18	0.43
3:W:23:ARG:HH21	3:W:33:VAL:HG21	1.83	0.43
3:Y:69:GLN:NE2	3:Y:82:VAL:HG21	2.34	0.43
3:f:25:ILE:HG12	3:f:30:GLY:CA	2.48	0.43
3:f:98:THR:HB	3:f:101:GLU:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:r:68:VAL:CG1	3:r:79:PRO:HB2	2.48	0.43
3:t:8:LEU:HD23	3:t:20:PHE:CE2	2.53	0.43
3:u:20:PHE:HB3	3:u:32:VAL:CG2	2.48	0.43
3:u:35:SER:HB2	3:u:42:GLU:HB2	2.00	0.43
3:I:44:ARG:NH2	3:I:64:VAL:HG11	2.34	0.43
3:J:20:PHE:HD1	3:J:34:GLU:HB2	1.84	0.43
3:K:25:ILE:O	3:BV:28:ASN:ND2	2.32	0.43
3:M:36:THR:HG23	3:M:38:VAL:H	1.83	0.43
3:AA:4:GLN:NE2	3:AB:119:LEU:HD12	2.33	0.43
3:AA:71:GLN:O	3:AA:77:VAL:HA	2.17	0.43
3:AC:47:ILE:HD13	3:AC:61:LEU:CD1	2.48	0.43
3:AC:90:ASP:OD1	3:AD:88:THR:HB	2.18	0.43
3:AD:123:THR:HG23	3:AD:128:GLN:O	2.18	0.43
3:AO:118:MET:SD	3:AO:118:MET:N	2.75	0.43
3:AQ:92:ASP:OD1	3:AQ:92:ASP:N	2.51	0.43
3:AR:98:THR:N	3:AR:101:GLU:OE2	2.37	0.43
3:AT:24:ASP:HA	3:Bn:131:TYR:CD1	2.53	0.43
3:AT:123:THR:O	3:AT:127:LEU:HA	2.18	0.43
3:AX:98:THR:HA	3:Bm:37:GLY:O	2.18	0.43
3:AY:60:THR:HA	3:AY:89:VAL:O	2.17	0.43
3:Aa:110:ALA:HB2	3:Ab:113:LEU:HB3	2.00	0.43
3:Ac:119:LEU:HD11	3:Ad:3:LEU:CD1	2.43	0.43
3:Ad:20:PHE:HD1	3:Ad:34:GLU:HB2	1.84	0.43
3:Ah:22:PRO:HA	3:Ah:32:VAL:HA	2.00	0.43
3:Ak:23:ARG:NH2	3:Ak:33:VAL:HG11	2.33	0.43
3:Ak:115:ALA:HA	3:Ak:121:HIS:CD2	2.54	0.43
3:Am:72:THR:HA	3:Am:76:ILE:O	2.18	0.43
3:Am:92:ASP:OD1	3:Am:92:ASP:N	2.50	0.43
3:An:70:SER:HA	3:An:78:THR:O	2.17	0.43
3:As:64:VAL:HG22	3:As:86:TYR:CD1	2.53	0.43
3:Au:2:GLN:HE22	3:Aw:2:GLN:HG3	1.82	0.43
3:Aw:31:GLU:HG3	3:Aw:46:THR:HG22	1.99	0.43
3:Ax:71:GLN:O	3:Ax:77:VAL:HA	2.18	0.43
3:Az:94:ASP:OD1	3:Az:95:ALA:N	2.51	0.43
3:A1:71:GLN:NE2	3:A1:78:THR:O	2.51	0.43
3:A1:119:LEU:O	3:A1:119:LEU:HD23	2.18	0.43
3:A6:31:GLU:CB	3:A6:46:THR:HG22	2.47	0.43
3:BB:44:ARG:HH11	3:BB:64:VAL:HB	1.84	0.43
3:BC:130:VAL:HG12	3:BD:25:ILE:CD1	2.49	0.43
3:BF:122:ASP:HB3	3:BF:128:GLN:CG	2.48	0.43
3:BG:104:ASN:ND2	3:BH:11:ARG:O	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:63:LEU:HB3	3:BL:87:VAL:HG21	2.00	0.43
3:BM:37:GLY:C	3:BO:98:THR:HA	2.44	0.43
3:BO:62:LYS:HA	3:BO:87:VAL:O	2.18	0.43
3:BP:7:VAL:HA	3:BP:18:HIS:O	2.19	0.43
3:BQ:101:GLU:OE2	3:BR:83:ARG:NH2	2.38	0.43
3:BR:65:VAL:HG13	3:BR:65:VAL:O	2.18	0.43
3:BV:89:VAL:HG13	3:CI:89:VAL:CG1	2.43	0.43
3:BZ:94:ASP:OD1	3:BZ:95:ALA:N	2.51	0.43
3:Bc:22:PRO:HB3	3:Bc:32:VAL:HG12	2.00	0.43
3:Bv:3:LEU:HD11	3:Bv:32:VAL:CG2	2.48	0.43
3:B3:86:TYR:HB2	3:B4:92:ASP:OD2	2.19	0.43
3:B4:123:THR:HA	3:B4:128:GLN:H	1.84	0.43
3:B6:66:PRO:HB3	3:B6:84:THR:OG1	2.17	0.43
3:CA:8:LEU:HD11	3:CB:112:ALA:HA	2.00	0.43
3:CA:29:VAL:HA	3:CA:48:SER:OG	2.18	0.43
3:CA:44:ARG:NH2	3:CA:64:VAL:HG21	2.33	0.43
3:CH:43:SER:HA	3:CH:64:VAL:O	2.18	0.43
3:CI:50:ARG:HD2	3:CI:51:LYS:N	2.33	0.43
3:CO:125:VAL:HG22	3:CP:106:VAL:HG21	2.00	0.43
3:CQ:57:TYR:HE1	3:CQ:95:ALA:HB2	1.83	0.43
3:CR:114:LYS:O	3:CR:121:HIS:HB2	2.17	0.43
3:CT:71:GLN:O	3:CT:77:VAL:HA	2.18	0.43
3:4:98:THR:CG2	3:4:100:LYS:HG2	2.47	0.43
3:6:24:ASP:HB2	3:AB:28:ASN:ND2	2.34	0.43
3:6:115:ALA:HA	3:6:121:HIS:CD2	2.54	0.43
3:9:72:THR:HA	3:9:76:ILE:O	2.18	0.43
3:C:51:LYS:HD3	3:C:57:TYR:CE1	2.54	0.43
3:C:61:LEU:HD23	3:C:91:PHE:HE2	1.83	0.43
3:E:8:LEU:CD1	3:Bb:112:ALA:HA	2.48	0.43
3:R:40:ILE:HD11	3:A9:95:ALA:HB1	1.98	0.43
3:X:131:TYR:CE1	3:CH:24:ASP:HA	2.53	0.43
3:f:9:LYS:NZ	3:f:15:PRO:HB2	2.32	0.43
3:g:29:VAL:HG22	3:g:48:SER:OG	2.18	0.43
3:h:41:GLY:HA3	3:h:68:VAL:HG21	2.00	0.43
3:l:94:ASP:OD1	3:l:97:SER:HB3	2.18	0.43
3:m:38:VAL:HG22	3:o:97:SER:O	2.17	0.43
3:n:98:THR:O	3:n:102:ARG:HG3	2.17	0.43
3:q:33:VAL:HG12	3:q:44:ARG:CA	2.48	0.43
3:q:104:ASN:HB3	3:r:10:ASP:OD1	2.17	0.43
3:r:45:PHE:HA	3:r:62:LYS:O	2.18	0.43
3:t:22:PRO:HA	3:t:32:VAL:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:w:130:VAL:HG12	3:x:25:ILE:HD12	2.00	0.43
3:x:104:ASN:O	3:x:108:MET:HG3	2.18	0.43
3:y:47:ILE:HD13	3:y:61:LEU:CG	2.45	0.43
3:H:41:GLY:HA3	3:H:68:VAL:HG21	1.99	0.43
3:K:98:THR:O	3:K:101:GLU:HG2	2.19	0.43
3:L:66:PRO:HA	3:L:84:THR:HG22	2.00	0.43
3:AC:82:VAL:HG23	3:AC:83:ARG:HG2	2.00	0.43
3:AC:122:ASP:O	3:AC:126:ASN:HB2	2.17	0.43
3:AO:8:LEU:HG	3:AO:20:PHE:HE1	1.82	0.43
3:AO:63:LEU:HD23	3:AP:108:MET:HB3	1.99	0.43
3:AW:8:LEU:HD23	3:AX:108:MET:HB3	1.99	0.43
3:AW:58:LYS:HA	3:AW:91:PHE:O	2.19	0.43
3:Ac:21:VAL:O	3:Ac:32:VAL:HG23	2.19	0.43
3:Ai:33:VAL:CG1	3:Ai:44:ARG:HG2	2.49	0.43
3:Aj:21:VAL:C	3:Aj:32:VAL:HG13	2.44	0.43
3:Am:113:LEU:HD12	3:Am:124:ILE:CD1	2.46	0.43
3:Ar:44:ARG:O	3:Ar:63:LEU:HD12	2.18	0.43
3:Aw:72:THR:HA	3:Aw:76:ILE:O	2.19	0.43
3:Ax:23:ARG:NH2	3:Ax:33:VAL:HG21	2.33	0.43
3:A5:2:GLN:HA	3:A6:131:TYR:OXT	2.19	0.43
3:A5:121:HIS:HA	3:A5:124:ILE:CG1	2.48	0.43
3:BA:107:GLY:O	3:BA:111:ASP:HB2	2.18	0.43
3:BF:46:THR:CB	3:BF:62:LYS:HD2	2.44	0.43
3:BK:7:VAL:HA	3:BK:18:HIS:O	2.18	0.43
3:BO:7:VAL:HA	3:BO:18:HIS:O	2.19	0.43
3:BR:38:VAL:O	3:BR:40:ILE:N	2.51	0.43
3:BZ:47:ILE:HA	3:BZ:61:LEU:CD2	2.48	0.43
3:Bk:43:SER:HA	3:Bk:64:VAL:O	2.19	0.43
3:Bv:38:VAL:HG12	3:Bv:40:ILE:CG2	2.48	0.43
3:B3:47:ILE:CG2	3:B3:61:LEU:HG	2.40	0.43
3:B8:23:ARG:HD3	3:B8:33:VAL:HG21	1.99	0.43
3:B8:34:GLU:HB3	3:B8:43:SER:CB	2.47	0.43
3:CA:50:ARG:NH1	3:CA:58:LYS:HD2	2.32	0.43
3:CA:89:VAL:HG12	3:CB:89:VAL:CG1	2.44	0.43
3:CA:105:PHE:HE2	3:CB:87:VAL:HG11	1.81	0.43
3:CB:92:ASP:N	3:CB:92:ASP:OD1	2.49	0.43
3:CD:69:GLN:O	3:CD:79:PRO:HA	2.19	0.43
3:CK:3:LEU:HB3	3:CK:22:PRO:HB3	1.99	0.43
3:CK:8:LEU:O	3:CK:17:ASP:HA	2.19	0.43
3:CL:58:LYS:HE3	3:CL:58:LYS:HB3	1.90	0.43
3:CL:66:PRO:HB3	3:CL:84:THR:OG1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:121:HIS:O	3:CL:125:VAL:HB	2.18	0.43
3:CO:36:THR:OG1	3:CO:37:GLY:N	2.35	0.43
3:CQ:61:LEU:HB2	3:CQ:89:VAL:CG2	2.46	0.43
3:0:72:THR:HG22	3:0:75:GLY:H	1.83	0.43
3:4:41:GLY:HA2	3:4:66:PRO:CG	2.42	0.43
3:8:72:THR:HG22	3:8:75:GLY:H	1.84	0.43
3:A:21:VAL:O	3:A:32:VAL:HG23	2.19	0.43
3:C:30:GLY:H	3:D:130:VAL:HG11	1.83	0.43
3:U:101:GLU:OE2	3:V:83:ARG:NH2	2.32	0.43
3:V:45:PHE:HD1	3:V:63:LEU:HD13	1.82	0.43
3:f:97:SER:O	3:l:38:VAL:HG22	2.19	0.43
3:h:23:ARG:NH2	3:h:33:VAL:HG11	2.31	0.43
3:h:45:PHE:CZ	3:h:61:LEU:HD12	2.53	0.43
3:h:98:THR:HA	3:Bk:37:GLY:O	2.18	0.43
3:k:112:ALA:O	3:k:120:VAL:HG21	2.18	0.43
3:p:12:GLU:N	3:p:12:GLU:OE1	2.52	0.43
3:t:72:THR:HA	3:t:76:ILE:O	2.17	0.43
3:u:98:THR:OG1	3:u:101:GLU:HG3	2.18	0.43
3:u:131:TYR:CE1	3:v:1:ALA:HA	2.53	0.43
3:y:45:PHE:HA	3:y:62:LYS:O	2.18	0.43
3:z:23:ARG:HG3	3:z:24:ASP:OD1	2.18	0.43
3:I:71:GLN:O	3:I:77:VAL:HA	2.18	0.43
3:K:63:LEU:O	3:K:87:VAL:HG12	2.19	0.43
3:N:121:HIS:O	3:N:125:VAL:HB	2.18	0.43
3:AP:39:PRO:HA	3:AP:42:GLU:OE2	2.18	0.43
3:AQ:24:ASP:HB2	3:Bx:28:ASN:CG	2.44	0.43
3:AU:33:VAL:CG1	3:AU:44:ARG:HG2	2.49	0.43
3:AY:123:THR:HG23	3:AZ:49:LEU:HD22	2.01	0.43
3:Aa:121:HIS:NE2	3:Aa:125:VAL:HG21	2.32	0.43
3:Ac:37:GLY:O	3:Ac:39:PRO:HD3	2.18	0.43
3:Ad:114:LYS:HB3	3:Ad:116:ASP:OD1	2.18	0.43
3:Ah:11:ARG:NH2	3:Ah:113:LEU:O	2.38	0.43
3:Ak:38:VAL:HG22	3:B8:97:SER:O	2.19	0.43
3:Al:29:VAL:HG13	3:Al:48:SER:HB3	2.00	0.43
3:An:94:ASP:OD1	3:An:95:ALA:N	2.51	0.43
3:Ap:94:ASP:OD1	3:Ap:95:ALA:N	2.51	0.43
3:Aq:98:THR:HG22	3:Aq:101:GLU:HG3	2.00	0.43
3:Aw:106:VAL:CG2	3:Ax:124:ILE:HG13	2.49	0.43
3:Az:12:GLU:OE1	3:Az:12:GLU:N	2.51	0.43
3:A2:98:THR:O	3:A2:102:ARG:HG3	2.19	0.43
3:A4:39:PRO:C	3:A4:40:ILE:HD12	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:2:GLN:O	3:A6:119:LEU:HD13	2.18	0.43
3:A5:82:VAL:HG23	3:A5:83:ARG:HG2	2.00	0.43
3:A5:121:HIS:NE2	3:A5:125:VAL:HG21	2.33	0.43
3:A7:71:GLN:O	3:A7:77:VAL:HA	2.17	0.43
3:A8:123:THR:O	3:A8:127:LEU:HD13	2.18	0.43
3:A9:22:PRO:HA	3:A9:32:VAL:HA	2.01	0.43
3:BA:90[B]:ASP:HB2	3:BB:88:THR:OG1	2.17	0.43
3:BC:4:GLN:CG	3:BD:119:LEU:HD12	2.48	0.43
3:BE:108:MET:O	3:BF:8:LEU:HD13	2.19	0.43
3:BP:31:GLU:OE2	3:BP:44:ARG:HG3	2.19	0.43
3:BR:114:LYS:HB3	3:BR:116:ASP:OD1	2.18	0.43
3:BS:38:VAL:HG12	3:BZ:97:SER:O	2.17	0.43
3:BV:71:GLN:O	3:BV:77:VAL:HA	2.19	0.43
3:BZ:124:ILE:HG23	3:BZ:125:VAL:HG23	2.00	0.43
3:Bb:28:ASN:OD1	3:Bh:25:ILE:HG22	2.19	0.43
3:Bg:1:ALA:HB3	3:Bh:131:TYR:CE1	2.52	0.43
3:Bk:52:THR:HB	3:Bk:54:ASN:OD1	2.18	0.43
3:Bk:61:LEU:O	3:Bk:88:THR:HG23	2.18	0.43
3:Bk:91:PHE:HD1	3:Bl:87:VAL:HG12	1.84	0.43
3:Bv:20:PHE:HB3	3:Bv:32:VAL:HG12	2.00	0.43
3:Bw:44:ARG:O	3:Bw:63:LEU:HD12	2.18	0.43
3:Bx:77:VAL:HG12	3:Bx:79:PRO:HD3	2.00	0.43
3:B3:92:ASP:HB3	3:B4:86:TYR:O	2.18	0.43
3:B8:44:ARG:HH21	3:B8:64:VAL:HG21	1.82	0.43
3:B8:114:LYS:HB3	3:B8:116:ASP:OD1	2.18	0.43
3:B9:97:SER:HA	3:B9:101:GLU:OE2	2.18	0.43
3:CA:49:LEU:HD12	3:CA:58:LYS:O	2.18	0.43
3:CD:57:TYR:O	3:CD:92:ASP:HA	2.17	0.43
3:CD:67:VAL:O	3:CD:82:VAL:HG22	2.18	0.43
3:CP:57:TYR:O	3:CP:92:ASP:HA	2.19	0.43
3:CQ:68:VAL:CG1	3:CQ:81:VAL:HG22	2.48	0.43
3:CS:8:LEU:CD1	3:CT:112:ALA:HA	2.48	0.43
3:1:32:VAL:HG23	3:1:45:PHE:HB3	2.00	0.43
3:7:29:VAL:HA	3:7:48:SER:OG	2.18	0.43
3:8:7:VAL:HA	3:8:18:HIS:O	2.19	0.43
3:C:23:ARG:NH2	3:C:33:VAL:HG11	2.34	0.43
3:E:71:GLN:NE2	3:E:78:THR:O	2.51	0.43
3:Q:44:ARG:O	3:Q:63:LEU:HA	2.18	0.43
3:Q:44:ARG:HH21	3:Q:64:VAL:HG21	1.81	0.43
3:U:72:THR:HA	3:U:76:ILE:O	2.19	0.43
3:W:63:LEU:O	3:W:87:VAL:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:14:THR:HG23	3:Y:16:ASN:OD1	2.18	0.43
3:Y:67:VAL:O	3:Y:81:VAL:HA	2.19	0.43
3:Y:72:THR:HA	3:Y:76:ILE:O	2.17	0.43
3:Y:91:PHE:CE2	3:Z:124:ILE:HD12	2.54	0.43
3:Y:123:THR:CG2	3:Z:49:LEU:HD12	2.45	0.43
3:f:113:LEU:HG	3:f:113:LEU:O	2.19	0.43
3:g:44:ARG:NH2	3:g:64:VAL:HG21	2.34	0.43
3:l:102:ARG:O	3:l:106:VAL:HG23	2.18	0.43
3:m:8:LEU:CD1	3:n:112:ALA:HA	2.48	0.43
3:m:21:VAL:HG22	3:m:34:GLU:HA	2.00	0.43
3:o:102:ARG:O	3:o:106:VAL:HG23	2.19	0.43
3:q:6:LEU:HD12	3:r:119:LEU:CD1	2.46	0.43
3:r:72:THR:HA	3:r:76:ILE:O	2.19	0.43
3:x:62:LYS:HE3	3:x:88:THR:HG1	1.84	0.43
3:AC:29:VAL:HG22	3:AC:48:SER:CB	2.45	0.43
3:AR:37:GLY:HA2	3:AV:99:THR:OG1	2.19	0.43
3:AS:8:LEU:HD23	3:AS:20:PHE:CE2	2.52	0.43
3:AV:21:VAL:C	3:AV:32:VAL:HG13	2.44	0.43
3:AV:121:HIS:O	3:AV:125:VAL:HB	2.18	0.43
3:Ad:93:TYR:CE1	3:Ad:102:ARG:HG3	2.53	0.43
3:Ae:64:VAL:HA	3:Ae:85:SER:O	2.17	0.43
3:Ag:38:VAL:HG12	3:Ag:40:ILE:HG22	2.00	0.43
3:Ak:42:GLU:O	3:Ak:66:PRO:HD2	2.19	0.43
3:Al:25:ILE:HG13	3:Al:30:GLY:CA	2.42	0.43
3:Am:39:PRO:O	3:Am:40:ILE:HD13	2.19	0.43
3:Am:83:ARG:NE	3:An:101:GLU:OE2	2.46	0.43
3:An:38:VAL:HG22	3:CO:98:THR:HG22	2.01	0.43
3:Ar:47:ILE:HD13	3:Ar:61:LEU:CD1	2.48	0.43
3:Au:101:GLU:OE2	3:Av:83:ARG:NE	2.50	0.43
3:Av:122:ASP:CA	3:Av:126:ASN:HB2	2.47	0.43
3:A2:10:ASP:HB2	3:A2:12:GLU:OE1	2.17	0.43
3:A4:118:MET:H	3:A4:118:MET:HG3	1.63	0.43
3:A6:112:ALA:O	3:A6:120:VAL:HG11	2.19	0.43
3:BC:52:THR:HG21	3:BC:58:LYS:HE2	2.00	0.43
3:BF:39:PRO:HA	3:BF:42:GLU:CD	2.43	0.43
3:BG:45:PHE:HA	3:BG:62:LYS:O	2.19	0.43
3:BH:123:THR:HA	3:BH:128:GLN:H	1.84	0.43
3:BH:128:GLN:NE2	3:CT:23:ARG:O	2.52	0.43
3:BM:39:PRO:O	3:BM:40:ILE:HD13	2.18	0.43
3:BM:63:LEU:HB3	3:BM:87:VAL:CG1	2.49	0.43
3:BN:127:LEU:O	3:Bn:23:ARG:NH2	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BS:71:GLN:OE1	3:BS:73:VAL:HG23	2.19	0.43
3:BS:114:LYS:O	3:BS:121:HIS:HB2	2.19	0.43
3:Bb:68:VAL:CG2	3:Bb:81:VAL:HG22	2.46	0.43
3:Bc:104:ASN:HD21	3:Bd:12:GLU:HG2	1.83	0.43
3:Bh:22:PRO:HA	3:Bh:32:VAL:HA	2.01	0.43
3:Bk:68:VAL:HG12	3:Bk:81:VAL:HG22	2.01	0.43
3:Bn:58:LYS:HE2	3:Bn:58:LYS:HB2	1.87	0.43
3:Bw:72:THR:HA	3:Bw:76:ILE:O	2.18	0.43
3:By:21:VAL:C	3:By:32:VAL:HG23	2.43	0.43
3:B7:21:VAL:C	3:B7:32:VAL:HG23	2.43	0.43
3:CC:31:GLU:OE2	3:CC:44:ARG:HG3	2.19	0.43
3:CC:122:ASP:OD1	3:CC:126:ASN:HB2	2.19	0.43
3:CI:3:LEU:CD2	3:CI:25:ILE:HD11	2.47	0.43
3:CL:59:SER:O	3:CL:90:ASP:HA	2.19	0.43
3:CL:113:LEU:O	3:CL:113:LEU:HG	2.19	0.43
3:CM:72:THR:HA	3:CM:76:ILE:O	2.17	0.43
3:CT:113:LEU:HA	3:CT:120:VAL:CG2	2.48	0.43
1:F:181:VAL:HG11	1:F:457:ILE:HG23	2.01	0.43
3:3:118:MET:SD	3:3:118:MET:N	2.76	0.43
3:A:25:ILE:HA	3:A:29:VAL:O	2.19	0.43
3:C:7:VAL:O	3:D:117:LYS:HE2	2.19	0.43
3:O:63:LEU:HB3	3:O:87:VAL:HG11	2.00	0.43
3:S:125:VAL:HG22	3:T:106:VAL:HG21	2.00	0.43
3:W:8:LEU:HD23	3:W:20:PHE:CE1	2.54	0.43
3:Y:121:HIS:HA	3:Y:124:ILE:HG22	2.01	0.43
3:d:23:ARG:CZ	3:d:33:VAL:HG21	2.48	0.43
3:f:63:LEU:HB3	3:f:87:VAL:HG21	1.99	0.43
3:h:11:ARG:HH22	3:h:114:LYS:HA	1.83	0.43
3:h:31:GLU:CB	3:h:46:THR:HG22	2.48	0.43
3:j:57:TYR:O	3:j:92:ASP:HA	2.19	0.43
3:s:33:VAL:CG1	3:s:42:GLU:HG3	2.49	0.43
3:t:71:GLN:NE2	3:t:78:THR:HB	2.34	0.43
3:t:71:GLN:NE2	3:t:78:THR:O	2.51	0.43
3:t:121:HIS:HA	3:t:124:ILE:CG2	2.48	0.43
3:w:68:VAL:CG1	3:w:79:PRO:HB2	2.48	0.43
3:y:127:LEU:CD2	3:z:57:TYR:HB3	2.48	0.43
3:K:33:VAL:HG13	3:K:42:GLU:HG3	2.01	0.43
3:K:51:LYS:HD3	3:K:57:TYR:CE1	2.54	0.43
3:AB:69:GLN:O	3:AB:79:PRO:HA	2.18	0.43
3:AP:43:SER:HA	3:AP:64:VAL:O	2.19	0.43
3:AT:20:PHE:HD1	3:AT:34:GLU:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AT:52:THR:CG2	3:AT:56:ARG:HB2	2.49	0.43
3:AV:94:ASP:OD1	3:AV:95:ALA:N	2.50	0.43
3:AW:49:LEU:HD13	3:AW:59:SER:HB3	1.99	0.43
3:Aa:1:ALA:HA	3:Ab:131:TYR:CZ	2.53	0.43
3:Ab:7:VAL:HA	3:Ab:18:HIS:O	2.19	0.43
3:Ab:12:GLU:OE1	3:Ab:12:GLU:N	2.51	0.43
3:Ad:24:ASP:OD1	3:CR:131:TYR:HB3	2.17	0.43
3:Ad:49:LEU:HD12	3:Ad:58:LYS:O	2.18	0.43
3:Aj:7:VAL:HA	3:Aj:18:HIS:O	2.19	0.43
3:Am:45:PHE:CD1	3:Am:63:LEU:HD12	2.54	0.43
3:Ap:25:ILE:CD1	3:Ap:30:GLY:HA2	2.48	0.43
3:Ap:41:GLY:HA3	3:Ap:68:VAL:CG2	2.49	0.43
3:As:47:ILE:HD13	3:As:61:LEU:HG	2.00	0.43
3:Au:123:THR:O	3:Au:127:LEU:HA	2.19	0.43
3:Aw:130:VAL:HG12	3:Ax:3:LEU:HD11	2.01	0.43
3:A3:102:ARG:NE	3:A4:125:VAL:O	2.50	0.43
3:A4:52:THR:HG21	3:A4:56:ARG:HB2	2.01	0.43
3:A7:98:THR:OG1	3:A7:101:GLU:HG3	2.19	0.43
3:BA:38:VAL:HG12	3:BA:40:ILE:CG1	2.45	0.43
3:BB:3:LEU:CD2	3:BB:25:ILE:HD11	2.42	0.43
3:BC:127:LEU:HD13	3:BD:57:TYR:CE1	2.53	0.43
3:BD:68:VAL:CG1	3:BD:79:PRO:HB2	2.49	0.43
3:BE:3:LEU:HD22	3:BE:22:PRO:HB3	2.01	0.43
3:BV:8:LEU:O	3:BV:9:LYS:HD2	2.18	0.43
3:Bb:71:GLN:NE2	3:Bb:78:THR:HB	2.34	0.43
3:Bd:23:ARG:CZ	3:Bd:33:VAL:HG21	2.48	0.43
3:Bd:23:ARG:NH2	3:Bd:33:VAL:HG21	2.33	0.43
3:Bg:4:GLN:CG	3:Bh:119:LEU:HD12	2.49	0.43
3:Bh:5:ASN:HB3	3:Bh:19:THR:HG23	2.00	0.43
3:Bk:31:GLU:HG2	3:Bk:45:PHE:C	2.43	0.43
3:Bl:98:THR:O	3:Bl:102:ARG:HG3	2.18	0.43
3:Bm:103:ASN:OD1	3:Bn:11:ARG:NH1	2.51	0.43
3:B8:61:LEU:HD12	3:B8:89:VAL:CG1	2.49	0.43
3:B0:48:SER:OG	3:B0:60:THR:HB	2.18	0.43
3:B0:57:TYR:HE2	3:B0:95:ALA:HA	1.84	0.43
3:B0:121:HIS:O	3:B0:125:VAL:HB	2.19	0.43
3:CC:10:ASP:HB2	3:CC:12:GLU:OE1	2.19	0.43
3:CD:68:VAL:CG2	3:CD:79:PRO:HB2	2.49	0.43
3:CH:34:GLU:O	3:CH:42:GLU:HG3	2.19	0.43
3:CN:121:HIS:CE1	3:CN:125:VAL:HG21	2.53	0.43
3:CQ:25:ILE:HA	3:CQ:29:VAL:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CT:60:THR:HG23	3:CT:90:ASP:OD1	2.19	0.43
3:1:123:THR:HG23	3:2:49:LEU:CD1	2.42	0.43
3:8:52:THR:CG2	3:8:56:ARG:HB2	2.49	0.43
3:B:7:VAL:HA	3:B:18:HIS:O	2.18	0.43
3:B:28:ASN:ND2	3:Bd:24:ASP:HB2	2.33	0.43
3:E:89:VAL:CG1	3:Bb:89:VAL:HG13	2.47	0.43
3:O:119:LEU:CD1	3:P:4:GLN:H	2.32	0.43
3:Q:6:LEU:HG	3:Q:8:LEU:CD1	2.49	0.43
3:c:67:VAL:O	3:c:81:VAL:HA	2.18	0.43
3:h:25:ILE:O	3:n:28:ASN:ND2	2.37	0.43
3:i:11:ARG:O	3:j:104:ASN:ND2	2.52	0.43
3:l:52:THR:OG1	3:l:56:ARG:N	2.51	0.43
3:o:31:GLU:HA	3:o:45:PHE:O	2.18	0.43
3:q:63:LEU:O	3:q:87:VAL:HG12	2.18	0.43
3:r:98:THR:O	3:r:102:ARG:HG3	2.19	0.43
3:K:69:GLN:NE2	3:K:82:VAL:HG21	2.34	0.43
3:AB:20:PHE:HB3	3:AB:32:VAL:HG11	2.00	0.43
3:AO:23:ARG:NH1	3:AR:127:LEU:O	2.45	0.43
3:AU:35:SER:OG	3:AU:39:PRO:HA	2.18	0.43
3:AV:123:THR:O	3:AV:127:LEU:HA	2.19	0.43
3:AX:63:LEU:O	3:AX:87:VAL:HG12	2.18	0.43
3:Af:54:ASN:ND2	3:Af:56:ARG:HG2	2.32	0.43
3:Af:113:LEU:O	3:Af:113:LEU:HG	2.18	0.43
3:Ai:74:ASN:HB3	3:Al:73:VAL:HG22	2.01	0.43
3:Aj:68:VAL:HG11	3:Aj:79:PRO:HB2	2.00	0.43
3:Ak:29:VAL:HG22	3:Ak:48:SER:CB	2.42	0.43
3:An:65:VAL:O	3:An:65:VAL:HG13	2.18	0.43
3:Ap:82:VAL:HG23	3:Ap:83:ARG:HG2	2.00	0.43
3:Au:121:HIS:CE1	3:Au:125:VAL:HG21	2.53	0.43
3:Aw:7:VAL:HG22	3:Aw:19:THR:HG23	1.99	0.43
3:Aw:111:ASP:OD2	3:Ax:9:LYS:HG2	2.19	0.43
3:Ay:58:LYS:HG2	3:Ay:92:ASP:CB	2.43	0.43
3:A4:69:GLN:O	3:A4:79:PRO:HA	2.19	0.43
3:A9:7:VAL:CG1	3:A9:17:ASP:HB2	2.49	0.43
3:BE:38:VAL:O	3:BE:40:ILE:N	2.52	0.43
3:BF:71:GLN:O	3:BF:77:VAL:HA	2.18	0.43
3:BM:111:ASP:OD2	3:BN:8:LEU:HD12	2.18	0.43
3:BQ:51:LYS:HE2	3:BQ:57:TYR:CE2	2.53	0.43
3:Bd:47:ILE:HD13	3:Bd:61:LEU:CD1	2.49	0.43
3:Bm:66:PRO:CA	3:Bm:84:THR:HG22	2.42	0.43
3:Bv:21:VAL:H	3:Bv:34:GLU:HB3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bw:38:VAL:HG12	3:Bw:40:ILE:HG12	2.00	0.43
3:Bw:121:HIS:NE2	3:Bw:125:VAL:HG21	2.33	0.43
3:B2:43:SER:HA	3:B2:64:VAL:O	2.19	0.43
3:B2:98:THR:HG22	3:B2:100:LYS:H	1.83	0.43
3:B4:49:LEU:HD12	3:B4:58:LYS:O	2.19	0.43
3:B6:3:LEU:CD2	3:B6:22:PRO:HB3	2.48	0.43
3:B6:57:TYR:HE2	3:B6:95:ALA:HA	1.83	0.43
3:B9:29:VAL:HG13	3:B9:48:SER:OG	2.18	0.43
3:CA:8:LEU:HD23	3:CA:20:PHE:CE1	2.53	0.43
3:CB:98:THR:O	3:CB:102:ARG:HG3	2.19	0.43
3:CB:123:THR:HG23	3:CB:128:GLN:O	2.19	0.43
3:CM:102:ARG:O	3:CM:106:VAL:HG23	2.18	0.43
3:1:93:TYR:CE1	3:1:102:ARG:HG2	2.54	0.43
3:2:98:THR:HA	3:As:37:GLY:O	2.18	0.43
3:4:122:ASP:HB2	3:4:128:GLN:CG	2.48	0.43
3:5:130:VAL:HG11	3:6:30:GLY:N	2.33	0.43
3:P:38:VAL:HG12	3:BQ:97:SER:O	2.18	0.43
3:S:63:LEU:O	3:S:87:VAL:HG12	2.18	0.43
3:i:10:ASP:OD1	3:i:11:ARG:N	2.50	0.43
3:m:24:ASP:CB	3:p:129:GLY:HA3	2.48	0.43
3:r:29:VAL:HG13	3:r:47:ILE:O	2.19	0.43
3:r:94:ASP:OD1	3:r:95:ALA:N	2.50	0.43
3:w:71:GLN:HE22	3:w:73:VAL:HG22	1.83	0.43
3:I:94:ASP:OD1	3:I:95:ALA:N	2.50	0.43
3:J:22:PRO:HA	3:J:32:VAL:HA	2.00	0.43
3:J:33:VAL:CG1	3:J:42:GLU:HG2	2.49	0.43
3:N:94:ASP:OD1	3:N:95:ALA:N	2.52	0.43
3:AB:123:THR:O	3:AB:127:LEU:HA	2.19	0.43
3:AD:11:ARG:NH1	3:AD:115:ALA:HB2	2.34	0.43
3:AO:49:LEU:HD11	3:AO:57:TYR:HB3	2.00	0.43
3:Aa:24:ASP:HB2	3:B2:28:ASN:ND2	2.34	0.43
3:Ac:48:SER:OG	3:Ac:60:THR:HB	2.19	0.43
3:Ak:6:LEU:O	3:Ak:20:PHE:N	2.38	0.43
3:Am:46:THR:HB	3:Am:62:LYS:CB	2.44	0.43
3:Am:71:GLN:O	3:Am:77:VAL:HA	2.18	0.43
3:Aw:102:ARG:O	3:Aw:106:VAL:HG23	2.19	0.43
3:A1:43:SER:HA	3:A1:64:VAL:O	2.18	0.43
3:A5:71:GLN:OE1	3:A5:73:VAL:HG23	2.17	0.43
3:A7:10:ASP:OD2	3:A7:16:ASN:HB2	2.19	0.43
3:BF:59:SER:O	3:BF:90:ASP:HA	2.18	0.43
3:BK:106:VAL:HG22	3:BL:113:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BK:114:LYS:O	3:BK:121:HIS:HB2	2.19	0.43
3:BN:72:THR:HA	3:BN:76:ILE:O	2.19	0.43
3:BO:130:VAL:HG11	3:BP:30:GLY:N	2.34	0.43
3:BS:38:VAL:O	3:BS:40:ILE:N	2.52	0.43
3:BV:43:SER:HA	3:BV:64:VAL:O	2.19	0.43
3:BV:114:LYS:HB3	3:BV:116:ASP:OD1	2.19	0.43
3:BZ:68:VAL:CG1	3:BZ:79:PRO:HB2	2.49	0.43
3:Bj:25:ILE:HD12	3:Bj:30:GLY:HA2	2.01	0.43
3:Bj:33:VAL:HG22	3:Bj:44:ARG:CB	2.49	0.43
3:Bj:47:ILE:HD12	3:Bj:61:LEU:HG	2.00	0.43
3:Bj:114:LYS:O	3:Bj:121:HIS:HB2	2.18	0.43
3:Bl:122:ASP:HA	3:Bl:126:ASN:ND2	2.34	0.43
3:Bw:44:ARG:NH2	3:Bw:64:VAL:HG21	2.34	0.43
3:By:63:LEU:HB3	3:By:87:VAL:CG1	2.49	0.43
3:B1:63:LEU:O	3:B1:87:VAL:HG12	2.19	0.43
3:B3:45:PHE:CE2	3:B3:47:ILE:HD13	2.54	0.43
3:B3:89:VAL:HG12	3:B4:89:VAL:CG1	2.40	0.43
3:B3:131:TYR:CE1	3:B4:1:ALA:HB3	2.54	0.43
3:B4:25:ILE:HG23	3:B4:29:VAL:H	1.84	0.43
3:B4:52:THR:OG1	3:B4:53:SER:N	2.45	0.43
3:CA:66:PRO:CA	3:CA:84:THR:HG22	2.42	0.43
3:CC:58:LYS:HA	3:CC:92:ASP:HA	2.01	0.43
3:CD:98:THR:HG22	3:CD:100:LYS:H	1.84	0.43
3:CQ:66:PRO:HB3	3:CQ:84:THR:HG22	2.01	0.43
3:CS:8:LEU:HD23	3:CS:20:PHE:CE1	2.53	0.43
3:5:23:ARG:NH2	3:5:33:VAL:HG21	2.31	0.43
3:C:72:THR:OG1	3:C:77:VAL:HA	2.19	0.43
3:W:122:ASP:O	3:W:126:ASN:HB2	2.19	0.43
3:a:71:GLN:NE2	3:a:78:THR:HB	2.34	0.43
3:b:94:ASP:OD1	3:b:95:ALA:N	2.52	0.43
3:g:119:LEU:HD12	3:h:4:GLN:CG	2.48	0.43
3:h:92:ASP:OD1	3:h:92:ASP:N	2.50	0.43
3:j:58:LYS:HG2	3:j:92:ASP:HB3	2.00	0.43
3:k:7:VAL:O	3:l:117:LYS:HE2	2.19	0.43
3:k:23:ARG:NH2	3:k:33:VAL:HG11	2.34	0.43
3:o:104:ASN:HD21	3:p:12:GLU:HB3	1.83	0.43
3:o:111:ASP:OD2	3:p:9:LYS:N	2.52	0.43
3:w:23:ARG:O	3:AY:129:GLY:HA3	2.18	0.43
3:z:63:LEU:O	3:z:87:VAL:HG22	2.19	0.43
3:I:120:VAL:O	3:I:124:ILE:HG12	2.19	0.43
3:AB:23:ARG:HH12	3:CB:128:GLN:HA	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AQ:46:THR:OG1	3:AQ:62:LYS:HB2	2.19	0.43
3:AS:9:LYS:NZ	3:AS:15:PRO:HB3	2.33	0.43
3:AU:24:ASP:HB3	3:AX:129:GLY:HA3	1.99	0.43
3:AW:1:ALA:HA	3:AX:128:GLN:HE21	1.84	0.43
3:AZ:52:THR:HG21	3:AZ:56:ARG:HB2	2.00	0.43
3:Ac:110:ALA:HB2	3:Ad:113:LEU:CD1	2.49	0.43
3:Ai:35:SER:HA	3:Ai:42:GLU:HG2	2.01	0.43
3:Aj:20:PHE:HB3	3:Aj:32:VAL:HG11	2.00	0.43
3:Ak:63:LEU:O	3:Ak:87:VAL:HG12	2.19	0.43
3:Ao:3:LEU:HG	3:Ao:22:PRO:HG3	2.01	0.43
3:Ap:38:VAL:HA	3:B9:97:SER:O	2.18	0.43
3:Ay:57:TYR:O	3:Ay:92:ASP:HA	2.19	0.43
3:A1:49:LEU:HD13	3:A1:59:SER:HB3	2.01	0.43
3:A3:29:VAL:CG1	3:A3:46:THR:HG23	2.49	0.43
3:A6:29:VAL:HG13	3:A6:47:ILE:O	2.19	0.43
3:A7:94:ASP:OD1	3:A7:95:ALA:N	2.52	0.43
3:BA:7:VAL:O	3:BA:8:LEU:HD23	2.19	0.43
3:BH:98:THR:HG22	3:BH:100:LYS:H	1.84	0.43
3:BJ:24:ASP:HB2	3:BN:28:ASN:ND2	2.33	0.43
3:BK:62:LYS:HA	3:BK:87:VAL:O	2.19	0.43
3:BO:56:ARG:HG3	3:BO:93:TYR:O	2.18	0.43
3:BQ:117:LYS:NZ	3:BR:6:LEU:HD11	2.33	0.43
3:BS:94:ASP:OD1	3:BS:95:ALA:N	2.51	0.43
3:BS:108:MET:HB3	3:CH:63:LEU:HD21	2.01	0.43
3:BY:130:VAL:HG12	3:BZ:25:ILE:HD13	2.01	0.43
3:Bb:104:ASN:O	3:Bb:108:MET:HG3	2.19	0.43
3:Bd:98:THR:CG2	3:Bd:101:GLU:HG2	2.49	0.43
3:Bj:33:VAL:HG22	3:Bj:44:ARG:HB3	2.01	0.43
3:Bw:71:GLN:O	3:Bw:77:VAL:HA	2.19	0.43
3:Bw:106:VAL:HG21	3:Bx:125:VAL:CG2	2.49	0.43
3:B0:21:VAL:C	3:B0:32:VAL:HG13	2.43	0.43
3:CK:127:LEU:HD13	3:CL:102:ARG:NH1	2.34	0.43
3:CN:31:GLU:HA	3:CN:45:PHE:O	2.19	0.43
3:CS:49:LEU:HD21	3:CT:123:THR:CG2	2.48	0.43
3:CS:71:GLN:O	3:CS:77:VAL:HG13	2.18	0.43
3:CS:119:LEU:HD21	3:CT:3:LEU:CD1	2.49	0.43
3:0:128:GLN:HB3	3:9:1:ALA:H1	1.84	0.42
3:8:46:THR:N	3:8:62:LYS:O	2.48	0.42
3:P:7:VAL:HA	3:P:18:HIS:O	2.19	0.42
3:S:127:LEU:HD13	3:T:102:ARG:NH1	2.34	0.42
3:T:47:ILE:CD1	3:T:61:LEU:HG	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U:112:ALA:HB2	3:V:8:LEU:CD2	2.44	0.42
3:V:49:LEU:HD12	3:V:58:LYS:O	2.18	0.42
3:c:32:VAL:O	3:c:44:ARG:HA	2.19	0.42
3:f:23:ARG:NH2	3:Az:127:LEU:O	2.51	0.42
3:i:24:ASP:HB2	3:l:129:GLY:HA3	2.00	0.42
3:j:32:VAL:O	3:j:44:ARG:HA	2.18	0.42
3:j:72:THR:CB	3:j:77:VAL:HG22	2.48	0.42
3:m:105:PHE:HE2	3:n:87:VAL:HG11	1.84	0.42
3:n:52:THR:OG1	3:n:53:SER:N	2.37	0.42
3:o:40:ILE:HD13	3:BB:96:ARG:HG2	2.00	0.42
3:o:82:VAL:HG23	3:o:83:ARG:HG2	2.01	0.42
3:q:57:TYR:O	3:q:92:ASP:HA	2.18	0.42
3:t:63:LEU:O	3:t:87:VAL:HG12	2.19	0.42
3:t:64:VAL:HG12	3:t:66:PRO:HD3	2.01	0.42
3:v:39:PRO:HA	3:v:42:GLU:OE2	2.19	0.42
3:v:43:SER:HA	3:v:64:VAL:O	2.18	0.42
3:G:6:LEU:HD11	3:H:117:LYS:HG2	2.01	0.42
3:I:69:GLN:HE21	3:BZ:76:ILE:HG13	1.83	0.42
3:L:33:VAL:CG1	3:L:42:GLU:HG3	2.49	0.42
3:AA:1:ALA:HB3	3:AB:131:TYR:HE1	1.84	0.42
3:AB:20:PHE:HA	3:AB:34:GLU:OE1	2.19	0.42
3:AR:18:HIS:HB3	3:AR:34:GLU:OE1	2.19	0.42
3:AU:21:VAL:C	3:AU:32:VAL:HG23	2.44	0.42
3:AV:8:LEU:HD13	3:AV:20:PHE:CE2	2.54	0.42
3:AV:45:PHE:HZ	3:AV:61:LEU:HD13	1.84	0.42
3:AY:97:SER:O	3:B2:38:VAL:HG23	2.19	0.42
3:Ac:8:LEU:HB3	3:Ac:9:LYS:H	1.71	0.42
3:Ae:63:LEU:HB3	3:Ae:87:VAL:CG1	2.49	0.42
3:Ag:49:LEU:HD12	3:Ag:58:LYS:O	2.19	0.42
3:Am:59:SER:O	3:Am:90:ASP:HA	2.20	0.42
3:As:123:THR:O	3:As:127:LEU:HA	2.19	0.42
3:Av:21:VAL:C	3:Av:32:VAL:HG13	2.44	0.42
3:Ax:98:THR:HG22	3:Ax:101:GLU:HG3	2.01	0.42
3:BD:32:VAL:HG12	3:BD:45:PHE:HB3	1.99	0.42
3:BE:61:LEU:HB2	3:BE:89:VAL:HG22	2.00	0.42
3:BF:48:SER:OG	3:BF:60:THR:HB	2.18	0.42
3:BG:8:LEU:HD12	3:BH:111:ASP:O	2.19	0.42
3:BG:20:PHE:HB3	3:BG:32:VAL:HG22	2.01	0.42
3:BG:45:PHE:CZ	3:BG:61:LEU:HD22	2.54	0.42
3:BK:64:VAL:HA	3:BK:85:SER:O	2.18	0.42
3:BS:47:ILE:HA	3:BS:60:THR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bd:8:LEU:HG	3:Bd:20:PHE:HE2	1.83	0.42
3:Bg:61:LEU:HB2	3:Bg:89:VAL:HB	2.00	0.42
3:Bg:97:SER:HB2	3:Bg:101:GLU:HB2	2.01	0.42
3:Bh:6:LEU:HG	3:Bh:8:LEU:CD2	2.48	0.42
3:By:124:ILE:HG23	3:By:125:VAL:HG23	2.00	0.42
3:B1:69:GLN:O	3:B1:80:VAL:N	2.48	0.42
3:B2:58:LYS:HA	3:B2:92:ASP:HA	2.01	0.42
3:B2:68:VAL:CG2	3:B2:81:VAL:HG22	2.49	0.42
3:B5:121:HIS:CE1	3:B5:125:VAL:HG21	2.54	0.42
3:B6:34:GLU:O	3:B6:42:GLU:HB2	2.19	0.42
3:CB:72:THR:HA	3:CB:77:VAL:HG22	2.00	0.42
3:CI:9:LYS:HD3	3:CI:16:ASN:O	2.18	0.42
3:CK:7:VAL:HA	3:CK:18:HIS:O	2.19	0.42
3:CP:49:LEU:HD12	3:CP:58:LYS:O	2.19	0.42
3:CR:10:ASP:OD1	3:CR:11:ARG:N	2.51	0.42
3:CS:22:PRO:N	3:CS:32:VAL:HG23	2.34	0.42
3:0:68:VAL:CG1	3:0:79:PRO:HB2	2.48	0.42
3:3:38:VAL:O	3:3:40:ILE:N	2.53	0.42
3:3:90:ASP:HB2	3:4:88:THR:HG22	2.01	0.42
3:3:97:SER:O	3:B0:38:VAL:HG23	2.19	0.42
3:8:40:ILE:CG2	3:8:68:VAL:HG21	2.45	0.42
3:8:114:LYS:HG3	3:8:116:ASP:H	1.84	0.42
3:D:22:PRO:HB3	3:D:32:VAL:HG12	2.00	0.42
3:P:23:ARG:O	3:BR:128:GLN:NE2	2.52	0.42
3:Q:83:ARG:NE	3:R:101:GLU:OE2	2.48	0.42
3:Q:123:THR:O	3:Q:127:LEU:HA	2.19	0.42
3:S:69:GLN:HE22	3:Z:76:ILE:HG23	1.84	0.42
3:e:14:THR:HG23	3:e:16:ASN:OD1	2.19	0.42
3:e:57:TYR:CD1	3:f:127:LEU:HD23	2.53	0.42
3:l:12:GLU:OE1	3:l:12:GLU:N	2.53	0.42
3:m:7:VAL:O	3:m:8:LEU:HD13	2.18	0.42
3:m:29:VAL:HG13	3:m:46:THR:HG23	2.00	0.42
3:o:24:ASP:HB2	3:BB:28:ASN:CG	2.43	0.42
3:r:47:ILE:HD12	3:r:61:LEU:HG	2.01	0.42
3:r:58:LYS:HA	3:r:91:PHE:O	2.19	0.42
3:y:12:GLU:OE2	3:z:104:ASN:ND2	2.48	0.42
3:I:117:LYS:NZ	3:J:7:VAL:O	2.52	0.42
3:K:6:LEU:O	3:K:19:THR:HA	2.19	0.42
3:AB:77:VAL:HG12	3:AB:79:PRO:HD3	2.01	0.42
3:AO:37:GLY:O	3:AQ:98:THR:HA	2.19	0.42
3:AO:47:ILE:HD12	3:AO:61:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AP:72:THR:HG22	3:AP:75:GLY:H	1.83	0.42
3:AS:44:ARG:HH21	3:AS:64:VAL:HG21	1.85	0.42
3:AU:46:THR:HB	3:AU:62:LYS:CB	2.45	0.42
3:Ad:28:ASN:HD21	3:Ah:25:ILE:H	1.66	0.42
3:Ah:34:GLU:O	3:Ah:42:GLU:HG3	2.19	0.42
3:Ah:50:ARG:HE	3:Ah:58:LYS:HG3	1.84	0.42
3:Ai:102:ARG:HD2	3:Aj:127:LEU:HD11	2.01	0.42
3:Ai:124:ILE:HG23	3:Ai:125:VAL:HG23	2.02	0.42
3:Aj:33:VAL:CG1	3:Aj:42:GLU:HG3	2.49	0.42
3:Ak:30:GLY:O	3:Ak:46:THR:HG22	2.19	0.42
3:Ak:45:PHE:HD1	3:Ak:63:LEU:HB2	1.84	0.42
3:Ak:71:GLN:OE1	3:Ak:73:VAL:HG23	2.18	0.42
3:Al:11:ARG:HH12	3:Al:114:LYS:HA	1.83	0.42
3:Aq:33:VAL:CG1	3:Aq:42:GLU:HG2	2.49	0.42
3:Aw:47:ILE:HD13	3:Aw:61:LEU:HG	2.00	0.42
3:A3:19:THR:O	3:A3:34:GLU:HG3	2.18	0.42
3:A3:71:GLN:HG2	3:A3:78:THR:O	2.18	0.42
3:A5:72:THR:HA	3:A5:76:ILE:O	2.18	0.42
3:A8:21:VAL:C	3:A8:32:VAL:HG13	2.45	0.42
3:BD:47:ILE:HD13	3:BD:61:LEU:CD2	2.50	0.42
3:BD:56:ARG:HD3	3:BD:92:ASP:OD1	2.19	0.42
3:BF:54:ASN:ND2	3:BF:56:ARG:HG2	2.33	0.42
3:BP:9:LYS:HD2	3:BP:17:ASP:HB3	2.00	0.42
3:BS:20:PHE:HB3	3:BS:32:VAL:CG2	2.49	0.42
3:Bb:33:VAL:CG1	3:Bb:42:GLU:HG3	2.49	0.42
3:Bi:45:PHE:CD1	3:Bi:63:LEU:HD12	2.55	0.42
3:Bl:72:THR:HG22	3:Bl:75:GLY:H	1.83	0.42
3:Bn:72:THR:CB	3:Bn:77:VAL:HG22	2.49	0.42
3:Bv:71:GLN:C	3:Bv:77:VAL:HG13	2.44	0.42
3:Bz:20:PHE:HB3	3:Bz:32:VAL:HG12	2.01	0.42
3:Bz:61:LEU:HD13	3:Bz:91:PHE:HE2	1.84	0.42
3:B2:72:THR:HA	3:B2:76:ILE:O	2.18	0.42
3:B3:119:LEU:HD11	3:B4:3:LEU:CD1	2.49	0.42
3:B0:72:THR:HG22	3:B0:75:GLY:H	1.83	0.42
3:CK:33:VAL:CG1	3:CK:44:ARG:HG2	2.49	0.42
3:CT:33:VAL:HG13	3:CT:42:GLU:HB3	2.00	0.42
3:3:70:SER:HA	3:3:79:PRO:HA	2.01	0.42
3:B:58:LYS:HG2	3:B:92:ASP:CB	2.50	0.42
3:P:9:LYS:CE	3:P:15:PRO:HG2	2.48	0.42
3:S:71:GLN:NE2	3:S:78:THR:O	2.51	0.42
3:S:109:ILE:O	3:S:113:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T:28:ASN:ND2	3:Z:24:ASP:HB2	2.34	0.42
3:T:45:PHE:CZ	3:T:47:ILE:HD11	2.54	0.42
3:Y:124:ILE:HD13	3:Z:106:VAL:HG13	2.00	0.42
3:h:33:VAL:CG1	3:h:42:GLU:HG3	2.50	0.42
3:j:31:GLU:HB3	3:j:46:THR:HA	2.00	0.42
3:j:114:LYS:HB3	3:j:116:ASP:OD1	2.19	0.42
3:j:131:TYR:CD1	3:Av:24:ASP:HA	2.55	0.42
3:k:7:VAL:HA	3:k:18:HIS:O	2.19	0.42
3:m:21:VAL:N	3:m:33:VAL:O	2.44	0.42
3:m:38:VAL:O	3:m:40:ILE:N	2.52	0.42
3:m:44:ARG:NH2	3:m:64:VAL:HG11	2.34	0.42
3:o:98:THR:HG22	3:o:101:GLU:HG3	2.02	0.42
3:o:129:GLY:O	3:p:1:ALA:HB3	2.19	0.42
3:q:89:VAL:HG12	3:r:89:VAL:HG22	2.02	0.42
3:r:20:PHE:CD1	3:r:34:GLU:HB2	2.53	0.42
3:s:111:ASP:CB	3:t:8:LEU:HD12	2.40	0.42
3:t:56:ARG:HG3	3:t:93:TYR:O	2.19	0.42
3:t:124:ILE:HG23	3:t:125:VAL:HG23	2.02	0.42
3:u:72:THR:HA	3:u:76:ILE:O	2.19	0.42
3:v:122:ASP:O	3:v:126:ASN:HB2	2.19	0.42
3:y:7:VAL:HG13	3:y:17:ASP:HB2	2.01	0.42
3:y:50:ARG:NH1	3:y:58:LYS:HD2	2.34	0.42
3:y:56:ARG:NH1	3:y:94:ASP:HB3	2.34	0.42
3:y:66:PRO:CA	3:y:84:THR:HG22	2.43	0.42
3:H:41:GLY:HA3	3:H:68:VAL:CG2	2.49	0.42
3:I:119:LEU:HB2	3:J:4:GLN:NE2	2.34	0.42
3:J:71:GLN:O	3:J:77:VAL:HA	2.18	0.42
3:K:33:VAL:CG1	3:K:42:GLU:HG3	2.49	0.42
3:M:61:LEU:O	3:M:88:THR:HA	2.19	0.42
3:AB:71:GLN:HE22	3:AB:73:VAL:HG22	1.84	0.42
3:AC:118:MET:H	3:AC:118:MET:HG3	1.64	0.42
3:AO:38:VAL:HG12	3:AO:40:ILE:CG1	2.49	0.42
3:AT:102:ARG:O	3:AT:106:VAL:HG23	2.20	0.42
3:AW:23:ARG:NH2	3:AW:33:VAL:HG21	2.34	0.42
3:Ab:82:VAL:HG23	3:Ab:83:ARG:HG2	2.01	0.42
3:Ae:66:PRO:CA	3:Ae:84:THR:HG22	2.49	0.42
3:Ag:127:LEU:CD1	3:Ah:49:LEU:HD21	2.49	0.42
3:Aj:65:VAL:O	3:Aj:65:VAL:HG13	2.18	0.42
3:Am:45:PHE:HA	3:Am:62:LYS:O	2.19	0.42
3:Ao:32:VAL:HG13	3:Ao:45:PHE:HB3	2.01	0.42
3:Ap:113:LEU:O	3:Ap:113:LEU:HG	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:As:129:GLY:HA3	3:Ax:23:ARG:O	2.20	0.42
3:A2:38:VAL:HG21	3:B1:96:ARG:HA	2.02	0.42
3:A3:118:MET:SD	3:A3:118:MET:N	2.77	0.42
3:A8:48:SER:OG	3:A8:60:THR:HB	2.19	0.42
3:A0:24:ASP:HA	3:Bv:131:TYR:CD1	2.55	0.42
3:BA:70:SER:HA	3:BA:79:PRO:HA	2.01	0.42
3:BB:49:LEU:HD12	3:BB:58:LYS:O	2.18	0.42
3:BC:102:ARG:O	3:BC:106:VAL:HG23	2.19	0.42
3:BD:23:ARG:NH2	3:BD:33:VAL:HG11	2.34	0.42
3:BH:68:VAL:HG13	3:BH:80:VAL:C	2.44	0.42
3:BH:70:SER:HB2	3:BH:77:VAL:CG1	2.48	0.42
3:BM:8:LEU:CD1	3:BN:112:ALA:HA	2.47	0.42
3:BM:117:LYS:NZ	3:BN:7:VAL:O	2.41	0.42
3:BQ:102:ARG:O	3:BQ:106:VAL:HG23	2.18	0.42
3:BY:29:VAL:HG22	3:BY:48:SER:HB3	2.00	0.42
3:Bc:121:HIS:CE1	3:Bc:125:VAL:HG21	2.54	0.42
3:Bg:8:LEU:HG	3:Bg:20:PHE:HE1	1.85	0.42
3:Bj:73:VAL:O	3:Bj:76:ILE:HG12	2.18	0.42
3:Bk:49:LEU:HD12	3:Bl:123:THR:HG23	2.02	0.42
3:Bk:117:LYS:HD2	3:Bl:6:LEU:CD1	2.49	0.42
3:Bm:97:SER:O	3:Bm:102:ARG:NH1	2.52	0.42
3:Bw:45:PHE:HA	3:Bw:62:LYS:O	2.19	0.42
3:Bw:66:PRO:HB3	3:Bw:84:THR:HG22	2.00	0.42
3:CA:33:VAL:HG11	3:CA:44:ARG:HG2	2.01	0.42
3:CB:6:LEU:HD23	3:CB:7:VAL:N	2.34	0.42
3:CB:49:LEU:HD12	3:CB:58:LYS:O	2.20	0.42
3:CS:61:LEU:HB2	3:CS:89:VAL:CG2	2.49	0.42
3:CT:113:LEU:HA	3:CT:120:VAL:HG21	2.00	0.42
3:0:52:THR:HG21	3:0:56:ARG:O	2.17	0.42
3:2:121:HIS:CE1	3:2:125:VAL:HG21	2.55	0.42
3:8:69:GLN:CA	3:CD:76:ILE:HG13	2.48	0.42
3:A:121:HIS:O	3:A:125:VAL:HB	2.20	0.42
3:E:35:SER:OG	3:E:36:THR:N	2.52	0.42
3:E:61:LEU:O	3:E:88:THR:HA	2.19	0.42
3:R:34:GLU:C	3:R:42:GLU:HB2	2.44	0.42
3:S:61:LEU:O	3:S:88:THR:HA	2.20	0.42
3:U:98:THR:CG2	3:U:101:GLU:HG3	2.50	0.42
3:W:98:THR:OG1	3:W:101:GLU:HG3	2.20	0.42
3:b:105:PHE:O	3:b:109:ILE:HG22	2.19	0.42
3:e:122:ASP:O	3:e:127:LEU:N	2.50	0.42
3:m:21:VAL:HG23	3:m:33:VAL:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:n:52:THR:HG21	3:n:56:ARG:HB2	2.01	0.42
3:q:49:LEU:HD12	3:r:123:THR:CG2	2.48	0.42
3:q:102:ARG:HH12	3:BH:39:PRO:HD3	1.82	0.42
3:s:47:ILE:CD1	3:s:61:LEU:HG	2.49	0.42
3:t:24:ASP:HB2	3:z:28:ASN:CG	2.44	0.42
3:u:8:LEU:CD1	3:v:112:ALA:HA	2.45	0.42
3:u:38:VAL:O	3:u:40:ILE:N	2.53	0.42
3:y:104:ASN:O	3:y:108:MET:HG2	2.20	0.42
3:H:8:LEU:HD23	3:H:20:PHE:CE2	2.54	0.42
3:H:33:VAL:CG1	3:H:42:GLU:HG3	2.49	0.42
3:I:3:LEU:HD21	3:J:130:VAL:HG22	2.01	0.42
3:J:20:PHE:CD1	3:J:34:GLU:HB2	2.54	0.42
3:J:23:ARG:HA	3:CH:128:GLN:HE22	1.84	0.42
3:L:50:ARG:HH12	3:L:52:THR:HG22	1.84	0.42
3:M:63:LEU:O	3:M:87:VAL:HG12	2.18	0.42
3:M:117:LYS:HD2	3:N:6:LEU:CD1	2.49	0.42
3:M:123:THR:O	3:M:127:LEU:HG	2.20	0.42
3:AB:39:PRO:HA	3:AB:42:GLU:CD	2.44	0.42
3:AP:68:VAL:CG2	3:AP:79:PRO:HB2	2.48	0.42
3:AR:40:ILE:HD13	3:AR:79:PRO:HB2	2.02	0.42
3:AT:76:ILE:HD11	3:Bn:69:GLN:CB	2.45	0.42
3:AW:111:ASP:HB3	3:AX:8:LEU:HD12	2.01	0.42
3:AX:98:THR:CG2	3:AX:101:GLU:HG2	2.50	0.42
3:Ac:51:LYS:HE3	3:Ac:57:TYR:HD1	1.84	0.42
3:Af:102:ARG:O	3:Af:106:VAL:HG23	2.19	0.42
3:Ah:6:LEU:HD23	3:Ah:7:VAL:N	2.34	0.42
3:Ah:33:VAL:CG1	3:Ah:42:GLU:HB3	2.50	0.42
3:Ao:8:LEU:HD23	3:Ao:20:PHE:CE1	2.55	0.42
3:Ao:24:ASP:HA	3:Ar:131:TYR:CD1	2.54	0.42
3:Ar:64:VAL:HG12	3:Ar:66:PRO:HD3	2.00	0.42
3:Av:92:ASP:OD1	3:Av:92:ASP:N	2.52	0.42
3:Az:60:THR:HA	3:Az:89:VAL:O	2.19	0.42
3:A1:45:PHE:HA	3:A1:62:LYS:O	2.18	0.42
3:A2:57:TYR:O	3:A2:92:ASP:HA	2.19	0.42
3:A3:24:ASP:CG	3:A6:129:GLY:HA3	2.44	0.42
3:A4:123:THR:O	3:A4:127:LEU:HA	2.19	0.42
3:A6:69:GLN:HE22	3:A6:82:VAL:HG13	1.84	0.42
3:BI:75:GLY:O	3:BI:76:ILE:HD13	2.19	0.42
3:BK:49:LEU:HD11	3:BL:123:THR:OG1	2.19	0.42
3:BO:68:VAL:HA	3:BO:80:VAL:O	2.19	0.42
3:BQ:61:LEU:O	3:BQ:88:THR:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BR:70:SER:HB2	3:BR:77:VAL:CG1	2.50	0.42
3:BS:71:GLN:O	3:BS:77:VAL:HA	2.20	0.42
3:BV:113:LEU:HD12	3:CI:106:VAL:HG12	2.01	0.42
3:BY:98:THR:CG2	3:BY:101:GLU:HG3	2.49	0.42
3:Bh:68:VAL:HG13	3:Bh:80:VAL:O	2.20	0.42
3:Bm:44:ARG:O	3:Bm:63:LEU:HD12	2.20	0.42
3:Bu:99:THR:OG1	3:Bu:102:ARG:NH2	2.53	0.42
3:Bw:8:LEU:CD1	3:Bx:112:ALA:HA	2.46	0.42
3:By:64:VAL:HG12	3:By:66:PRO:HD3	2.00	0.42
3:Bz:3:LEU:HD23	3:Bz:25:ILE:HD11	2.01	0.42
3:B5:20:PHE:HB3	3:B5:32:VAL:CG2	2.50	0.42
3:B7:118:MET:H	3:B7:118:MET:HG3	1.64	0.42
3:B8:122:ASP:HB3	3:B8:128:GLN:CG	2.50	0.42
3:B9:4:GLN:HB2	3:B9:5:ASN:H	1.67	0.42
3:B0:31:GLU:HB3	3:B0:46:THR:HA	2.01	0.42
3:CH:54:ASN:ND2	3:CH:56:ARG:HG2	2.34	0.42
3:CH:60:THR:HA	3:CH:89:VAL:O	2.18	0.42
3:CM:37:GLY:O	3:CM:39:PRO:HD3	2.19	0.42
3:CM:94:ASP:OD1	3:CM:95:ALA:N	2.52	0.42
3:CQ:92:ASP:HB3	3:CR:86:TYR:O	2.19	0.42
3:CR:31:GLU:CB	3:CR:46:THR:HA	2.43	0.42
3:CR:46:THR:OG1	3:CR:62:LYS:HB3	2.19	0.42
1:F:203:ILE:HG12	3:CM:77:VAL:HG11	2.02	0.42
3:1:25:ILE:O	3:Az:28:ASN:ND2	2.53	0.42
3:1:115:ALA:HA	3:1:121:HIS:CD2	2.54	0.42
3:1:118:MET:SD	3:1:118:MET:N	2.78	0.42
3:5:131:TYR:CZ	3:6:1:ALA:HA	2.54	0.42
3:D:7:VAL:HG13	3:D:18:HIS:O	2.20	0.42
3:D:118:MET:SD	3:D:118:MET:N	2.77	0.42
3:E:20:PHE:HB3	3:E:32:VAL:HG22	2.02	0.42
3:P:33:VAL:HG13	3:P:43:SER:O	2.19	0.42
3:P:60:THR:HA	3:P:89:VAL:O	2.19	0.42
3:U:89:VAL:HG13	3:V:89:VAL:CG2	2.43	0.42
3:W:66:PRO:CA	3:W:84:THR:HG22	2.48	0.42
3:a:58:LYS:HD2	3:a:92:ASP:HB3	2.02	0.42
3:a:61:LEU:HB2	3:a:89:VAL:HG22	2.01	0.42
3:b:97:SER:CB	3:b:102:ARG:HD3	2.50	0.42
3:e:37:GLY:O	3:e:39:PRO:HD3	2.19	0.42
3:f:131:TYR:CD1	3:Bj:24:ASP:HA	2.54	0.42
3:g:12:GLU:OE1	3:g:12:GLU:N	2.52	0.42
3:m:49:LEU:CD1	3:m:59:SER:HB3	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:m:58:LYS:HG2	3:m:92:ASP:HB3	2.00	0.42
3:n:46:THR:CB	3:n:62:LYS:HD3	2.49	0.42
3:o:10:ASP:CG	3:p:108:MET:HE2	2.44	0.42
3:p:44:ARG:NH2	3:p:64:VAL:HG21	2.35	0.42
3:K:7:VAL:HG22	3:K:19:THR:OG1	2.20	0.42
3:AA:4:GLN:O	3:AA:22:PRO:HG3	2.20	0.42
3:AA:72:THR:OG1	3:AA:77:VAL:HG22	2.20	0.42
3:AC:63:LEU:O	3:AC:87:VAL:HG12	2.20	0.42
3:AD:72:THR:HA	3:AD:76:ILE:O	2.19	0.42
3:AO:8:LEU:CD2	3:AP:112:ALA:HA	2.50	0.42
3:AS:8:LEU:CD1	3:AT:112:ALA:HA	2.47	0.42
3:AV:113:LEU:HA	3:AV:120:VAL:CG1	2.45	0.42
3:Aa:22:PRO:HB3	3:Aa:32:VAL:HG12	2.01	0.42
3:Ac:3:LEU:HD21	3:Ad:130:VAL:CG2	2.49	0.42
3:Ae:66:PRO:CB	3:Ae:84:THR:HG22	2.50	0.42
3:An:98:THR:O	3:An:102:ARG:HG3	2.20	0.42
3:Ao:38:VAL:O	3:Ao:40:ILE:N	2.53	0.42
3:Ao:125:VAL:CG2	3:Ap:106:VAL:HG21	2.49	0.42
3:At:45:PHE:HA	3:At:62:LYS:O	2.19	0.42
3:Az:7:VAL:HG12	3:Az:19:THR:CA	2.44	0.42
3:A5:67:VAL:O	3:A5:81:VAL:HG13	2.20	0.42
3:A9:102:ARG:O	3:A9:106:VAL:HG23	2.19	0.42
3:A0:21:VAL:C	3:A0:32:VAL:HG13	2.44	0.42
3:BC:121:HIS:NE2	3:BC:125:VAL:HG21	2.34	0.42
3:BI:2:GLN:HA	3:BJ:131:TYR:O	2.20	0.42
3:BI:131:TYR:HB2	3:CC:25:ILE:CD1	2.49	0.42
3:BJ:49:LEU:HD12	3:BJ:58:LYS:O	2.19	0.42
3:BK:121:HIS:CE1	3:BK:125:VAL:HG21	2.54	0.42
3:BM:35:SER:OG	3:BM:39:PRO:HA	2.19	0.42
3:BP:71:GLN:O	3:BP:77:VAL:HA	2.19	0.42
3:BR:34:GLU:O	3:BR:42:GLU:HG3	2.19	0.42
3:BS:106:VAL:CG1	3:CH:113:LEU:HD13	2.50	0.42
3:BZ:71:GLN:O	3:BZ:77:VAL:HA	2.19	0.42
3:Bc:91:PHE:CE2	3:Bd:124:ILE:HD12	2.54	0.42
3:Bg:117:LYS:HE2	3:Bh:8:LEU:HD13	2.00	0.42
3:By:120:VAL:O	3:By:124:ILE:HG22	2.19	0.42
3:B3:98:THR:O	3:B3:102:ARG:HG3	2.19	0.42
3:B9:64:VAL:HG12	3:B9:66:PRO:HD3	2.00	0.42
3:B0:121:HIS:CD2	3:B0:125:VAL:HG21	2.55	0.42
3:CH:69:GLN:O	3:CH:80:VAL:N	2.43	0.42
3:CI:66:PRO:CA	3:CI:84:THR:HG22	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:9:LYS:CE	3:CL:15:PRO:HB2	2.49	0.42
3:CL:45:PHE:HA	3:CL:62:LYS:O	2.19	0.42
3:CO:72:THR:HA	3:CO:76:ILE:O	2.20	0.42
3:CS:106:VAL:CG1	3:CT:113:LEU:HD12	2.49	0.42
3:CT:65:VAL:HG13	3:CT:65:VAL:O	2.18	0.42
3:1:92:ASP:N	3:1:92:ASP:OD1	2.53	0.42
3:5:51:LYS:CE	3:5:55:GLY:HA2	2.48	0.42
3:8:71:GLN:O	3:8:77:VAL:HG13	2.19	0.42
3:8:96:ARG:NH2	3:AD:79:PRO:HD2	2.34	0.42
3:R:20:PHE:CD1	3:R:34:GLU:HB2	2.55	0.42
3:S:35:SER:CB	3:S:42:GLU:HG3	2.49	0.42
3:T:94:ASP:OD1	3:T:95:ALA:N	2.52	0.42
3:W:94:ASP:OD1	3:W:95:ALA:N	2.52	0.42
3:X:20:PHE:HD1	3:X:34:GLU:HB2	1.84	0.42
3:e:7:VAL:HG13	3:e:17:ASP:HB2	2.01	0.42
3:i:38:VAL:O	3:i:40:ILE:N	2.52	0.42
3:i:52:THR:HB	3:i:54:ASN:OD1	2.19	0.42
3:i:118:MET:H	3:i:118:MET:HG3	1.65	0.42
3:j:20:PHE:CE2	3:j:34:GLU:HB2	2.55	0.42
3:m:37:GLY:O	3:m:39:PRO:HD3	2.19	0.42
3:n:33:VAL:CG1	3:n:42:GLU:HB3	2.49	0.42
3:q:46:THR:HB	3:q:62:LYS:CB	2.47	0.42
3:q:117:LYS:HD2	3:r:6:LEU:HD11	2.01	0.42
3:t:23:ARG:NH2	3:t:33:VAL:HG21	2.35	0.42
3:v:24:ASP:OD2	3:At:129:GLY:HA3	2.18	0.42
3:z:58:LYS:HG2	3:z:92:ASP:CB	2.49	0.42
3:G:7:VAL:HA	3:G:18:HIS:O	2.19	0.42
3:M:47:ILE:HA	3:M:60:THR:O	2.20	0.42
3:AA:35:SER:OG	3:AA:36:THR:N	2.52	0.42
3:AA:39:PRO:O	3:AA:40:ILE:HD13	2.20	0.42
3:AC:23:ARG:NH2	3:AC:33:VAL:HG21	2.34	0.42
3:AD:22:PRO:HA	3:AD:32:VAL:HG12	2.02	0.42
3:AU:98:THR:O	3:AU:102:ARG:HG3	2.20	0.42
3:AV:46:THR:HB	3:AV:62:LYS:HB2	2.00	0.42
3:AZ:21:VAL:C	3:AZ:32:VAL:HG13	2.44	0.42
3:Aa:120:VAL:O	3:Aa:124:ILE:HG22	2.20	0.42
3:Ab:11:ARG:NH2	3:Ab:114:LYS:HA	2.30	0.42
3:Ab:25:ILE:HG23	3:Ab:29:VAL:C	2.45	0.42
3:Ad:41:GLY:CA	3:Ad:66:PRO:HG2	2.39	0.42
3:Ae:89:VAL:HG12	3:Af:89:VAL:CG1	2.44	0.42
3:Ai:23:ARG:HH22	3:Ai:35:SER:HB3	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ai:25:ILE:HG13	3:Ai:30:GLY:N	2.35	0.42
3:As:3:LEU:HB3	3:As:22:PRO:CG	2.50	0.42
3:At:98:THR:O	3:At:102:ARG:HG3	2.19	0.42
3:Aw:4:GLN:HE21	3:Ax:119:LEU:HB2	1.83	0.42
3:Aw:63:LEU:O	3:Aw:87:VAL:HG12	2.20	0.42
3:A2:8:LEU:HD13	3:A2:20:PHE:CE1	2.55	0.42
3:A2:21:VAL:C	3:A2:32:VAL:HG13	2.45	0.42
3:A6:94:ASP:OD1	3:A6:95:ALA:N	2.53	0.42
3:A7:18:HIS:HB3	3:A7:34:GLU:OE1	2.20	0.42
3:BI:23:ARG:NH2	3:BI:33:VAL:HG11	2.35	0.42
3:BJ:116:ASP:OD1	3:BJ:116:ASP:N	2.52	0.42
3:BK:61:LEU:O	3:BK:88:THR:HA	2.20	0.42
3:BM:37:GLY:O	3:BM:39:PRO:HD3	2.19	0.42
3:BQ:10:ASP:HA	3:BR:108:MET:HE3	2.02	0.42
3:BS:71:GLN:NE2	3:BS:78:THR:OG1	2.52	0.42
3:BV:97:SER:HA	3:CI:83:ARG:CD	2.50	0.42
3:BZ:98:THR:O	3:BZ:102:ARG:HG3	2.19	0.42
3:Bc:68:VAL:HG13	3:Bc:80:VAL:O	2.19	0.42
3:Bg:101:GLU:N	3:Bg:101:GLU:OE1	2.52	0.42
3:Bh:122:ASP:O	3:Bh:126:ASN:HB2	2.19	0.42
3:Bk:119:LEU:HD21	3:Bl:3:LEU:HD12	2.00	0.42
3:Bn:66:PRO:HB3	3:Bn:84:THR:OG1	2.19	0.42
3:Bv:3:LEU:HD11	3:Bv:32:VAL:HG22	2.02	0.42
3:Bw:108:MET:O	3:Bx:8:LEU:HD11	2.20	0.42
3:Bx:68:VAL:CG2	3:Bx:81:VAL:HG22	2.46	0.42
3:By:117:LYS:HD2	3:Bz:6:LEU:CD1	2.50	0.42
3:B1:33:VAL:HG12	3:B1:43:SER:C	2.44	0.42
3:B2:33:VAL:HG13	3:B2:42:GLU:HB3	2.01	0.42
3:B2:77:VAL:HG12	3:B2:79:PRO:HD3	2.02	0.42
3:B3:38:VAL:HG12	3:B3:40:ILE:CG1	2.43	0.42
3:B8:32:VAL:O	3:B8:44:ARG:HA	2.18	0.42
3:CL:23:ARG:HD2	3:CL:33:VAL:HB	2.01	0.42
3:CO:131:TYR:CE1	3:CP:1:ALA:HA	2.55	0.42
3:CQ:33:VAL:HG12	3:CQ:44:ARG:CA	2.46	0.42
3:CQ:105:PHE:HE2	3:CR:87:VAL:HG11	1.84	0.42
3:CR:8:LEU:HB2	3:CR:20:PHE:HE1	1.84	0.42
3:CR:60:THR:C	3:CR:61:LEU:HD22	2.44	0.42
3:CR:73:VAL:O	3:CR:76:ILE:HG12	2.20	0.42
3:8:114:LYS:O	3:8:121:HIS:HB2	2.19	0.42
3:9:11:ARG:NH1	3:9:115:ALA:HB2	2.35	0.42
3:A:58:LYS:HB3	3:A:92:ASP:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:94:ASP:OD1	3:A:95:ALA:N	2.52	0.42
3:B:72:THR:HA	3:B:76:ILE:O	2.20	0.42
3:R:98:THR:O	3:R:102:ARG:HG3	2.19	0.42
3:V:7:VAL:HG22	3:V:19:THR:HA	2.02	0.42
3:W:7:VAL:O	3:W:8:LEU:HD13	2.19	0.42
3:W:89:VAL:HG12	3:X:89:VAL:CG1	2.45	0.42
3:a:44:ARG:O	3:a:63:LEU:HA	2.19	0.42
3:a:97:SER:O	3:CB:38:VAL:HG23	2.20	0.42
3:j:128:GLN:NE2	3:Av:23:ARG:O	2.52	0.42
3:n:24:ASP:OD1	3:Bl:131:TYR:HB3	2.19	0.42
3:r:67:VAL:O	3:r:82:VAL:HG22	2.19	0.42
3:s:98:THR:CG2	3:s:101:GLU:HG2	2.50	0.42
3:u:52:THR:HB	3:u:54:ASN:OD1	2.20	0.42
3:u:94:ASP:OD1	3:u:95:ALA:N	2.50	0.42
3:y:63:LEU:O	3:y:87:VAL:HG12	2.19	0.42
3:H:6:LEU:HG	3:H:8:LEU:CD2	2.50	0.42
3:K:52:THR:HG21	3:K:58:LYS:HE3	2.00	0.42
3:K:71:GLN:O	3:K:77:VAL:HA	2.19	0.42
3:K:72:THR:HA	3:K:76:ILE:O	2.18	0.42
3:M:58:LYS:HG2	3:M:92:ASP:CB	2.48	0.42
3:N:47:ILE:CD1	3:N:61:LEU:HG	2.47	0.42
3:AB:49:LEU:HD12	3:AB:58:LYS:O	2.20	0.42
3:AB:98:THR:O	3:AB:102:ARG:HG3	2.20	0.42
3:AO:57:TYR:CD2	3:AP:127:LEU:HD13	2.46	0.42
3:AZ:33:VAL:HA	3:AZ:43:SER:O	2.20	0.42
3:Ab:63:LEU:O	3:Ab:87:VAL:HG12	2.19	0.42
3:Ai:23:ARG:NH2	3:Ai:35:SER:HB3	2.34	0.42
3:Am:72:THR:OG1	3:Am:77:VAL:HG22	2.19	0.42
3:Aq:98:THR:CG2	3:Aq:101:GLU:HG3	2.50	0.42
3:Aq:129:GLY:HA3	3:CO:24:ASP:CG	2.44	0.42
3:As:71:GLN:NE2	3:As:78:THR:O	2.53	0.42
3:Av:58:LYS:HA	3:Av:91:PHE:O	2.20	0.42
3:Ax:71:GLN:OE1	3:Ax:73:VAL:HG23	2.20	0.42
3:Ax:95:ALA:O	3:A1:39:PRO:HD2	2.19	0.42
3:A1:111:ASP:OD2	3:A2:9:LYS:N	2.53	0.42
3:A4:98:THR:O	3:A4:102:ARG:HG3	2.20	0.42
3:A5:129:GLY:O	3:A6:1:ALA:N	2.52	0.42
3:A8:7:VAL:HG12	3:A8:19:THR:HA	2.01	0.42
3:BA:39:PRO:O	3:BA:40:ILE:HD13	2.19	0.42
3:BC:113:LEU:O	3:BC:113:LEU:HD23	2.19	0.42
3:BE:123:THR:CG2	3:BF:49:LEU:HD22	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:11:ARG:HD2	3:BJ:103:ASN:O	2.19	0.42
3:BJ:23:ARG:HG3	3:BJ:24:ASP:OD1	2.18	0.42
3:BL:12:GLU:OE1	3:BL:12:GLU:N	2.53	0.42
3:BM:89:VAL:CG1	3:BN:89:VAL:HG22	2.50	0.42
3:BO:104:ASN:HB3	3:BP:10:ASP:OD2	2.20	0.42
3:BP:29:VAL:HG13	3:BP:48:SER:HB3	2.02	0.42
3:BS:1:ALA:HA	3:CH:131:TYR:CE1	2.54	0.42
3:Bb:61:LEU:HB2	3:Bb:89:VAL:HB	2.01	0.42
3:Bb:69:GLN:CB	3:B4:76:ILE:HD11	2.50	0.42
3:Bh:8:LEU:HD23	3:Bh:20:PHE:CD2	2.54	0.42
3:Bw:123:THR:O	3:Bw:127:LEU:HA	2.19	0.42
3:Bx:46:THR:CB	3:Bx:62:LYS:HB2	2.44	0.42
3:Bx:98:THR:HG22	3:Bx:100:LYS:H	1.85	0.42
3:B9:6:LEU:HG	3:B9:8:LEU:CD2	2.50	0.42
3:B0:7:VAL:HG12	3:B0:19:THR:HA	2.02	0.42
3:CM:10:ASP:OD1	3:CN:108:MET:HE1	2.20	0.42
3:CM:52:THR:HB	3:CM:54:ASN:OD1	2.20	0.42
3:CR:41:GLY:HA2	3:CR:66:PRO:CG	2.48	0.42
3:0:6:LEU:HG	3:0:8:LEU:CD2	2.50	0.42
3:3:36:THR:HG23	3:3:38:VAL:H	1.85	0.42
3:3:52:THR:HG22	3:3:54:ASN:H	1.85	0.42
3:5:86:TYR:H	3:6:92:ASP:HB3	1.84	0.42
3:7:28:ASN:HD21	3:CD:26:ARG:HB3	1.84	0.42
3:A:23:ARG:HB3	3:A:31:GLU:O	2.19	0.42
3:D:3:LEU:HD21	3:D:22:PRO:CB	2.49	0.42
3:D:8:LEU:HD23	3:D:20:PHE:CE1	2.55	0.42
3:E:24:ASP:OD1	3:E:25:ILE:N	2.50	0.42
3:O:60:THR:O	3:O:61:LEU:HD23	2.20	0.42
3:O:119:LEU:HD12	3:P:4:GLN:CD	2.44	0.42
3:R:9:LYS:HG3	3:R:16:ASN:O	2.20	0.42
3:R:44:ARG:O	3:R:63:LEU:HA	2.19	0.42
3:S:10:ASP:HB3	3:S:16:ASN:HB2	2.02	0.42
3:a:38:VAL:O	3:a:40:ILE:N	2.53	0.42
3:b:25:ILE:CD1	3:b:30:GLY:HA2	2.50	0.42
3:d:46:THR:OG1	3:d:62:LYS:HB2	2.20	0.42
3:i:4:GLN:NE2	3:j:118:MET:SD	2.92	0.42
3:m:6:LEU:HG	3:m:8:LEU:CD2	2.50	0.42
3:m:71:GLN:OE1	3:m:73:VAL:HG23	2.18	0.42
3:o:92:ASP:N	3:o:92:ASP:OD1	2.53	0.42
3:o:131:TYR:HB2	3:BE:25:ILE:HD12	2.01	0.42
3:p:59:SER:OG	3:p:91:PHE:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:u:127:LEU:HD23	3:v:57:TYR:HB3	2.02	0.42
3:z:23:ARG:HH11	3:z:33:VAL:HG21	1.85	0.42
3:z:25:ILE:HA	3:z:29:VAL:O	2.20	0.42
3:M:94:ASP:OD2	3:M:96:ARG:HB2	2.20	0.42
3:AC:63:LEU:HB3	3:AC:87:VAL:CG1	2.50	0.42
3:AO:97:SER:O	3:Bx:39:PRO:HD2	2.19	0.42
3:AV:98:THR:O	3:AV:102:ARG:HG3	2.20	0.42
3:AW:25:ILE:HD11	3:AW:28:ASN:CA	2.42	0.42
3:Ac:21:VAL:C	3:Ac:32:VAL:HG23	2.44	0.42
3:Ae:50:ARG:HH22	3:Ae:58:LYS:HE3	1.84	0.42
3:Aj:59:SER:O	3:Aj:90:ASP:HA	2.20	0.42
3:Al:66:PRO:HA	3:Al:84:THR:HG23	2.02	0.42
3:Am:68:VAL:CG1	3:Am:81:VAL:HG22	2.49	0.42
3:An:51:LYS:NZ	3:An:55:GLY:HA2	2.34	0.42
3:Aq:74:ASN:O	3:CM:72:THR:HG22	2.20	0.42
3:Au:3:LEU:HD12	3:Av:130:VAL:CG2	2.49	0.42
3:Au:8:LEU:HG	3:Av:112:ALA:HA	2.01	0.42
3:Av:47:ILE:HD13	3:Av:61:LEU:CG	2.45	0.42
3:Aw:67:VAL:O	3:Aw:81:VAL:HG13	2.20	0.42
3:Ax:63:LEU:O	3:Ax:87:VAL:HG12	2.20	0.42
3:A1:21:VAL:O	3:A1:32:VAL:HG23	2.20	0.42
3:A3:23:ARG:HA	3:A6:128:GLN:OE1	2.20	0.42
3:A5:22:PRO:HB3	3:A5:32:VAL:HG12	2.01	0.42
3:A7:9:LYS:HD2	3:A7:15:PRO:CB	2.50	0.42
3:A7:32:VAL:CG1	3:A7:45:PHE:HB3	2.47	0.42
3:A7:35:SER:CA	3:A7:42:GLU:HG2	2.41	0.42
3:A7:51:LYS:HD3	3:A7:57:TYR:CD1	2.55	0.42
3:BD:23:ARG:HH21	3:BD:33:VAL:HG11	1.84	0.42
3:BD:31:GLU:HG3	3:BD:46:THR:HG22	2.02	0.42
3:BK:33:VAL:HG12	3:BK:44:ARG:CA	2.41	0.42
3:BM:37:GLY:O	3:BO:98:THR:HA	2.20	0.42
3:BQ:111:ASP:OD2	3:BR:9:LYS:N	2.53	0.42
3:BV:29:VAL:HG22	3:BV:48:SER:CB	2.50	0.42
3:BV:54:ASN:ND2	3:BV:56:ARG:HG2	2.33	0.42
3:Bc:120:VAL:O	3:Bc:124:ILE:HG22	2.20	0.42
3:Bu:104:ASN:HB3	3:Bv:10:ASP:OD2	2.20	0.42
3:B5:66:PRO:CA	3:B5:84:THR:HG22	2.43	0.42
3:B0:3:LEU:HD21	3:B0:22:PRO:HB3	2.02	0.42
3:CC:63:LEU:HB3	3:CC:87:VAL:HG13	2.01	0.42
3:CL:46:THR:HB	3:CL:62:LYS:HB2	2.02	0.42
3:CM:4:GLN:NE2	3:CN:119:LEU:HB2	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CO:44:ARG:NH2	3:CO:64:VAL:HG11	2.35	0.42
3:CP:20:PHE:CD1	3:CP:34:GLU:HB2	2.55	0.42
3:CT:61:LEU:HB2	3:CT:89:VAL:HB	2.01	0.42
2:AE:561:A:C4'	3:BG:60:THR:HG21	2.50	0.42
3:4:129:GLY:H	3:B0:23:ARG:HD2	1.85	0.42
3:5:6:LEU:HD12	3:6:117:LYS:HG2	2.02	0.42
3:5:96:ARG:NH2	3:6:82:VAL:O	2.53	0.42
3:8:98:THR:O	3:8:102:ARG:HG3	2.20	0.42
3:9:7:VAL:HG22	3:9:19:THR:HA	2.01	0.42
3:9:31:GLU:CB	3:9:46:THR:HG22	2.48	0.42
3:O:121:HIS:CD2	3:O:125:VAL:HG21	2.55	0.42
3:R:59:SER:O	3:R:90:ASP:HA	2.20	0.42
3:S:49:LEU:CD2	3:S:59:SER:HB3	2.49	0.42
3:T:21:VAL:O	3:T:32:VAL:HG23	2.20	0.42
3:b:6:LEU:O	3:b:20:PHE:N	2.43	0.42
3:b:51:LYS:HE2	3:b:57:TYR:CD1	2.54	0.42
3:g:61:LEU:HB2	3:g:89:VAL:O	2.20	0.42
3:i:66:PRO:CB	3:i:84:THR:HG22	2.50	0.42
3:m:38:VAL:HG12	3:m:40:ILE:HG12	2.01	0.42
3:s:3:LEU:HD21	3:s:22:PRO:CB	2.50	0.42
3:w:89:VAL:HG13	3:x:89:VAL:HG22	2.02	0.42
3:z:23:ARG:HA	3:BL:128:GLN:HE22	1.85	0.42
3:M:38:VAL:O	3:M:40:ILE:N	2.53	0.42
3:AC:63:LEU:HB3	3:AC:87:VAL:HG11	2.02	0.42
3:AD:62:LYS:HE3	3:AD:88:THR:OG1	2.20	0.42
3:AQ:113:LEU:O	3:AQ:113:LEU:HD23	2.19	0.42
3:AQ:127:LEU:HD13	3:AR:57:TYR:CZ	2.55	0.42
3:AT:82:VAL:HG23	3:AT:83:ARG:HG2	2.02	0.42
3:Af:48:SER:OG	3:Af:60:THR:HB	2.20	0.42
3:Ai:37:GLY:O	3:Ak:98:THR:HA	2.19	0.42
3:Ai:48:SER:CB	3:Ai:60:THR:HB	2.45	0.42
3:Aj:98:THR:O	3:Aj:102:ARG:HG3	2.18	0.42
3:Ak:118:MET:HE2	3:Al:4:GLN:NE2	2.27	0.42
3:Ap:129:GLY:HA3	3:CN:24:ASP:OD2	2.19	0.42
3:Aq:8:LEU:HD21	3:Ar:108:MET:CA	2.47	0.42
3:Av:121:HIS:O	3:Av:125:VAL:HB	2.20	0.42
3:A3:52:THR:HB	3:A3:54:ASN:OD1	2.20	0.42
3:A5:123:THR:HG23	3:A6:49:LEU:HD22	2.02	0.42
3:A7:63:LEU:O	3:A7:87:VAL:HG12	2.20	0.42
3:A9:40:ILE:HG21	3:A9:79:PRO:HG2	2.02	0.42
3:A9:51:LYS:HE3	3:A9:57:TYR:CE1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:46:THR:OG1	3:BC:62:LYS:HB2	2.18	0.42
3:BD:63:LEU:HB3	3:BD:87:VAL:CG1	2.50	0.42
3:BG:98:THR:HG22	3:CT:38:VAL:HG12	2.02	0.42
3:BI:14:THR:HG23	3:BI:16:ASN:ND2	2.34	0.42
3:BI:40:ILE:HD11	3:CT:96:ARG:HG3	2.02	0.42
3:BK:20:PHE:CD2	3:BK:34:GLU:HB2	2.55	0.42
3:Bc:12:GLU:OE2	3:Bd:104:ASN:ND2	2.31	0.42
3:Bc:44:ARG:NH2	3:Bc:64:VAL:HG21	2.34	0.42
3:Bk:109:ILE:O	3:Bk:113:LEU:HG	2.19	0.42
3:Bu:64:VAL:HG13	3:Bu:85:SER:O	2.19	0.42
3:B1:90:ASP:OD1	3:B2:88:THR:OG1	2.30	0.42
3:B2:62:LYS:HE2	3:B2:88:THR:HG22	2.02	0.42
3:B2:118:MET:H	3:B2:118:MET:HG3	1.63	0.42
3:B3:30:GLY:O	3:B3:46:THR:HG23	2.20	0.42
3:B5:89:VAL:HG12	3:B6:89:VAL:HA	2.01	0.42
3:CA:61:LEU:HB2	3:CA:89:VAL:CG2	2.49	0.42
3:CI:7:VAL:CG1	3:CI:17:ASP:HB2	2.50	0.42
3:CL:73:VAL:HB	3:CL:76:ILE:CG1	2.47	0.42
3:CM:3:LEU:HB3	3:CM:22:PRO:CG	2.49	0.42
3:CO:61:LEU:HB2	3:CO:89:VAL:CG2	2.50	0.42
3:CO:102:ARG:HD2	3:CP:127:LEU:HD21	2.02	0.42
3:CR:70:SER:HB2	3:CR:77:VAL:HG13	2.01	0.42
3:CS:28:ASN:ND2	3:CT:130:VAL:O	2.51	0.42
3:CS:124:ILE:HG23	3:CS:125:VAL:HG23	2.01	0.42
3:1:38:VAL:HG12	3:1:40:ILE:HG22	2.02	0.42
3:3:8:LEU:HD23	3:3:20:PHE:HE2	1.84	0.42
3:3:33:VAL:CG1	3:3:44:ARG:HG3	2.49	0.42
3:3:117:LYS:HD2	3:4:6:LEU:CD1	2.50	0.42
3:4:34:GLU:O	3:4:42:GLU:HA	2.20	0.42
3:7:1:ALA:N	3:8:129:GLY:O	2.44	0.42
3:9:39:PRO:HG2	3:CD:95:ALA:O	2.20	0.42
3:B:24:ASP:OD2	3:B6:129:GLY:HA3	2.19	0.42
3:O:112:ALA:HA	3:O:117:LYS:HG3	2.01	0.42
3:P:48:SER:OG	3:P:60:THR:HB	2.20	0.42
3:P:52:THR:CG2	3:P:56:ARG:HB2	2.49	0.42
3:Q:4:GLN:NE2	3:R:119:LEU:HB2	2.33	0.42
3:U:49:LEU:HD12	3:U:58:LYS:O	2.20	0.42
3:Y:106:VAL:HG11	3:Z:125:VAL:HG22	2.01	0.42
3:b:24:ASP:OD2	3:Bx:129:GLY:HA3	2.20	0.42
3:c:69:GLN:O	3:c:79:PRO:HA	2.19	0.42
3:d:63:LEU:O	3:d:87:VAL:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:66:PRO:CA	3:e:84:THR:HG22	2.45	0.42
3:w:129:GLY:HA3	3:Ac:24:ASP:CG	2.45	0.42
3:y:38:VAL:O	3:y:40:ILE:N	2.53	0.42
3:H:93:TYR:CD1	3:H:102:ARG:HG2	2.55	0.42
3:H:98:THR:CG2	3:H:101:GLU:HG3	2.50	0.42
3:K:83:ARG:NH2	3:L:101:GLU:OE2	2.32	0.42
3:L:94:ASP:OD1	3:L:95:ALA:N	2.52	0.42
3:M:63:LEU:HB3	3:M:87:VAL:CG1	2.50	0.42
3:AQ:7:VAL:HA	3:AQ:18:HIS:O	2.20	0.42
3:AR:72:THR:HA	3:AR:76:ILE:O	2.19	0.42
3:AS:49:LEU:HD11	3:AT:123:THR:CG2	2.50	0.42
3:AW:98:THR:HG22	3:AW:101:GLU:HG3	2.02	0.42
3:AX:23:ARG:NH2	3:AX:33:VAL:HG21	2.35	0.42
3:AY:33:VAL:CG1	3:AY:44:ARG:HA	2.42	0.42
3:Ac:8:LEU:HD23	3:Ac:20:PHE:HE1	1.85	0.42
3:Ae:97:SER:O	3:CP:38:VAL:HA	2.20	0.42
3:Ag:104:ASN:ND2	3:Ah:10:ASP:OD1	2.52	0.42
3:Ai:128:GLN:CD	3:Bg:21:VAL:HG11	2.45	0.42
3:Al:98:THR:CG2	3:Al:101:GLU:HG2	2.49	0.42
3:An:23:ARG:HB2	3:An:33:VAL:HG23	2.01	0.42
3:An:38:VAL:HG12	3:An:40:ILE:HG12	2.02	0.42
3:An:122:ASP:HA	3:An:126:ASN:HD22	1.85	0.42
3:Ao:8:LEU:HB3	3:Ap:108:MET:CE	2.49	0.42
3:A7:61:LEU:HB2	3:A7:89:VAL:HG23	2.02	0.42
3:BC:7:VAL:O	3:BC:8:LEU:HD23	2.20	0.42
3:BC:59:SER:OG	3:BC:91:PHE:HB2	2.20	0.42
3:BC:72:THR:OG1	3:BC:77:VAL:HG22	2.19	0.42
3:BE:94:ASP:OD1	3:BE:95:ALA:N	2.51	0.42
3:BG:45:PHE:HZ	3:BG:61:LEU:HD22	1.85	0.42
3:BH:23:ARG:HD3	3:BH:31:GLU:CG	2.50	0.42
3:BH:92:ASP:N	3:BH:92:ASP:OD1	2.53	0.42
3:BS:35:SER:OG	3:BS:36:THR:N	2.51	0.42
3:BY:106:VAL:HG21	3:BZ:124:ILE:HG13	2.01	0.42
3:BY:117:LYS:HG2	3:BZ:6:LEU:HD11	2.02	0.42
3:Bd:10:ASP:HB2	3:Bd:16:ASN:HB2	2.02	0.42
3:Bm:29:VAL:HG22	3:Bm:48:SER:OG	2.20	0.42
3:Bn:32:VAL:O	3:Bn:44:ARG:HA	2.20	0.42
3:Bu:94:ASP:OD1	3:Bu:95:ALA:N	2.53	0.42
3:Bu:112:ALA:HA	3:Bu:117:LYS:NZ	2.35	0.42
3:Bv:52:THR:CG2	3:Bv:56:ARG:HB2	2.50	0.42
3:Bw:118:MET:HE2	3:Bw:122:ASP:OD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bx:63:LEU:HB3	3:Bx:87:VAL:CG2	2.50	0.42
3:B2:68:VAL:HG13	3:B2:80:VAL:C	2.45	0.42
3:B5:51:LYS:HD2	3:B5:57:TYR:CE2	2.55	0.42
3:B7:55:GLY:O	3:B7:95:ALA:HB2	2.19	0.42
3:B8:52:THR:OG1	3:B8:53:SER:N	2.40	0.42
3:B9:57:TYR:CD1	3:B0:127:LEU:HD23	2.55	0.42
3:CC:66:PRO:CA	3:CC:84:THR:HG22	2.48	0.42
3:CQ:96:ARG:HG3	3:CR:83:ARG:HD3	2.02	0.42
3:6:20:PHE:CD1	3:6:34:GLU:HB2	2.54	0.41
3:9:44:ARG:O	3:9:63:LEU:HD12	2.20	0.41
3:A:62:LYS:HE3	3:A:88:THR:OG1	2.20	0.41
3:C:121:HIS:HA	3:C:124:ILE:CG1	2.48	0.41
3:E:6:LEU:HB3	3:E:20:PHE:HB2	2.02	0.41
3:T:30:GLY:O	3:T:46:THR:HG23	2.19	0.41
3:T:33:VAL:HG13	3:T:42:GLU:HB3	2.00	0.41
3:X:71:GLN:OE1	3:X:73:VAL:HG23	2.19	0.41
3:Z:3:LEU:CD1	3:Z:25:ILE:HD11	2.50	0.41
3:b:68:VAL:HG13	3:b:80:VAL:C	2.45	0.41
3:e:23:ARG:HA	3:h:128:GLN:OE1	2.20	0.41
3:g:117:LYS:HE2	3:h:7:VAL:O	2.20	0.41
3:h:82:VAL:HG23	3:h:83:ARG:HG2	2.02	0.41
3:l:72:THR:HA	3:l:76:ILE:O	2.20	0.41
3:m:33:VAL:HB	3:m:42:GLU:HG3	2.02	0.41
3:q:38:VAL:HA	3:s:97:SER:O	2.19	0.41
3:u:98:THR:CA	3:AZ:38:VAL:HG12	2.49	0.41
3:y:31:GLU:HA	3:y:45:PHE:O	2.20	0.41
3:y:33:VAL:HG12	3:y:44:ARG:HA	2.01	0.41
3:y:64:VAL:HG22	3:y:86:TYR:CD1	2.55	0.41
3:K:104:ASN:CG	3:L:10:ASP:HB2	2.44	0.41
3:AQ:40:ILE:HD12	3:Bx:96:ARG:HG2	2.01	0.41
3:AV:20:PHE:HB3	3:AV:32:VAL:CG1	2.50	0.41
3:AV:118:MET:H	3:AV:118:MET:HG3	1.67	0.41
3:AZ:104:ASN:O	3:AZ:108:MET:HG2	2.20	0.41
3:Ab:94:ASP:OD1	3:Ab:95:ALA:N	2.53	0.41
3:Ac:43:SER:HA	3:Ac:64:VAL:O	2.20	0.41
3:Ai:4:GLN:O	3:Ai:22:PRO:HG3	2.20	0.41
3:Ai:4:GLN:HE21	3:Aj:119:LEU:HB2	1.85	0.41
3:Ak:7:VAL:O	3:Al:117:LYS:HE2	2.20	0.41
3:An:20:PHE:CD1	3:An:34:GLU:HB2	2.55	0.41
3:Ao:4:GLN:NE2	3:Ap:119:LEU:HD12	2.34	0.41
3:Aq:8:LEU:O	3:Aq:17:ASP:HA	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Au:8:LEU:HD13	3:Au:20:PHE:CE1	2.55	0.41
3:Ax:102:ARG:O	3:Ax:106:VAL:HG23	2.20	0.41
3:Az:20:PHE:HB3	3:Az:32:VAL:HG11	2.02	0.41
3:A1:45:PHE:CD1	3:A1:63:LEU:HD12	2.54	0.41
3:A2:30:GLY:N	3:A2:47:ILE:O	2.52	0.41
3:A5:32:VAL:CG2	3:A5:45:PHE:HB3	2.45	0.41
3:A8:94:ASP:OD1	3:A8:95:ALA:N	2.53	0.41
3:BA:21:VAL:O	3:BA:32:VAL:HG23	2.20	0.41
3:BC:63:LEU:O	3:BC:87:VAL:HG12	2.20	0.41
3:BE:64:VAL:HG13	3:BE:85:SER:O	2.20	0.41
3:BG:2:GLN:HA	3:BH:131:TYR:OXT	2.20	0.41
3:BG:37:GLY:C	3:BI:98:THR:HA	2.45	0.41
3:BI:129:GLY:N	3:CC:24:ASP:OD1	2.50	0.41
3:BL:63:LEU:O	3:BL:87:VAL:HG22	2.20	0.41
3:BQ:71:GLN:HB3	3:BY:76:ILE:HD11	2.01	0.41
3:BS:103:ASN:OD1	3:CH:11:ARG:NH1	2.44	0.41
3:Bb:99:THR:OG1	3:Bh:37:GLY:HA2	2.20	0.41
3:Bb:128:GLN:NE2	3:B4:23:ARG:O	2.53	0.41
3:Bd:33:VAL:CG1	3:Bd:42:GLU:HG3	2.45	0.41
3:Bk:57:TYR:CD2	3:Bl:127:LEU:HD23	2.54	0.41
3:Bl:122:ASP:HA	3:Bl:126:ASN:HD22	1.85	0.41
3:Bn:113:LEU:HG	3:Bn:113:LEU:O	2.20	0.41
3:Bv:31:GLU:OE1	3:Bv:46:THR:OG1	2.31	0.41
3:Bx:35:SER:HA	3:Bx:42:GLU:CB	2.49	0.41
3:By:21:VAL:O	3:By:32:VAL:HG23	2.20	0.41
3:B5:104:ASN:HB3	3:B6:10:ASP:OD2	2.20	0.41
3:B6:45:PHE:CD1	3:B6:63:LEU:HD12	2.55	0.41
3:B9:6:LEU:HD13	3:B0:119:LEU:HD13	2.02	0.41
3:CC:61:LEU:HB2	3:CC:89:VAL:HG22	2.02	0.41
3:CK:122:ASP:HA	3:CK:126:ASN:HB2	2.02	0.41
3:CQ:63:LEU:O	3:CQ:87:VAL:HG12	2.20	0.41
3:CS:86:TYR:HB3	3:CT:92:ASP:OD1	2.20	0.41
3:CT:113:LEU:O	3:CT:113:LEU:HG	2.19	0.41
3:0:23:ARG:NH2	3:0:33:VAL:HG11	2.35	0.41
3:3:105:PHE:HE2	3:4:87:VAL:HG11	1.84	0.41
3:4:39:PRO:HD2	3:CK:97:SER:O	2.20	0.41
3:7:25:ILE:HA	3:7:29:VAL:O	2.20	0.41
3:A:128:GLN:OE1	3:Bd:21:VAL:HG11	2.20	0.41
3:O:35:SER:HB2	3:O:42:GLU:HG2	2.02	0.41
3:V:80:VAL:HG12	3:b:96:ARG:NH2	2.35	0.41
3:V:94:ASP:OD1	3:V:95:ALA:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:98:THR:HG23	3:V:101:GLU:HG2	2.01	0.41
3:W:39:PRO:O	3:W:40:ILE:HD13	2.20	0.41
3:Z:32:VAL:CG2	3:Z:45:PHE:HB3	2.46	0.41
3:b:63:LEU:O	3:b:87:VAL:HG22	2.20	0.41
3:c:69:GLN:NE2	3:c:82:VAL:HG21	2.35	0.41
3:c:82:VAL:HG23	3:c:83:ARG:HG2	2.01	0.41
3:e:97:SER:O	3:Bj:38:VAL:HG12	2.19	0.41
3:f:33:VAL:HG13	3:f:42:GLU:HB3	2.02	0.41
3:i:64:VAL:HG22	3:i:86:TYR:CD1	2.55	0.41
3:j:34:GLU:O	3:j:42:GLU:HG3	2.20	0.41
3:k:63:LEU:O	3:k:87:VAL:HG12	2.20	0.41
3:n:25:ILE:HG13	3:n:30:GLY:CA	2.47	0.41
3:o:6:LEU:O	3:o:19:THR:HA	2.19	0.41
3:q:8:LEU:HD13	3:q:20:PHE:CE1	2.56	0.41
3:q:71:GLN:OE1	3:q:73:VAL:HG23	2.20	0.41
3:t:33:VAL:HG22	3:t:44:ARG:HG2	2.02	0.41
3:AB:94:ASP:OD1	3:AB:95:ALA:N	2.52	0.41
3:AB:113:LEU:O	3:AB:113:LEU:HG	2.19	0.41
3:AD:98:THR:OG1	3:AS:37:GLY:HA3	2.20	0.41
3:AO:49:LEU:HD13	3:AO:59:SER:HB3	2.01	0.41
3:AP:5:ASN:HA	3:AP:20:PHE:O	2.19	0.41
3:AP:20:PHE:HB3	3:AP:32:VAL:CG1	2.50	0.41
3:AY:49:LEU:HD11	3:AZ:123:THR:HG23	2.01	0.41
3:Aa:29:VAL:HG13	3:Aa:48:SER:HB3	2.02	0.41
3:Ac:8:LEU:HD23	3:Ac:20:PHE:CE1	2.56	0.41
3:Ac:36:THR:HG23	3:Ac:38:VAL:H	1.85	0.41
3:Af:44:ARG:O	3:Af:63:LEU:HA	2.20	0.41
3:Am:63:LEU:O	3:Am:87:VAL:HG12	2.19	0.41
3:Ao:118:MET:SD	3:Ap:4:GLN:NE2	2.93	0.41
3:As:6:LEU:O	3:As:19:THR:HA	2.19	0.41
3:Au:11:ARG:NH2	3:Au:113:LEU:O	2.50	0.41
3:Av:69:GLN:CB	3:A8:76:ILE:HG12	2.50	0.41
3:Aw:7:VAL:HA	3:Aw:18:HIS:O	2.20	0.41
3:Aw:30:GLY:CA	3:Ax:130:VAL:HG11	2.49	0.41
3:Ax:11:ARG:NH2	3:Ax:114:LYS:HA	2.35	0.41
3:A0:34:GLU:O	3:A0:42:GLU:HG3	2.20	0.41
3:BB:94:ASP:OD1	3:BB:95:ALA:N	2.49	0.41
3:BG:102:ARG:NH1	3:CT:39:PRO:HD3	2.34	0.41
3:BJ:69:GLN:O	3:BJ:79:PRO:HA	2.20	0.41
3:BS:40:ILE:HG21	3:BS:79:PRO:CB	2.49	0.41
3:BS:61:LEU:HB2	3:BS:89:VAL:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bc:73:VAL:N	3:Bc:76:ILE:O	2.39	0.41
3:Bj:121:HIS:O	3:Bj:125:VAL:HB	2.20	0.41
3:Bm:127:LEU:HD13	3:Bn:102:ARG:NH1	2.35	0.41
3:Bv:92:ASP:N	3:Bv:92:ASP:OD1	2.53	0.41
3:Bv:98:THR:O	3:Bv:102:ARG:HG3	2.20	0.41
3:Bx:63:LEU:O	3:Bx:87:VAL:HG22	2.20	0.41
3:Bz:29:VAL:CG1	3:Bz:48:SER:HB3	2.50	0.41
3:B1:89:VAL:CG1	3:B2:89:VAL:HG13	2.42	0.41
3:B0:52:THR:HG21	3:B0:56:ARG:HB2	2.02	0.41
3:CC:1:ALA:HA	3:CD:131:TYR:CE1	2.55	0.41
3:CC:3:LEU:HD11	3:CD:130:VAL:CG2	2.50	0.41
3:CH:48:SER:OG	3:CH:60:THR:HB	2.20	0.41
3:CL:63:LEU:HB3	3:CL:87:VAL:CG2	2.47	0.41
3:CM:131:TYR:CE1	3:CN:1:ALA:HB3	2.56	0.41
3:CO:108:MET:HE2	3:CP:10:ASP:CG	2.45	0.41
3:CR:51:LYS:HD3	3:CR:52:THR:O	2.19	0.41
3:CR:64:VAL:HG22	3:CR:86:TYR:HD1	1.85	0.41
3:CS:52:THR:HB	3:CS:54:ASN:OD1	2.20	0.41
3:0:122:ASP:HA	3:0:126:ASN:HB2	2.02	0.41
3:4:20:PHE:HB3	3:4:32:VAL:CG1	2.50	0.41
3:7:122:ASP:OD2	3:7:128:GLN:HB2	2.19	0.41
3:C:6:LEU:HB3	3:C:20:PHE:HB2	2.02	0.41
3:R:94:ASP:OD1	3:R:95:ALA:N	2.53	0.41
3:T:20:PHE:HA	3:T:34:GLU:OE1	2.20	0.41
3:W:7:VAL:HG22	3:W:19:THR:OG1	2.19	0.41
3:W:72:THR:HA	3:W:76:ILE:O	2.21	0.41
3:Y:117:LYS:HE2	3:Z:8:LEU:CD1	2.47	0.41
3:c:130:VAL:HG12	3:d:25:ILE:CD1	2.50	0.41
3:d:72:THR:HA	3:d:76:ILE:O	2.20	0.41
3:l:14:THR:HG23	3:l:16:ASN:OD1	2.20	0.41
3:o:20:PHE:HB3	3:o:32:VAL:HB	2.03	0.41
3:q:38:VAL:O	3:q:40:ILE:N	2.53	0.41
3:r:35:SER:HA	3:r:42:GLU:CG	2.50	0.41
3:s:61:LEU:N	3:s:89:VAL:O	2.41	0.41
3:u:35:SER:HB2	3:u:42:GLU:CB	2.50	0.41
3:v:38:VAL:HG23	3:As:97:SER:O	2.21	0.41
3:G:35:SER:OG	3:G:36:THR:N	2.53	0.41
3:G:42:GLU:H	3:G:42:GLU:HG3	1.71	0.41
3:G:44:ARG:NH2	3:G:64:VAL:HG21	2.35	0.41
3:H:22:PRO:HA	3:H:32:VAL:HA	2.01	0.41
3:J:23:ARG:CD	3:J:33:VAL:HG21	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:72:THR:HA	3:L:76:ILE:O	2.20	0.41
3:AC:94:ASP:OD1	3:AC:95:ALA:N	2.53	0.41
3:AO:98:THR:O	3:AO:102:ARG:HG3	2.20	0.41
3:AP:38:VAL:HG11	3:AP:79:PRO:CG	2.51	0.41
3:AP:47:ILE:HD12	3:AP:61:LEU:HG	2.02	0.41
3:AP:71:GLN:O	3:AP:77:VAL:HG13	2.20	0.41
3:AT:114:LYS:HB3	3:AT:116:ASP:OD1	2.20	0.41
3:AW:7:VAL:HG13	3:AW:18:HIS:O	2.20	0.41
3:AY:48:SER:O	3:AY:49:LEU:HD23	2.21	0.41
3:Ac:71:GLN:HE22	3:Ac:73:VAL:HG22	1.86	0.41
3:Ae:2:GLN:HA	3:Af:131:TYR:OXT	2.20	0.41
3:Af:47:ILE:CD1	3:Af:61:LEU:HG	2.48	0.41
3:Ag:10:ASP:HB2	3:Ah:108:MET:HE3	2.01	0.41
3:Aj:114:LYS:HB3	3:Aj:116:ASP:OD1	2.20	0.41
3:Am:98:THR:HA	3:Bb:37:GLY:O	2.21	0.41
3:Ar:4:GLN:HE21	3:Ar:4:GLN:HB2	1.71	0.41
3:At:94:ASP:OD1	3:At:95:ALA:N	2.51	0.41
3:Ay:83:ARG:NE	3:Az:97:SER:HA	2.35	0.41
3:A3:5:ASN:OD1	3:A3:19:THR:HG23	2.19	0.41
3:A5:99:THR:OG1	3:A5:102:ARG:NH2	2.53	0.41
3:A6:49:LEU:HD12	3:A6:58:LYS:O	2.20	0.41
3:BC:66:PRO:CA	3:BC:84:THR:HG23	2.50	0.41
3:BD:32:VAL:CG1	3:BD:45:PHE:HB3	2.49	0.41
3:BF:12:GLU:OE1	3:BF:12:GLU:N	2.53	0.41
3:BG:37:GLY:O	3:BI:98:THR:HA	2.20	0.41
3:BG:72:THR:HA	3:BG:76:ILE:O	2.20	0.41
3:BH:29:VAL:HG22	3:BH:48:SER:CB	2.49	0.41
3:BH:69:GLN:O	3:BH:79:PRO:HA	2.19	0.41
3:BI:51:LYS:NZ	3:BI:55:GLY:HA2	2.35	0.41
3:BL:58:LYS:HG2	3:BL:92:ASP:CB	2.43	0.41
3:BL:113:LEU:O	3:BL:113:LEU:HG	2.19	0.41
3:BO:52:THR:HG21	3:BO:58:LYS:NZ	2.35	0.41
3:BQ:8:LEU:O	3:BQ:17:ASP:HA	2.20	0.41
3:BQ:63:LEU:HD23	3:BQ:64:VAL:N	2.35	0.41
3:Bd:94:ASP:OD1	3:Bd:95:ALA:N	2.53	0.41
3:Bi:9:LYS:HE2	3:Bi:17:ASP:OD1	2.21	0.41
3:Bj:31:GLU:OE1	3:Bj:33:VAL:HG23	2.20	0.41
3:Bn:122:ASP:OD1	3:Bn:126:ASN:ND2	2.47	0.41
3:B4:69:GLN:O	3:B4:79:PRO:HA	2.20	0.41
3:B5:29:VAL:HG13	3:B5:46:THR:CG2	2.50	0.41
3:B6:57:TYR:CE2	3:B6:95:ALA:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CA:45:PHE:CD1	3:CA:63:LEU:HD12	2.56	0.41
3:CD:113:LEU:O	3:CD:113:LEU:HG	2.20	0.41
3:CK:25:ILE:HA	3:CK:29:VAL:O	2.20	0.41
3:CR:113:LEU:O	3:CR:113:LEU:HG	2.20	0.41
3:5:104:ASN:ND2	3:6:12:GLU:OE2	2.50	0.41
3:6:64:VAL:HG12	3:6:66:PRO:HD3	2.03	0.41
3:O:20:PHE:CD1	3:O:34:GLU:HB2	2.55	0.41
3:O:91:PHE:CZ	3:O:109:ILE:HG12	2.55	0.41
3:R:118:MET:H	3:R:118:MET:HG3	1.63	0.41
3:S:4:GLN:H	3:S:4:GLN:HG3	1.75	0.41
3:Y:42:GLU:H	3:Y:42:GLU:HG3	1.70	0.41
3:Y:94:ASP:OD1	3:Y:95:ALA:N	2.53	0.41
3:Z:94:ASP:OD1	3:Z:95:ALA:N	2.53	0.41
3:a:48:SER:O	3:a:49:LEU:HD23	2.21	0.41
3:e:89:VAL:HG12	3:f:89:VAL:CG1	2.49	0.41
3:h:32:VAL:CG2	3:h:45:PHE:HB3	2.51	0.41
3:h:72:THR:HA	3:h:76:ILE:O	2.20	0.41
3:p:12:GLU:OE2	3:p:15:PRO:HA	2.20	0.41
3:s:67:VAL:O	3:s:81:VAL:HG13	2.21	0.41
3:v:57:TYR:O	3:v:92:ASP:HA	2.21	0.41
3:w:69:GLN:NE2	3:w:82:VAL:HG11	2.34	0.41
3:w:83:ARG:NH2	3:x:101:GLU:OE2	2.33	0.41
3:y:8:LEU:O	3:y:17:ASP:HA	2.20	0.41
3:H:71:GLN:HB2	3:H:80:VAL:HG22	2.01	0.41
3:AA:37:GLY:O	3:AA:39:PRO:HD3	2.20	0.41
3:AS:48:SER:O	3:AS:49:LEU:HD23	2.21	0.41
3:AV:73:VAL:O	3:AV:76:ILE:HG22	2.21	0.41
3:Ab:71:GLN:HE22	3:Ab:73:VAL:HG22	1.85	0.41
3:Ac:6:LEU:HB3	3:Ac:20:PHE:HB2	2.01	0.41
3:Ac:35:SER:OG	3:Ac:36:THR:N	2.52	0.41
3:Ac:60:THR:HA	3:Ac:89:VAL:O	2.20	0.41
3:Af:63:LEU:HB3	3:Af:87:VAL:HG21	2.03	0.41
3:Ag:64:VAL:HG22	3:Ag:86:TYR:CD1	2.55	0.41
3:Ag:127:LEU:HB2	3:CQ:23:ARG:CZ	2.51	0.41
3:Ai:20:PHE:CD2	3:Ai:34:GLU:HB2	2.54	0.41
3:Ao:24:ASP:OD1	3:Ao:25:ILE:N	2.52	0.41
3:Aq:113:LEU:HB3	3:Ar:110:ALA:HB2	2.02	0.41
3:Ar:71:GLN:NE2	3:Ar:78:THR:HB	2.36	0.41
3:As:35:SER:HB3	3:As:39:PRO:HB3	2.03	0.41
3:Au:45:PHE:CD1	3:Au:63:LEU:HD13	2.50	0.41
3:Aw:106:VAL:HG21	3:Ax:124:ILE:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:25:ILE:H	3:B6:28:ASN:HD21	1.67	0.41
3:A6:51:LYS:HD3	3:A6:57:TYR:CE1	2.55	0.41
3:A6:56:ARG:HD3	3:A6:92:ASP:OD1	2.20	0.41
3:A7:37:GLY:O	3:A7:39:PRO:HD3	2.20	0.41
3:A8:63:LEU:HB3	3:A8:87:VAL:CG2	2.50	0.41
3:A8:114:LYS:HB3	3:A8:116:ASP:OD1	2.21	0.41
3:A8:122:ASP:O	3:A8:126:ASN:HB2	2.20	0.41
3:BA:48:SER:O	3:BA:49:LEU:HD23	2.20	0.41
3:BG:20:PHE:HB3	3:BG:32:VAL:CG2	2.51	0.41
3:BI:6:LEU:O	3:BI:19:THR:HA	2.20	0.41
3:BI:69:GLN:CD	3:BI:82:VAL:HG11	2.45	0.41
3:BI:93:TYR:CD2	3:BI:102:ARG:HG2	2.55	0.41
3:BQ:3:LEU:CD1	3:BQ:25:ILE:HD11	2.49	0.41
3:BS:25:ILE:HG22	3:BS:30:GLY:CA	2.40	0.41
3:BV:46:THR:HB	3:BV:62:LYS:HB2	2.01	0.41
3:BV:113:LEU:O	3:BV:113:LEU:HG	2.20	0.41
3:BY:102:ARG:O	3:BY:106:VAL:HG23	2.21	0.41
3:BZ:31:GLU:HG3	3:BZ:46:THR:CG2	2.42	0.41
3:Bk:92:ASP:N	3:Bk:92:ASP:OD1	2.51	0.41
3:Bl:44:ARG:HH11	3:Bl:64:VAL:HB	1.85	0.41
3:Bx:19:THR:O	3:Bx:34:GLU:HG3	2.21	0.41
3:Bx:40:ILE:N	3:Bx:42:GLU:OE1	2.53	0.41
3:By:44:ARG:O	3:By:63:LEU:HA	2.21	0.41
3:B3:61:LEU:HB2	3:B3:89:VAL:CG2	2.50	0.41
3:B4:66:PRO:HA	3:B4:84:THR:HG23	2.01	0.41
3:B5:23:ARG:HH11	3:B5:33:VAL:HG21	1.86	0.41
3:CB:47:ILE:CD1	3:CB:61:LEU:HG	2.50	0.41
3:CC:8:LEU:HB3	3:CD:108:MET:CE	2.49	0.41
3:CC:21:VAL:C	3:CC:32:VAL:HG23	2.44	0.41
3:CK:21:VAL:O	3:CK:32:VAL:HG23	2.20	0.41
3:CL:38:VAL:HG11	3:CL:79:PRO:CG	2.49	0.41
3:CN:104:ASN:O	3:CN:108:MET:HG2	2.20	0.41
3:CO:33:VAL:CG1	3:CO:44:ARG:HG2	2.50	0.41
3:CO:68:VAL:CG1	3:CO:81:VAL:HG22	2.44	0.41
3:CS:29:VAL:HG22	3:CS:48:SER:OG	2.20	0.41
3:3:68:VAL:HG12	3:3:81:VAL:HB	2.02	0.41
3:4:22:PRO:HA	3:4:32:VAL:HA	2.02	0.41
3:4:51:LYS:CE	3:4:55:GLY:HA2	2.50	0.41
3:7:52:THR:OG1	3:7:58:LYS:NZ	2.53	0.41
3:9:94:ASP:OD1	3:9:95:ALA:N	2.53	0.41
3:B:41:GLY:HA2	3:B:66:PRO:CG	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:20:PHE:CD2	3:D:34:GLU:HB2	2.56	0.41
3:P:113:LEU:HG	3:P:113:LEU:O	2.20	0.41
3:Q:89:VAL:CG1	3:R:89:VAL:HG13	2.46	0.41
3:R:20:PHE:HD1	3:R:34:GLU:HB2	1.85	0.41
3:T:96:ARG:HH22	3:Z:80:VAL:HG12	1.85	0.41
3:W:112:ALA:O	3:W:113:LEU:HD23	2.20	0.41
3:a:52:THR:HB	3:a:54:ASN:OD1	2.21	0.41
3:f:63:LEU:HB3	3:f:87:VAL:CG2	2.50	0.41
3:g:58:LYS:HG2	3:g:92:ASP:CG	2.46	0.41
3:j:113:LEU:O	3:j:113:LEU:HG	2.20	0.41
3:k:122:ASP:OD1	3:k:128:GLN:NE2	2.54	0.41
3:m:119:LEU:HD23	3:m:119:LEU:O	2.20	0.41
3:p:98:THR:HB	3:BE:38:VAL:CG2	2.51	0.41
3:q:100:LYS:O	3:q:104:ASN:ND2	2.53	0.41
3:t:120:VAL:O	3:t:124:ILE:HG22	2.20	0.41
3:u:61:LEU:O	3:u:88:THR:HA	2.20	0.41
3:G:7:VAL:CG1	3:G:17:ASP:HB2	2.50	0.41
3:AD:58:LYS:NZ	3:AD:92:ASP:OD2	2.54	0.41
3:AR:48:SER:OG	3:AR:60:THR:N	2.53	0.41
3:AU:121:HIS:O	3:AU:125:VAL:HB	2.20	0.41
3:Ae:61:LEU:O	3:Ae:88:THR:HA	2.21	0.41
3:Ag:32:VAL:HG23	3:Ag:45:PHE:HB3	2.03	0.41
3:Ag:45:PHE:HA	3:Ag:62:LYS:O	2.20	0.41
3:Ag:63:LEU:HB3	3:Ag:87:VAL:CG1	2.51	0.41
3:Ai:71:GLN:O	3:Ai:77:VAL:HA	2.21	0.41
3:Ai:123:THR:O	3:Ai:127:LEU:HA	2.20	0.41
3:Aj:9:LYS:HD2	3:Aj:15:PRO:HB2	2.03	0.41
3:Al:61:LEU:HD23	3:Al:91:PHE:HE2	1.86	0.41
3:Ao:117:LYS:HD2	3:Ap:6:LEU:CD1	2.51	0.41
3:Ap:24:ASP:HA	3:B0:131:TYR:CD1	2.55	0.41
3:Ar:72:THR:HA	3:Ar:76:ILE:O	2.20	0.41
3:Au:112:ALA:HB2	3:Av:8:LEU:HD21	2.01	0.41
3:Aw:24:ASP:HB2	3:A8:28:ASN:ND2	2.34	0.41
3:Aw:92:ASP:OD1	3:Aw:92:ASP:N	2.53	0.41
3:A1:120:VAL:O	3:A1:124:ILE:HG22	2.20	0.41
3:A3:46:THR:O	3:A3:61:LEU:HA	2.20	0.41
3:A5:91:PHE:CE2	3:A6:124:ILE:HD12	2.56	0.41
3:A7:49:LEU:HD12	3:A7:58:LYS:O	2.20	0.41
3:A0:45:PHE:HA	3:A0:62:LYS:O	2.20	0.41
3:BC:29:VAL:HG22	3:BC:48:SER:CB	2.51	0.41
3:BE:11:ARG:HB2	3:BF:104:ASN:HD22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BG:38:VAL:HG22	3:BI:97:SER:O	2.21	0.41
3:BJ:20:PHE:HB3	3:BJ:32:VAL:CG2	2.50	0.41
3:BJ:107:GLY:O	3:BJ:111:ASP:HB2	2.21	0.41
3:BP:46:THR:OG1	3:BP:62:LYS:HB2	2.21	0.41
3:BP:105:PHE:O	3:BP:109:ILE:HG22	2.20	0.41
3:BP:122:ASP:O	3:BP:126:ASN:HB2	2.20	0.41
3:BS:124:ILE:HD13	3:CH:106:VAL:CG1	2.49	0.41
3:Bc:121:HIS:HA	3:Bc:124:ILE:CG2	2.50	0.41
3:Bg:122:ASP:HB3	3:Bg:128:GLN:HG3	2.02	0.41
3:Bi:111:ASP:OD2	3:Bj:9:LYS:HG2	2.21	0.41
3:Bi:123:THR:O	3:Bi:127:LEU:HA	2.20	0.41
3:Bk:102:ARG:HD2	3:Bl:127:LEU:HD11	2.03	0.41
3:Bm:20:PHE:HB3	3:Bm:32:VAL:CG2	2.50	0.41
3:Bn:7:VAL:HG12	3:Bn:19:THR:HA	2.02	0.41
3:Bu:49:LEU:HD12	3:Bv:123:THR:CG2	2.50	0.41
3:By:124:ILE:HD13	3:Bz:106:VAL:CG2	2.50	0.41
3:Bz:119:LEU:HD23	3:Bz:119:LEU:O	2.20	0.41
3:B7:72:THR:OG1	3:B7:77:VAL:HG12	2.21	0.41
3:CA:64:VAL:HG22	3:CA:86:TYR:CD1	2.56	0.41
3:CP:122:ASP:CA	3:CP:126:ASN:HB2	2.48	0.41
3:CS:58:LYS:HE3	3:CS:58:LYS:HB3	1.91	0.41
3:0:86:TYR:HB2	3:9:92:ASP:CB	2.50	0.41
3:1:12:GLU:OE1	3:1:12:GLU:N	2.53	0.41
3:8:38:VAL:HG11	3:8:79:PRO:HG2	2.03	0.41
3:B:33:VAL:HA	3:B:43:SER:O	2.19	0.41
3:C:104:ASN:O	3:C:108:MET:HG3	2.21	0.41
3:O:43:SER:HA	3:O:64:VAL:O	2.21	0.41
3:O:122:ASP:OD2	3:O:128:GLN:HB2	2.20	0.41
3:Q:86:TYR:HB2	3:R:92:ASP:OD2	2.19	0.41
3:T:20:PHE:CE2	3:T:34:GLU:HB2	2.56	0.41
3:W:63:LEU:HB3	3:W:87:VAL:CG1	2.49	0.41
3:X:47:ILE:HD12	3:X:61:LEU:HG	2.02	0.41
3:Y:2:GLN:HA	3:Z:131:TYR:OXT	2.21	0.41
3:f:57:TYR:O	3:f:92:ASP:HA	2.21	0.41
3:g:123:THR:HG23	3:g:128:GLN:O	2.21	0.41
3:h:63:LEU:O	3:h:87:VAL:HG12	2.21	0.41
3:i:21:VAL:N	3:i:33:VAL:O	2.53	0.41
3:o:92:ASP:OD2	3:p:86:TYR:HB2	2.20	0.41
3:q:4:GLN:NE2	3:r:118:MET:HG2	2.35	0.41
3:q:124:ILE:HG13	3:r:106:VAL:HG22	2.02	0.41
3:s:38:VAL:HG12	3:s:40:ILE:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:v:24:ASP:HA	3:At:131:TYR:CD1	2.55	0.41
3:y:33:VAL:CG1	3:y:44:ARG:HG2	2.50	0.41
3:y:96:ARG:HA	3:Az:38:VAL:HG21	2.02	0.41
3:H:51:LYS:NZ	3:H:55:GLY:HA2	2.35	0.41
3:H:102:ARG:O	3:H:106:VAL:HG23	2.21	0.41
3:M:121:HIS:CE1	3:M:125:VAL:HG21	2.55	0.41
3:N:41:GLY:CA	3:N:66:PRO:HG2	2.50	0.41
3:N:114:LYS:HB3	3:N:116:ASP:OD1	2.20	0.41
3:AB:72:THR:HG22	3:AB:75:GLY:H	1.85	0.41
3:AO:39:PRO:HA	3:AO:42:GLU:OE2	2.21	0.41
3:AQ:67:VAL:O	3:AQ:81:VAL:HG13	2.20	0.41
3:AT:25:ILE:HG23	3:AT:29:VAL:C	2.45	0.41
3:AV:12:GLU:OE2	3:AV:15:PRO:HA	2.21	0.41
3:AX:64:VAL:HG12	3:AX:66:PRO:HD3	2.01	0.41
3:Ac:10:ASP:HB2	3:Ac:12:GLU:OE1	2.21	0.41
3:Ad:10:ASP:HB3	3:Ad:12:GLU:OE1	2.19	0.41
3:Af:129:GLY:HA3	3:CP:24:ASP:HB3	2.03	0.41
3:Aj:69:GLN:CB	3:B8:76:ILE:HD11	2.50	0.41
3:Aj:70:SER:OG	3:B8:74:ASN:ND2	2.53	0.41
3:Ak:92:ASP:OD2	3:Al:86:TYR:HB2	2.21	0.41
3:Ao:24:ASP:OD2	3:Ar:129:GLY:HA3	2.21	0.41
3:Aq:6:LEU:HD23	3:Aq:7:VAL:N	2.36	0.41
3:Ar:33:VAL:CG1	3:Ar:42:GLU:HG3	2.51	0.41
3:Av:131:TYR:CD1	3:A8:24:ASP:HA	2.56	0.41
3:Ax:60:THR:HA	3:Ax:90:ASP:HA	2.02	0.41
3:Ay:38:VAL:O	3:Ay:40:ILE:N	2.53	0.41
3:A1:49:LEU:HD12	3:A1:58:LYS:O	2.21	0.41
3:A2:43:SER:HA	3:A2:64:VAL:O	2.20	0.41
3:A3:50:ARG:HE	3:A3:58:LYS:HD2	1.85	0.41
3:A5:4:GLN:HE21	3:A5:4:GLN:HB2	1.70	0.41
3:A5:124:ILE:HG13	3:A5:125:VAL:HG23	2.03	0.41
3:A8:20:PHE:CD2	3:A8:34:GLU:HB2	2.56	0.41
3:BA:4:GLN:CD	3:BB:119:LEU:HD12	2.45	0.41
3:BA:95:ALA:O	3:Bz:39:PRO:HG2	2.20	0.41
3:BB:47:ILE:HD12	3:BB:61:LEU:HG	2.02	0.41
3:BC:31:GLU:HA	3:BC:45:PHE:O	2.20	0.41
3:BN:57:TYR:O	3:BN:92:ASP:HA	2.21	0.41
3:BV:66:PRO:HB3	3:BV:84:THR:OG1	2.21	0.41
3:Bc:32:VAL:CG2	3:Bc:45:PHE:HB3	2.48	0.41
3:Bg:90:ASP:O	3:Bh:87:VAL:HG23	2.21	0.41
3:Bh:46:THR:OG1	3:Bh:62:LYS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bm:69:GLN:O	3:Bm:79:PRO:HA	2.20	0.41
3:Bw:68:VAL:HG12	3:Bw:81:VAL:HG22	2.02	0.41
3:By:45:PHE:HA	3:By:62:LYS:O	2.21	0.41
3:B1:127:LEU:CD2	3:B2:57:TYR:HB3	2.51	0.41
3:B2:68:VAL:HG13	3:B2:80:VAL:O	2.20	0.41
3:B3:44:ARG:HH21	3:B3:64:VAL:HG21	1.84	0.41
3:B5:90:ASP:HB3	3:B6:88:THR:OG1	2.21	0.41
3:B6:97:SER:OG	3:B6:102:ARG:HD3	2.21	0.41
3:B6:98:THR:HG22	3:B6:100:LYS:H	1.85	0.41
3:B9:118:MET:H	3:B9:118:MET:HG3	1.63	0.41
3:B0:97:SER:CB	3:B0:102:ARG:HD3	2.50	0.41
3:CC:94:ASP:OD1	3:CC:95:ALA:N	2.52	0.41
3:CH:20:PHE:HB3	3:CH:32:VAL:CG1	2.49	0.41
3:CI:47:ILE:HD12	3:CI:61:LEU:HD21	2.02	0.41
3:CS:91:PHE:HE1	3:CS:109:ILE:HG12	1.85	0.41
3:0:24:ASP:HB2	3:4:28:ASN:CG	2.46	0.41
3:6:5:ASN:HA	3:6:20:PHE:O	2.20	0.41
3:9:72:THR:OG1	3:9:77:VAL:HG22	2.21	0.41
3:A:8:LEU:HD23	3:A:20:PHE:CE1	2.56	0.41
3:B:24:ASP:HA	3:B6:131:TYR:CD1	2.55	0.41
3:B:46:THR:HB	3:B:62:LYS:CB	2.40	0.41
3:C:110:ALA:O	3:C:114:LYS:HG3	2.21	0.41
3:P:72:THR:HA	3:P:76:ILE:O	2.21	0.41
3:Q:94:ASP:OD2	3:Q:96:ARG:HB2	2.20	0.41
3:V:95:ALA:O	3:Bw:40:ILE:HD11	2.20	0.41
3:W:48:SER:HB3	3:W:60:THR:HB	2.01	0.41
3:W:71:GLN:NE2	3:W:78:THR:O	2.54	0.41
3:h:71:GLN:HE22	3:h:73:VAL:HG22	1.85	0.41
3:l:92:ASP:OD1	3:l:92:ASP:N	2.54	0.41
3:m:83:ARG:CZ	3:n:97:SER:HA	2.51	0.41
3:m:123:THR:O	3:m:127:LEU:HA	2.20	0.41
3:p:97:SER:O	3:BE:38:VAL:HG22	2.21	0.41
3:s:63:LEU:O	3:s:87:VAL:HG12	2.20	0.41
3:t:94:ASP:OD1	3:t:95:ALA:N	2.54	0.41
3:v:32:VAL:HB	3:v:45:PHE:HB3	2.01	0.41
3:y:21:VAL:C	3:y:32:VAL:HG23	2.45	0.41
3:y:124:ILE:HG23	3:y:125:VAL:HG23	2.03	0.41
3:K:7:VAL:O	3:K:8:LEU:HD23	2.21	0.41
3:AA:23:ARG:HA	3:AD:128:GLN:OE1	2.20	0.41
3:AC:114:LYS:HB3	3:AC:117:LYS:CG	2.51	0.41
3:AD:8:LEU:O	3:AD:17:ASP:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AQ:23:ARG:NH2	3:AQ:33:VAL:HG11	2.36	0.41
3:AS:119:LEU:HD23	3:AS:119:LEU:O	2.20	0.41
3:AU:71:GLN:O	3:AU:77:VAL:HA	2.21	0.41
3:AW:98:THR:CG2	3:AW:101:GLU:HG3	2.51	0.41
3:AX:33:VAL:CG1	3:AX:42:GLU:HG3	2.50	0.41
3:AZ:129:GLY:HA3	3:B2:24:ASP:OD2	2.20	0.41
3:Aa:36:THR:OG1	3:Aa:37:GLY:N	2.39	0.41
3:Ac:86:TYR:HB2	3:Ad:92:ASP:OD1	2.20	0.41
3:Ae:97:SER:C	3:CP:38:VAL:HG22	2.45	0.41
3:Ag:118:MET:SD	3:Ah:4:GLN:NE2	2.93	0.41
3:Aj:7:VAL:HB	3:Aj:17:ASP:OD1	2.20	0.41
3:Ak:2:GLN:HA	3:Al:131:TYR:OXT	2.21	0.41
3:Ap:33:VAL:HA	3:Ap:43:SER:O	2.20	0.41
3:Aq:38:VAL:HG12	3:Aq:40:ILE:HG22	2.02	0.41
3:Aq:117:LYS:HE2	3:Ar:7:VAL:O	2.21	0.41
3:As:68:VAL:CG1	3:As:81:VAL:HG22	2.48	0.41
3:At:23:ARG:HG3	3:A2:128:GLN:OE1	2.21	0.41
3:Au:63:LEU:O	3:Au:87:VAL:HG12	2.21	0.41
3:Av:97:SER:HB3	3:Av:102:ARG:HD3	2.02	0.41
3:Az:20:PHE:HB3	3:Az:32:VAL:CG1	2.51	0.41
3:A1:38:VAL:O	3:A1:40:ILE:N	2.54	0.41
3:BA:61:LEU:O	3:BA:88:THR:HA	2.19	0.41
3:BA:106:VAL:CG1	3:BB:113:LEU:HD12	2.51	0.41
3:BD:6:LEU:O	3:BD:20:PHE:N	2.51	0.41
3:BE:66:PRO:HB3	3:BE:84:THR:HG22	2.02	0.41
3:BG:48:SER:O	3:BG:49:LEU:HD23	2.21	0.41
3:BJ:35:SER:OG	3:BJ:36:THR:N	2.52	0.41
3:BK:23:ARG:NH1	3:BK:35:SER:OG	2.54	0.41
3:BL:72:THR:HA	3:BL:76:ILE:O	2.20	0.41
3:BM:97:SER:O	3:Bn:38:VAL:HG23	2.19	0.41
3:BN:128:GLN:HA	3:Bn:23:ARG:HH12	1.86	0.41
3:BQ:61:LEU:HB2	3:BQ:89:VAL:HG23	2.02	0.41
3:BS:44:ARG:HD2	3:BS:64:VAL:HG21	2.03	0.41
3:Bb:57:TYR:O	3:Bb:92:ASP:HA	2.21	0.41
3:Bc:78:THR:HA	3:B4:96:ARG:NH2	2.36	0.41
3:Bc:98:THR:HG23	3:Bc:101:GLU:HG2	2.02	0.41
3:Bu:6:LEU:HB3	3:Bu:20:PHE:HB2	2.02	0.41
3:Bv:33:VAL:HG22	3:Bv:44:ARG:HG2	2.03	0.41
3:By:14:THR:HG23	3:By:16:ASN:OD1	2.21	0.41
3:By:29:VAL:HA	3:By:48:SER:HB3	2.01	0.41
3:B7:45:PHE:HA	3:B7:62:LYS:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B8:57:TYR:O	3:B8:92:ASP:HA	2.21	0.41
3:B0:71:GLN:HE22	3:B0:73:VAL:HG22	1.86	0.41
3:CD:92:ASP:N	3:CD:92:ASP:OD1	2.53	0.41
3:CM:38:VAL:O	3:CM:40:ILE:N	2.54	0.41
3:CT:92:ASP:OD1	3:CT:92:ASP:N	2.53	0.41
2:AE:630:A:N6	2:AE:659:C:OP2	2.54	0.41
3:2:121:HIS:NE2	3:2:125:VAL:HG21	2.36	0.41
3:3:108:MET:O	3:4:8:LEU:HD23	2.21	0.41
3:9:46:THR:OG1	3:9:62:LYS:HB2	2.20	0.41
3:A:46:THR:HB	3:A:62:LYS:CB	2.45	0.41
3:A:71:GLN:OE1	3:A:73:VAL:HG23	2.20	0.41
3:B:25:ILE:CD1	3:B:30:GLY:HA2	2.51	0.41
3:E:71:GLN:O	3:E:77:VAL:HA	2.20	0.41
3:E:72:THR:HA	3:E:76:ILE:O	2.21	0.41
3:O:4:GLN:H	3:O:4:GLN:HG3	1.70	0.41
3:P:69:GLN:O	3:P:79:PRO:HA	2.20	0.41
3:Q:46:THR:HB	3:Q:62:LYS:CB	2.50	0.41
3:Q:120:VAL:O	3:Q:124:ILE:HG22	2.20	0.41
3:R:8:LEU:HD13	3:R:20:PHE:CE2	2.56	0.41
3:V:56:ARG:HG3	3:V:93:TYR:O	2.21	0.41
3:Z:112:ALA:O	3:Z:113:LEU:HD23	2.20	0.41
3:a:66:PRO:CA	3:a:84:THR:HG22	2.51	0.41
3:g:102:ARG:O	3:g:106:VAL:HG23	2.21	0.41
3:h:7:VAL:HA	3:h:18:HIS:O	2.21	0.41
3:l:60:THR:O	3:l:61:LEU:HD23	2.21	0.41
3:o:67:VAL:O	3:o:81:VAL:HG13	2.21	0.41
3:o:121:HIS:NE2	3:o:125:VAL:HG21	2.35	0.41
3:p:25:ILE:HD13	3:p:30:GLY:HA2	2.03	0.41
3:u:24:ASP:HB2	3:x:129:GLY:HA3	2.02	0.41
3:x:8:LEU:O	3:x:17:ASP:HA	2.19	0.41
3:z:57:TYR:O	3:z:92:ASP:HA	2.21	0.41
3:H:98:THR:HA	3:A7:37:GLY:O	2.21	0.41
3:I:25:ILE:HG12	3:Bh:131:TYR:CB	2.51	0.41
3:K:20:PHE:HB3	3:K:32:VAL:HB	2.02	0.41
3:K:24:ASP:HB2	3:BV:28:ASN:ND2	2.36	0.41
3:AO:111:ASP:O	3:AO:114:LYS:HG2	2.20	0.41
3:AW:61:LEU:HD11	3:AX:124:ILE:HD11	2.03	0.41
3:AW:112:ALA:O	3:AW:120:VAL:HG11	2.20	0.41
3:AY:56:ARG:HB3	3:AY:93:TYR:O	2.21	0.41
3:Ae:94:ASP:OD1	3:Ae:95:ALA:N	2.53	0.41
3:Al:3:LEU:HD13	3:Al:25:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Aq:63:LEU:O	3:Aq:87:VAL:HG12	2.21	0.41
3:Ar:98:THR:CG2	3:Ar:101:GLU:HG3	2.51	0.41
3:Au:1:ALA:N	3:Av:122:ASP:OD2	2.32	0.41
3:Ay:6:LEU:O	3:Ay:19:THR:HA	2.21	0.41
3:Az:20:PHE:HD1	3:Az:34:GLU:HB2	1.85	0.41
3:A2:58:LYS:HA	3:A2:92:ASP:HA	2.02	0.41
3:A4:45:PHE:HA	3:A4:62:LYS:O	2.20	0.41
3:A7:51:LYS:HD3	3:A7:57:TYR:CE1	2.56	0.41
3:A9:33:VAL:CG1	3:A9:44:ARG:HG2	2.51	0.41
3:BC:82:VAL:O	3:BD:96:ARG:NH2	2.53	0.41
3:BE:10:ASP:OD1	3:BE:11:ARG:N	2.54	0.41
3:BF:92:ASP:N	3:BF:92:ASP:OD1	2.54	0.41
3:BH:57:TYR:O	3:BH:92:ASP:HA	2.21	0.41
3:BI:4:GLN:H	3:BJ:119:LEU:CD1	2.34	0.41
3:BJ:21:VAL:HG11	3:BM:128:GLN:OE1	2.21	0.41
3:BO:33:VAL:HG13	3:BO:42:GLU:HB2	2.03	0.41
3:BR:45:PHE:HA	3:BR:62:LYS:O	2.21	0.41
3:Bb:7:VAL:HA	3:Bb:18:HIS:O	2.20	0.41
3:Bd:68:VAL:HG13	3:Bd:80:VAL:C	2.46	0.41
3:Bl:122:ASP:CA	3:Bl:126:ASN:HB2	2.47	0.41
3:Bl:122:ASP:HB2	3:Bl:128:GLN:HB2	2.03	0.41
3:Bw:66:PRO:CB	3:Bw:84:THR:HG22	2.51	0.41
3:By:6:LEU:HG	3:By:8:LEU:CD2	2.50	0.41
3:B4:123:THR:HG23	3:B4:128:GLN:O	2.21	0.41
3:CI:124:ILE:HG23	3:CI:125:VAL:HG23	2.03	0.41
3:CK:120:VAL:O	3:CK:124:ILE:HG12	2.21	0.41
3:CL:44:ARG:O	3:CL:63:LEU:HD12	2.20	0.41
3:CN:39:PRO:HA	3:CN:42:GLU:CD	2.46	0.41
3:CN:113:LEU:HA	3:CN:120:VAL:HG11	2.02	0.41
3:CP:33:VAL:HG13	3:CP:44:ARG:NH1	2.36	0.41
3:CQ:66:PRO:CB	3:CQ:84:THR:HG22	2.51	0.41
3:CR:23:ARG:HD2	3:CR:33:VAL:CG2	2.51	0.41
3:0:20:PHE:HA	3:0:34:GLU:HG2	2.02	0.41
3:1:94:ASP:OD1	3:1:95:ALA:N	2.54	0.41
3:2:7:VAL:HA	3:2:18:HIS:O	2.21	0.41
3:2:112:ALA:O	3:2:113:LEU:HD23	2.21	0.41
3:4:120:VAL:O	3:4:124:ILE:HG22	2.21	0.41
3:5:60:THR:HG23	3:5:90:ASP:OD1	2.21	0.41
3:5:71:GLN:O	3:5:77:VAL:HA	2.21	0.41
3:8:28:ASN:CG	3:AD:24:ASP:HB2	2.46	0.41
3:A:4:GLN:H	3:A:4:GLN:HG3	1.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:83:ARG:NE	3:B:97:SER:HA	2.36	0.41
3:B:46:THR:CB	3:B:62:LYS:HD2	2.51	0.41
3:C:100:LYS:HE2	3:C:104:ASN:OD1	2.21	0.41
3:D:122:ASP:O	3:D:126:ASN:HB2	2.21	0.41
3:O:10:ASP:HB3	3:O:12:GLU:OE1	2.21	0.41
3:O:71:GLN:NE2	3:O:78:THR:HB	2.35	0.41
3:O:74:ASN:HB3	3:H:73:VAL:HG22	2.02	0.41
3:Q:122:ASP:O	3:Q:126:ASN:HB2	2.21	0.41
3:S:7:VAL:HA	3:S:18:HIS:O	2.21	0.41
3:T:52:THR:HG22	3:T:56:ARG:O	2.20	0.41
3:U:23:ARG:NH2	3:U:33:VAL:HG11	2.36	0.41
3:U:67:VAL:O	3:U:81:VAL:HA	2.20	0.41
3:W:31:GLU:HA	3:W:45:PHE:O	2.21	0.41
3:X:21:VAL:C	3:X:32:VAL:HG13	2.46	0.41
3:Y:59:SER:HB3	3:Y:91:PHE:HD2	1.86	0.41
3:Y:61:LEU:HB2	3:Y:89:VAL:HB	2.03	0.41
3:a:25:ILE:HG22	3:a:30:GLY:HA2	2.01	0.41
3:c:9:LYS:HB2	3:d:111:ASP:OD2	2.21	0.41
3:d:82:VAL:HG23	3:d:83:ARG:HG2	2.03	0.41
3:e:104:ASN:CB	3:f:10:ASP:HB3	2.50	0.41
3:h:97:SER:O	3:Bk:38:VAL:HG22	2.21	0.41
3:i:31:GLU:HA	3:i:45:PHE:O	2.21	0.41
3:k:49:LEU:HD12	3:k:58:LYS:O	2.20	0.41
3:k:112:ALA:O	3:k:120:VAL:HG11	2.21	0.41
3:l:71:GLN:O	3:l:77:VAL:HA	2.21	0.41
3:n:32:VAL:O	3:n:44:ARG:HA	2.20	0.41
3:o:51:LYS:NZ	3:o:55:GLY:HA2	2.35	0.41
3:p:31:GLU:HG3	3:p:46:THR:HG22	2.03	0.41
3:p:49:LEU:HD12	3:p:58:LYS:O	2.20	0.41
3:r:33:VAL:HG12	3:r:42:GLU:HG2	2.03	0.41
3:s:71:GLN:HE22	3:s:73:VAL:HG22	1.84	0.41
3:t:30:GLY:N	3:t:47:ILE:O	2.36	0.41
3:u:10:ASP:OD2	3:u:16:ASN:HB2	2.20	0.41
3:v:94:ASP:OD1	3:v:95:ALA:N	2.52	0.41
3:w:120:VAL:O	3:w:124:ILE:HG12	2.20	0.41
3:w:129:GLY:HA3	3:Ac:24:ASP:HB2	2.01	0.41
3:z:94:ASP:OD1	3:z:95:ALA:N	2.51	0.41
3:G:71:GLN:HE22	3:G:73:VAL:HG22	1.85	0.41
3:H:72:THR:OG1	3:H:77:VAL:HG22	2.20	0.41
3:H:97:SER:O	3:A7:38:VAL:HA	2.20	0.41
3:I:39:PRO:O	3:I:40:ILE:HD13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:129:GLY:HA3	3:Aj:24:ASP:CG	2.44	0.41
3:K:47:ILE:HD13	3:K:61:LEU:CD1	2.50	0.41
3:K:51:LYS:NZ	3:K:55:GLY:HA2	2.35	0.41
3:L:6:LEU:HG	3:L:8:LEU:CD1	2.50	0.41
3:M:7:VAL:O	3:N:117:LYS:NZ	2.49	0.41
3:M:12:GLU:OE2	3:N:104:ASN:ND2	2.37	0.41
3:N:32:VAL:O	3:N:44:ARG:HA	2.20	0.41
3:AA:35:SER:OG	3:AA:39:PRO:HA	2.21	0.41
3:AA:92:ASP:HB3	3:AB:86:TYR:O	2.21	0.41
3:AB:21:VAL:O	3:AB:32:VAL:HG13	2.21	0.41
3:AD:101:GLU:N	3:AD:101:GLU:OE1	2.54	0.41
3:AT:7:VAL:O	3:AT:8:LEU:HD23	2.21	0.41
3:AU:38:VAL:HG22	3:AW:97:SER:O	2.21	0.41
3:AU:89:VAL:CG1	3:AV:89:VAL:HG13	2.48	0.41
3:AV:45:PHE:CE2	3:AV:61:LEU:HD22	2.55	0.41
3:AW:14:THR:HG23	3:AW:16:ASN:OD1	2.21	0.41
3:AY:35:SER:CA	3:AY:42:GLU:HG2	2.46	0.41
3:Ac:38:VAL:HG12	3:Ac:40:ILE:CG1	2.47	0.41
3:Ae:4:GLN:HB2	3:Ae:5:ASN:H	1.68	0.41
3:Ai:40:ILE:N	3:Ai:42:GLU:OE2	2.53	0.41
3:Aj:32:VAL:O	3:Aj:44:ARG:HA	2.20	0.41
3:Al:12:GLU:OE1	3:Al:12:GLU:N	2.53	0.41
3:Am:71:GLN:OE1	3:Am:73:VAL:HG23	2.21	0.41
3:Aq:1:ALA:HA	3:Ar:131:TYR:CZ	2.55	0.41
3:Aq:31:GLU:HA	3:Aq:45:PHE:O	2.20	0.41
3:Ar:98:THR:HA	3:CO:37:GLY:O	2.20	0.41
3:As:72:THR:OG1	3:As:77:VAL:HG22	2.21	0.41
3:At:52:THR:HG22	3:At:56:ARG:O	2.20	0.41
3:Av:46:THR:HB	3:Av:62:LYS:CB	2.45	0.41
3:Aw:14:THR:HG23	3:Aw:16:ASN:OD1	2.20	0.41
3:Aw:32:VAL:CG2	3:Aw:45:PHE:HB3	2.44	0.41
3:Aw:98:THR:HG22	3:Aw:101:GLU:HG3	2.03	0.41
3:Ax:98:THR:HA	3:A1:37:GLY:O	2.21	0.41
3:Ay:106:VAL:HG22	3:Az:113:LEU:HD12	2.02	0.41
3:Az:52:THR:OG1	3:Az:53:SER:N	2.54	0.41
3:A1:8:LEU:CD1	3:A2:112:ALA:HA	2.49	0.41
3:A1:33:VAL:HA	3:A1:43:SER:O	2.20	0.41
3:A3:38:VAL:HG12	3:A3:40:ILE:CG1	2.50	0.41
3:A3:66:PRO:CA	3:A3:84:THR:HG22	2.47	0.41
3:A4:30:GLY:O	3:A4:46:THR:HA	2.20	0.41
3:A4:52:THR:CG2	3:A4:56:ARG:HB2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:33:VAL:HA	3:A5:43:SER:O	2.20	0.41
3:A5:52:THR:HG22	3:A5:56:ARG:C	2.46	0.41
3:A6:45:PHE:HE2	3:A6:47:ILE:HD11	1.86	0.41
3:A8:20:PHE:HA	3:A8:34:GLU:OE1	2.21	0.41
3:A9:127:LEU:HD13	3:A0:102:ARG:NH1	2.35	0.41
3:BE:122:ASP:OD1	3:BE:126:ASN:HB2	2.21	0.41
3:BF:25:ILE:HA	3:BF:29:VAL:O	2.20	0.41
3:BF:61:LEU:HD13	3:BF:91:PHE:HE2	1.86	0.41
3:BF:97:SER:CB	3:BF:102:ARG:HD3	2.51	0.41
3:BH:42:GLU:N	3:BH:42:GLU:OE1	2.54	0.41
3:BI:29:VAL:HG22	3:BI:48:SER:HB3	2.03	0.41
3:BJ:51:LYS:NZ	3:BJ:52:THR:O	2.53	0.41
3:BK:121:HIS:NE2	3:BK:125:VAL:HG21	2.35	0.41
3:BL:20:PHE:HB3	3:BL:32:VAL:HG12	2.03	0.41
3:BM:103:ASN:OD1	3:BN:11:ARG:NH1	2.46	0.41
3:BM:118:MET:SD	3:BM:118:MET:N	2.77	0.41
3:BO:87:VAL:HG21	3:BP:109:ILE:HG12	2.02	0.41
3:BP:23:ARG:NH2	3:BP:33:VAL:HG21	2.36	0.41
3:BS:2:GLN:HA	3:CH:131:TYR:OXT	2.20	0.41
3:BS:68:VAL:CG1	3:BS:81:VAL:HG22	2.48	0.41
3:BY:1:ALA:HA	3:BZ:131:TYR:OH	2.21	0.41
3:BY:122:ASP:OD1	3:BY:126:ASN:HB2	2.21	0.41
3:Bb:71:GLN:O	3:Bb:77:VAL:HG13	2.21	0.41
3:Bd:98:THR:O	3:Bd:102:ARG:HG3	2.21	0.41
3:Bg:36:THR:HG1	3:Bg:37:GLY:H	1.66	0.41
3:Bg:122:ASP:O	3:Bg:126:ASN:HB2	2.21	0.41
3:Bi:20:PHE:CD2	3:Bi:34:GLU:HB2	2.56	0.41
3:Bl:20:PHE:CD1	3:Bl:34:GLU:HB2	2.55	0.41
3:Bn:98:THR:O	3:Bn:102:ARG:HG3	2.20	0.41
3:Bx:94:ASP:OD1	3:Bx:95:ALA:N	2.52	0.41
3:Bz:7:VAL:HA	3:Bz:18:HIS:O	2.20	0.41
3:Bz:47:ILE:HD13	3:Bz:61:LEU:HA	2.03	0.41
3:B3:122:ASP:O	3:B3:126:ASN:HB2	2.21	0.41
3:B5:4:GLN:HB2	3:B5:5:ASN:H	1.70	0.41
3:B5:37:GLY:O	3:B5:39:PRO:HD3	2.21	0.41
3:B5:69:GLN:O	3:B5:80:VAL:HG12	2.20	0.41
3:B5:115:ALA:HA	3:B5:121:HIS:CD2	2.56	0.41
3:B7:44:ARG:NH2	3:B7:64:VAL:HG21	2.36	0.41
3:B0:23:ARG:HB2	3:B0:33:VAL:HG23	2.03	0.41
3:B0:43:SER:HA	3:B0:64:VAL:O	2.20	0.41
3:CA:118:MET:HG2	3:CB:4:GLN:HE22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:52:THR:CG2	3:CH:56:ARG:HB2	2.50	0.41
3:CH:102:ARG:O	3:CH:106:VAL:HG23	2.21	0.41
3:CI:51:LYS:HE3	3:CI:51:LYS:HB3	1.91	0.41
3:CK:20:PHE:CD1	3:CK:34:GLU:HB2	2.55	0.41
3:CO:91:PHE:CD1	3:CP:87:VAL:HG12	2.56	0.41
3:CP:69:GLN:O	3:CP:79:PRO:HA	2.20	0.41
3:CQ:48:SER:O	3:CQ:49:LEU:HD23	2.21	0.41
3:CQ:68:VAL:HG12	3:CQ:81:VAL:HA	2.03	0.41
3:CR:39:PRO:HG2	3:CS:95:ALA:O	2.21	0.41
3:3:21:VAL:C	3:3:32:VAL:HG23	2.45	0.41
3:4:122:ASP:CA	3:4:126:ASN:HB2	2.51	0.41
3:7:58:LYS:HG2	3:7:92:ASP:CB	2.43	0.41
3:8:98:THR:HG22	3:8:100:LYS:H	1.85	0.41
3:A:14:THR:HG23	3:A:16:ASN:OD1	2.20	0.41
3:B:52:THR:HG21	3:B:56:ARG:HG2	2.03	0.41
3:D:49:LEU:HD12	3:D:58:LYS:O	2.21	0.41
3:E:7:VAL:O	3:E:8:LEU:HD13	2.21	0.41
3:S:3:LEU:HD12	3:T:119:LEU:HD11	2.02	0.41
3:S:91:PHE:CD2	3:T:87:VAL:HG12	2.56	0.41
3:S:121:HIS:O	3:S:125:VAL:HB	2.21	0.41
3:T:96:ARG:NH1	3:Z:80:VAL:HG12	2.36	0.41
3:U:5:ASN:HD21	3:U:19:THR:HG23	1.86	0.41
3:U:46:THR:OG1	3:U:62:LYS:HB2	2.20	0.41
3:Z:33:VAL:CG1	3:Z:42:GLU:HG3	2.49	0.41
3:b:9:LYS:NZ	3:b:15:PRO:HD2	2.36	0.41
3:b:128:GLN:OE1	3:CB:23:ARG:HG3	2.21	0.41
3:f:25:ILE:HA	3:f:30:GLY:HA2	2.02	0.41
3:o:56:ARG:HA	3:o:93:TYR:O	2.20	0.41
3:r:28:ASN:CG	3:x:24:ASP:HB2	2.46	0.41
3:H:61:LEU:N	3:H:89:VAL:O	2.51	0.41
3:I:37:GLY:HA3	3:Bg:98:THR:OG1	2.21	0.41
3:M:39:PRO:HA	3:M:42:GLU:OE2	2.20	0.41
3:M:45:PHE:HD1	3:M:63:LEU:HD13	1.86	0.41
3:N:40:ILE:HG21	3:N:68:VAL:HG11	2.03	0.41
3:AA:38:VAL:HA	3:AC:97:SER:O	2.21	0.41
3:AB:60:THR:HA	3:AB:90:ASP:OD1	2.21	0.41
3:AQ:118:MET:H	3:AQ:118:MET:HG3	1.65	0.41
3:AU:44:ARG:HH21	3:AU:64:VAL:HG21	1.85	0.41
3:AU:63:LEU:HB3	3:AU:87:VAL:HG11	2.02	0.41
3:AV:104:ASN:O	3:AV:108:MET:HG3	2.21	0.41
3:AY:8:LEU:HD23	3:AY:20:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ac:52:THR:HB	3:Ac:54:ASN:OD1	2.21	0.41
3:Ad:8:LEU:HG	3:Ad:20:PHE:HE2	1.86	0.41
3:Ah:33:VAL:CG2	3:Ah:44:ARG:HG2	2.43	0.41
3:Ah:45:PHE:HZ	3:Ah:61:LEU:HD12	1.86	0.41
3:Aj:69:GLN:HB3	3:B8:76:ILE:HD11	2.03	0.41
3:Am:52:THR:HB	3:Am:54:ASN:OD1	2.21	0.41
3:An:113:LEU:O	3:An:113:LEU:HG	2.21	0.41
3:Ap:8:LEU:HD13	3:Ap:20:PHE:CE2	2.56	0.41
3:Ap:38:VAL:HG11	3:Ap:79:PRO:HG3	2.02	0.41
3:Aq:62:LYS:HE3	3:Aq:88:THR:OG1	2.21	0.41
3:Ax:98:THR:CG2	3:Ax:101:GLU:HG3	2.51	0.41
3:Ay:6:LEU:HB3	3:Ay:20:PHE:HB2	2.01	0.41
3:Ay:29:VAL:HA	3:Ay:48:SER:OG	2.21	0.41
3:A3:98:THR:OG1	3:A3:101:GLU:HG3	2.20	0.41
3:A5:29:VAL:HG13	3:A5:47:ILE:C	2.46	0.41
3:A9:38:VAL:O	3:A9:40:ILE:N	2.54	0.41
3:A9:122:ASP:O	3:A9:126:ASN:HB2	2.21	0.41
3:BA:118:MET:H	3:BA:118:MET:HG3	1.65	0.41
3:BB:40:ILE:HG21	3:BB:68:VAL:HG23	2.02	0.41
3:BH:30:GLY:N	3:BH:47:ILE:O	2.39	0.41
3:BP:82:VAL:HG23	3:BP:83:ARG:HG2	2.02	0.41
3:BR:40:ILE:CG2	3:BR:68:VAL:HG11	2.51	0.41
3:Bn:68:VAL:HG13	3:Bn:80:VAL:O	2.21	0.41
3:By:94:ASP:OD2	3:By:96:ARG:HB2	2.21	0.41
3:B1:94:ASP:OD1	3:B1:95:ALA:N	2.54	0.41
3:B2:98:THR:O	3:B2:102:ARG:HG3	2.21	0.41
3:B6:32:VAL:CG1	3:B6:45:PHE:HB3	2.48	0.41
3:B7:109:ILE:O	3:B7:113:LEU:HG	2.21	0.41
3:B8:33:VAL:HG13	3:B8:42:GLU:CG	2.51	0.41
3:CB:70:SER:HB2	3:CB:77:VAL:HG11	2.02	0.41
3:CB:106:VAL:O	3:CB:109:ILE:HG22	2.22	0.41
3:CC:12:GLU:OE1	3:CC:12:GLU:N	2.54	0.41
3:CM:23:ARG:HG3	3:CM:24:ASP:OD1	2.21	0.41
3:CO:31:GLU:HG2	3:CO:45:PHE:O	2.20	0.41
3:CO:44:ARG:O	3:CO:63:LEU:HA	2.20	0.41
3:CP:11:ARG:NH2	3:CP:114:LYS:O	2.54	0.41
3:CQ:83:ARG:HD2	3:CR:97:SER:OG	2.20	0.41
3:CT:52:THR:CG2	3:CT:56:ARG:HB2	2.51	0.41
3:0:116:ASP:N	3:0:116:ASP:OD1	2.54	0.40
3:1:2:GLN:HA	3:2:131:TYR:OXT	2.20	0.40
3:3:94:ASP:OD1	3:3:95:ALA:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:5:89:VAL:HG22	3:6:89:VAL:HG13	2.03	0.40
3:6:33:VAL:HG13	3:6:43:SER:O	2.21	0.40
3:A:68:VAL:CG1	3:A:81:VAL:HG22	2.51	0.40
3:B:98:THR:HG22	3:B:100:LYS:H	1.85	0.40
3:Q:39:PRO:O	3:Q:40:ILE:HD13	2.21	0.40
3:S:10:ASP:OD1	3:S:11:ARG:N	2.54	0.40
3:S:117:LYS:HD2	3:T:6:LEU:CD1	2.51	0.40
3:U:120:VAL:HA	3:U:123:THR:HG22	2.04	0.40
3:V:12:GLU:OE1	3:V:14:THR:HG22	2.21	0.40
3:c:99:THR:OG1	3:c:102:ARG:NH2	2.51	0.40
3:e:8:LEU:HD23	3:e:20:PHE:CE1	2.55	0.40
3:f:98:THR:O	3:f:102:ARG:HG3	2.20	0.40
3:o:31:GLU:CB	3:o:46:THR:HG22	2.51	0.40
3:p:7:VAL:HA	3:p:18:HIS:O	2.21	0.40
3:p:71:GLN:HE22	3:p:73:VAL:HG22	1.85	0.40
3:r:131:TYR:CD1	3:BH:24:ASP:HA	2.56	0.40
3:y:89:VAL:CG1	3:z:89:VAL:HG13	2.51	0.40
3:J:121:HIS:HA	3:J:124:ILE:HG22	2.03	0.40
3:AQ:120:VAL:HG22	3:AQ:124:ILE:HG12	2.02	0.40
3:AZ:31:GLU:HA	3:AZ:45:PHE:O	2.21	0.40
3:Aa:131:TYR:OH	3:Ab:1:ALA:HB1	2.22	0.40
3:Ac:29:VAL:CG1	3:Ac:46:THR:HG23	2.51	0.40
3:Ae:33:VAL:CG1	3:Ae:44:ARG:HA	2.50	0.40
3:Ae:89:VAL:HG12	3:Af:89:VAL:HG22	2.03	0.40
3:Aj:3:LEU:HD21	3:Aj:22:PRO:HB3	2.03	0.40
3:Aj:33:VAL:HG13	3:Aj:42:GLU:HG3	2.01	0.40
3:Ak:112:ALA:HA	3:Ak:117:LYS:HE3	2.02	0.40
3:Am:31:GLU:H	3:Am:31:GLU:HG3	1.72	0.40
3:Ap:14:THR:HG23	3:Ap:15:PRO:HD2	2.04	0.40
3:As:119:LEU:HB2	3:At:4:GLN:NE2	2.35	0.40
3:Aw:29:VAL:HG22	3:Aw:48:SER:CB	2.50	0.40
3:A2:114:LYS:HB3	3:A2:116:ASP:OD1	2.21	0.40
3:A4:63:LEU:O	3:A4:87:VAL:HG22	2.21	0.40
3:A7:96:ARG:HB2	3:A8:83:ARG:HD3	2.03	0.40
3:BA:31:GLU:OE2	3:BA:44:ARG:HB3	2.21	0.40
3:BB:98:THR:HG22	3:BB:100:LYS:H	1.86	0.40
3:BG:35:SER:HB2	3:BG:42:GLU:HB2	2.03	0.40
3:BG:97:SER:O	3:CT:38:VAL:HG12	2.20	0.40
3:BI:7:VAL:HA	3:BI:18:HIS:O	2.21	0.40
3:BK:48:SER:O	3:BK:49:LEU:HD23	2.22	0.40
3:BK:70:SER:HA	3:BK:79:PRO:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BP:92:ASP:OD1	3:BP:92:ASP:N	2.54	0.40
3:BP:99:THR:OG1	3:BP:102:ARG:NH2	2.53	0.40
3:BQ:37:GLY:O	3:BQ:39:PRO:HD3	2.21	0.40
3:BR:47:ILE:HD13	3:BR:61:LEU:CD1	2.51	0.40
3:BS:119:LEU:HB2	3:CH:4:GLN:NE2	2.36	0.40
3:BS:121:HIS:CE1	3:BS:125:VAL:HG21	2.56	0.40
3:BY:18:HIS:HB3	3:BY:34:GLU:OE1	2.21	0.40
3:BY:29:VAL:HG22	3:BY:48:SER:CB	2.51	0.40
3:Bc:94:ASP:OD1	3:Bc:95:ALA:N	2.54	0.40
3:Bg:44:ARG:O	3:Bg:63:LEU:HD12	2.21	0.40
3:Bi:8:LEU:CD1	3:Bj:112:ALA:HA	2.50	0.40
3:Bk:44:ARG:O	3:Bk:63:LEU:HD12	2.21	0.40
3:By:64:VAL:HG13	3:By:85:SER:O	2.20	0.40
3:By:118:MET:H	3:By:118:MET:HG3	1.63	0.40
3:Bz:8:LEU:HD13	3:Bz:20:PHE:CE1	2.56	0.40
3:B1:35:SER:HB2	3:B1:42:GLU:HG3	2.02	0.40
3:B5:57:TYR:O	3:B5:92:ASP:HA	2.20	0.40
3:B7:71:GLN:NE2	3:B7:78:THR:O	2.53	0.40
3:B9:98:THR:OG1	3:B9:101:GLU:HG2	2.21	0.40
3:CD:10:ASP:HB3	3:CD:12:GLU:OE1	2.20	0.40
3:CD:39:PRO:HA	3:CD:42:GLU:CD	2.46	0.40
3:CK:48:SER:O	3:CK:49:LEU:HD23	2.22	0.40
3:CK:89:VAL:HG12	3:CL:89:VAL:CG1	2.44	0.40
3:CM:121:HIS:HA	3:CM:124:ILE:CG2	2.51	0.40
3:CO:48:SER:O	3:CO:49:LEU:HD23	2.21	0.40
3:1:61:LEU:O	3:1:88:THR:HA	2.20	0.40
3:4:21:VAL:C	3:4:32:VAL:HG13	2.46	0.40
3:5:111:ASP:O	3:5:114:LYS:HG2	2.21	0.40
3:8:32:VAL:O	3:8:44:ARG:HA	2.21	0.40
3:9:66:PRO:HA	3:9:84:THR:HG23	2.03	0.40
3:9:119:LEU:HD23	3:9:119:LEU:O	2.21	0.40
3:A:125:VAL:HG22	3:B:106:VAL:HG21	2.03	0.40
3:C:12:GLU:OE1	3:C:13:ALA:N	2.55	0.40
3:C:22:PRO:HA	3:C:32:VAL:HG12	2.02	0.40
3:D:39:PRO:HG2	3:R:95:ALA:O	2.21	0.40
3:E:31:GLU:HA	3:E:45:PHE:O	2.21	0.40
3:E:44:ARG:O	3:E:63:LEU:HA	2.21	0.40
3:P:38:VAL:HG12	3:BQ:98:THR:HA	2.02	0.40
3:Q:38:VAL:O	3:Q:40:ILE:N	2.54	0.40
3:Q:64:VAL:HG22	3:Q:86:TYR:CD1	2.56	0.40
3:S:33:VAL:HG12	3:S:44:ARG:CA	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:3:LEU:HD22	3:c:25:ILE:CD1	2.42	0.40
3:e:64:VAL:HG22	3:e:86:TYR:CD1	2.56	0.40
3:f:40:ILE:HG22	3:f:68:VAL:HG22	2.02	0.40
3:g:26:ARG:HG2	3:g:27:ASP:OD2	2.20	0.40
3:h:121:HIS:NE2	3:h:125:VAL:HG21	2.36	0.40
3:i:6:LEU:HG	3:i:8:LEU:HD22	2.02	0.40
3:i:12:GLU:OE1	3:i:12:GLU:N	2.54	0.40
3:k:98:THR:O	3:k:102:ARG:HG3	2.21	0.40
3:o:93:TYR:CE1	3:o:102:ARG:HG2	2.55	0.40
3:o:121:HIS:CE1	3:o:125:VAL:HG21	2.56	0.40
3:r:46:THR:HB	3:r:62:LYS:HE3	2.03	0.40
3:s:6:LEU:O	3:s:19:THR:HA	2.21	0.40
3:s:51:LYS:HZ3	3:s:56:ARG:H	1.68	0.40
3:u:113:LEU:HD13	3:v:109:ILE:HG23	2.03	0.40
3:w:47:ILE:HD11	3:x:123:THR:HG21	2.02	0.40
3:z:66:PRO:HB3	3:z:84:THR:OG1	2.22	0.40
3:M:48:SER:O	3:M:49:LEU:HD23	2.21	0.40
3:N:20:PHE:CD1	3:N:34:GLU:HB2	2.56	0.40
3:AB:31:GLU:HA	3:AB:45:PHE:O	2.21	0.40
3:AO:24:ASP:CG	3:AR:129:GLY:HA3	2.46	0.40
3:AO:51:LYS:HZ1	3:AO:55:GLY:HA2	1.85	0.40
3:AP:20:PHE:CE1	3:AP:34:GLU:HG2	2.56	0.40
3:AQ:60:THR:O	3:AQ:61:LEU:HD23	2.21	0.40
3:AU:38:VAL:O	3:AU:40:ILE:N	2.53	0.40
3:AU:121:HIS:CD2	3:AU:125:VAL:HG21	2.56	0.40
3:Aa:131:TYR:HB3	3:B3:25:ILE:HG12	2.01	0.40
3:Ab:29:VAL:HG22	3:Ab:48:SER:CB	2.52	0.40
3:Ac:72:THR:HA	3:Ac:76:ILE:O	2.21	0.40
3:Ad:32:VAL:O	3:Ad:45:PHE:N	2.47	0.40
3:Ae:6:LEU:O	3:Ae:19:THR:HA	2.21	0.40
3:Aj:44:ARG:CG	3:Aj:64:VAL:HB	2.51	0.40
3:Ak:23:ARG:NH2	3:Ak:33:VAL:HG21	2.36	0.40
3:Ak:45:PHE:HB2	3:Ak:63:LEU:CD1	2.48	0.40
3:Ak:117:LYS:O	3:Ak:121:HIS:HB3	2.21	0.40
3:Ao:61:LEU:HB2	3:Ao:89:VAL:HG23	2.03	0.40
3:As:46:THR:CB	3:As:62:LYS:HB2	2.48	0.40
3:Au:117:LYS:NZ	3:Av:8:LEU:HG	2.36	0.40
3:Aw:29:VAL:HG13	3:Aw:48:SER:HB3	2.04	0.40
3:A1:4:GLN:NE2	3:A2:119:LEU:HD12	2.36	0.40
3:A1:89:VAL:CG1	3:A2:89:VAL:HG22	2.50	0.40
3:A2:92:ASP:OD1	3:A2:92:ASP:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A4:68:VAL:HG13	3:A4:80:VAL:C	2.45	0.40
3:A4:124:ILE:HG23	3:A4:125:VAL:HG23	2.02	0.40
3:A5:60:THR:O	3:A5:61:LEU:HD23	2.21	0.40
3:BA:6:LEU:O	3:BA:19:THR:HA	2.22	0.40
3:BA:131:TYR:CE1	3:BB:1:ALA:HA	2.56	0.40
3:BC:80:VAL:HG12	3:Bz:96:ARG:NH2	2.36	0.40
3:BD:122:ASP:O	3:BD:126:ASN:HB2	2.20	0.40
3:BH:24:ASP:O	3:BH:25:ILE:HD13	2.21	0.40
3:BM:35:SER:OG	3:BM:36:THR:N	2.54	0.40
3:BQ:89:VAL:CG1	3:BR:89:VAL:HG13	2.48	0.40
3:BS:64:VAL:HG22	3:BS:86:TYR:HD1	1.87	0.40
3:Bb:23:ARG:HD2	3:Bb:33:VAL:HG21	2.03	0.40
3:Bc:71:GLN:HE22	3:Bc:73:VAL:HG22	1.86	0.40
3:Bg:98:THR:OG1	3:Bg:99:THR:N	2.54	0.40
3:Bl:47:ILE:CD1	3:Bl:61:LEU:HG	2.52	0.40
3:Bm:71:GLN:NE2	3:Bm:78:THR:O	2.54	0.40
3:Bn:46:THR:HB	3:Bn:62:LYS:HB2	2.03	0.40
3:Bu:58:LYS:HA	3:Bu:91:PHE:O	2.21	0.40
3:B1:44:ARG:O	3:B1:63:LEU:HD12	2.21	0.40
3:B4:113:LEU:O	3:B4:113:LEU:HG	2.19	0.40
3:CA:6:LEU:O	3:CA:19:THR:HA	2.22	0.40
3:CB:38:VAL:HG21	3:CB:79:PRO:HG3	2.04	0.40
3:CH:118:MET:H	3:CH:118:MET:HG3	1.63	0.40
3:CI:60:THR:HG22	3:CI:62:LYS:CD	2.52	0.40
3:CP:99:THR:HA	3:CP:102:ARG:HE	1.86	0.40
3:CT:4:GLN:HE21	3:CT:4:GLN:HB2	1.69	0.40
3:0:25:ILE:HD11	3:0:28:ASN:HA	2.02	0.40
3:0:63:LEU:O	3:0:87:VAL:HG12	2.21	0.40
3:3:114:LYS:HB3	3:3:116:ASP:OD1	2.21	0.40
3:A:4:GLN:OE1	3:A:5:ASN:N	2.55	0.40
3:C:56:ARG:HD3	3:C:92:ASP:OD1	2.22	0.40
3:E:37:GLY:O	3:Bc:98:THR:HA	2.21	0.40
3:O:89:VAL:HG21	3:P:109:ILE:HD11	2.03	0.40
3:S:12:GLU:OE2	3:T:104:ASN:ND2	2.45	0.40
3:W:43:SER:HA	3:W:64:VAL:O	2.22	0.40
3:Y:76:ILE:HD11	3:BS:71:GLN:HB3	2.03	0.40
3:Z:31:GLU:HG3	3:Z:46:THR:HG22	2.03	0.40
3:Z:67:VAL:O	3:Z:81:VAL:HG13	2.21	0.40
3:a:63:LEU:O	3:a:87:VAL:HG12	2.21	0.40
3:b:119:LEU:O	3:b:119:LEU:HD23	2.20	0.40
3:c:98:THR:O	3:c:102:ARG:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:23:ARG:NH2	3:d:33:VAL:HG21	2.37	0.40
3:f:71:GLN:N	3:f:77:VAL:HG13	2.24	0.40
3:g:104:ASN:ND2	3:h:11:ARG:O	2.54	0.40
3:h:12:GLU:N	3:h:12:GLU:OE1	2.54	0.40
3:m:10:ASP:OD1	3:n:108:MET:HE3	2.21	0.40
3:o:29:VAL:HG13	3:o:47:ILE:O	2.22	0.40
3:v:25:ILE:HD13	3:v:30:GLY:HA2	2.02	0.40
3:y:48:SER:O	3:y:49:LEU:HD23	2.21	0.40
3:z:113:LEU:HB3	3:z:120:VAL:HG11	2.03	0.40
3:G:119:LEU:O	3:G:119:LEU:HD23	2.21	0.40
3:I:89:VAL:CG1	3:J:89:VAL:HG13	2.52	0.40
3:J:38:VAL:HG21	3:BS:96:ARG:HA	2.03	0.40
3:J:45:PHE:CE1	3:J:63:LEU:HD12	2.56	0.40
3:M:35:SER:OG	3:M:36:THR:N	2.53	0.40
3:AA:12:GLU:OE1	3:AA:12:GLU:N	2.55	0.40
3:AC:8:LEU:HD23	3:AC:20:PHE:CE2	2.54	0.40
3:AD:51:LYS:HB3	3:AD:57:TYR:CD1	2.57	0.40
3:AR:98:THR:HB	3:By:38:VAL:CG2	2.51	0.40
3:AU:98:THR:HA	3:Bl:37:GLY:O	2.21	0.40
3:Aa:93:TYR:CD1	3:Aa:102:ARG:HG2	2.56	0.40
3:Ae:46:THR:O	3:Ae:61:LEU:HA	2.20	0.40
3:Ah:59:SER:OG	3:Ah:90:ASP:HA	2.22	0.40
3:Ah:71:GLN:O	3:Ah:77:VAL:HA	2.21	0.40
3:Am:98:THR:HG22	3:Bb:38:VAL:CG2	2.45	0.40
3:A3:48:SER:O	3:A3:49:LEU:HD23	2.21	0.40
3:A4:38:VAL:HG13	3:A4:40:ILE:HD13	2.03	0.40
3:BE:66:PRO:CB	3:BE:84:THR:HG22	2.51	0.40
3:BF:121:HIS:O	3:BF:125:VAL:HB	2.20	0.40
3:BI:49:LEU:HD12	3:BI:58:LYS:O	2.22	0.40
3:BM:9:LYS:NZ	3:BM:15:PRO:HB3	2.36	0.40
3:BP:115:ALA:HA	3:BP:121:HIS:CD2	2.57	0.40
3:BQ:106:VAL:CG1	3:BR:113:LEU:HD12	2.51	0.40
3:BR:7:VAL:C	3:BR:8:LEU:HD22	2.46	0.40
3:Bb:114:LYS:HB3	3:Bb:116:ASP:OD1	2.21	0.40
3:Bh:5:ASN:HB3	3:Bh:19:THR:CG2	2.51	0.40
3:Bk:23:ARG:HG3	3:Bk:24:ASP:OD1	2.20	0.40
3:Bk:50:ARG:NH2	3:Bk:58:LYS:HE3	2.35	0.40
3:Bk:51:LYS:HD3	3:Bk:52:THR:H	1.87	0.40
3:Bl:72:THR:HA	3:Bl:76:ILE:O	2.21	0.40
3:Bm:21:VAL:C	3:Bm:32:VAL:HG23	2.47	0.40
3:Bm:61:LEU:HB2	3:Bm:89:VAL:HG23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bm:64:VAL:HG22	3:Bm:86:TYR:CD1	2.57	0.40
3:Bu:69:GLN:HB3	3:Bu:70:SER:H	1.71	0.40
3:Bw:29:VAL:HG13	3:Bw:48:SER:CB	2.48	0.40
3:Bw:106:VAL:HG21	3:Bx:125:VAL:HG22	2.02	0.40
3:Bx:118:MET:SD	3:Bx:118:MET:N	2.76	0.40
3:Bz:31:GLU:HA	3:Bz:46:THR:HA	2.04	0.40
3:B1:9:LYS:N	3:B2:111:ASP:OD2	2.51	0.40
3:B2:63:LEU:O	3:B2:87:VAL:HG22	2.22	0.40
3:B3:97:SER:HB2	3:B3:101:GLU:OE2	2.22	0.40
3:B6:60:THR:HA	3:B6:90:ASP:HA	2.02	0.40
3:B7:37:GLY:C	3:B7:39:PRO:HD3	2.46	0.40
3:B8:123:THR:O	3:B8:127:LEU:HD13	2.21	0.40
3:B9:37:GLY:O	3:B9:39:PRO:HD3	2.20	0.40
3:CD:59:SER:OG	3:CD:91:PHE:HB2	2.20	0.40
3:CI:102:ARG:O	3:CI:106:VAL:HG23	2.21	0.40
3:CK:66:PRO:CB	3:CK:84:THR:HG22	2.50	0.40
3:CN:118:MET:H	3:CN:118:MET:HG3	1.65	0.40
3:CT:94:ASP:OD1	3:CT:95:ALA:N	2.55	0.40
3:0:130:VAL:HG11	3:9:30:GLY:N	2.35	0.40
3:1:41:GLY:HA3	3:1:68:VAL:CG2	2.52	0.40
3:4:47:ILE:HA	3:4:60:THR:O	2.22	0.40
3:7:86:TYR:HB2	3:8:92:ASP:OD2	2.21	0.40
3:8:44:ARG:O	3:8:63:LEU:HA	2.21	0.40
3:O:83:ARG:NH2	3:P:96:ARG:O	2.54	0.40
3:O:91:PHE:CZ	3:O:109:ILE:HG21	2.57	0.40
3:S:71:GLN:OE1	3:S:73:VAL:HG23	2.22	0.40
3:T:71:GLN:H	3:T:77:VAL:HG13	1.86	0.40
3:T:96:ARG:HG2	3:Z:40:ILE:HD12	2.03	0.40
3:T:98:THR:HG22	3:T:100:LYS:H	1.87	0.40
3:V:45:PHE:CD1	3:V:63:LEU:HD13	2.56	0.40
3:a:127:LEU:HD23	3:b:57:TYR:CD1	2.57	0.40
3:d:98:THR:CG2	3:d:101:GLU:HG2	2.51	0.40
3:i:61:LEU:HB2	3:i:89:VAL:HG22	2.03	0.40
3:i:86:TYR:HB2	3:j:92:ASP:OD2	2.22	0.40
3:o:120:VAL:O	3:o:124:ILE:HG22	2.21	0.40
3:q:92:ASP:N	3:q:92:ASP:OD1	2.53	0.40
3:s:130:VAL:HG11	3:t:30:GLY:CA	2.52	0.40
3:t:69:GLN:O	3:t:79:PRO:HA	2.22	0.40
3:H:8:LEU:HD23	3:H:20:PHE:HE2	1.86	0.40
3:H:119:LEU:O	3:H:119:LEU:HD23	2.21	0.40
3:J:72:THR:HA	3:J:76:ILE:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:116:ASP:OD1	3:K:116:ASP:N	2.55	0.40
3:M:52:THR:HB	3:M:54:ASN:OD1	2.21	0.40
3:N:104:ASN:O	3:N:108:MET:HG2	2.22	0.40
3:AA:109:ILE:O	3:AA:113:LEU:HD13	2.21	0.40
3:AO:52:THR:HB	3:AO:54:ASN:OD1	2.21	0.40
3:AO:86:TYR:HB2	3:AP:92:ASP:OD2	2.21	0.40
3:AS:4:GLN:NE2	3:AT:119:LEU:HD12	2.37	0.40
3:AT:57:TYR:O	3:AT:92:ASP:HA	2.21	0.40
3:AU:18:HIS:HB3	3:AU:34:GLU:OE1	2.21	0.40
3:AZ:48:SER:OG	3:AZ:60:THR:HB	2.22	0.40
3:AZ:57:TYR:CD2	3:AZ:93:TYR:HB2	2.56	0.40
3:Aa:101:GLU:N	3:Aa:101:GLU:OE1	2.54	0.40
3:Ab:102:ARG:O	3:Ab:106:VAL:HG12	2.22	0.40
3:Ac:25:ILE:HA	3:Ac:29:VAL:O	2.21	0.40
3:Af:12:GLU:OE2	3:Af:15:PRO:HA	2.21	0.40
3:Ag:127:LEU:HD11	3:Ah:57:TYR:CE2	2.57	0.40
3:Ah:97:SER:O	3:CQ:38:VAL:HA	2.20	0.40
3:Am:25:ILE:HA	3:Am:29:VAL:O	2.20	0.40
3:Ao:124:ILE:HG13	3:Ao:125:VAL:HG23	2.04	0.40
3:Aq:82:VAL:HG23	3:Aq:83:ARG:HG3	2.03	0.40
3:Ay:112:ALA:HB1	3:Ay:120:VAL:HG21	2.03	0.40
3:A2:38:VAL:CG2	3:B1:96:ARG:HA	2.51	0.40
3:A3:25:ILE:HG12	3:A6:131:TYR:CB	2.51	0.40
3:A4:58:LYS:HA	3:A4:91:PHE:O	2.21	0.40
3:A5:33:VAL:CG2	3:A5:44:ARG:HG2	2.51	0.40
3:A5:38:VAL:HG12	3:A5:40:ILE:HG22	2.03	0.40
3:A0:12:GLU:OE1	3:A0:12:GLU:N	2.55	0.40
3:A0:45:PHE:CD1	3:A0:63:LEU:HD13	2.54	0.40
3:BA:111:ASP:OD2	3:BB:9:LYS:N	2.55	0.40
3:BE:46:THR:O	3:BE:61:LEU:HA	2.22	0.40
3:BF:59:SER:OG	3:BF:91:PHE:HB2	2.22	0.40
3:BG:63:LEU:HB3	3:BG:87:VAL:CG1	2.51	0.40
3:BM:105:PHE:HA	3:BM:108:MET:HE2	2.03	0.40
3:BV:1:ALA:N	3:CI:129:GLY:O	2.52	0.40
3:BV:129:GLY:O	3:CI:1:ALA:HA	2.22	0.40
3:Bc:33:VAL:CG1	3:Bc:42:GLU:HG3	2.51	0.40
3:Bk:8:LEU:O	3:Bk:9:LYS:HD2	2.22	0.40
3:Bn:8:LEU:HD13	3:Bn:20:PHE:CE1	2.56	0.40
3:Bn:119:LEU:HD23	3:Bn:119:LEU:O	2.22	0.40
3:Bu:45:PHE:HA	3:Bu:62:LYS:O	2.21	0.40
3:Bw:71:GLN:NE2	3:Bw:78:THR:O	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B8:113:LEU:O	3:B8:113:LEU:HG	2.20	0.40
3:CC:6:LEU:HG	3:CC:8:LEU:CD2	2.52	0.40
3:CC:43:SER:HA	3:CC:64:VAL:O	2.22	0.40
3:CC:48:SER:O	3:CC:49:LEU:HD23	2.21	0.40
3:CC:50:ARG:NH1	3:CC:58:LYS:HD2	2.27	0.40
3:CI:121:HIS:O	3:CI:125:VAL:HB	2.21	0.40
3:CK:5:ASN:HA	3:CK:20:PHE:O	2.22	0.40
3:CK:23:ARG:HD2	3:CK:33:VAL:HG21	2.03	0.40
3:CO:37:GLY:O	3:CO:39:PRO:HD3	2.21	0.40
3:CQ:4:GLN:HB2	3:CQ:5:ASN:H	1.75	0.40
3:0:122:ASP:HA	3:0:126:ASN:ND2	2.36	0.40
3:3:83:ARG:NE	3:4:101:GLU:OE2	2.49	0.40
3:7:10:ASP:HB2	3:7:12:GLU:OE1	2.22	0.40
3:7:47:ILE:HA	3:7:60:THR:O	2.21	0.40
3:9:50:ARG:NH1	3:9:51:LYS:O	2.54	0.40
3:W:102:ARG:O	3:W:106:VAL:HG23	2.22	0.40
3:a:14:THR:HG23	3:a:14:THR:O	2.22	0.40
3:e:47:ILE:HD11	3:f:123:THR:HG21	2.02	0.40
3:e:54:ASN:OD1	3:e:55:GLY:N	2.55	0.40
3:f:99:THR:HA	3:f:102:ARG:HE	1.86	0.40
3:i:24:ASP:CG	3:l:129:GLY:HA3	2.46	0.40
3:m:121:HIS:CE1	3:m:125:VAL:HG21	2.56	0.40
3:q:96:ARG:HA	3:BH:40:ILE:HG12	2.02	0.40
3:t:23:ARG:NH2	3:t:33:VAL:HG11	2.37	0.40
3:u:12:GLU:OE2	3:v:104:ASN:ND2	2.42	0.40
3:v:31:GLU:HA	3:v:45:PHE:O	2.21	0.40
3:J:69:GLN:O	3:J:79:PRO:HA	2.20	0.40
3:AA:7:VAL:HA	3:AA:18:HIS:O	2.21	0.40
3:AA:45:PHE:HA	3:AA:62:LYS:O	2.22	0.40
3:AA:123:THR:O	3:AA:127:LEU:HA	2.21	0.40
3:AA:124:ILE:HG23	3:AA:125:VAL:HG23	2.04	0.40
3:AC:120:VAL:HG22	3:AC:124:ILE:HG12	2.04	0.40
3:AD:52:THR:OG1	3:AD:56:ARG:HB3	2.22	0.40
3:AP:71:GLN:HE22	3:AP:73:VAL:HG22	1.85	0.40
3:AP:123:THR:O	3:AP:127:LEU:HA	2.20	0.40
3:AV:20:PHE:HD1	3:AV:34:GLU:HB2	1.85	0.40
3:AV:30:GLY:N	3:AV:47:ILE:O	2.32	0.40
3:AZ:122:ASP:O	3:AZ:128:GLN:N	2.43	0.40
3:Ab:72:THR:HA	3:Ab:76:ILE:O	2.21	0.40
3:Ah:32:VAL:HG23	3:Ah:45:PHE:HB3	2.02	0.40
3:Ah:45:PHE:CZ	3:Ah:61:LEU:HD12	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Aj:34:GLU:O	3:Aj:42:GLU:HB2	2.21	0.40
3:Ak:98:THR:O	3:Ak:102:ARG:HG3	2.22	0.40
3:An:22:PRO:HA	3:An:32:VAL:HA	2.03	0.40
3:An:63:LEU:O	3:An:87:VAL:HG22	2.21	0.40
3:Ap:52:THR:HG21	3:Ap:56:ARG:HB2	2.04	0.40
3:Aq:63:LEU:HB3	3:Aq:87:VAL:CG1	2.51	0.40
3:At:99:THR:HA	3:At:102:ARG:HE	1.87	0.40
3:Au:10:ASP:HB2	3:Au:12:GLU:OE1	2.22	0.40
3:Au:33:VAL:HB	3:Au:42:GLU:HG2	2.04	0.40
3:Az:98:THR:O	3:Az:102:ARG:HG3	2.21	0.40
3:A1:8:LEU:HD23	3:A1:20:PHE:CE1	2.56	0.40
3:A4:120:VAL:O	3:A4:124:ILE:HG22	2.21	0.40
3:A7:71:GLN:OE1	3:A7:73:VAL:HG23	2.21	0.40
3:A8:49:LEU:HD13	3:A8:59:SER:HB3	2.03	0.40
3:BG:71:GLN:O	3:BG:77:VAL:HA	2.21	0.40
3:BJ:97:SER:O	3:CC:38:VAL:HG22	2.21	0.40
3:BK:98:THR:OG1	3:BK:101:GLU:HG2	2.22	0.40
3:BR:69:GLN:O	3:BR:79:PRO:HA	2.22	0.40
3:BV:9:LYS:N	3:CI:111:ASP:OD2	2.47	0.40
3:Bd:21:VAL:HB	3:Bd:33:VAL:O	2.21	0.40
3:Bd:68:VAL:HG22	3:Bd:81:VAL:CG2	2.48	0.40
3:Bg:12:GLU:OE2	3:Bg:15:PRO:HA	2.21	0.40
3:Bh:98:THR:O	3:Bh:102:ARG:HG3	2.20	0.40
3:Bm:29:VAL:CG1	3:Bm:46:THR:HG23	2.47	0.40
3:Bm:48:SER:O	3:Bm:49:LEU:HD23	2.21	0.40
3:Bw:124:ILE:HD13	3:Bx:106:VAL:HG13	2.03	0.40
3:B1:20:PHE:HE2	3:B1:43:SER:HB2	1.86	0.40
3:B5:14:THR:O	3:B5:16:ASN:N	2.55	0.40
3:B5:63:LEU:HD23	3:B5:64:VAL:N	2.36	0.40
3:B0:103:ASN:O	3:B0:106:VAL:HG12	2.21	0.40
3:CA:19:THR:O	3:CA:34:GLU:HG3	2.21	0.40
3:CA:52:THR:HB	3:CA:54:ASN:OD1	2.21	0.40
3:CB:14:THR:HG23	3:CB:15:PRO:HD2	2.04	0.40
3:CB:20:PHE:HB3	3:CB:32:VAL:CG1	2.52	0.40
3:CB:65:VAL:HG13	3:CB:65:VAL:O	2.22	0.40
3:CC:62:LYS:HG2	3:CC:88:THR:CG2	2.51	0.40
3:CC:122:ASP:OD2	3:CD:1:ALA:HB2	2.21	0.40
3:CD:25:ILE:CD1	3:CD:30:GLY:HA2	2.52	0.40
3:CH:67:VAL:O	3:CH:82:VAL:HG22	2.21	0.40
3:CK:37:GLY:O	3:CK:39:PRO:HD3	2.21	0.40
3:CL:52:THR:HG21	3:CL:56:ARG:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CT:63:LEU:HB3	3:CT:87:VAL:HG21	2.02	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
1	F	404/406 (100%)	372 (92%)	30 (7%)	2 (0%)	24 57
3	0	129/131 (98%)	107 (83%)	21 (16%)	1 (1%)	16 49
3	1	129/131 (98%)	111 (86%)	17 (13%)	1 (1%)	16 49
3	2	129/131 (98%)	106 (82%)	23 (18%)	0	100 100
3	3	129/131 (98%)	111 (86%)	17 (13%)	1 (1%)	16 49
3	4	129/131 (98%)	105 (81%)	21 (16%)	3 (2%)	5 30
3	5	129/131 (98%)	113 (88%)	16 (12%)	0	100 100
3	6	129/131 (98%)	112 (87%)	17 (13%)	0	100 100
3	7	129/131 (98%)	109 (84%)	17 (13%)	3 (2%)	5 30
3	8	129/131 (98%)	107 (83%)	22 (17%)	0	100 100
3	9	129/131 (98%)	109 (84%)	20 (16%)	0	100 100
3	A	129/131 (98%)	106 (82%)	21 (16%)	2 (2%)	7 36
3	A0	129/131 (98%)	109 (84%)	19 (15%)	1 (1%)	16 49
3	A1	129/131 (98%)	106 (82%)	21 (16%)	2 (2%)	7 36
3	A2	129/131 (98%)	107 (83%)	18 (14%)	4 (3%)	3 25
3	A3	129/131 (98%)	112 (87%)	16 (12%)	1 (1%)	16 49
3	A4	129/131 (98%)	113 (88%)	15 (12%)	1 (1%)	16 49
3	A5	129/131 (98%)	110 (85%)	16 (12%)	3 (2%)	5 30
3	A6	129/131 (98%)	109 (84%)	19 (15%)	1 (1%)	16 49

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	A7	129/131 (98%)	107 (83%)	21 (16%)	1 (1%)	16 49
3	A8	129/131 (98%)	108 (84%)	19 (15%)	2 (2%)	7 36
3	A9	129/131 (98%)	113 (88%)	13 (10%)	3 (2%)	5 30
3	AA	129/131 (98%)	107 (83%)	20 (16%)	2 (2%)	7 36
3	AB	129/131 (98%)	107 (83%)	20 (16%)	2 (2%)	7 36
3	AC	129/131 (98%)	107 (83%)	22 (17%)	0	100 100
3	AD	129/131 (98%)	111 (86%)	17 (13%)	1 (1%)	16 49
3	AO	129/131 (98%)	108 (84%)	19 (15%)	2 (2%)	7 36
3	AP	129/131 (98%)	104 (81%)	22 (17%)	3 (2%)	5 30
3	AQ	129/131 (98%)	114 (88%)	15 (12%)	0	100 100
3	AR	129/131 (98%)	111 (86%)	18 (14%)	0	100 100
3	AS	129/131 (98%)	108 (84%)	19 (15%)	2 (2%)	7 36
3	AT	129/131 (98%)	114 (88%)	13 (10%)	2 (2%)	7 36
3	AU	129/131 (98%)	110 (85%)	17 (13%)	2 (2%)	7 36
3	AV	129/131 (98%)	103 (80%)	24 (19%)	2 (2%)	7 36
3	AW	129/131 (98%)	109 (84%)	19 (15%)	1 (1%)	16 49
3	AX	129/131 (98%)	111 (86%)	17 (13%)	1 (1%)	16 49
3	AY	129/131 (98%)	108 (84%)	18 (14%)	3 (2%)	5 30
3	AZ	129/131 (98%)	111 (86%)	16 (12%)	2 (2%)	7 36
3	Aa	129/131 (98%)	113 (88%)	16 (12%)	0	100 100
3	Ab	129/131 (98%)	111 (86%)	16 (12%)	2 (2%)	7 36
3	Ac	129/131 (98%)	108 (84%)	19 (15%)	2 (2%)	7 36
3	Ad	129/131 (98%)	107 (83%)	19 (15%)	3 (2%)	5 30
3	Ae	129/131 (98%)	112 (87%)	14 (11%)	3 (2%)	5 30
3	Af	129/131 (98%)	106 (82%)	21 (16%)	2 (2%)	7 36
3	Ag	129/131 (98%)	113 (88%)	16 (12%)	0	100 100
3	Ah	129/131 (98%)	113 (88%)	15 (12%)	1 (1%)	16 49
3	Ai	129/131 (98%)	108 (84%)	18 (14%)	3 (2%)	5 30
3	Aj	129/131 (98%)	110 (85%)	17 (13%)	2 (2%)	7 36
3	Ak	129/131 (98%)	109 (84%)	20 (16%)	0	100 100
3	Al	129/131 (98%)	113 (88%)	14 (11%)	2 (2%)	7 36

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	Am	129/131 (98%)	105 (81%)	22 (17%)	2 (2%)	7 36
3	An	129/131 (98%)	112 (87%)	16 (12%)	1 (1%)	16 49
3	Ao	129/131 (98%)	107 (83%)	21 (16%)	1 (1%)	16 49
3	Ap	129/131 (98%)	110 (85%)	18 (14%)	1 (1%)	16 49
3	Aq	129/131 (98%)	118 (92%)	11 (8%)	0	100 100
3	Ar	129/131 (98%)	112 (87%)	17 (13%)	0	100 100
3	As	129/131 (98%)	110 (85%)	17 (13%)	2 (2%)	7 36
3	At	129/131 (98%)	110 (85%)	16 (12%)	3 (2%)	5 30
3	Au	129/131 (98%)	107 (83%)	19 (15%)	3 (2%)	5 30
3	Av	129/131 (98%)	100 (78%)	27 (21%)	2 (2%)	7 36
3	Aw	129/131 (98%)	108 (84%)	20 (16%)	1 (1%)	16 49
3	Ax	129/131 (98%)	109 (84%)	18 (14%)	2 (2%)	7 36
3	Ay	129/131 (98%)	111 (86%)	16 (12%)	2 (2%)	7 36
3	Az	129/131 (98%)	111 (86%)	16 (12%)	2 (2%)	7 36
3	B	129/131 (98%)	106 (82%)	21 (16%)	2 (2%)	7 36
3	B0	129/131 (98%)	110 (85%)	19 (15%)	0	100 100
3	B1	129/131 (98%)	110 (85%)	16 (12%)	3 (2%)	5 30
3	B2	129/131 (98%)	111 (86%)	16 (12%)	2 (2%)	7 36
3	B3	129/131 (98%)	115 (89%)	12 (9%)	2 (2%)	7 36
3	B4	129/131 (98%)	104 (81%)	22 (17%)	3 (2%)	5 30
3	B5	129/131 (98%)	111 (86%)	15 (12%)	3 (2%)	5 30
3	B6	129/131 (98%)	107 (83%)	21 (16%)	1 (1%)	16 49
3	B7	129/131 (98%)	111 (86%)	16 (12%)	2 (2%)	7 36
3	B8	129/131 (98%)	109 (84%)	19 (15%)	1 (1%)	16 49
3	B9	129/131 (98%)	104 (81%)	22 (17%)	3 (2%)	5 30
3	BA	130/131 (99%)	106 (82%)	22 (17%)	2 (2%)	8 37
3	BB	129/131 (98%)	111 (86%)	16 (12%)	2 (2%)	7 36
3	BC	129/131 (98%)	114 (88%)	14 (11%)	1 (1%)	16 49
3	BD	129/131 (98%)	115 (89%)	12 (9%)	2 (2%)	7 36
3	BE	129/131 (98%)	110 (85%)	17 (13%)	2 (2%)	7 36
3	BF	129/131 (98%)	108 (84%)	19 (15%)	2 (2%)	7 36

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	BG	129/131 (98%)	115 (89%)	13 (10%)	1 (1%)	16 49
3	BH	129/131 (98%)	117 (91%)	10 (8%)	2 (2%)	7 36
3	BI	129/131 (98%)	113 (88%)	16 (12%)	0	100 100
3	BJ	129/131 (98%)	109 (84%)	19 (15%)	1 (1%)	16 49
3	BK	129/131 (98%)	108 (84%)	18 (14%)	3 (2%)	5 30
3	BL	129/131 (98%)	104 (81%)	23 (18%)	2 (2%)	7 36
3	BM	129/131 (98%)	105 (81%)	22 (17%)	2 (2%)	7 36
3	BN	129/131 (98%)	109 (84%)	19 (15%)	1 (1%)	16 49
3	BO	129/131 (98%)	110 (85%)	17 (13%)	2 (2%)	7 36
3	BP	129/131 (98%)	111 (86%)	17 (13%)	1 (1%)	16 49
3	BQ	129/131 (98%)	114 (88%)	14 (11%)	1 (1%)	16 49
3	BR	129/131 (98%)	111 (86%)	16 (12%)	2 (2%)	7 36
3	BS	129/131 (98%)	107 (83%)	20 (16%)	2 (2%)	7 36
3	BV	129/131 (98%)	110 (85%)	18 (14%)	1 (1%)	16 49
3	BY	129/131 (98%)	111 (86%)	17 (13%)	1 (1%)	16 49
3	BZ	129/131 (98%)	116 (90%)	13 (10%)	0	100 100
3	Bb	129/131 (98%)	112 (87%)	17 (13%)	0	100 100
3	Bc	129/131 (98%)	109 (84%)	18 (14%)	2 (2%)	7 36
3	Bd	129/131 (98%)	111 (86%)	17 (13%)	1 (1%)	16 49
3	Bg	129/131 (98%)	108 (84%)	21 (16%)	0	100 100
3	Bh	129/131 (98%)	110 (85%)	18 (14%)	1 (1%)	16 49
3	Bi	129/131 (98%)	108 (84%)	19 (15%)	2 (2%)	7 36
3	Bj	129/131 (98%)	109 (84%)	19 (15%)	1 (1%)	16 49
3	Bk	129/131 (98%)	109 (84%)	19 (15%)	1 (1%)	16 49
3	Bl	129/131 (98%)	108 (84%)	20 (16%)	1 (1%)	16 49
3	Bm	129/131 (98%)	112 (87%)	14 (11%)	3 (2%)	5 30
3	Bn	129/131 (98%)	103 (80%)	24 (19%)	2 (2%)	7 36
3	Bu	129/131 (98%)	107 (83%)	19 (15%)	3 (2%)	5 30
3	Bv	129/131 (98%)	109 (84%)	17 (13%)	3 (2%)	5 30
3	Bw	129/131 (98%)	114 (88%)	12 (9%)	3 (2%)	5 30
3	Bx	129/131 (98%)	108 (84%)	18 (14%)	3 (2%)	5 30

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	By	129/131 (98%)	112 (87%)	15 (12%)	2 (2%)	7 36
3	Bz	129/131 (98%)	112 (87%)	15 (12%)	2 (2%)	7 36
3	C	129/131 (98%)	113 (88%)	16 (12%)	0	100 100
3	CA	129/131 (98%)	114 (88%)	14 (11%)	1 (1%)	16 49
3	CB	129/131 (98%)	110 (85%)	16 (12%)	3 (2%)	5 30
3	CC	129/131 (98%)	106 (82%)	20 (16%)	3 (2%)	5 30
3	CD	129/131 (98%)	109 (84%)	19 (15%)	1 (1%)	16 49
3	CH	129/131 (98%)	106 (82%)	18 (14%)	5 (4%)	2 20
3	CI	129/131 (98%)	117 (91%)	10 (8%)	2 (2%)	7 36
3	CK	129/131 (98%)	107 (83%)	20 (16%)	2 (2%)	7 36
3	CL	129/131 (98%)	102 (79%)	27 (21%)	0	100 100
3	CM	129/131 (98%)	113 (88%)	15 (12%)	1 (1%)	16 49
3	CN	129/131 (98%)	110 (85%)	18 (14%)	1 (1%)	16 49
3	CO	129/131 (98%)	107 (83%)	19 (15%)	3 (2%)	5 30
3	CP	129/131 (98%)	108 (84%)	19 (15%)	2 (2%)	7 36
3	CQ	129/131 (98%)	110 (85%)	17 (13%)	2 (2%)	7 36
3	CR	129/131 (98%)	113 (88%)	15 (12%)	1 (1%)	16 49
3	CS	129/131 (98%)	117 (91%)	12 (9%)	0	100 100
3	CT	129/131 (98%)	106 (82%)	21 (16%)	2 (2%)	7 36
3	D	129/131 (98%)	110 (85%)	18 (14%)	1 (1%)	16 49
3	E	129/131 (98%)	108 (84%)	18 (14%)	3 (2%)	5 30
3	G	129/131 (98%)	113 (88%)	16 (12%)	0	100 100
3	H	129/131 (98%)	112 (87%)	16 (12%)	1 (1%)	16 49
3	I	129/131 (98%)	106 (82%)	21 (16%)	2 (2%)	7 36
3	J	129/131 (98%)	110 (85%)	16 (12%)	3 (2%)	5 30
3	K	129/131 (98%)	109 (84%)	20 (16%)	0	100 100
3	L	129/131 (98%)	109 (84%)	20 (16%)	0	100 100
3	M	129/131 (98%)	106 (82%)	19 (15%)	4 (3%)	3 25
3	N	129/131 (98%)	106 (82%)	22 (17%)	1 (1%)	16 49
3	O	129/131 (98%)	106 (82%)	18 (14%)	5 (4%)	2 20
3	P	129/131 (98%)	110 (85%)	17 (13%)	2 (2%)	7 36

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	Q	129/131 (98%)	110 (85%)	17 (13%)	2 (2%)	7 36
3	R	129/131 (98%)	111 (86%)	17 (13%)	1 (1%)	16 49
3	S	129/131 (98%)	109 (84%)	18 (14%)	2 (2%)	7 36
3	T	129/131 (98%)	107 (83%)	21 (16%)	1 (1%)	16 49
3	U	129/131 (98%)	114 (88%)	15 (12%)	0	100 100
3	V	129/131 (98%)	110 (85%)	19 (15%)	0	100 100
3	W	129/131 (98%)	108 (84%)	20 (16%)	1 (1%)	16 49
3	X	129/131 (98%)	113 (88%)	15 (12%)	1 (1%)	16 49
3	Y	129/131 (98%)	109 (84%)	19 (15%)	1 (1%)	16 49
3	Z	129/131 (98%)	111 (86%)	17 (13%)	1 (1%)	16 49
3	a	129/131 (98%)	107 (83%)	21 (16%)	1 (1%)	16 49
3	b	129/131 (98%)	104 (81%)	20 (16%)	5 (4%)	2 20
3	c	129/131 (98%)	111 (86%)	18 (14%)	0	100 100
3	d	129/131 (98%)	114 (88%)	15 (12%)	0	100 100
3	e	129/131 (98%)	107 (83%)	20 (16%)	2 (2%)	7 36
3	f	129/131 (98%)	112 (87%)	15 (12%)	2 (2%)	7 36
3	g	129/131 (98%)	114 (88%)	14 (11%)	1 (1%)	16 49
3	h	129/131 (98%)	109 (84%)	19 (15%)	1 (1%)	16 49
3	i	129/131 (98%)	113 (88%)	12 (9%)	4 (3%)	3 25
3	j	129/131 (98%)	105 (81%)	23 (18%)	1 (1%)	16 49
3	k	129/131 (98%)	113 (88%)	15 (12%)	1 (1%)	16 49
3	l	129/131 (98%)	111 (86%)	17 (13%)	1 (1%)	16 49
3	m	129/131 (98%)	106 (82%)	21 (16%)	2 (2%)	7 36
3	n	129/131 (98%)	111 (86%)	17 (13%)	1 (1%)	16 49
3	o	129/131 (98%)	105 (81%)	24 (19%)	0	100 100
3	p	129/131 (98%)	109 (84%)	20 (16%)	0	100 100
3	q	129/131 (98%)	101 (78%)	26 (20%)	2 (2%)	7 36
3	r	129/131 (98%)	110 (85%)	18 (14%)	1 (1%)	16 49
3	s	129/131 (98%)	112 (87%)	17 (13%)	0	100 100
3	t	129/131 (98%)	112 (87%)	17 (13%)	0	100 100
3	u	129/131 (98%)	110 (85%)	18 (14%)	1 (1%)	16 49

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	v	129/131 (98%)	112 (87%)	16 (12%)	1 (1%)	16 49
3	w	129/131 (98%)	112 (87%)	16 (12%)	1 (1%)	16 49
3	x	129/131 (98%)	114 (88%)	15 (12%)	0	100 100
3	y	129/131 (98%)	111 (86%)	16 (12%)	2 (2%)	7 36
3	z	129/131 (98%)	108 (84%)	20 (16%)	1 (1%)	16 49
All	All	23367/23724 (98%)	19879 (85%)	3212 (14%)	276 (1%)	13 41

All (276) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	1	13	ALA
3	O	96	ARG
3	Y	13	ALA
3	Z	13	ALA
3	b	15	PRO
3	b	37	GLY
3	h	13	ALA
3	i	13	ALA
3	l	13	ALA
3	w	13	ALA
3	J	40	ILE
3	AO	114	LYS
3	Ab	13	ALA
3	Al	13	ALA
3	At	40	ILE
3	Av	40	ILE
3	Az	13	ALA
3	BD	13	ALA
3	BO	13	ALA
3	BR	13	ALA
3	Bj	37	GLY
3	Bv	40	ILE
3	B9	93	TYR
3	CB	40	ILE
3	0	113	LEU
3	4	114	LYS
3	E	35	SER
3	O	55	GLY
3	T	36	THR
3	X	37	GLY

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Mol	Chain	Res	Type
3	b	10	ASP
3	b	54	ASN
3	j	40	ILE
3	m	13	ALA
3	n	36	THR
3	M	35	SER
3	M	41	GLY
3	N	37	GLY
3	AA	13	ALA
3	AB	36	THR
3	AP	54	ASN
3	AY	41	GLY
3	Ac	41	GLY
3	Ae	13	ALA
3	Ae	41	GLY
3	Af	54	ASN
3	Ai	13	ALA
3	Aj	37	GLY
3	At	36	THR
3	Aw	13	ALA
3	Ax	113	LEU
3	A2	36	THR
3	A2	51	LYS
3	A2	54	ASN
3	A4	36	THR
3	A5	13	ALA
3	A5	113	LEU
3	A0	36	THR
3	BC	113	LEU
3	BF	36	THR
3	BL	36	THR
3	BL	115	ALA
3	Bh	10	ASP
3	Bl	115	ALA
3	Bu	8	LEU
3	Bx	40	ILE
3	Bx	115	ALA
3	B1	41	GLY
3	B3	13	ALA
3	B4	54	ASN
3	CB	115	ALA
3	CC	13	ALA

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Mol	Chain	Res	Type
3	CD	36	THR
3	CH	36	THR
3	CH	54	ASN
3	CH	115	ALA
3	CP	36	THR
3	CR	36	THR
1	F	325	GLY
3	4	115	ALA
3	7	41	GLY
3	E	13	ALA
3	O	13	ALA
3	O	41	GLY
3	R	10	ASP
3	S	41	GLY
3	W	41	GLY
3	e	41	GLY
3	q	41	GLY
3	v	36	THR
3	z	36	THR
3	AO	41	GLY
3	AT	36	THR
3	AV	36	THR
3	AW	13	ALA
3	AY	36	THR
3	Ah	40	ILE
3	Ap	40	ILE
3	As	41	GLY
3	Au	41	GLY
3	Az	37	GLY
3	A1	41	GLY
3	A8	37	GLY
3	A9	41	GLY
3	BA	41	GLY
3	BB	37	GLY
3	BJ	16	ASN
3	BM	41	GLY
3	Bm	13	ALA
3	Bn	37	GLY
3	Bz	13	ALA
3	B4	13	ALA
3	B4	36	THR
3	CC	41	GLY

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Mol	Chain	Res	Type
3	CO	13	ALA
3	CO	41	GLY
3	CQ	36	THR
3	CT	54	ASN
3	A	36	THR
3	Q	41	GLY
3	e	127	LEU
3	f	36	THR
3	i	127	LEU
3	y	127	LEU
3	I	41	GLY
3	I	127	LEU
3	M	127	LEU
3	AA	41	GLY
3	AP	40	ILE
3	AS	127	LEU
3	AX	125	VAL
3	Ad	127	LEU
3	Au	36	THR
3	Ax	13	ALA
3	A7	41	GLY
3	A8	36	THR
3	A9	36	THR
3	BK	36	THR
3	BK	127	LEU
3	BP	92	ASP
3	Bc	116	ASP
3	Bu	13	ALA
3	Bv	115	ALA
3	B1	127	LEU
3	B5	41	GLY
3	B7	36	THR
3	B9	127	LEU
3	CC	124	ILE
3	CT	92	ASP
3	7	13	ALA
3	B	37	GLY
3	D	13	ALA
3	Am	41	GLY
3	As	36	THR
3	A5	40	ILE
3	BM	55	GLY

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Mol	Chain	Res	Type
3	BO	125	VAL
3	BS	41	GLY
3	Bk	41	GLY
3	Bm	41	GLY
3	B3	41	GLY
3	B8	37	GLY
3	CA	41	GLY
3	CB	37	GLY
3	CI	55	GLY
3	CK	36	THR
3	P	37	GLY
3	g	125	VAL
3	AD	125	VAL
3	Af	39	PRO
3	Av	37	GLY
3	A2	37	GLY
3	A6	40	ILE
3	BH	120	VAL
3	Bi	41	GLY
3	Bn	39	PRO
3	Bu	41	GLY
3	By	41	GLY
3	B2	39	PRO
3	B5	15	PRO
3	3	39	PRO
3	7	39	PRO
3	A	39	PRO
3	B	39	PRO
3	E	39	PRO
3	Q	39	PRO
3	S	39	PRO
3	a	39	PRO
3	f	39	PRO
3	i	39	PRO
3	m	39	PRO
3	q	39	PRO
3	r	37	GLY
3	u	39	PRO
3	y	39	PRO
3	J	39	PRO
3	M	39	PRO
3	AS	41	GLY

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Mol	Chain	Res	Type
3	AU	39	PRO
3	AZ	39	PRO
3	Ab	125	VAL
3	Ac	39	PRO
3	Ad	37	GLY
3	Ad	39	PRO
3	Ai	40	ILE
3	Aj	39	PRO
3	Ao	39	PRO
3	At	37	GLY
3	Au	39	PRO
3	Ay	15	PRO
3	Ay	39	PRO
3	A1	39	PRO
3	A3	39	PRO
3	A9	39	PRO
3	BB	39	PRO
3	BE	39	PRO
3	BK	39	PRO
3	BN	37	GLY
3	BQ	39	PRO
3	BR	39	PRO
3	BS	39	PRO
3	BY	125	VAL
3	Bc	40	ILE
3	Bd	40	ILE
3	Bm	39	PRO
3	Bw	39	PRO
3	Bz	37	GLY
3	B1	39	PRO
3	B5	39	PRO
3	B6	39	PRO
3	B7	39	PRO
3	B9	39	PRO
3	CI	39	PRO
3	CK	39	PRO
3	CP	39	PRO
3	CQ	39	PRO
1	F	238	GLY
3	O	39	PRO
3	i	41	GLY
3	AB	55	GLY

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Mol	Chain	Res	Type
3	AP	37	GLY
3	Am	15	PRO
3	BA	15	PRO
3	BF	55	GLY
3	BH	37	GLY
3	Bw	15	PRO
3	Bw	41	GLY
3	By	39	PRO
3	CH	37	GLY
3	CM	39	PRO
3	CN	39	PRO
3	P	55	GLY
3	k	55	GLY
3	J	37	GLY
3	AT	37	GLY
3	AU	15	PRO
3	AV	55	GLY
3	AY	39	PRO
3	AZ	15	PRO
3	Ae	39	PRO
3	Al	40	ILE
3	BD	40	ILE
3	BE	15	PRO
3	BG	39	PRO
3	BV	55	GLY
3	Bi	39	PRO
3	Bv	37	GLY
3	Bx	37	GLY
3	4	37	GLY
3	b	55	GLY
3	H	40	ILE
3	Ai	39	PRO
3	An	37	GLY
3	B2	37	GLY
3	CH	55	GLY
3	CO	39	PRO

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	
1	F	354/354 (100%)	354 (100%)	0	100	100
3	0	118/118 (100%)	118 (100%)	0	100	100
3	1	118/118 (100%)	118 (100%)	0	100	100
3	2	118/118 (100%)	118 (100%)	0	100	100
3	3	118/118 (100%)	118 (100%)	0	100	100
3	4	118/118 (100%)	118 (100%)	0	100	100
3	5	118/118 (100%)	118 (100%)	0	100	100
3	6	118/118 (100%)	118 (100%)	0	100	100
3	7	118/118 (100%)	118 (100%)	0	100	100
3	8	118/118 (100%)	118 (100%)	0	100	100
3	9	118/118 (100%)	118 (100%)	0	100	100
3	A	118/118 (100%)	117 (99%)	1 (1%)	73	77
3	A0	118/118 (100%)	118 (100%)	0	100	100
3	A1	118/118 (100%)	118 (100%)	0	100	100
3	A2	118/118 (100%)	118 (100%)	0	100	100
3	A3	118/118 (100%)	117 (99%)	1 (1%)	73	77
3	A4	118/118 (100%)	117 (99%)	1 (1%)	73	77
3	A5	118/118 (100%)	118 (100%)	0	100	100
3	A6	118/118 (100%)	118 (100%)	0	100	100
3	A7	118/118 (100%)	118 (100%)	0	100	100
3	A8	118/118 (100%)	118 (100%)	0	100	100
3	A9	118/118 (100%)	118 (100%)	0	100	100
3	AA	118/118 (100%)	118 (100%)	0	100	100
3	AB	118/118 (100%)	118 (100%)	0	100	100
3	AC	118/118 (100%)	118 (100%)	0	100	100
3	AD	118/118 (100%)	118 (100%)	0	100	100
3	AO	118/118 (100%)	118 (100%)	0	100	100
3	AP	118/118 (100%)	118 (100%)	0	100	100
3	AQ	118/118 (100%)	118 (100%)	0	100	100
3	AR	118/118 (100%)	118 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	AS	118/118 (100%)	118 (100%)	0	100	100
3	AT	118/118 (100%)	118 (100%)	0	100	100
3	AU	118/118 (100%)	118 (100%)	0	100	100
3	AV	118/118 (100%)	118 (100%)	0	100	100
3	AW	118/118 (100%)	118 (100%)	0	100	100
3	AX	118/118 (100%)	118 (100%)	0	100	100
3	AY	118/118 (100%)	118 (100%)	0	100	100
3	AZ	118/118 (100%)	118 (100%)	0	100	100
3	Aa	118/118 (100%)	118 (100%)	0	100	100
3	Ab	118/118 (100%)	118 (100%)	0	100	100
3	Ac	118/118 (100%)	118 (100%)	0	100	100
3	Ad	118/118 (100%)	118 (100%)	0	100	100
3	Ae	118/118 (100%)	118 (100%)	0	100	100
3	Af	118/118 (100%)	118 (100%)	0	100	100
3	Ag	118/118 (100%)	118 (100%)	0	100	100
3	Ah	118/118 (100%)	118 (100%)	0	100	100
3	Ai	118/118 (100%)	118 (100%)	0	100	100
3	Aj	118/118 (100%)	118 (100%)	0	100	100
3	Ak	118/118 (100%)	118 (100%)	0	100	100
3	Al	118/118 (100%)	118 (100%)	0	100	100
3	Am	118/118 (100%)	118 (100%)	0	100	100
3	An	118/118 (100%)	118 (100%)	0	100	100
3	Ao	118/118 (100%)	118 (100%)	0	100	100
3	Ap	118/118 (100%)	118 (100%)	0	100	100
3	Aq	118/118 (100%)	118 (100%)	0	100	100
3	Ar	118/118 (100%)	118 (100%)	0	100	100
3	As	118/118 (100%)	118 (100%)	0	100	100
3	At	118/118 (100%)	118 (100%)	0	100	100
3	Au	118/118 (100%)	118 (100%)	0	100	100
3	Av	118/118 (100%)	118 (100%)	0	100	100
3	Aw	118/118 (100%)	118 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	Ax	118/118 (100%)	118 (100%)	0	100	100
3	Ay	118/118 (100%)	118 (100%)	0	100	100
3	Az	118/118 (100%)	118 (100%)	0	100	100
3	B	118/118 (100%)	118 (100%)	0	100	100
3	B0	118/118 (100%)	118 (100%)	0	100	100
3	B1	118/118 (100%)	118 (100%)	0	100	100
3	B2	118/118 (100%)	118 (100%)	0	100	100
3	B3	118/118 (100%)	118 (100%)	0	100	100
3	B4	118/118 (100%)	118 (100%)	0	100	100
3	B5	118/118 (100%)	118 (100%)	0	100	100
3	B6	118/118 (100%)	118 (100%)	0	100	100
3	B7	118/118 (100%)	117 (99%)	1 (1%)	73	77
3	B8	118/118 (100%)	118 (100%)	0	100	100
3	B9	118/118 (100%)	118 (100%)	0	100	100
3	BA	119/118 (101%)	119 (100%)	0	100	100
3	BB	118/118 (100%)	118 (100%)	0	100	100
3	BC	118/118 (100%)	118 (100%)	0	100	100
3	BD	118/118 (100%)	118 (100%)	0	100	100
3	BE	118/118 (100%)	118 (100%)	0	100	100
3	BF	118/118 (100%)	118 (100%)	0	100	100
3	BG	118/118 (100%)	118 (100%)	0	100	100
3	BH	118/118 (100%)	117 (99%)	1 (1%)	73	77
3	BI	118/118 (100%)	118 (100%)	0	100	100
3	BJ	118/118 (100%)	118 (100%)	0	100	100
3	BK	118/118 (100%)	118 (100%)	0	100	100
3	BL	118/118 (100%)	118 (100%)	0	100	100
3	BM	118/118 (100%)	118 (100%)	0	100	100
3	BN	118/118 (100%)	118 (100%)	0	100	100
3	BO	118/118 (100%)	118 (100%)	0	100	100
3	BP	118/118 (100%)	118 (100%)	0	100	100
3	BQ	118/118 (100%)	118 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	BR	118/118 (100%)	118 (100%)	0	100	100
3	BS	118/118 (100%)	118 (100%)	0	100	100
3	BV	118/118 (100%)	118 (100%)	0	100	100
3	BY	118/118 (100%)	118 (100%)	0	100	100
3	BZ	118/118 (100%)	118 (100%)	0	100	100
3	Bb	118/118 (100%)	118 (100%)	0	100	100
3	Bc	118/118 (100%)	118 (100%)	0	100	100
3	Bd	118/118 (100%)	118 (100%)	0	100	100
3	Bg	118/118 (100%)	118 (100%)	0	100	100
3	Bh	118/118 (100%)	118 (100%)	0	100	100
3	Bi	118/118 (100%)	118 (100%)	0	100	100
3	Bj	118/118 (100%)	118 (100%)	0	100	100
3	Bk	118/118 (100%)	118 (100%)	0	100	100
3	Bl	118/118 (100%)	118 (100%)	0	100	100
3	Bm	118/118 (100%)	118 (100%)	0	100	100
3	Bn	118/118 (100%)	118 (100%)	0	100	100
3	Bu	118/118 (100%)	118 (100%)	0	100	100
3	Bv	118/118 (100%)	118 (100%)	0	100	100
3	Bw	118/118 (100%)	118 (100%)	0	100	100
3	Bx	118/118 (100%)	118 (100%)	0	100	100
3	By	118/118 (100%)	118 (100%)	0	100	100
3	Bz	118/118 (100%)	117 (99%)	1 (1%)	73	77
3	C	118/118 (100%)	118 (100%)	0	100	100
3	CA	118/118 (100%)	118 (100%)	0	100	100
3	CB	118/118 (100%)	118 (100%)	0	100	100
3	CC	118/118 (100%)	118 (100%)	0	100	100
3	CD	118/118 (100%)	118 (100%)	0	100	100
3	CH	118/118 (100%)	118 (100%)	0	100	100
3	CI	118/118 (100%)	118 (100%)	0	100	100
3	CK	118/118 (100%)	118 (100%)	0	100	100
3	CL	118/118 (100%)	117 (99%)	1 (1%)	73	77

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	CM	118/118 (100%)	118 (100%)	0	100	100
3	CN	118/118 (100%)	118 (100%)	0	100	100
3	CO	118/118 (100%)	118 (100%)	0	100	100
3	CP	118/118 (100%)	118 (100%)	0	100	100
3	CQ	118/118 (100%)	118 (100%)	0	100	100
3	CR	118/118 (100%)	118 (100%)	0	100	100
3	CS	118/118 (100%)	118 (100%)	0	100	100
3	CT	118/118 (100%)	118 (100%)	0	100	100
3	D	118/118 (100%)	118 (100%)	0	100	100
3	E	118/118 (100%)	118 (100%)	0	100	100
3	G	118/118 (100%)	118 (100%)	0	100	100
3	H	118/118 (100%)	118 (100%)	0	100	100
3	I	118/118 (100%)	118 (100%)	0	100	100
3	J	118/118 (100%)	116 (98%)	2 (2%)	53	70
3	K	118/118 (100%)	118 (100%)	0	100	100
3	L	118/118 (100%)	118 (100%)	0	100	100
3	M	118/118 (100%)	118 (100%)	0	100	100
3	N	118/118 (100%)	118 (100%)	0	100	100
3	O	118/118 (100%)	118 (100%)	0	100	100
3	P	118/118 (100%)	118 (100%)	0	100	100
3	Q	118/118 (100%)	118 (100%)	0	100	100
3	R	118/118 (100%)	118 (100%)	0	100	100
3	S	118/118 (100%)	118 (100%)	0	100	100
3	T	118/118 (100%)	118 (100%)	0	100	100
3	U	118/118 (100%)	118 (100%)	0	100	100
3	V	118/118 (100%)	118 (100%)	0	100	100
3	W	118/118 (100%)	118 (100%)	0	100	100
3	X	118/118 (100%)	118 (100%)	0	100	100
3	Y	118/118 (100%)	118 (100%)	0	100	100
3	Z	118/118 (100%)	118 (100%)	0	100	100
3	a	118/118 (100%)	118 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	b	118/118 (100%)	118 (100%)	0	100	100
3	c	118/118 (100%)	118 (100%)	0	100	100
3	d	118/118 (100%)	118 (100%)	0	100	100
3	e	118/118 (100%)	118 (100%)	0	100	100
3	f	118/118 (100%)	118 (100%)	0	100	100
3	g	118/118 (100%)	118 (100%)	0	100	100
3	h	118/118 (100%)	118 (100%)	0	100	100
3	i	118/118 (100%)	118 (100%)	0	100	100
3	j	118/118 (100%)	118 (100%)	0	100	100
3	k	118/118 (100%)	118 (100%)	0	100	100
3	l	118/118 (100%)	118 (100%)	0	100	100
3	m	118/118 (100%)	118 (100%)	0	100	100
3	n	118/118 (100%)	118 (100%)	0	100	100
3	o	118/118 (100%)	118 (100%)	0	100	100
3	p	118/118 (100%)	118 (100%)	0	100	100
3	q	118/118 (100%)	118 (100%)	0	100	100
3	r	118/118 (100%)	118 (100%)	0	100	100
3	s	118/118 (100%)	118 (100%)	0	100	100
3	t	118/118 (100%)	118 (100%)	0	100	100
3	u	118/118 (100%)	118 (100%)	0	100	100
3	v	118/118 (100%)	118 (100%)	0	100	100
3	w	118/118 (100%)	118 (100%)	0	100	100
3	x	118/118 (100%)	118 (100%)	0	100	100
3	y	118/118 (100%)	118 (100%)	0	100	100
3	z	118/118 (100%)	118 (100%)	0	100	100
All	All	21359/21358 (100%)	21350 (100%)	9 (0%)	100	100

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	A	32	VAL
3	J	38	VAL
3	J	65	VAL

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Mol	Chain	Res	Type
3	A3	2	GLN
3	A4	40	ILE
3	BH	65	VAL
3	Bz	65	VAL
3	B7	40	ILE
3	CL	65	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (350) such sidechains are listed below:

Mol	Chain	Res	Type
1	F	233	ASN
1	F	239	ASN
3	0	121	HIS
3	0	126	ASN
3	1	4	GLN
3	1	5	ASN
3	1	121	HIS
3	2	2	GLN
3	2	104	ASN
3	3	126	ASN
3	4	69	GLN
3	4	71	GLN
3	4	74	ASN
3	5	5	ASN
3	6	4	GLN
3	6	121	HIS
3	7	2	GLN
3	7	5	ASN
3	7	28	ASN
3	8	69	GLN
3	8	74	ASN
3	8	121	HIS
3	A	5	ASN
3	B	54	ASN
3	B	74	ASN
3	B	121	HIS
3	D	69	GLN
3	E	2	GLN
3	O	18	HIS
3	O	69	GLN
3	P	2	GLN
3	P	69	GLN

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Mol	Chain	Res	Type
3	Q	121	HIS
3	R	2	GLN
3	R	69	GLN
3	R	74	ASN
3	R	121	HIS
3	S	69	GLN
3	S	104	ASN
3	S	121	HIS
3	T	16	ASN
3	T	69	GLN
3	T	71	GLN
3	U	71	GLN
3	U	121	HIS
3	V	2	GLN
3	V	69	GLN
3	W	2	GLN
3	W	121	HIS
3	X	2	GLN
3	X	69	GLN
3	X	121	HIS
3	Y	5	ASN
3	Z	121	HIS
3	a	2	GLN
3	a	69	GLN
3	b	28	ASN
3	c	5	ASN
3	d	4	GLN
3	e	2	GLN
3	f	2	GLN
3	f	69	GLN
3	f	74	ASN
3	g	69	GLN
3	g	71	GLN
3	g	104	ASN
3	h	104	ASN
3	i	2	GLN
3	i	69	GLN
3	i	121	HIS
3	j	69	GLN
3	j	74	ASN
3	j	104	ASN
3	j	121	HIS

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Mol	Chain	Res	Type
3	j	128	GLN
3	k	5	ASN
3	k	104	ASN
3	k	121	HIS
3	k	128	GLN
3	l	5	ASN
3	l	69	GLN
3	l	104	ASN
3	m	2	GLN
3	m	74	ASN
3	n	2	GLN
3	n	69	GLN
3	n	104	ASN
3	o	71	GLN
3	o	104	ASN
3	o	121	HIS
3	p	4	GLN
3	p	69	GLN
3	q	69	GLN
3	r	2	GLN
3	r	54	ASN
3	r	74	ASN
3	r	121	HIS
3	r	126	ASN
3	s	5	ASN
3	s	104	ASN
3	t	4	GLN
3	u	16	ASN
3	u	104	ASN
3	v	2	GLN
3	v	121	HIS
3	w	69	GLN
3	x	5	ASN
3	y	2	GLN
3	z	2	GLN
3	z	54	ASN
3	z	69	GLN
3	z	71	GLN
3	G	69	GLN
3	G	121	HIS
3	H	5	ASN
3	H	69	GLN

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Mol	Chain	Res	Type
3	H	104	ASN
3	I	2	GLN
3	J	74	ASN
3	K	5	ASN
3	K	71	GLN
3	L	2	GLN
3	L	69	GLN
3	L	104	ASN
3	N	69	GLN
3	AA	2	GLN
3	AA	104	ASN
3	AB	2	GLN
3	AB	74	ASN
3	AB	121	HIS
3	AD	71	GLN
3	AO	2	GLN
3	AP	69	GLN
3	AP	74	ASN
3	AP	126	ASN
3	AQ	5	ASN
3	AQ	69	GLN
3	AR	4	GLN
3	AR	28	ASN
3	AR	121	HIS
3	AR	128	GLN
3	AS	2	GLN
3	AS	104	ASN
3	AT	5	ASN
3	AT	69	GLN
3	AT	121	HIS
3	AU	2	GLN
3	AU	104	ASN
3	AU	121	HIS
3	AV	2	GLN
3	AV	74	ASN
3	AV	104	ASN
3	AW	28	ASN
3	AX	104	ASN
3	AY	5	ASN
3	AZ	28	ASN
3	AZ	69	GLN
3	AZ	71	GLN

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Mol	Chain	Res	Type
3	Aa	69	GLN
3	Ab	5	ASN
3	Ac	69	GLN
3	Ac	121	HIS
3	Ae	2	GLN
3	Ae	16	ASN
3	Ae	126	ASN
3	Af	28	ASN
3	Af	54	ASN
3	Af	69	GLN
3	Af	71	GLN
3	Ag	2	GLN
3	Ag	121	HIS
3	Ah	5	ASN
3	Aj	2	GLN
3	Aj	28	ASN
3	Aj	69	GLN
3	Aj	121	HIS
3	Ak	54	ASN
3	Ak	126	ASN
3	Al	4	GLN
3	Am	69	GLN
3	An	2	GLN
3	An	69	GLN
3	An	126	ASN
3	Ap	121	HIS
3	Aq	74	ASN
3	Ar	4	GLN
3	Ar	5	ASN
3	Ar	18	HIS
3	Ar	128	GLN
3	As	2	GLN
3	At	69	GLN
3	At	126	ASN
3	Au	69	GLN
3	Av	54	ASN
3	Av	69	GLN
3	Av	121	HIS
3	Av	128	GLN
3	Ax	2	GLN
3	Ax	69	GLN
3	Ay	69	GLN

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Mol	Chain	Res	Type
3	Ay	104	ASN
3	Az	2	GLN
3	Az	28	ASN
3	Az	74	ASN
3	A1	2	GLN
3	A2	54	ASN
3	A3	4	GLN
3	A4	121	HIS
3	A5	2	GLN
3	A5	4	GLN
3	A5	69	GLN
3	A6	5	ASN
3	A6	104	ASN
3	A6	121	HIS
3	A8	2	GLN
3	A8	121	HIS
3	A9	4	GLN
3	A9	16	ASN
3	A9	103	ASN
3	A0	69	GLN
3	A0	71	GLN
3	A0	121	HIS
3	BA	69	GLN
3	BB	2	GLN
3	BB	69	GLN
3	BF	2	GLN
3	BF	16	ASN
3	BF	104	ASN
3	BF	121	HIS
3	BF	128	GLN
3	BG	2	GLN
3	BG	69	GLN
3	BH	74	ASN
3	BH	128	GLN
3	BI	2	GLN
3	BI	16	ASN
3	BI	69	GLN
3	BJ	4	GLN
3	BK	2	GLN
3	BK	69	GLN
3	BL	2	GLN
3	BL	121	HIS

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Mol	Chain	Res	Type
3	BM	2	GLN
3	BO	69	GLN
3	BO	104	ASN
3	BP	2	GLN
3	BQ	2	GLN
3	BQ	126	ASN
3	BR	74	ASN
3	BR	104	ASN
3	BR	128	GLN
3	BS	2	GLN
3	BV	69	GLN
3	BV	74	ASN
3	BV	121	HIS
3	BZ	4	GLN
3	BZ	126	ASN
3	Bb	2	GLN
3	Bb	128	GLN
3	Bc	69	GLN
3	Bc	104	ASN
3	Bc	121	HIS
3	Bd	4	GLN
3	Bg	4	GLN
3	Bh	5	ASN
3	Bi	2	GLN
3	Bi	104	ASN
3	Bi	128	GLN
3	Bj	16	ASN
3	Bj	54	ASN
3	Bj	69	GLN
3	Bj	71	GLN
3	Bj	74	ASN
3	Bj	103	ASN
3	Bl	126	ASN
3	Bn	2	GLN
3	Bn	5	ASN
3	Bn	69	GLN
3	Bn	71	GLN
3	Bn	121	HIS
3	Bu	104	ASN
3	Bu	121	HIS
3	Bv	71	GLN
3	Bv	74	ASN

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Mol	Chain	Res	Type
3	Bv	128	GLN
3	Bw	16	ASN
3	Bw	69	GLN
3	Bw	104	ASN
3	Bx	2	GLN
3	Bx	74	ASN
3	By	2	GLN
3	Bz	69	GLN
3	Bz	74	ASN
3	Bz	128	GLN
3	B1	69	GLN
3	B1	104	ASN
3	B2	2	GLN
3	B2	71	GLN
3	B3	121	HIS
3	B3	126	ASN
3	B4	54	ASN
3	B4	121	HIS
3	B5	2	GLN
3	B5	121	HIS
3	B6	69	GLN
3	B6	74	ASN
3	B6	121	HIS
3	B7	69	GLN
3	B8	28	ASN
3	B8	74	ASN
3	B0	69	GLN
3	B0	74	ASN
3	CA	2	GLN
3	CA	74	ASN
3	CB	2	GLN
3	CB	71	GLN
3	CC	2	GLN
3	CD	28	ASN
3	CD	104	ASN
3	CD	128	GLN
3	CH	69	GLN
3	CH	74	ASN
3	CH	103	ASN
3	CH	128	GLN
3	CI	71	GLN
3	CI	126	ASN

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Mol	Chain	Res	Type
3	CK	2	GLN
3	CK	104	ASN
3	CL	74	ASN
3	CL	126	ASN
3	CM	69	GLN
3	CM	71	GLN
3	CM	104	ASN
3	CN	69	GLN
3	CN	71	GLN
3	CN	74	ASN
3	CN	121	HIS
3	CN	128	GLN
3	CO	74	ASN
3	CO	104	ASN
3	CO	121	HIS
3	CP	69	GLN
3	CP	74	ASN
3	CQ	104	ASN
3	CR	74	ASN
3	CR	121	HIS
3	CS	2	GLN
3	CT	4	GLN
3	CT	28	ASN
3	CT	128	GLN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	AE	131/132 (99%)	18 (13%)	1 (0%)

All (18) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
2	AE	558	C
2	AE	561	A
2	AE	563	A
2	AE	570	U
2	AE	583	C
2	AE	594	A
2	AE	603	U
2	AE	607	U

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Mol	Chain	Res	Type
2	AE	610	C
2	AE	623	C
2	AE	624	G
2	AE	625	G
2	AE	627	U
2	AE	628	A
2	AE	630	A
2	AE	631	A
2	AE	635	G
2	AE	655	C

All (1) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
2	AE	609	A

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

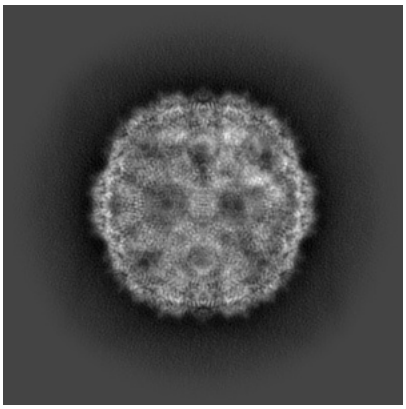
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-75020. These allow visual inspection of the internal detail of the map and identification of artifacts.

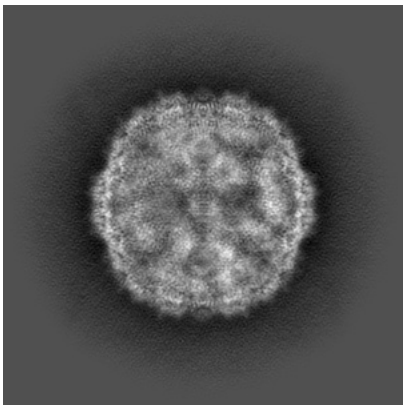
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

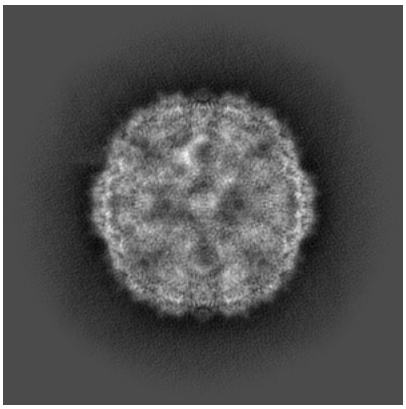
6.1.1 Primary map



X

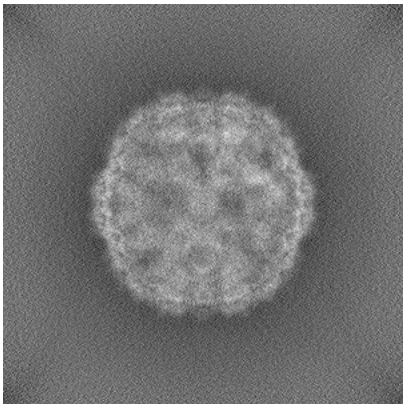


Y

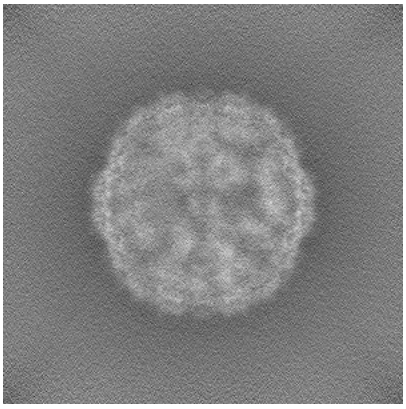


Z

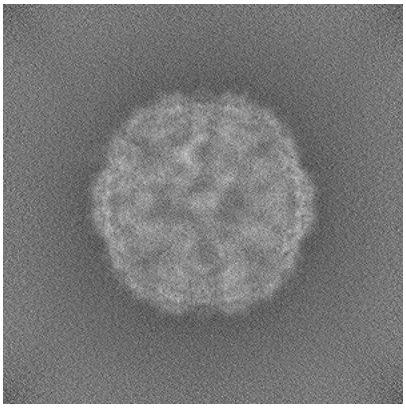
6.1.2 Raw map



X



Y

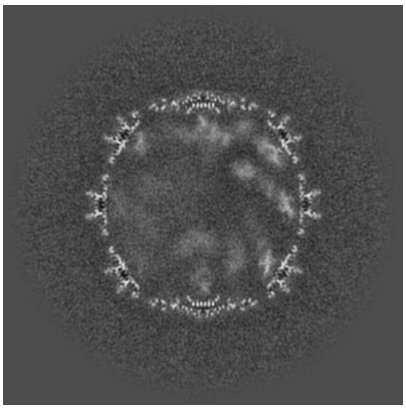


Z

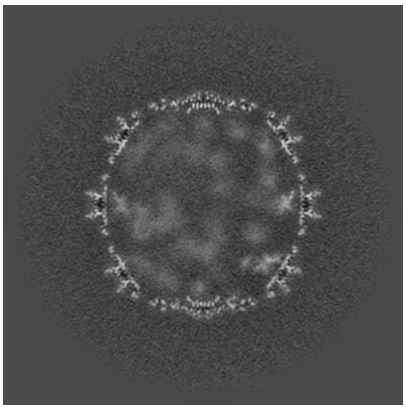
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

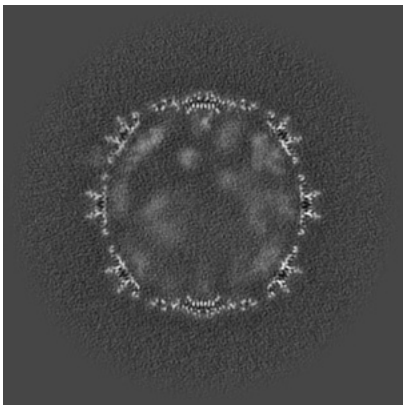
6.2.1 Primary map



X Index: 300

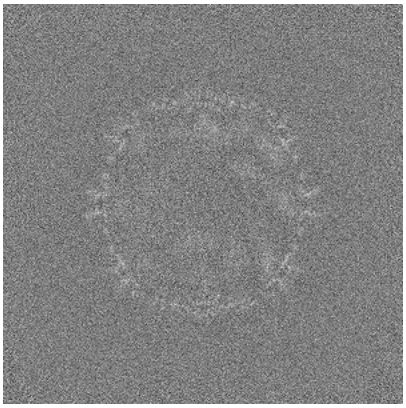


Y Index: 300

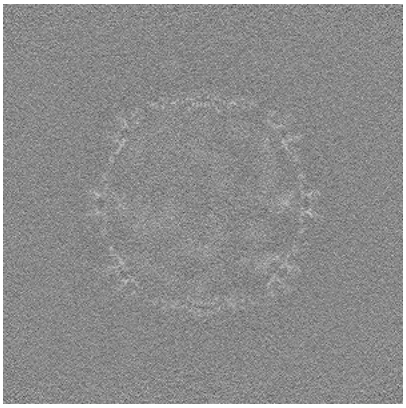


Z Index: 300

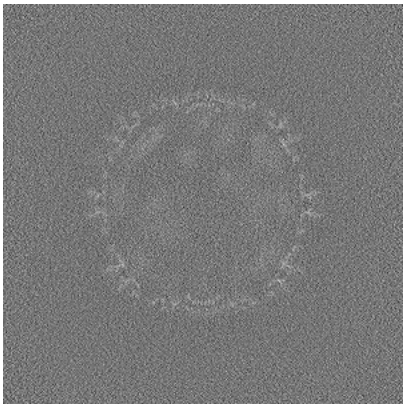
6.2.2 Raw map



X Index: 300



Y Index: 300

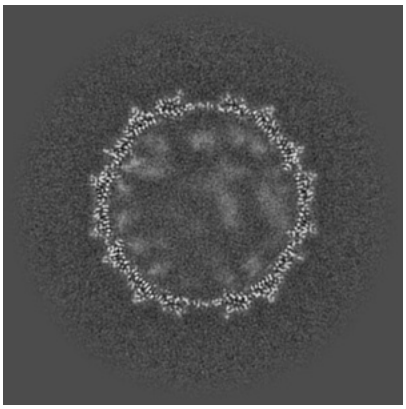


Z Index: 300

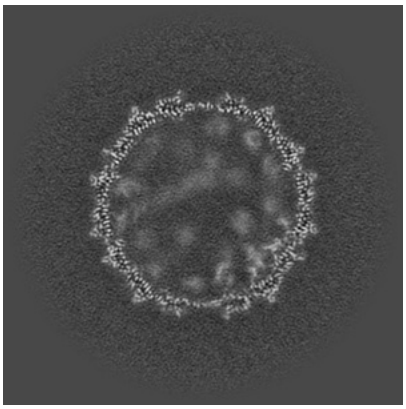
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

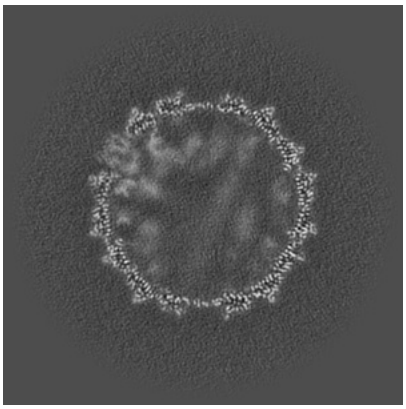
6.3.1 Primary map



X Index: 338

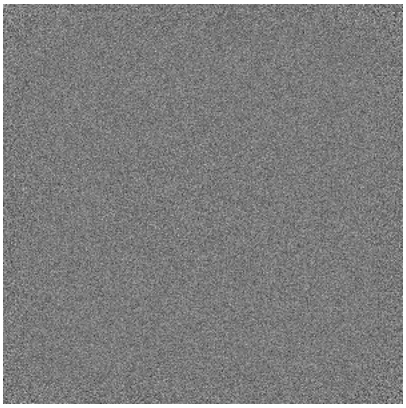


Y Index: 338

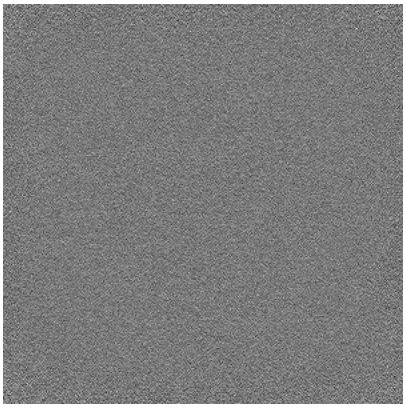


Z Index: 338

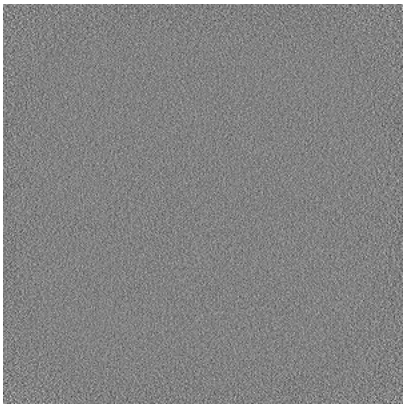
6.3.2 Raw map



X Index: 0



Y Index: 0

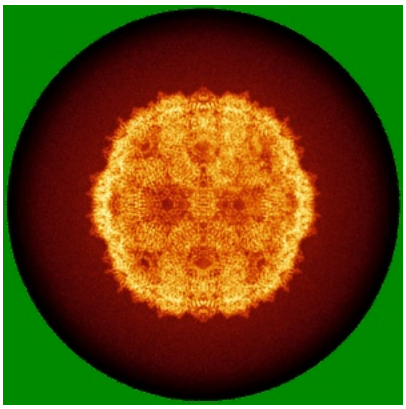


Z Index: 0

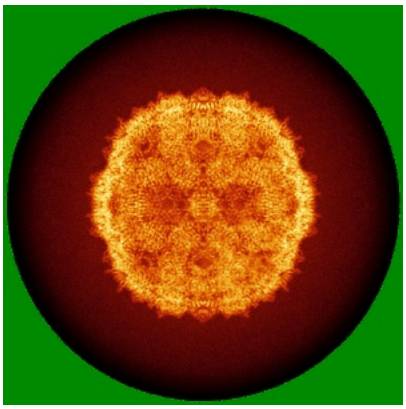
The images above show the largest variance slices of the map in three orthogonal directions.

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

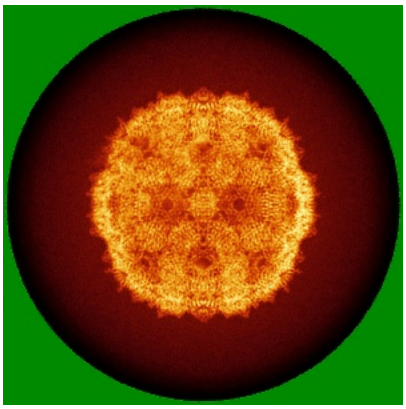
6.4.1 Primary map



X

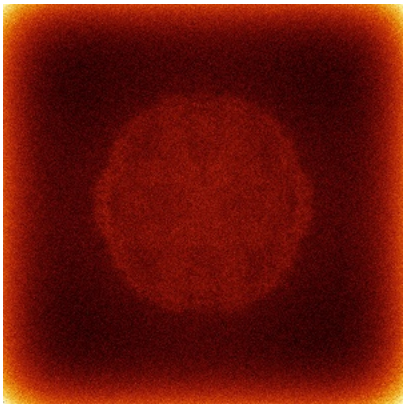


Y

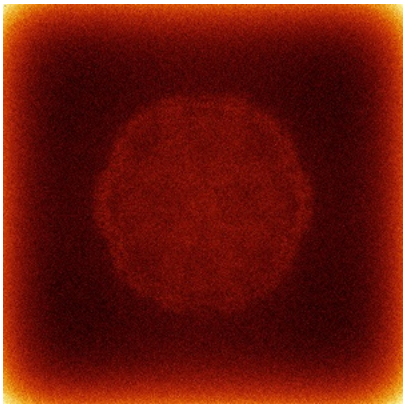


Z

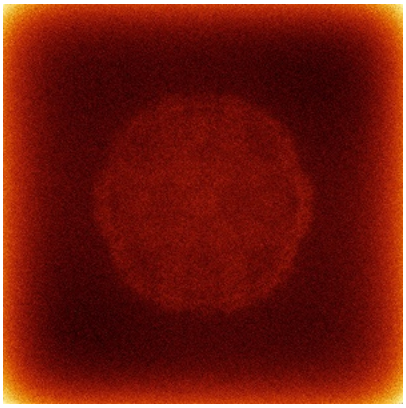
6.4.2 Raw map



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.

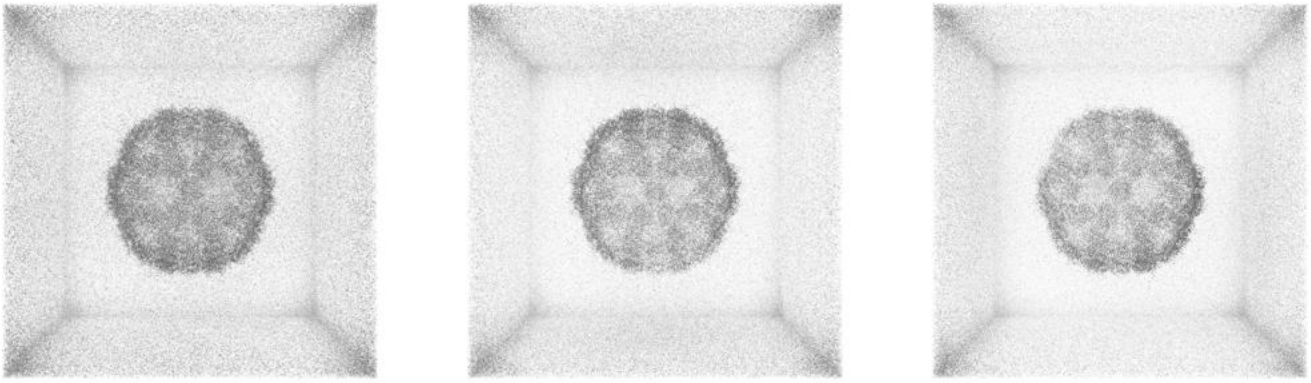
6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.15. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

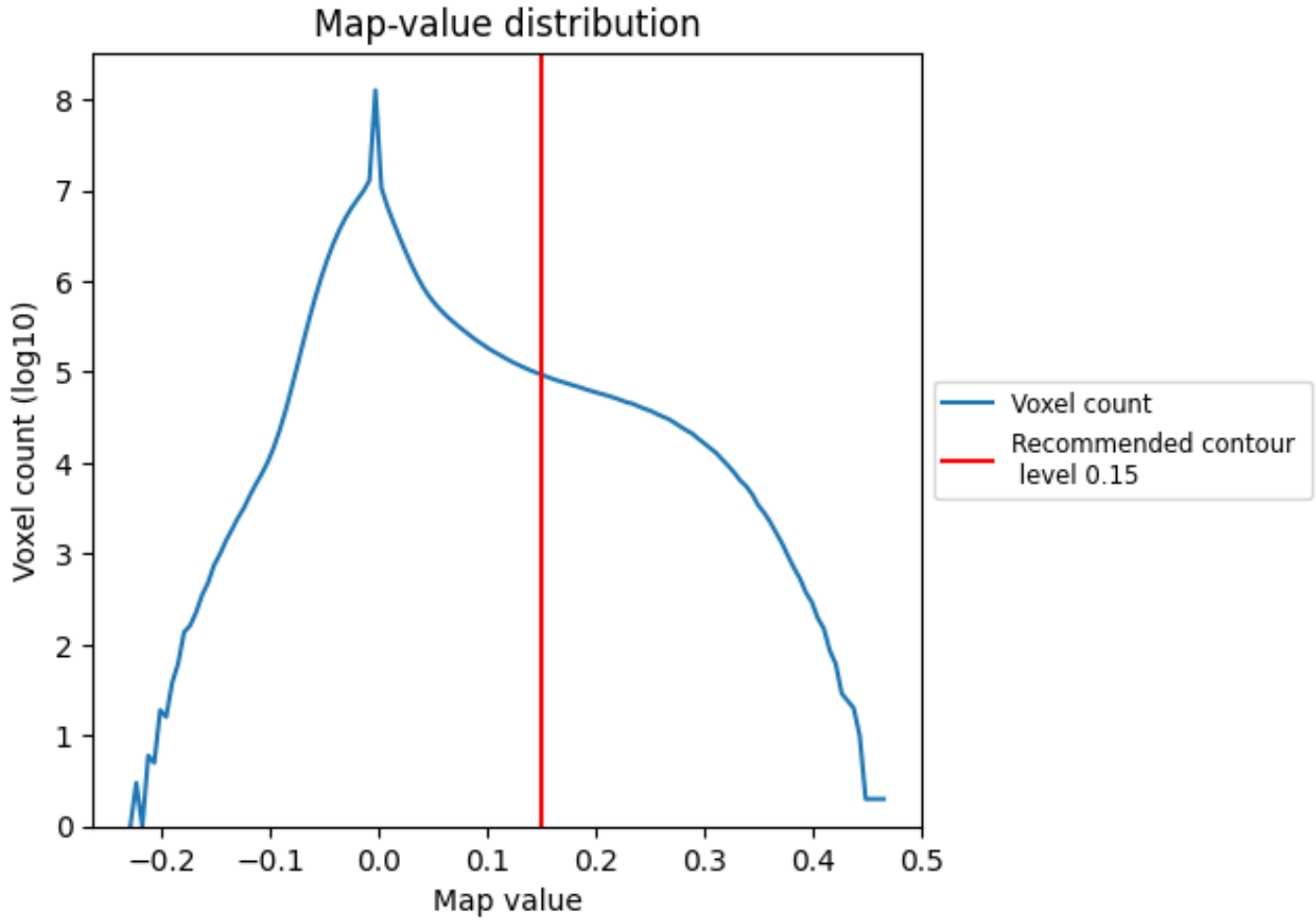
6.6 Mask visualisation (i)

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

7 Map analysis

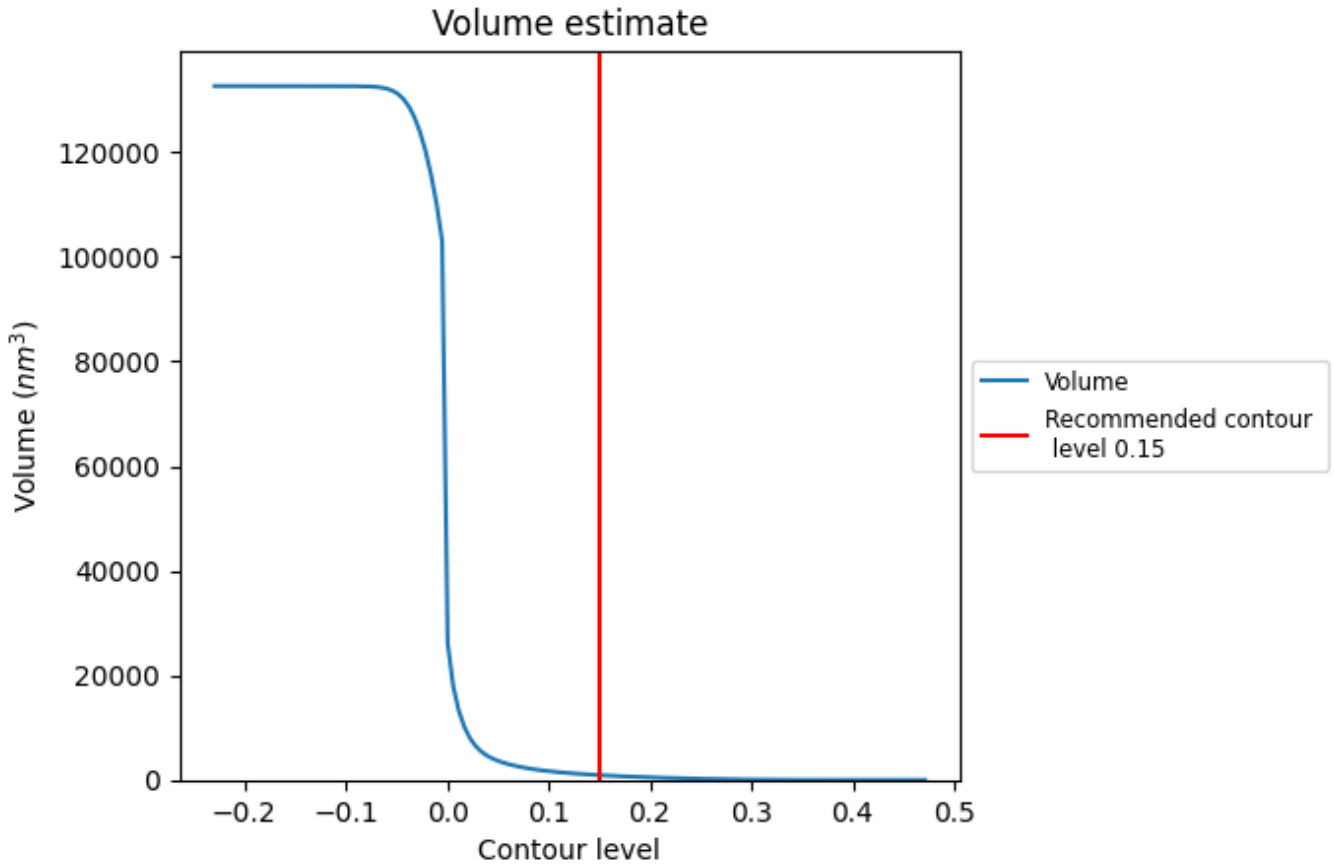
This section contains the results of statistical analysis of the map.

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.

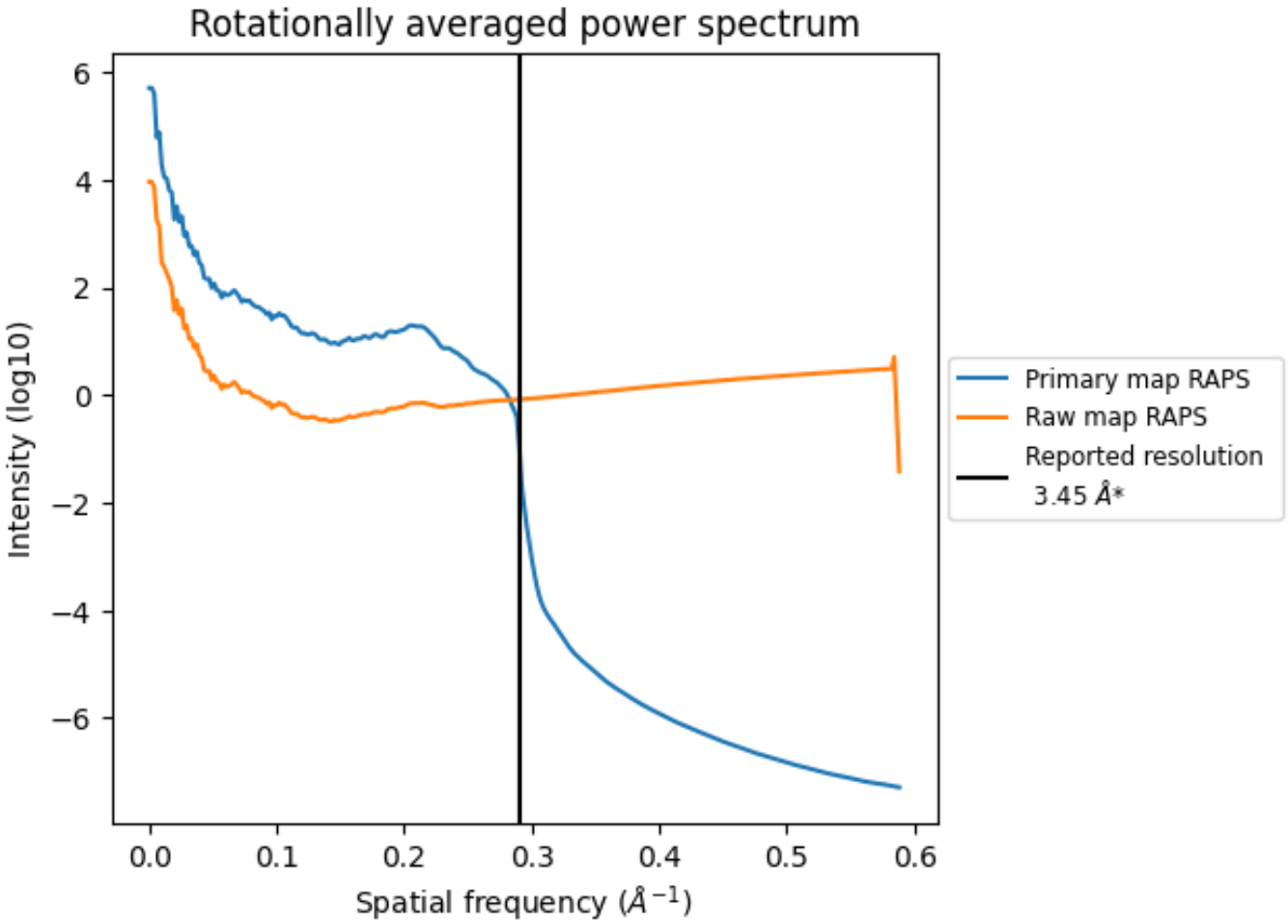
7.2 Volume estimate



The volume at the recommended contour level is 924 nm^3; this corresponds to an approximate mass of 835 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)

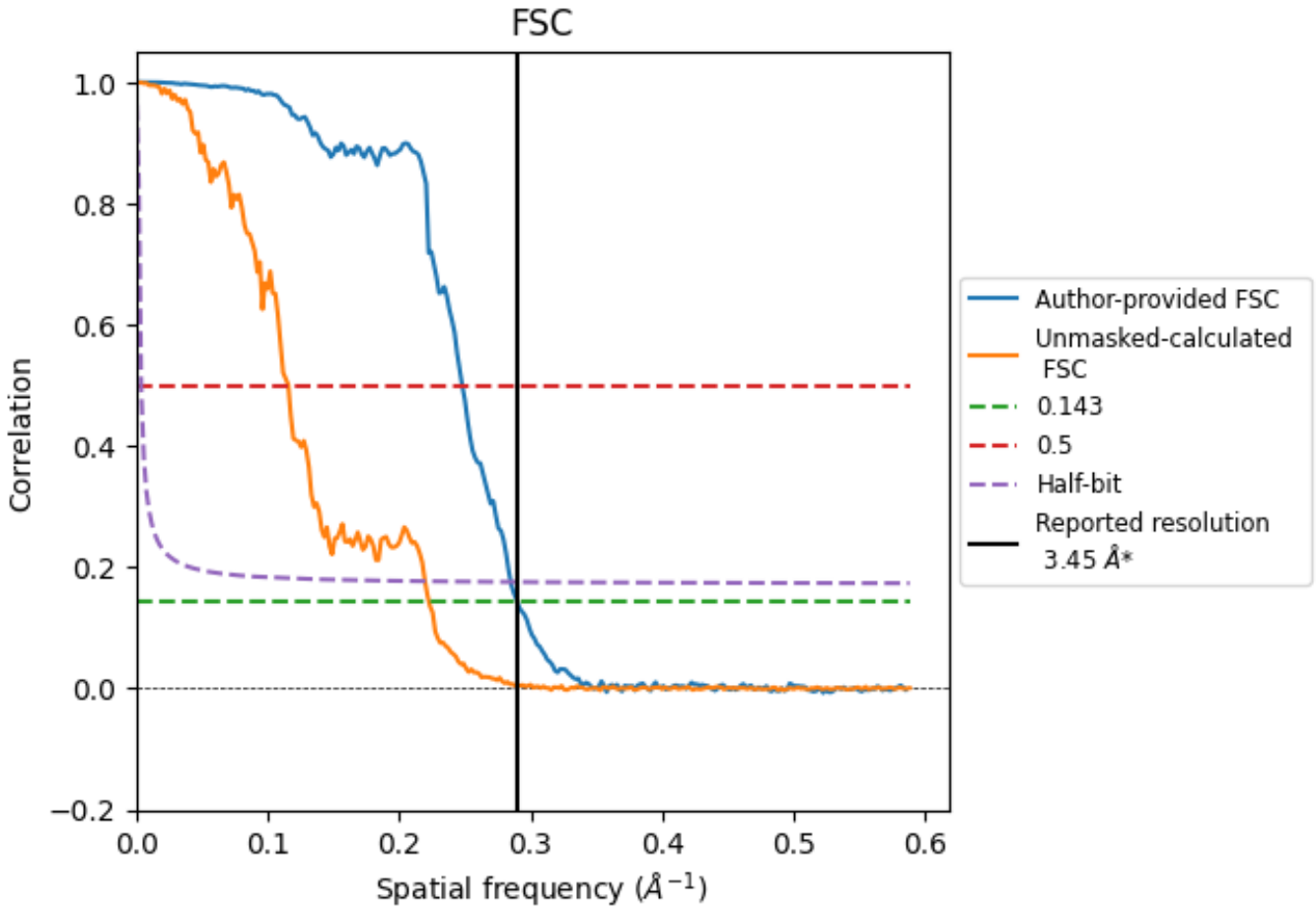


*Reported resolution corresponds to spatial frequency of 0.290 Å^{-1}

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 0.290 Å^{-1}

8.2 Resolution estimates (i)

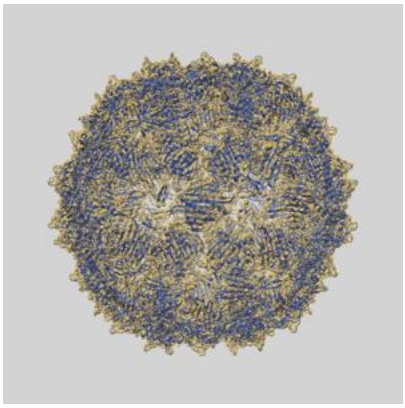
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.45	-	-
Author-provided FSC curve	3.45	4.03	3.51
Unmasked-calculated*	4.49	8.64	4.55

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.49 differs from the reported value 3.45 by more than 10 %

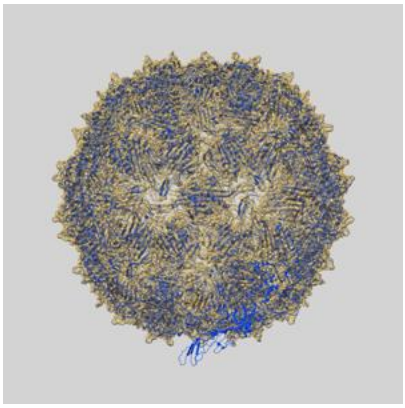
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-75020 and PDB model 9ZZY. Per-residue inclusion information can be found in section 3 on page 20.

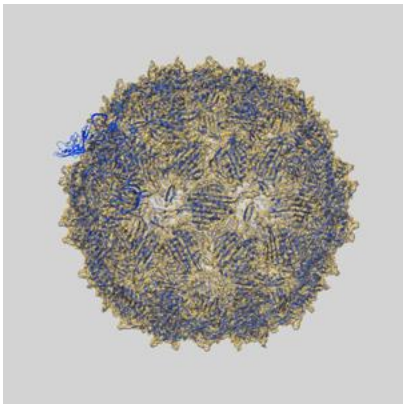
9.1 Map-model overlay



X



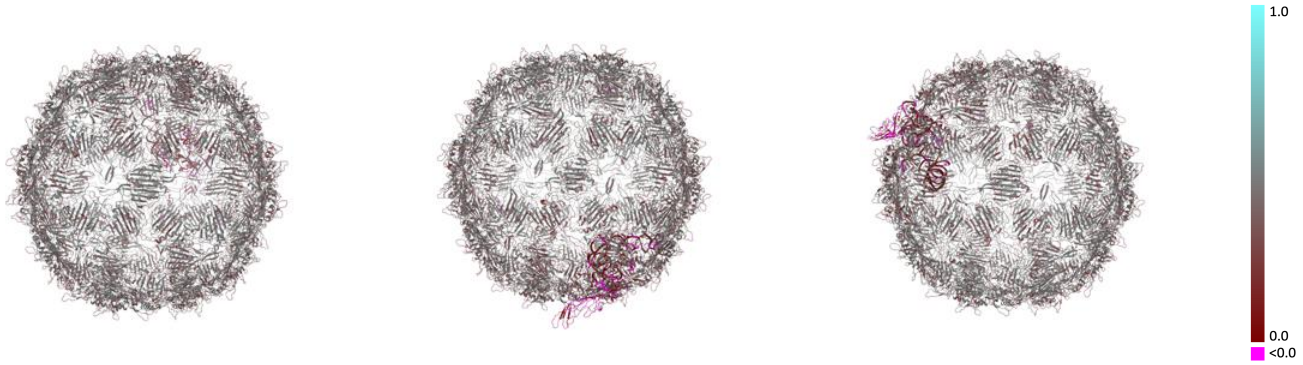
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.15 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.

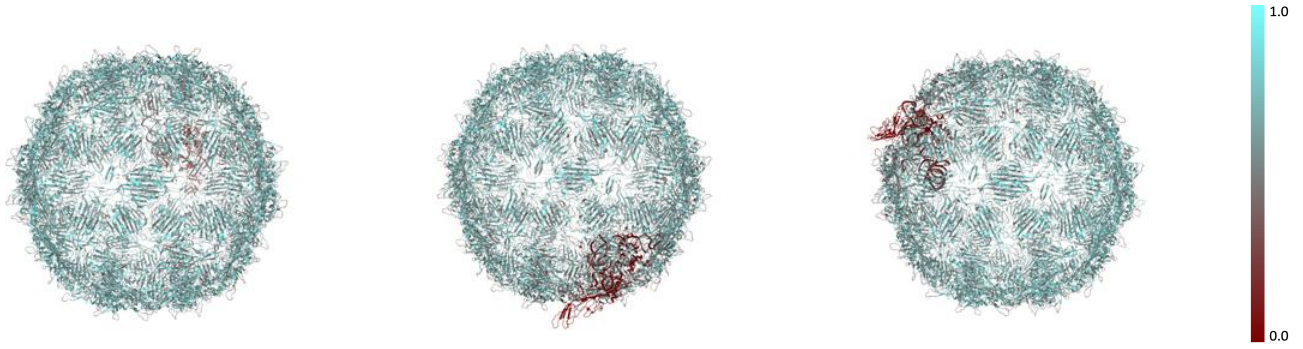
9.2 Q-score mapped to coordinate model (i)



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.

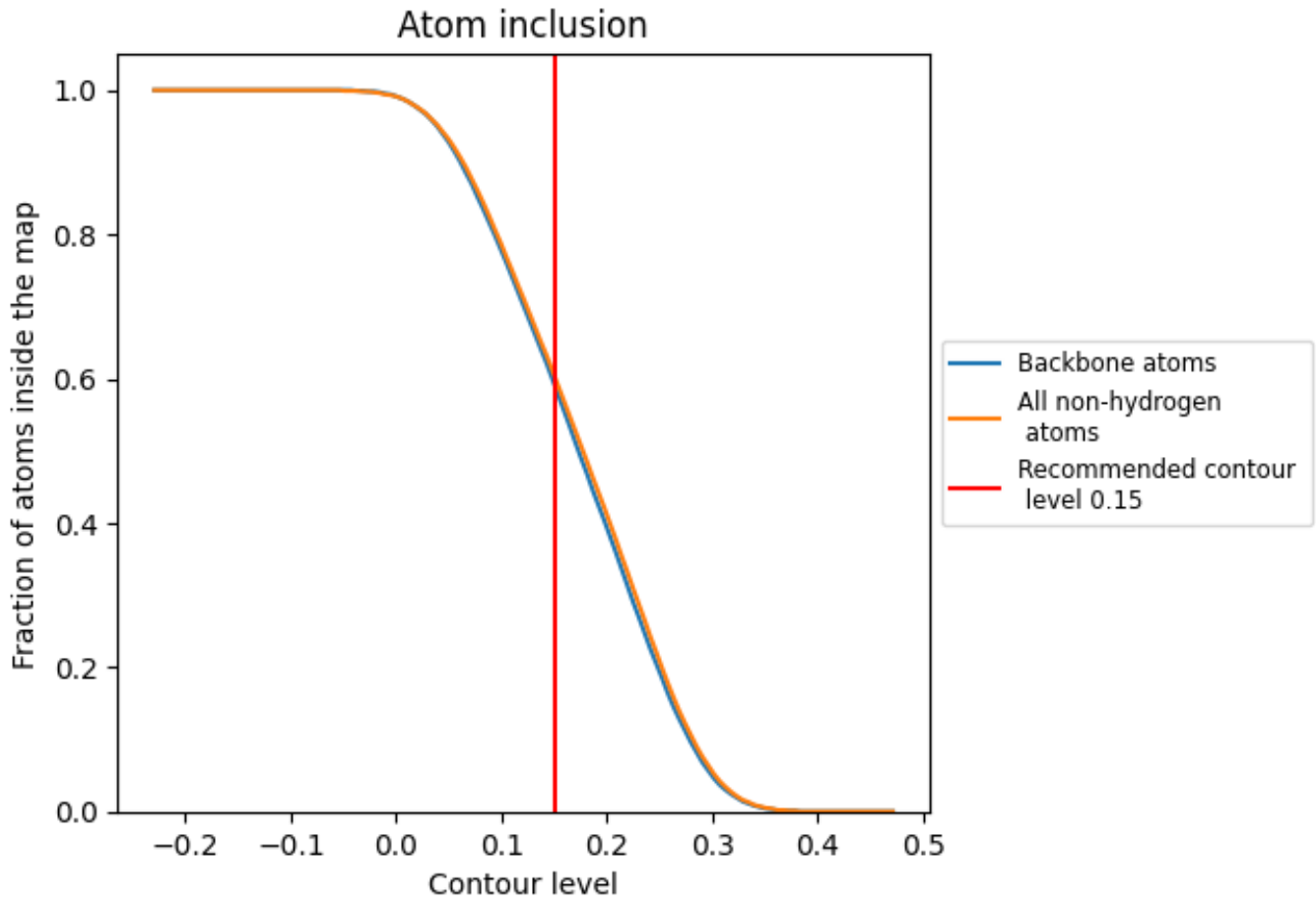
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.15).

9.4 Atom inclusion (i)



At the recommended contour level, 59% 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 (0.15) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6050	0.4020
0	0.6000	0.4110
1	0.6520	0.4520
2	0.6180	0.4280
3	0.6070	0.4090
4	0.5890	0.3940
5	0.6440	0.4260
6	0.6400	0.4300
7	0.6020	0.4080
8	0.6070	0.3870
9	0.6000	0.4050
A	0.6510	0.4190
A0	0.6580	0.4150
A1	0.6340	0.4180
A2	0.6000	0.3950
A3	0.6190	0.4150
A4	0.6250	0.3920
A5	0.6270	0.4080
A6	0.6520	0.4370
A7	0.6510	0.4330
A8	0.6170	0.3880
A9	0.6470	0.4260
AA	0.6290	0.4230
AB	0.6120	0.3860
AC	0.6220	0.4280
AD	0.6250	0.4190
AE	0.2160	0.1120
AO	0.6290	0.4060
AP	0.6190	0.3850
AQ	0.6240	0.4360
AR	0.6440	0.4300
AS	0.6370	0.4250
AT	0.6130	0.3960
AU	0.6520	0.4340
AV	0.6360	0.4090

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Chain	Atom inclusion	Q-score
AW	0.6340	0.4180
AX	0.6450	0.4270
AY	0.6110	0.4080
AZ	0.6090	0.3900
Aa	0.6130	0.4120
Ab	0.6180	0.4350
Ac	0.5950	0.4020
Ad	0.5890	0.3940
Ae	0.6030	0.4260
Af	0.5780	0.3830
Ag	0.5450	0.4020
Ah	0.5800	0.4080
Ai	0.6050	0.4270
Aj	0.6020	0.3980
Ak	0.6100	0.3940
Al	0.6200	0.4240
Am	0.6090	0.4080
An	0.6070	0.4010
Ao	0.5980	0.4060
Ap	0.5790	0.3670
Aq	0.5760	0.4070
Ar	0.6200	0.4220
As	0.6350	0.4220
At	0.6450	0.4180
Au	0.6310	0.4070
Av	0.6250	0.4030
Aw	0.6280	0.4290
Ax	0.6330	0.4350
Ay	0.6430	0.4310
Az	0.6490	0.4030
B	0.6190	0.3760
B0	0.5670	0.3580
B1	0.6310	0.4230
B2	0.6240	0.3990
B3	0.5990	0.4060
B4	0.6020	0.3940
B5	0.6260	0.4050
B6	0.6130	0.3910
B7	0.6200	0.4240
B8	0.6050	0.3970
B9	0.5800	0.3840
BA	0.6730	0.4280

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Chain	Atom inclusion	Q-score
BB	0.6490	0.3920
BC	0.6840	0.4510
BD	0.6570	0.4440
BE	0.6610	0.4220
BF	0.6350	0.4020
BG	0.6070	0.4080
BH	0.5850	0.3930
BI	0.5980	0.4160
BJ	0.6040	0.4080
BK	0.6180	0.4100
BL	0.6290	0.4150
BM	0.6210	0.4120
BN	0.6120	0.3950
BO	0.6350	0.4200
BP	0.6320	0.4250
BQ	0.6440	0.4310
BR	0.6270	0.3940
BS	0.6260	0.4160
BV	0.6390	0.4000
BY	0.6510	0.4410
BZ	0.6240	0.4310
Bb	0.6030	0.3900
Bc	0.6400	0.4220
Bd	0.6230	0.4220
Bg	0.6180	0.4190
Bh	0.6170	0.4180
Bi	0.6310	0.4270
Bj	0.6380	0.4010
Bk	0.6480	0.4200
Bl	0.6560	0.4100
Bm	0.6350	0.4200
Bn	0.6240	0.3780
Bu	0.6490	0.4250
Bv	0.6360	0.4200
Bw	0.6520	0.4290
Bx	0.6200	0.4140
By	0.6600	0.4320
Bz	0.6360	0.3870
C	0.6740	0.4370
CA	0.6400	0.4310
CB	0.6200	0.3940
CC	0.5850	0.4070

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Chain	Atom inclusion	Q-score
CD	0.6120	0.3870
CH	0.6190	0.3990
CI	0.6310	0.4260
CK	0.5140	0.3640
CL	0.5090	0.3850
CM	0.4550	0.3660
CN	0.5430	0.3820
CO	0.5760	0.3960
CP	0.5620	0.3760
CQ	0.4870	0.3880
CR	0.5070	0.3820
CS	0.4580	0.3710
CT	0.5680	0.3850
D	0.6400	0.4240
E	0.6420	0.4310
F	0.0340	0.0810
G	0.6580	0.4460
H	0.6620	0.4390
I	0.6230	0.4150
J	0.6090	0.3890
K	0.6260	0.4260
L	0.6630	0.4410
M	0.6550	0.4290
N	0.6330	0.3850
O	0.6330	0.3860
P	0.6390	0.3990
Q	0.6590	0.4310
R	0.6460	0.4210
S	0.6550	0.4340
T	0.6520	0.4040
U	0.6720	0.4500
V	0.6490	0.4410
W	0.6540	0.4240
X	0.6180	0.3920
Y	0.6330	0.4330
Z	0.6600	0.4420
a	0.6410	0.4270
b	0.6290	0.3920
c	0.6340	0.4450
d	0.6440	0.4340
e	0.6430	0.4240
f	0.6430	0.4080

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Chain	Atom inclusion	Q-score
g	0.6540	0.4340
h	0.6450	0.4310
i	0.6490	0.4200
j	0.6310	0.4010
k	0.6470	0.4300
l	0.6540	0.4320
m	0.6730	0.4230
n	0.6420	0.4090
o	0.6410	0.4180
p	0.6600	0.4210
q	0.6110	0.4160
r	0.6050	0.3850
s	0.6350	0.4300
t	0.6280	0.4300
u	0.6240	0.4200
v	0.6120	0.4090
w	0.6120	0.4330
x	0.6240	0.4390
y	0.6390	0.4370
z	0.6280	0.4050